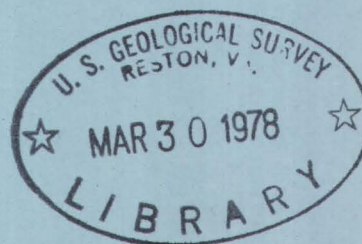


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Water Resources Data for Nevada

Water Year 1976



Received by Operations Section

15 APR 1977



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

Prepared in cooperation with the State of Nevada and with
other agencies

FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	*hectares (ha)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	**liters (l)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons (10 ⁶ gal)	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days [(ft ³ /s) · d]	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (l/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (l/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day (mgal/d)	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

Water Resources Data for Nevada

Water Year 1976



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

**Prepared in cooperation with the State of Nevada
and with other agencies**

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

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U.S. Geological Survey
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705 North Plaza Street
Carson City, Nevada 89701

1977

Preface

This report was prepared by the U.S. Geological Survey in cooperation with the State of Nevada and with other agencies, by personnel of the Nevada district of the Water Resources Division under the supervision of John P. Monis, District Chief, and William H. Robinson, Regional Hydrologist, Western Region.

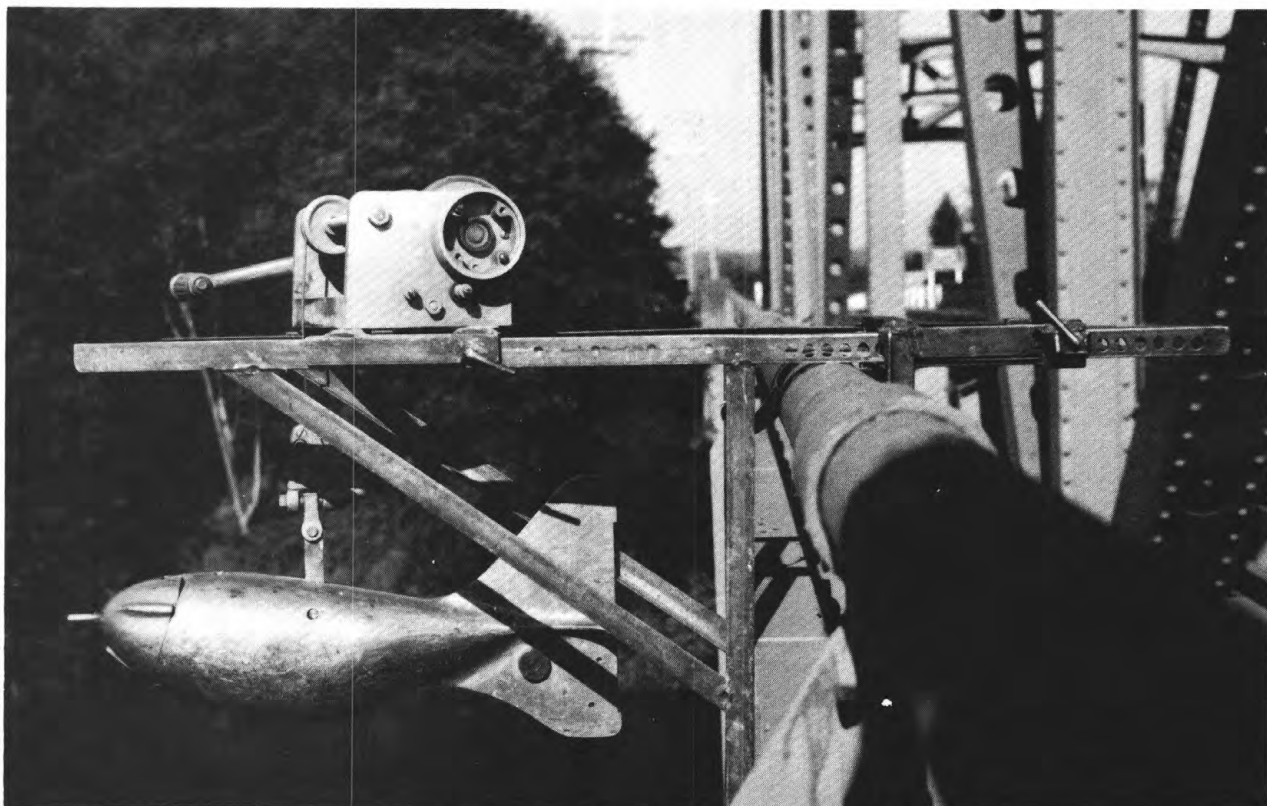
This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Photo 1. Sampling sediment transport in a shallow stream using a hand-held sampler.

Photo 2. A cable-suspended sediment sampler for use in nonwadeable streams.



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GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

IX

*[Letter after station name designates type of data:
(d) discharge, (e) elevation or contents, (c) chemical, (b) biological
and microbiological, (t) water temperature, (s) sediment]*

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WATER RESOURCES DATA FOR NEVADA, 1976

INTRODUCTION

Water resources data for the 1976 water year for Nevada consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells. This report contains discharge records for 111 gaging stations; stage and contents for 21 lakes and reservoirs; water-quality data for continuing-record stations at 27 stream sites and 1 lake site, for partial-record stations at 8 stream sites, 9 lake sites, and 14 wells; and water levels for 165 observation wells. Also included are data for 108 crest-stage partial-record stations and 13 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Records of discharge of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a multi-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 are published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NV-76-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151.

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Nevada Department of Conservation and Natural Resources,
Elmo J. DeRicco, Director. Office of Nevada State
Engineer, Roland D. Westergard.

Nevada Department of Highways, Grant Bastian, P. E., State
Highway Engineer.

Nevada Department of Human Resources, Roger S. Trounday,
Director.

California Department of Water Resources, Ronald B. Robie,
Director.

Carson City Public Work Department, Paul Lumas, Director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; the Bureau of Reclamation, the Fish & Wildlife Service, the Bureau of Indian Affairs, U.S. Department of the Interior; U.S. District Court Watermaster; and the Environmental Protection Agency.

The following organizations aided in collecting records:

Clark County Flood Control District; Walker River Irrigation District; Carson-Truckee Water Conservancy District; Truckee-Carson Irrigation District; City of Las Vegas; Pershing County Water Conservation District; Nevada Department of Fish and Game; Nevada Department of Administration; Carson Water Sub-Conservancy District; and the U.S. Board of Water Commissioners.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

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HYDROLOGIC CONDITIONS

Streamflows for the early part of the 1976 water year continued near average, even excessive in the Humboldt River Basin; however, as the winter months passed and average precipitation and snowpack did not materialize, runoff dropped to about half of the average for spring and summer supply. The shortage was partially mitigated by above-average reservoir storages at the beginning of the irrigating season and by more rain and cooler temperatures than usual in late summer. Figure 1 on the next page compares the monthly and yearly mean discharges for the 1976 water year with the median discharges for the reference period 1941-70 at two long-term gaging stations.

Reservoir contents at the end of the water year were generally very low with little prospect of appreciable carryover to next year.

Thunderstorm activity was above average throughout the State from July to September. Some notable thunderstorm and flash-flood periods were mid-July, July 31-Aug. 2, and Sept. 10-12. Isolated storms were the rule in July and August but the storm activity was more widespread in September as the remains of two tropical disturbances entered the southern part of the State. Some of the flash flooding was as hydrologically severe as previously measured, but no major urban areas were severely damaged although road wash-outs and traffic delays were not uncommon.

Surface-water quality was consistent with past records at all but one station during water year 1976. The exception was Las Vegas Wash near Boulder City, Nev. (sta. 09419800), where abnormally high flows resulting from rainstorms in February and thundershowers in July and September had pronounced effects on sediment-related characteristics. In addition, the total-mercury concentration on May 25 far exceeded "background" levels, and subsequent values also were above-normal.

Water levels in observation wells near developed areas generally declined in 1976. In undeveloped areas water levels exhibited no significant trend. Overall, declines were observed in slightly more than 50 percent of the wells measured. New record lows were observed in 36 wells and new record highs occurred in 14 wells.

HYDROLOGIC CONDITIONS

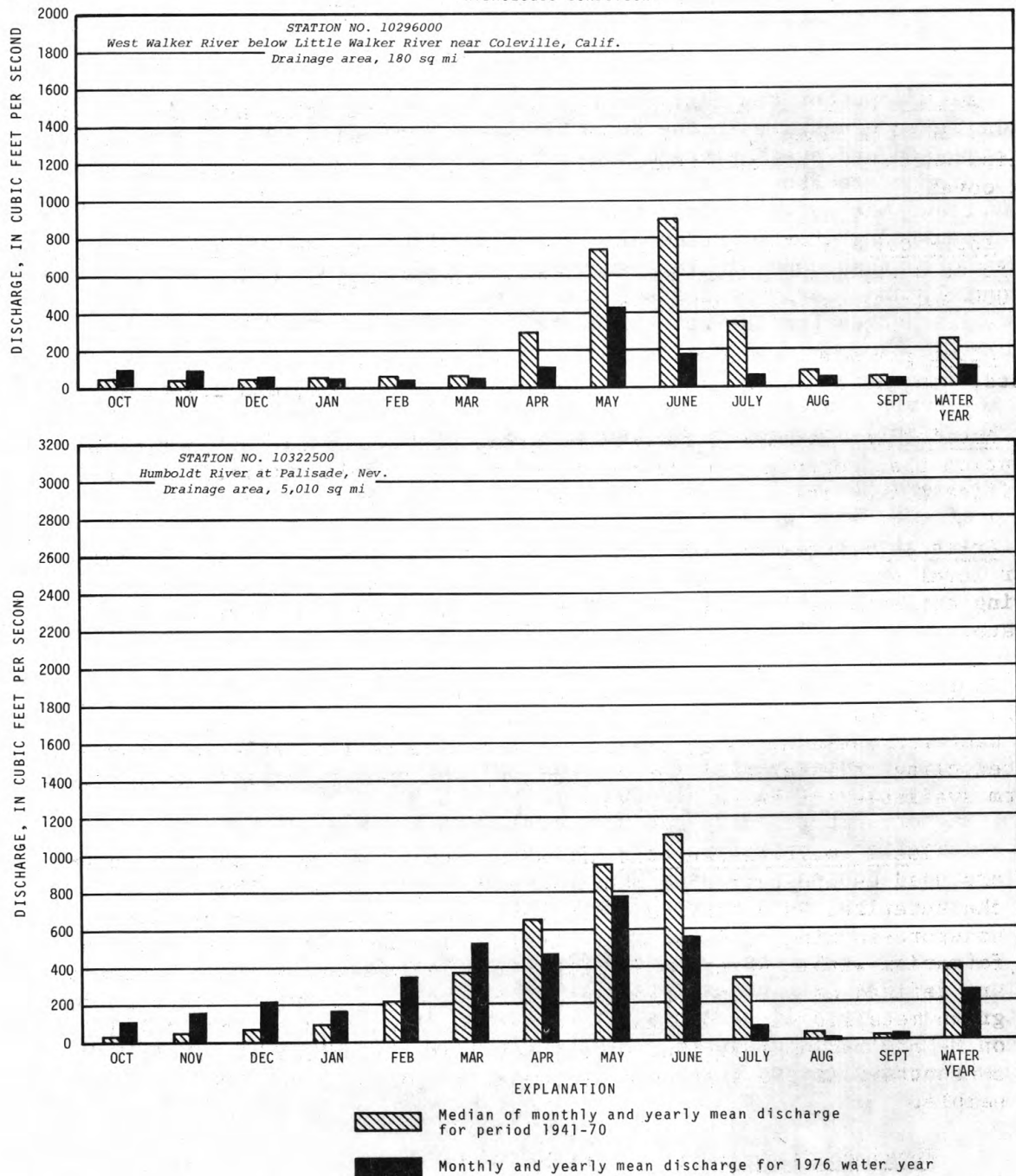


FIGURE 1.--COMPARISON OF DISCHARGE AT TWO LONG-TERM REPRESENTATIVE GAGING STATIONS DURING 1976 WATER YEAR WITH MEDIAN DISCHARGE FOR PERIOD 1941-70.

DEFINITION OF TERMS

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

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

Algae are mostly aquatic single-celled, colonial, or multi-celled 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 the 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, by 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. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

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

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

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

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 phytoplankton are expressed in grams per cubic meter (g/m^3), and of periphyton in grams per square meter (g/m^2).

Dry mass for periphyton refers to the mass of residue present after drying in an oven at 105°C 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.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (ml). The listed phytoplankton total, in cells/ml, may be slightly different from a summation of individual organism counts, because of differences associated with rounding off.

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

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 green pigments in plants.

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

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

Cubic foot per second (CFS, 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 meter per second.

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

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

Instantaneous discharge is the discharge at a particular instant time.

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

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, half the bicarbonate (generally a major dissolved component of water) is converted to carbonate, and the rest is lost as carbon dioxide plus water vapor. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in mg/l , is multiplied by 0.492 to reflect the loss and to thereby make calculated and "residue-on-evaporation" values comparable.

Drainage area of a stream at a specific 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 herein 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 a 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 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 required to produce lather. It is attributable to the presence of alkaline-earth ions (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.

Land-surface datum (LSD, lsd) is a datum plane that is approximately at land surface at each observation well.

Mean sea level (MSL, msl) is the datum plane on which the national network of precise levels is based.

Measuring point (MP) is an arbitrary datum point from which water levels in observation wells are measured.

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

Micrograms per liter (UG/L , $\mu\text{g}/\text{l}$) 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 (milligrams) 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.

Miscellaneous site is a location other than a continuous- or partial-record station where random samples are collected to give better areal coverage of water-quality conditions in a river basin.

Organism is any living entity, such as an insect, phytoplankton, or zooplankton.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (ml) or liters (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 particular site where limited streamflow and/or water-quality 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 either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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 - 0.0040	Sedimentation.
Silt.....	.0040 - .062	Sedimentation.
Sand.....	.062 - 2.	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. Chemical dispersion is not used for native-water analysis.

Percent composition 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, mass or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifiers, and other small organisms. Periphyton is a useful indicator 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, which control insects and plants respectively, are the two categories reported.

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

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

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

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

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

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates, and decomposed organic material such as humus. The quantity characteristics 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.

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

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

Suspended-sediment discharge (tons/day) is the rate at which sediment passes a section of a stream. It is computed by multiplying discharge times concentration (mg/l) times the proper conversion coefficient (generally, 0.0027).

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. This ratio should be known for irrigation water.

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

Specific conductance is a measure of the ability of a water to conduct an electrical current. It 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 of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from water to water, and it may vary in the same source with changes in composition.

Stage-discharge relation is the relation between gage height (stage) and 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" as 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 lived.

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

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.....	Plant
Phylum.....	Chrysophyta
Class.....	Bacillariophyceae
Order.....	Pennales
Family.....	Achnanthaceae
<u>Genus.....</u>	<u>Achnanthes</u>
<u>Species.....</u>	<u>lanceolata</u>

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

Tons per day is the rate at which a substance in solution or suspension passes a stream section.

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

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

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

DOWNSTREAM ORDER AND STATION NUMBERS

Since Oct. 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show 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 hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the series of 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 10351700, which appears just to the left of the station name, includes the 2-digit part number "10" plus the 6-digit downstream order number "351700." 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 in this report are in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can 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 AND LOCATION FOR GROUND-WATER SITES

Latitude-Longitude Numbers

The numbering system used nationally by the U.S. Geological Survey for numbering wells and springs is based on the grid system of latitude and longitude. The system provides both the geographic location of the well or spring and a unique number for each site. The complete number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote the degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells and springs within a 1-second grid. See figure 2 on next page.

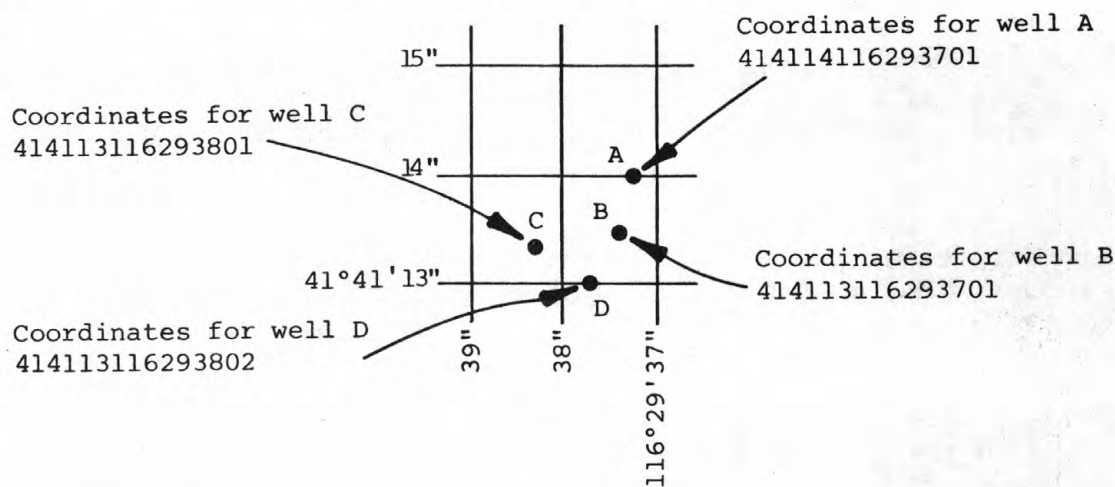


Figure 2.--Site-numbering system based on longitude and latitude.

Local Site Numbers

Local site numbers used in Nevada locate ground-water data sites (wells or springs) by hydrographic areas and by the official rectangular subdivision of the public lands with reference to the Mt. Diablo meridian and base line. Nevada has been divided into 14 hydrographic regions and basins and approximately 250 individual hydrographic areas or valleys¹ which are used to compile information pertaining to water resources in Nevada. The local site number uses as many as 19 digits to locate the site by hydrographic area, township, range, section, and section subdivision.

The first segment of the local site number specifies the hydrographic area as defined by Rush. The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as 3 times, depending on the accuracy of available maps; thus each section of about 640 acres (259 ha) may be subdivided into tracts approximately 330 ft (100 m) on a side containing about 2.5 acres (1.0 ha). Lettered quadrants are read from left to right with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. For example, as shown in figure 3, a well in Mason Valley (hydrographic area 108) located within the unshaded area of section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCCC1. A second well within the same 2.5-acre (1.0-ha) tract would be numbered 108 N13 E26 06CCCC2.

1. Rush, F. E., 1968, Index of hydrographic areas: Nevada Dept. Conserv. and Nat. Resources, Info. Ser. Rept. 6, 38 p.

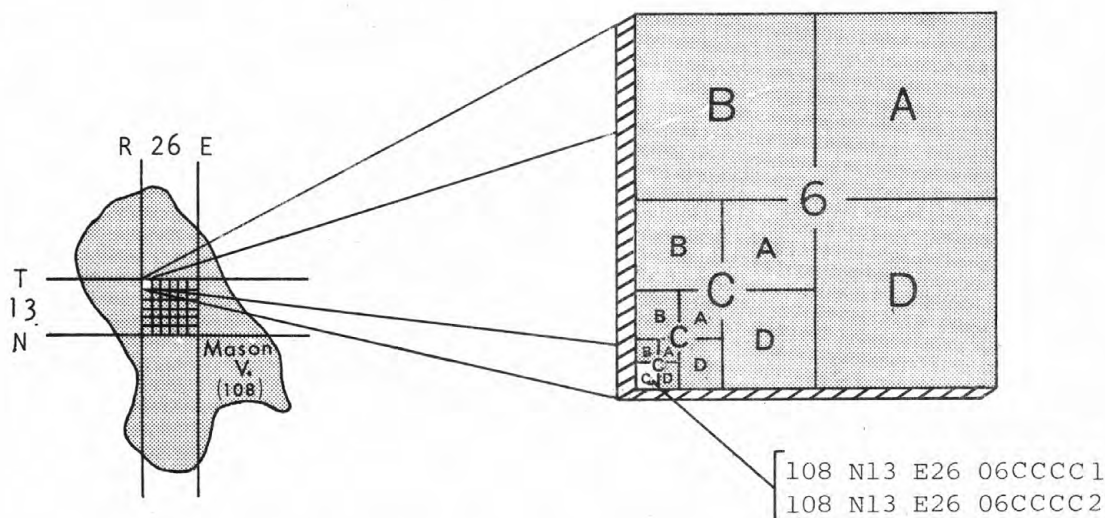


Figure 3.--Numbering system used in Nevada for ground-water sites.

Prior to January 1976, published local site numbers in Nevada followed the general format exemplified by 13/26-16abl, where the first number was the township north (or south, if preceded by an "S"), the second number was the range east, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence number as defined above.

SPECIAL NETWORKS AND PROGRAMS

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

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 river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

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

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

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

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and the discharge cannot be computed in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

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

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

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

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "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."

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

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

The maximum discharge (or contents), and the maximum gage height, the minimum discharge, if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately.

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

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. To make such revised records easier to find, 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 were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

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

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

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

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

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

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

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

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 given in a special table following the tables of discharge at partial-record stations and miscellaneous sites.

Accuracy of Data

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s (if zeros only are used in the hundredths place, it may be for uniformity, and the values should not be considered accurate to the nearest hundredth); to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures about 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules may 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, consumption, regulation by storage, increase or decrease in evaporation 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 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.

Special reports on major floods or droughts, as well as other hydrologic studies, have been issued by the Geological Survey in publications other than water-supply papers or annual reports. Information relative to these other publications or the availability of unpublished data or statistical analyses may be obtained from the District Office, at the address given on the back of the title page.

Records of Discharge Collected by Agencies other than
the Geological Survey

Records of discharge not published by the Geological Survey were collected in Nevada at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22090, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Records of surface-water quality are listed in downstream order by station number. The data generally are collected at or near gaging stations, and are reported immediately following other records for those stations. Water-quality data for most ungaged sites are listed with the records for other surface-water stations, in regular downstream order. The exceptions are the less detailed data for several ungaged sites, which are grouped separately in the section titled "Analyses of samples collected at water-quality partial-record stations."

The descriptive headings for detailed records of surface-water quality give periods of record for the various categories of data, extremes for certain pertinent data, and general remarks. For less detailed records, only the overall period of record is listed.

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

Water analysis

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

One stream-water 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 for the accurate determination of 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. Where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the published records consist of daily maximum, minimum, and mean values. More detailed records may be obtained from the district office.

Water temperature

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

At stations where recording instruments are used, daily maximum and minimum temperatures are published. More detailed records are available from the district office.

Sediment

Suspended-sediment concentrations are determined on samples collected using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section.

The samples are collected periodically--generally once per month. During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment quantity, periodic measurements of the particle-size distribution of the sediment also are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only the data from a basic network of observation wells are published herein. This basic network contains wells so located that significant data are obtained from a few wells in the most important aquifers. Observation wells in Nevada are classified by frequency of measurement as either primary or secondary wells. Primary observation wells are those generally measured monthly or more frequently; secondary observation wells are those generally measured quarterly or annually. Additional water-level data have been collected during water year 1976 in Nevada on a project basis, and either are published in reports listed in "Water-Related Reports Prepared by the Geological Survey for Release During the Year," next page, or are on file at the District Office at the address given on the back of the title page.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude and (2) a local well number providing location and identification based upon the rectangular subdivision of the public lands (see "Numbering system and location for ground-water sites," p. 13).

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. This insures that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD). If known, the altitude of the datum above mean sea level is stated. Data for wells equipped with water-level recorders 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.

WATER-RELATED REPORTS PREPARED BY THE GEOLOGICAL SURVEY
FOR RELEASE DURING THE YEAR

Ash Meadows, Nye County: Effect of irrigation pumping on desert pupfish habitats, by W. W. Dudley, Jr., and J. D. Larson; U.S. Geol. Survey Prof. Paper 927, 52 p.

Carson River basin: Water-resources appraisal, by P. A. Glancy and T. L. Katzer; Nev. Div. Water Resources, Recon. Ser. Rept. 59, 126 p.

Devils Hole area, Nye County: Water-resources data, 1975-76, by W. T. Hanes; U.S. Geol. Survey Open-File Rept. 76-797, 14 p.

Grass and Buffalo Valleys: Geothermal data from test wells, by J. H. Sass and others; U.S. Geol. Survey Open-File Rept. 76-85, 43 p.

Incline Village area, Lake Tahoe basin: A reconnaissance of streamflow and fluvial sediment transport, third progress report, 1972 and 1973, by P. A. Glancy; Nev. Div. Water Resources, Info. Ser. Rept. 23, 42 p.

Incline Village area: Miscellaneous hydrologic data collected during a reconnaissance of streamflow and fluvial sediment transport, 1970-73, by P. A. Glancy; U.S. Geol. Survey Open-File Rept. 76-483, 14 p.

Las Vegas Valley: A brief hydrologic appraisal of the July 3-4, 1975, flash flood, by T. L. Katzer and others; U.S. Geol. Survey Open-File Rept. 76-100, 40 p.

Las Vegas Valley: Water-level changes associated with ground-water development, 1971-75, fourth progress report--summary of data, by J. R. Harrill; Nev. Div. Water Resources, Info. Ser. Rept. 22, 46 p.

Nevada: Estimating peak discharges from small drainages according to basin areas within elevation zones, by D. O. Moore; Nev. Highway Dept., Hydrol. Rept. 3, 17 p.

Nevada: Flood investigations through 1975 water year, by Otto Moosburner; U.S. Geol. Survey Prog. Rept. 15, 87 p.

Northwestern Nevada: Chemical data for eight springs, by R. H. Mariner and others; U.S. Geol. Survey open-file rept., 13 p.

Owyhee River basin, Elko County: Maps of flood-prone areas, Owyhee and Ungava-Wongo 7½-minute topographic quadrangles.

Smith Valley: Geohydrology, with special reference to the water-use period, 1953-72, by F. E. Rush and C. V. Schroer; Nev. Div. Water Resources, Bull. 43, 95 p.

Topaz Lake area, Douglas County: Ground-water data near the northwest shore, by J. R. Harrill and J. O. Nowlin; U.S. Geol. Survey Open-File Rept. 76-90, 12 p.

Topaz Lake area: A preliminary evaluation of the chemical character of water near the northwest shore, by J. O. Nowlin; U.S. Geol. Survey Open-File Rept. 76-419, 14 p.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one 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 Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. \$1.60.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-B2. *Introduction to ground-water hydraulics-a programed text for self-instruction*, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$0.70.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.

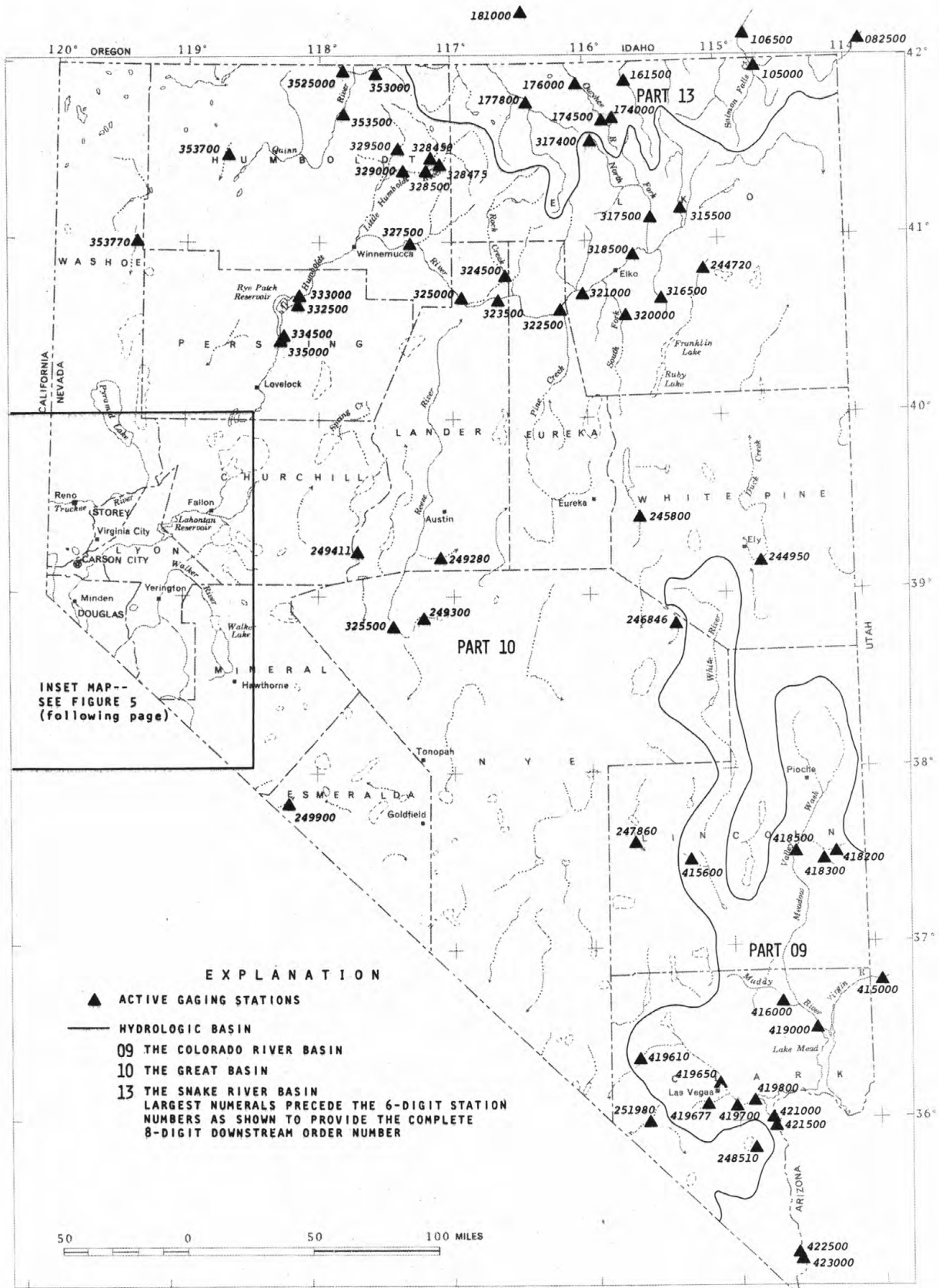


FIGURE 4.--GAGING STATIONS LISTED IN THIS REPORT.

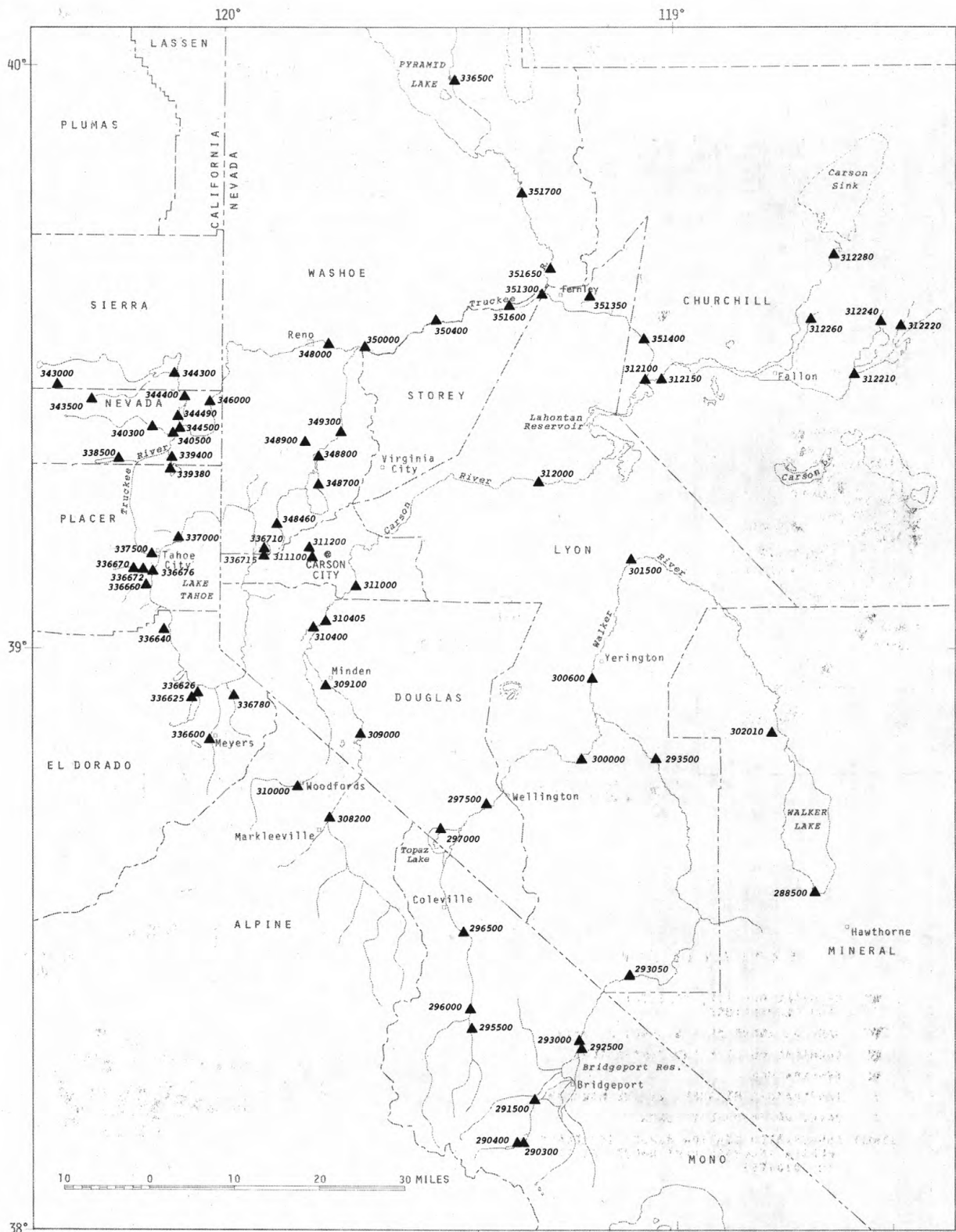
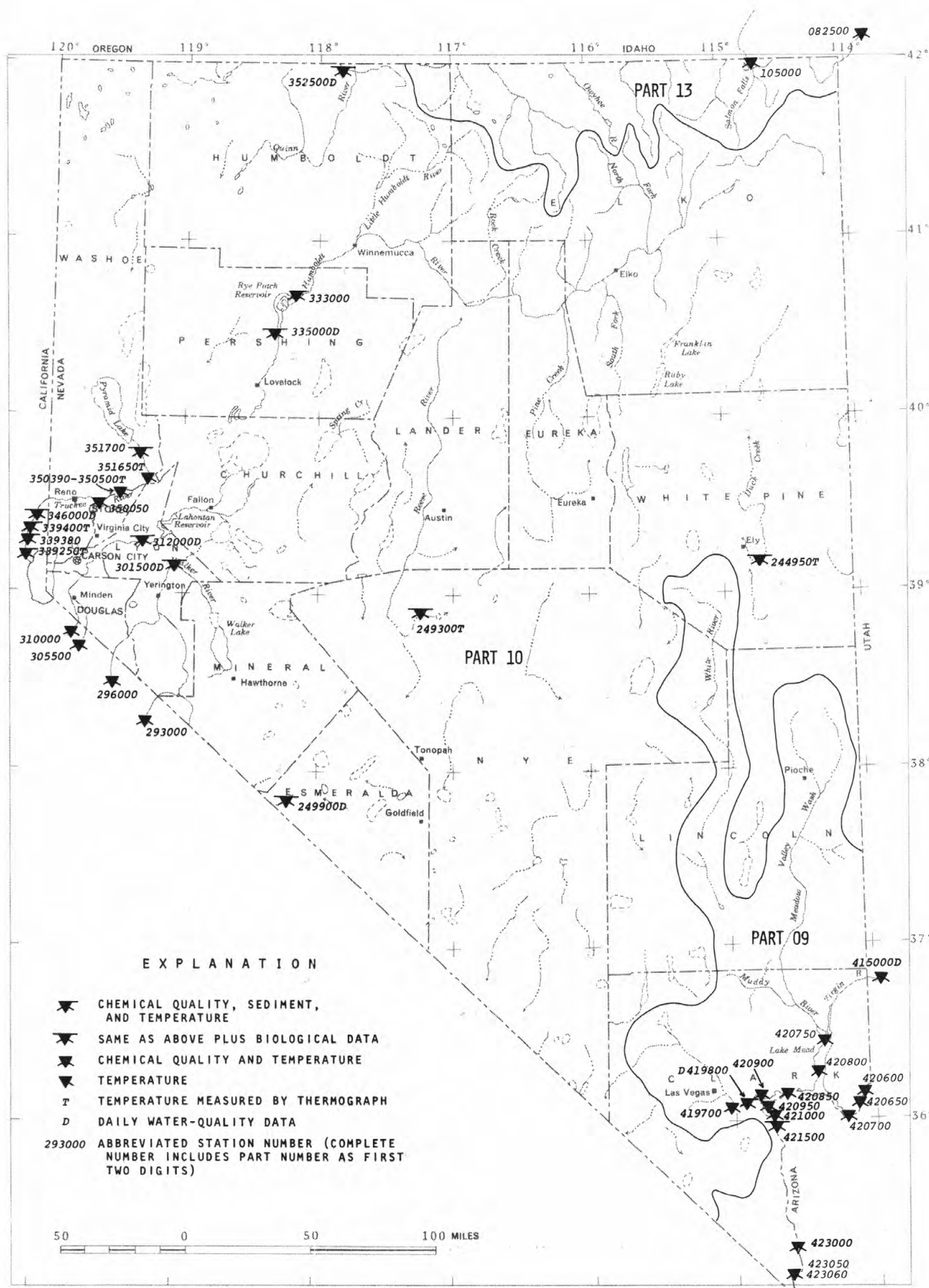


FIGURE 5.--ACTIVE GAGING STATIONS IN WEST-CENTRAL NEVADA.



VIRGIN RIVER BASIN

31

09415000 Virgin River at Littlefield, Ariz.

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from water line of Lake Mead at elevation 1,221 ft (372.2 m) above mean sea level.

DRAINAGE AREA.--5,090 mi² (13,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) above mean sea level, datum of 1929. Prior to May 28, 1933, nonrecording gage at same site and May 28, 1933, to Nov. 7, 1939, at site 300 ft (90 m) downstream, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at site 300 ft (90 m) downstream at datum 2.00 ft (0.610 m) higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at site 300 ft (90 m) downstream at same datum.

AVERAGE DISCHARGE.--47 years, 222 ft³/s (6.287 m³/s), 160,800 acre-ft/yr (198 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 ft³/s (147 m³/s) Feb. 9, gage height, 9.87 ft (3.008 m); minimum daily, 44 ft³/s (1.25 m³/s) Apr. 5, 11.

Period of record: Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 38 ft³/s (1.08 m³/s) May 1, 10, 1975.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversion above station for irrigation of about 23,200 acres (93.9 km²).

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M)

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	110	105	150	160	171	48	150	66	62	376	64
2	58	92	120	150	160	260	48	159	66	64	144	64
3	54	95	130	140	147	266	48	186	66	64	92	66
4	56	92	130	140	147	198	48	185	66	62	72	64
5	56	100	125	135	171	174	44	185	66	64	64	66
6	56	98	135	135	224	171	48	200	64	64	62	66
7	58	85	140	140	276	171	54	320	64	62	60	66
8	56	80	135	140	245	168	50	240	64	64	56	66
9	75	90	145	140	1600	159	46	200	64	64	54	66
10	78	90	150	150	1510	135	48	190	64	62	54	70
11	92	95	139	150	507	110	44	183	62	62	56	94
12	78	98	130	150	259	92	52	165	62	64	56	238
13	70	98	125	155	210	105	68	155	62	62	54	153
14	85	98	120	160	210	95	105	177	62	62	54	75
15	82	115	125	160	234	88	171	228	62	62	54	66
16	88	120	130	160	266	90	220	214	62	62	56	64
17	82	120	125	160	231	98	331	186	66	62	56	62
18	75	126	125	160	195	98	290	135	68	60	60	60
19	82	144	135	160	180	85	228	132	68	62	62	60
20	85	141	135	155	180	92	147	132	66	62	62	60
21	85	141	140	155	180	72	135	132	66	60	64	60
22	98	115	130	160	174	54	156	105	64	62	66	58
23	126	115	135	165	168	56	238	78	66	62	70	62
24	201	112	145	170	165	56	224	70	62	64	82	64
25	165	115	150	175	174	60	231	64	62	64	68	162
26	171	130	155	165	174	60	214	62	62	64	64	563
27	165	130	155	175	174	66	207	66	62	62	64	270
28	150	130	160	174	168	60	150	66	62	62	62	245
29	118	120	156	175	174	54	110	66	62	417	62	153
30	115	110	150	175	---	56	110	66	62	198	64	95
31	110	---	145	165	---	58	---	66	---	115	64	---
TOTAL	2930	3305	4225	4844	8663	3478	3913	4563	1920	2482	2334	3322
MEAN	94.5	110	136	156	299	112	130	147	64.0	80.1	75.3	111
MAX	201	144	160	175	1600	266	331	320	68	417	376	563
MIN	54	80	105	135	147	54	44	62	62	60	54	58
AC-FT	5810	6560	8380	9610	17180	6900	7760	9050	3810	4920	4630	6590

CAL YR 1975 TOTAL 51703 MEAN 142 MAX 2380 MIN 44 AC-FT 102600
WTR YR 1976 TOTAL 45979 MEAN 126 MAX 1600 MIN 44 AC-FT 91200

Peak Discharge (base, 1,600 ft³/s)---Feb. 9 (2200) 5,180 ft³/s (9.87 ft).

NOTE.--No gage-height record Nov. 26 to Feb. 1.

VIRGIN RIVER BASIN

09415000 Virgin River at Littlefield, Ariz.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: July 1949 to current year.

Water temperatures: October 1947 to current year.

Sediment records: October 1947 to September 1968.

EXTREMES.--1975-76:

Specific conductance: Maximum daily, 3,950 micromhos July 30, Aug. 2; minimum daily, 1,510 micromhos Feb. 10.

Water temperature: Maximum daily, 31.0°C June 29, July 9, 15, 26, 28; minimum daily, 9.0°C Jan. 2.

Period of record:

Specific conductance: Maximum daily, 4,650 micromhos Aug. 21, 1966; minimum daily, 685 micromhos May 12, 1973.

Water temperature: Maximum daily, 33.5°C July 7, 1953; minimum daily, 2.0°C Jan. 4, 1949, Jan. 4, 1950, Jan 4, 5, 1971.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north bank is generally somewhat more dilute than average; monthly data collected during June 1975 to September 1976 indicate that specific conductance off north bank was 93 to 100 percent of stream-wide average (range of discharge, 60-230 ft³/s). This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975, as indicated by table of daily values, is due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geol. Survey office, Carson City, Nev.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
09...	1000	74	18	390	110	300	33	365	0	1200	420
NOV.											
13...	1230	85	18	300	100	260	33	342	0	950	400
DEC.											
11...	1530	120	19	390	110	260	28	350	--	950	340
JAN.											
14...	1700	164	17	260	77	260	25	348	0	730	350
FEB.											
13...	1400	230	15	300	76	200	23	321	0	680	290
MAR.											
10...	1300	123	17	260	76	240	24	308	0	730	330
APR.											
15...	1100	187	15	230	71	220	23	311	0	700	300
MAY											
11...	1230	177	14	220	69	210	21	298	0	630	280
JUNE											
17...	1400	66	20	390	120	270	32	302	--	1300	420
JULY											
14...	1215	63	20	380	130	270	30	300	0	1200	410
AUG.											
19...	1030	62	20	390	120	260	30	316	0	1200	390
SEP.											
15...	1300	60	18	380	120	280	32	307	0	1200	380

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED PHOS- PHOPUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCTANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)
OCT.										
09...	.22	.01	.02	2650	529	1400	3.5	3520	7.5	19.0
NOV.										
13...	--	--	--	2230	512	1200	3.3	3320	8.1	17.0
DEC.										
11...	--	--	--	2270	735	1400	3.0	3000	--	16.0
JAN.										
14...	.69	.02	.06	1890	837	970	3.6	2840	7.4	11.5
FEB.										
13...	--	--	--	1740	1080	1100	2.7	2510	7.8	15.5
MAR.										
10...	--	--	--	1830	608	960	3.4	2770	7.5	17.5
APR.										
15...	.43	.01	.05	1710	863	870	3.3	2510	7.3	16.0
MAY										
11...	--	--	--	1590	760	830	3.2	2360	7.9	24.0
JUNE										
17...	--	--	--	2700	481	1500	3.1	3410	--	30.5
JULY										
14...	.19	.00	.01	2590	441	1500	3.1	3450	7.3	29.5
AUG.										
19...	--	--	--	2570	430	1500	3.0	3430	8.4	22.5
SEP.										
15...	--	--	--	2560	415	1400	3.2	3440	7.7	26.5

09415000 Virgin River at Littlefield, Ariz.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3380	3290	2940	2880	2830	2540	3310	2500	3330	3350	3580	3320
2	3380	3320	2950	2800	2760	2370	3320	2510	3370	3340	3950	3380
3	3330	3280	2900	2920	2830	2170	3200	2440	3390	3430	3750	3300
4	3380	3280	2870	2920	2820	2590	3250	2310	3360	3370	3490	3430
5	3370	3280	2900	2800	2760	2650	---	2240	3380	3420	3400	3370
6	3330	3260	2390	2730	2550	2540	3350	2230	3360	3370	3420	3430
7	3380	3280	2570	2730	2370	2570	3220	2120	3280	3260	3330	3430
8	3380	3340	2440	2620	2430	2650	3240	2440	3340	3270	3430	3360
9	3390	3300	2070	2760	2830	2700	3200	2390	3340	3260	3330	3350
10	3430	3320	2690	2590	1510	2660	3350	2560	3340	3360	3330	3280
11	3550	3290	2760	2660	1950	2730	3330	2490	3280	3300	---	3360
12	3410	3210	2830	2620	2340	2790	3390	2450	3240	3310	3420	3620
13	3410	3130	1880	2620	2440	2890	3260	2330	3380	3360	3400	3850
14	3490	3230	1820	2690	2450	2850	3010	2370	3320	3260	3430	3400
15	3200	3230	1740	2620	2250	2970	2420	2340	3360	3390	3430	3500
16	3400	3240	2070	2800	2200	2830	2600	2490	3340	3290	3430	3430
17	3530	3190	2200	2690	2390	2970	2060	2440	3330	3310	3330	3360
18	3470	3160	1990	2660	2550	3040	2240	2590	3270	3360	3320	3400
19	3470	3170	2020	2690	2600	3020	2360	3030	3390	3130	3410	3400
20	3540	2920	2030	2660	2620	3230	2740	3040	3450	3360	3330	3400
21	3500	2980	1970	2760	2620	3330	2850	2750	3450	3360	3310	3400
22	3460	3000	2010	2840	2650	3240	2610	3230	3400	3370	3390	3400
23	3510	3150	2000	2660	2740	3330	2420	3230	3440	3370	3400	3380
24	3210	3100	2110	2690	2650	3300	2420	3340	3440	3260	3430	3400
25	3100	3100	2150	2730	2640	3140	2390	3320	3420	3260	3410	3450
26	3100	2950	2150	2690	2640	3310	2390	3290	3450	3400	3410	3310
27	3070	3000	2190	2760	2660	3330	2530	3390	3480	3310	3410	3260
28	3100	2920	2060	2660	2660	3370	2870	3360	3450	3340	3410	3030
29	3280	2850	2060	2660	2660	3420	3010	3400	3440	3460	3400	3390
30	3270	2830	2390	2690	---	3330	3050	3430	3480	3950	3410	3470
31	3380	---	2440	2760	---	3380	---	3390	---	3390	3410	---
MONTH	3360	3150	2310	2720	2530	2940	2880	2760	3380	3350	3430	3400
YEAR	MAX	3950	MIN	1510	MEAN	3020						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.5	20.5	11.0	10.0	16.0	15.5	21.0	25.0	28.0	27.0	27.0	28.5
2	26.5	20.0	13.5	9.0	16.0	13.0	25.0	24.5	25.5	28.0	27.0	29.5
3	26.0	19.0	13.5	11.5	16.0	14.5	24.0	22.0	25.5	28.5	26.0	29.0
4	25.5	20.5	14.5	11.5	15.5	---	23.0	24.0	26.0	28.5	27.5	29.5
5	26.0	20.0	15.0	12.0	16.0	15.0	---	22.0	27.5	28.0	28.0	25.0
6	23.0	20.5	14.0	12.0	12.5	15.0	26.0	20.5	28.0	29.0	25.0	28.5
7	21.5	20.0	14.5	12.0	14.5	16.5	25.0	19.5	26.0	30.0	26.5	28.5
8	23.5	20.0	15.0	11.5	14.5	17.0	20.0	24.0	24.0	30.5	26.0	29.0
9	24.5	19.0	15.5	12.5	13.0	19.0	23.0	26.0	25.5	31.0	---	25.0
10	25.0	17.5	14.5	12.5	12.5	17.0	24.5	26.0	24.0	29.5	25.0	24.0
11	22.0	17.5	16.0	13.0	13.0	17.5	22.0	25.5	25.5	28.5	28.0	24.5
12	20.0	15.5	15.5	12.5	15.5	17.0	21.0	25.5	28.0	29.0	27.5	25.0
13	24.0	15.5	14.0	12.5	16.5	19.0	19.5	26.0	26.0	30.0	25.0	25.5
14	23.0	17.0	10.5	13.0	16.0	19.0	19.5	26.5	26.0	30.0	25.0	26.0
15	22.5	17.0	10.0	13.0	15.5	19.0	15.5	27.0	28.0	31.0	24.5	26.0
16	23.0	16.5	11.5	15.0	13.0	19.0	13.0	25.5	26.5	27.0	26.5	25.5
17	23.5	15.0	12.0	15.5	16.0	20.5	17.0	25.5	29.0	25.0	26.5	26.5
18	23.0	15.0	11.5	16.0	16.0	20.0	16.5	25.0	26.0	28.5	25.0	26.0
19	22.5	16.5	12.0	14.5	14.0	20.0	21.0	26.0	26.0	30.0	29.0	26.0
20	23.0	14.5	13.0	14.0	15.0	20.0	23.0	26.0	25.0	30.0	29.0	24.5
21	24.0	13.0	13.5	14.0	14.0	23.0	24.5	24.5	26.0	30.0	29.5	25.0
22	22.5	14.5	12.5	13.0	16.0	24.0	24.0	26.0	25.5	30.5	27.5	23.5
23	18.5	15.5	14.0	14.0	16.0	24.0	24.0	24.5	28.0	29.5	29.0	23.5
24	16.0	15.5	13.5	15.0	17.0	25.0	24.0	25.5	28.5	30.0	27.5	26.0
25	16.5	15.0	13.5	13.5	---	21.0	19.0	26.0	28.5	30.0	27.0	25.0
26	17.5	12.5	14.0	13.0	18.0	22.0	19.0	29.0	28.5	31.0	28.5	21.0
27	17.0	16.0	14.5	14.0	18.0	20.5	21.0	26.0	29.0	30.5	29.0	23.0
28	19.0	12.5	12.5	15.0	19.0	21.5	22.0	25.5	30.5	31.0	29.0	22.0
29	20.0	10.5	12.5	16.0	16.5	20.0	25.5	24.0	31.0	28.0	29.0	22.5
30	20.0	11.0	13.0	16.0	---	24.0	23.0	25.0	27.0	26.5	30.5	26.0
31	20.0	---	11.5	15.5	---	25.0	---	25.0	---	30.0	29.0	---
MONTH	22.0	16.5	13.5	13.5	16.0	19.5	21.5	25.0	27.0	29.0	27.5	25.5
YEAR	MAX	31.0	MIN	9.0	MEAN	21.5						

VIRGIN RIVER BASIN

09415600 Pahrnagat Valley tributary near Hiko, Nev.

LOCATION.--Lat $37^{\circ}29'20''$, long $115^{\circ}20'10''$, in NE $\frac{1}{4}$ sec.27, T.5 S., R.59 E., Lincoln County, on left bank of left bank tributary on upstream side of culvert on State Highway 25, 10 mi (16 km) southwest of Hiko, and 47 mi (76 km) west of Caliente.

DRAINAGE AREA.--17 mi² (44 km²), approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 4,800 ft (1,463 m) from AMS map. Crest-stage gage only Oct. 1, 1963, to May 5, 1964, at same site and datum.

AVERAGE DISCHARGE.--13 years, 0.002 ft³/s (0.0001 m³/s), 1.4 acre-ft/yr (1,730 m³/yr).

EXTREMES.--Current year: No flow for entire year.

Period of record: Maximum discharge, 162 ft³/s (4.59 m³/s) June 22, 1972, gage height, 9.99 ft (3.045 m), from slope area measurement of peak flow; no flow most of the time.

REMARKS.--Records good. No flow exists in channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow made generally once a month.

VIRGIN RIVER BASIN

35

09416000 Muddy River near Moapa, Nev.

LOCATION.--Lat 36°42'40", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, on left bank 0.1 mi (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash.

DRAINAGE AREA.--3,820 mi² (9,890 km²), approximately, of which about 40 mi² (104 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1913 to September 1915, April 1916 to September 1918, June 1928 to October 1931, April to July 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for January 1904 to December 1906 (gage heights only), 1908-9 (discharge measurements only), and April to October 1910 not equivalent owing to large difference in drainage area.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 1,710 ft (521 m), from river-profile map. October 21, 1944 to September 30, 1948, water-stage recorder at datum 0.08 ft (0.024 m) higher.

AVERAGE DISCHARGE.--39 years (1913-15, 1916-18, 1928-31, 1944-76), 41.5 ft³/s (1.175 m³/s), 32,670 acre-ft/yr (40.3 hm³/yr), adjusted for flow which bypasses stream due to pump about 100 ft upstream which diverts water part of the time for power plant cooling.

EXTREMES.--Current year: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Sept. 12, gage height, 9.76 ft (2.975 m); minimum daily, 30 ft³/s (0.85 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 5,100 ft³/s (144 m³/s) Sept. 7, 1967, gage height, 12.35 ft (3.764 m); minimum, 27 ft³/s (0.76 m³/s) Nov. 26, 1967.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions for irrigation above station. Records include part-time diversion about 100 ft upstream, for cooling of power plant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi (1.4 to 4.0 km) upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

COOPERATION.--Records of flow bypassing the gage by pumping, furnished by Nevada Power Company.

REVISED RECORDS.--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

DISCHARGE IN CURIC FFT PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	39	38	39	42	45	39	37	37	34	40	34
2	35	38	38	41	42	47	39	39	38	35	40	34
3	32	39	39	41	44	46	41	38	38	33	40	33
4	30	37	39	42	44	43	39	37	38	33	39	34
5	30	39	44	41	43	42	40	37	37	37	38	34
6	34	38	43	41	48	42	44	38	38	39	38	35
7	35	37	43	41	46	43	43	39	38	39	37	35
8	37	37	43	43	50	45	40	38	38	39	38	33
9	38	37	39	43	114	46	39	37	38	40	38	32
10	38	37	41	42	53	44	41	38	40	40	37	34
11	38	36	41	42	51	42	44	38	40	40	37	51
12	39	37	39	42	50	41	44	39	41	39	37	400
13	41	37	43	42	48	42	47	38	36	35	38	73
14	40	37	42	42	48	44	48	38	36	35	38	69
15	41	38	42	42	47	45	45	37	35	35	37	56
16	38	38	42	41	46	45	46	38	38	35	37	36
17	37	37	41	39	47	43	48	38	36	34	37	35
18	40	37	41	42	48	40	45	37	38	34	38	34
19	41	39	41	44	45	40	42	38	37	33	38	34
20	41	39	40	38	43	40	44	39	37	33	38	35
21	42	38	39	38	44	40	45	41	37	34	38	34
22	40	38	38	38	45	43	43	41	37	33	38	34
23	38	38	40	41	46	45	40	42	36	32	38	36
24	41	38	43	41	46	44	37	41	36	33	38	36
25	38	38	41	40	45	43	37	37	37	35	37	36
26	39	38	40	42	45	41	38	37	37	39	37	62
27	41	39	40	41	46	41	38	37	35	40	36	78
28	41	41	39	41	45	42	42	37	34	39	36	75
29	42	41	39	41	46	44	39	37	33	38	37	48
30	39	38	39	41	---	42	37	37	33	40	37	40
31	39	---	39	42	---	39	---	37	---	41	37	---
TOTAL	1180	1140	1256	1274	1407	1329	1254	1182	1109	1126	1169	1640
MEAN	38.1	38.0	40.5	41.1	48.5	42.9	41.8	38.1	37.0	36.3	37.7	54.7
MAX	42	41	44	44	114	47	48	42	41	41	40	400
MIN	30	36	38	38	42	39	37	37	33	32	36	32
AC-FT	2340	2260	2490	2530	2790	2640	2490	2340	2200	2230	2320	3250

CAL YR 1975 TOTAL 14269 MEAN 39.1 MAX 56 MIN 30 AC-FT 28300
WTR YR 1976 TOTAL 15066 MEAN 41.2 MAX 400 MIN 30 AC-FT 29880

NOTE.--No gage-height record Dec. 7 to Jan. 19, Jan. 23 to Feb. 3.

VIRGIN RIVER BASIN

09418200 Mathews Canyon Wash near Caliente, Nev.

LOCATION.--Lat 37°29'55", long 114°13'20", in E½ sec.24, T.5 S., R.69 E., Lincoln County, on right bank at downstream end of stilling basin at outlet of conduit through flood-control dam, 2.5 mi (4.0 km) upstream from mouth, and 17 mi (27 km) southeast of Caliente.

DRAINAGE AREA.--34 mi² (88 km²), approximately (by Corps of Engineers, U.S. Army).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft (1,648.694 m) above mean sea level, datum of 1929 (levels by Corps of Engineers).

AVERAGE DISCHARGE.--18 years, 0.448 ft³/s (0.0127 m³/s), 325 acre-ft/yr (401,000 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 206 ft³/s (5.83 m³/s) Dec. 29, 1965, gage height, 11.85 ft (3.615 m) no flow most of the time.

REMARKS.--Records good. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Floods that occur in the drainage above station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft diameter uncontrolled conduit through dam. Flow over dam spillway will bypass station.

09418300 Pine Canyon Wash near Caliente, Nev.

LOCATION.--Lat 37°28'40", long 114°19'00", in sec.30, T.5 S., R.69 E., Lincoln County, on left bank 100 ft (30 m) downstream from outlet of flood-control dam, 4 mi (6 km) upstream from mouth, and 14 mi (23 km) southeast of Caliente.

DRAINAGE AREA.--45 mi² (117 km²), approximately (by Corps of Engineers, U.S. Army).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,595 ft (1,705.4 m) (by Corps of Engineers damsite topography).

AVERAGE DISCHARGE.--18 years, 1.09 ft³/s (0.0309 m³/s), 790 acre-ft/yr (97,400 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 238 ft³/s (6.74 m³/s) Dec. 7, 1966, gage height, 3.92 ft (1.195 m); no flow most of the time.

REMARKS.--Records good. There is no flow at this station except following heavy rainstorms or during periods of rapid snowmelt. Floods that occur in the drainage above the station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft diameter uncontrolled conduit through dam.

VIRGIN RIVER BASIN

37

09418500 Meadow Valley Wash near Caliente, Nev.

LOCATION.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35, T.4 S., R.66 E., Lincoln County, on right bank 0.5 mi (0.8 km) east of Etna, 4.5 mi (7.2 km) southwest of Caliente, and 6 mi (10 km) downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi² (4,325 km²).

PERIOD OF RECORD.--January 1951 to September 1960, November 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), by barometer. Prior to June 16, 1955, at site 1.8 mi (2.9 km) downstream at different datum.

AVERAGE DISCHARGE.--20 years (1951-60, 1965-76), 10.7 ft³/s (0.303 m³/s), 7,750 acre-ft/yr (9.56 hm³).

EXTREMES.--Current year: Maximum discharge, 324 ft³/s (9.18 m³/s) July 31, gage height, 5.12 ft (1.560 m); minimum 0.71 ft³/s (0.020 m³/s) July 14.

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) June 30, 1956, gage height, 8.0 ft (2.44 m), from floodmarks; no flow July 26-28, 1966.

REMARKS.--Records good. Several diversions for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.2	3.0	2.1	2.7	7.0	5.3	1.8	5.4	1.5	96	1.8
2	3.0	1.3	3.4	2.0	2.4	6.8	5.1	1.8	4.4	1.5	6.0	1.3
3	3.3	1.3	3.6	2.0	2.3	7.2	5.2	1.9	3.9	1.5	2.4	1.3
4	3.2	1.3	3.7	2.7	2.3	7.5	5.8	2.0	3.1	1.8	2.1	1.4
5	3.2	1.5	3.9	3.2	2.9	7.0	5.9	2.1	3.1	1.7	2.0	1.5
6	3.1	1.5	4.0	3.4	2.6	6.9	6.2	3.5	3.5	1.4	2.0	1.5
7	4.4	1.6	4.2	2.8	3.3	7.7	7.2	3.9	3.7	1.2	2.0	1.6
8	3.2	1.7	4.4	3.2	4.5	7.8	6.9	3.8	3.4	1.0	2.2	1.6
9	3.0	1.7	4.8	3.4	113	7.9	6.4	3.5	3.1	1.0	2.2	1.6
10	3.2	1.7	5.0	3.1	146	7.1	6.2	2.6	3.1	1.1	1.5	1.8
11	3.1	1.8	5.1	3.1	55	7.2	6.2	2.3	3.0	1.1	1.2	4.5
12	3.3	1.8	5.3	3.3	29	6.7	6.0	2.3	2.9	.90	1.1	1.5
13	3.8	1.8	5.5	3.3	18	6.4	6.9	2.6	2.7	.87	1.1	1.1
14	4.0	1.9	4.1	5.2	12	6.2	9.0	2.6	2.4	.87	1.1	1.1
15	4.1	2.0	3.0	5.0	9.0	5.6	11	2.2	2.3	1.0	1.2	1.1
16	4.2	2.0	3.3	5.4	7.4	6.0	14	2.1	2.2	1.0	1.2	1.1
17	4.0	2.2	3.8	6.5	6.6	6.5	14	2.0	2.2	1.5	1.1	1.1
18	4.0	2.2	3.8	7.3	6.6	6.8	15	2.0	2.2	2.0	1.2	1.6
19	3.5	2.1	3.8	7.2	7.0	5.8	11	2.2	2.2	2.2	1.5	2.1
20	2.7	2.2	4.4	6.1	6.2	5.5	7.7	2.5	2.1	2.0	1.5	2.3
21	.94	2.2	4.9	4.7	6.2	6.3	6.9	3.2	2.2	2.0	1.6	2.5
22	1.0	2.2	3.9	4.0	6.2	6.4	5.7	3.3	2.2	1.9	1.5	2.6
23	1.1	2.4	3.9	3.7	7.0	6.4	4.5	3.0	2.1	1.7	1.5	2.8
24	1.1	2.7	3.6	3.2	7.4	6.3	2.7	3.1	2.1	1.5	2.0	72
25	1.2	2.9	3.9	2.7	5.8	5.9	2.3	3.3	2.0	1.8	2.4	4.8
26	1.2	3.1	4.2	2.4	6.3	5.6	2.9	3.0	1.8	1.5	2.4	111
27	1.3	3.4	4.7	2.3	8.8	5.7	3.5	3.4	1.7	1.4	2.3	6.6
28	1.5	3.6	4.1	2.7	6.9	5.9	2.9	3.8	1.9	1.5	2.4	2.0
29	1.4	3.3	3.7	3.0	7.4	5.7	2.4	3.7	1.8	1.5	2.4	2.4
30	1.3	2.9	4.0	3.0	---	5.5	1.7	3.9	1.5	1.7	2.4	2.8
31	1.2	---	2.9	2.8	---	5.3	---	5.5	---	98	2.4	---
TOTAL	82.34	63.5	125.9	114.8	500.8	200.6	196.5	88.9	80.2	141.64	153.9	242.4
MEAN	2.66	2.12	4.06	3.70	17.3	6.47	6.55	2.87	2.67	4.57	4.96	8.08
MAX	4.4	3.6	5.5	7.3	146	7.9	15	5.5	5.4	98	96	111
MIN	.94	1.2	2.9	2.0	2.3	5.3	1.7	1.8	1.5	.87	1.1	1.1
AC-FT	163	126	250	228	993	398	390	176	159	281	305	481

CAL YR 1975 TOTAL 1901.95 MEAN 5.21 MAX 172 MTN .94 AC-FT 3770
WTR YR 1976 TOTAL 1991.48 MEAN 5.44 MAX 146 MTN .87 AC-FT 3950

Peak discharge (base, 300 ft³/s).--July 31 (2200) 324 ft³/s (5.12 ft).

09419000 Muddy River near Glendale, Nev.

LOCATION.--Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 S., R.67 E., Clark County, on left bank at the Narrows, 150 ft (50 m) downstream from Weiser Wash, 2 mi (3 km) southeast of Glendale, 2.4 mi (3.9 km) downstream from Meadow Valley Wash, and 4.5 mi (7.2 km) northwest of Logandale.

DRAINAGE AREA.--6,780 mi² (17,600 km²), approximately, of which about 3,000 mi² (7,800 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--January 1904 to December 1906 (gage heights only) and April to October 1910 (published as "near Moapa"), July 1913 to February 1914 (published as "near Logan"), February 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,460 ft (445 m), from river-profile map. Jan. 1, 1904, to Dec. 31, 1906, non-recording gage just upstream at different datum. Apr. 22, 1910, to Feb. 21, 1914, nonrecording gage and rating flume at lower end of the Narrows, 1.2 mi (1.9 km) downstream at different datum.

AVERAGE DISCHARGE.--26 years (1950-76), 45.4 ft³/s (1.286 m³/s), 32,890 acre-ft/yr (40.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 282 ft³/s (7.99 m³/s) July 31, gage height, 6.29 ft (1.917 m); minimum, 28 ft³/s (0.793 m³/s) June 30, July 22-24.

Period of record: Maximum discharge, 7,380 ft³/s (209 m³/s) Nov. 6, 1960, gage height, 20.36 ft (6.206 m) from rating curve extended above 460 ft³/s (13.0 m³/s) on basis of slope-area measurements at gage heights, 8.42 and 20.36 ft (2.566 and 6.206 m) and logarithmic plotting; minimum, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964, result of temporary storage upstream.

Maximum stage known, 30 ft (9.1 m) Mar. 26, 1906 (datum then in use), discharge not determined.

REMARKS.--Records fair. Diversions for irrigation above station.

REVISED RECORDS.--WSP 1243: 1906 (M). WSP 1733: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	37	41	40	44	45	37	38	38	32	41	35
2	38	37	39	41	44	44	35	39	39	33	35	36
3	38	36	40	42	45	46	39	40	39	35	37	36
4	33	36	41	44	46	46	37	39	39	32	35	33
5	34	37	44	44	48	42	37	40	36	34	35	32
6	36	37	45	44	50	43	41	40	36	36	35	33
7	38	38	45	44	61	44	42	40	37	34	33	34
8	39	38	46	46	55	44	41	39	36	37	32	34
9	35	39	44	44	115	44	38	39	36	37	33	33
10	36	39	46	43	129	42	39	38	36	33	34	36
11	40	37	46	44	93	41	42	37	35	32	35	45
12	41	38	44	44	95	41	43	36	36	33	35	109
13	44	38	45	44	71	41	44	37	36	31	36	151
14	43	38	46	43	64	43	51	36	33	31	33	82
15	41	40	46	43	60	45	49	39	32	31	33	75
16	41	39	47	43	59	44	46	40	44	31	33	50
17	37	38	47	42	55	44	47	39	40	30	32	42
18	35	37	46	46	57	40	45	35	35	34	32	39
19	40	37	47	46	55	39	42	37	35	33	32	38
20	40	39	46	41	52	38	41	37	34	31	33	37
21	41	38	46	40	52	40	42	37	34	33	33	34
22	40	39	44	40	52	42	41	39	34	31	34	34
23	35	41	46	41	50	45	39	41	40	30	33	37
24	37	39	44	42	47	43	36	41	34	29	31	34
25	37	38	42	42	45	41	37	38	32	31	32	47
26	36	37	43	44	45	39	38	37	34	30	32	68
27	40	41	43	42	45	40	39	37	34	36	31	78
28	41	42	42	43	47	39	40	38	30	35	33	80
29	41	46	41	44	48	41	40	38	31	34	32	67
30	36	44	40	44	---	41	39	39	30	35	31	40
31	36	---	40	45	---	37	---	39	---	103	35	---
TOTAL	1187	1160	1362	1335	1729	1304	1227	1189	1065	1087	1041	1529
MEAN	38.3	38.7	43.9	43.1	59.6	42.1	40.9	38.4	35.5	35.1	33.6	51.0
MAX	44	46	47	46	129	46	51	41	44	103	41	151
MIN	33	36	39	40	44	37	35	35	30	29	31	32
AC-FT	2350	2300	2700	2650	3430	2590	2430	2360	2110	2160	2060	3030
CAL YR 1975	TOTAL	14445	MEAN 39.6	MAX 236	MIN 28	AC-FT 28650						
WTR YR 1976	TOTAL	15215	MEAN 41.6	MAX 151	MIN 29	AC-FT 30180						

PEAK DISCHARGE (BASE, 210 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-10	0145	6.11	278	9-13	0130	6.23	280
7-31	1515	6.29	282				

LAS VEGAS WASH BASIN

39

09419610 Lee Canyon near Charleston Park, Nev.

LOCATION.--Lat 36°20'25", long 115°39'00", in NE¼ sec.35, T.18 S., R.56 E., Clark County, on right bank 50 ft (15 m) above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi (8.8 km) north of Charleston Park.

DRAINAGE AREA.--9.20 mi² (23.83 km²).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 7,820 ft (2,384 m) from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum. Prior to May 16, 1973, on right bank at datum 0.14 ft (0.043 m) higher.

AVERAGE DISCHARGE.--13 years, 0.038 ft³/s (0.0011 m³/s), 28 acre-ft/yr (34,500 m³/yr).

EXTREMES.--Current year: Maximum discharge, 127 ft³/s (3.60 m³/s) Sept. 10, gage height, 1.10 ft (0.335 m); no flow most of the year.
Period of record: Maximum discharge, 880 ft³/s (24.9 m³/s) July 28, 1969, gage height, 3.60 ft, (1.097 m) on basis of slope-area measurement of peak flow; no flow most of the time.

REMARKS.--No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow are generally made once a month.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0		0
2										0		0
3										0		0
4										0		0
5										0		0
6										0		0
7										0		0
8										0		0
9										0		0
10										0		5.3
11										0		0
12										0		0
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										0		0
27										0		0
28										0		0
29										1.2		0
30										1.8		.30
31		---			---		---		---	0		---
TOTAL	0	0	0	0	0	0	0	0	0	3.0	0	5.60
MEAN	0	0	0	0	0	0	0	0	0	.097	0	.19
MAX	0	0	0	0	0	0	0	0	0	1.8	0	5.3
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	6.0	0	11
CAL YR 1975	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0							
WTR YR 1976	TOTAL 8.60	MEAN .024	MAX 5.3	MIN 0	AC-FT 17							

LAS VEGAS VALLEY

09419650 Las Vegas Wash at North Las Vegas, Nev.

LOCATION.--Lat 36°12'40", long 115°06'20", in SW 1/4 sec.13, T.20 S., R.61 E., Clark County, on right bank 100 ft (30 m) upstream from U.S. Highway 91 and 3.5 mi (5.6 km) northeast of Fremont Street, Las Vegas.

DRAINAGE AREA.--1,300 mi² (3,370 km²), approximately, of which about 700 mi² (1,810 km²) contributes directly to surface runoff.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 0.63 ft³/s (0.018 m³/s), 456 acre-ft/yr (562,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 894 ft³/s (25.3 m³/s) July 26, gage height, 3.26 ft (0.994 m); no flow most of the year.
Period of record: Maximum discharge, 12,010 ft³/s (340 m³/s) July 3, 1975, gage height, 9.64 ft (2.938 m), from slope-area measurement of peak flow; no flow most of the time.

REMARKS.--Records of flow are fair. No diversion for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0		0	0	0	0	.02	0		0
2			0		0	0	0	0	0	0		0
3			0		0	0	0	0	0	0		0
4			0		0	.07	0	0	0	0		0
5			0		.16	.09	0	0	0	0		0
6			0		14	0	0	0	0	0		0
7			0		6.2	0	0	3.7	0	0		0
8			0		2.2	0	0	.70	0	0		0
9			0		274	0	0	.19	0	0		0
10			0		7.8	0	0	.12	0	0		24
11			0		0	0	0	.05	0	0		5.0
12			0		0	0	0	.01	0	0		.01
13			.22		0	0	0	0	0	0		0
14			.52		0	0	.32	0	0	0		0
15			.38		0	0	.10	0	0	0		0
16			.47		0	0	.02	0	0	0		0
17			.38		0	0	0	0	0	0		0
18			.12		0	0	0	0	0	0		0
19			.22		0	0	0	0	0	0		0
20			.12		0	0	0	0	0	0		0
21			.18		0	0	0	0	0	0		0
22			.12		0	0	0	0	0	0		0
23			.06		0	0	0	0	0	0		0
24			0		0	0	0	0	0	0		0
25			0		0	0	0	0	0	3.3		46
26			0		0	0	0	0	0	59		28
27			0		0	0	0	0	0	.03		.03
28			0		0	0	0	.09	0	0		0
29			0		0	0	0	.20	0	0		0
30			0		---	0	0	.12	0	0		0
31		---	0		---	0	---	.07	---	0		---
TOTAL	0	0	2.79	0	304.36	.16	.44	5.25	.02	62.33	0	103.04
MEAN	0	0	.090	0	10.5	.005	.015	.17	.0007	2.01	0	3.43
MAX	0	0	.52	0	274	.09	.32	3.7	.02	59	0	46
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	5.5	0	604	.3	.9	10	.04	124	0	204
CAL YR 1975	TOTAL	1635.32	MEAN 4.48	MAX 1400	MIN 0	AC-FT 3240						
WTR YR 1976	TOTAL	478.39	MEAN 1.31	MAX 274	MIN 0	AC-FT 949						

LAS VEGAS VALLEY

41

09419677 Flamingo Wash at Maryland Parkway, at Las Vegas, Nev.

LOCATION.--Lat 36°07'05", long 115°08'15", in SE¼SE¼ sec.15, T.21 S., R.61 E., Clark County, on right bank 90 ft (27 m) upstream from two 10 by 12 ft-box culverts under Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.

DRAINAGE AREA.--106 mi² 275 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 1,976.6 ft (602.47 m), from Clark County Engineering bench mark.

AVERAGE DISCHARGE.--7 years, 0.368 ft³/s (0.0104 m³/s), 266 acre-ft/yr (328,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 880 ft³/s (24.9 m³/s) Feb 9, gage height, 3.78 ft (1.15 m); no flow most of the year. Period of record: Maximum discharge, 2,750 ft³/s (77.9 m³/s) July 3, 1975, gage height, 11.37 ft (3.466 m), from indirect measurement of peak flow; no flow most of the time.

Flood of Sept. 12, 1969, reached a stage of 7.55 ft (2.301 m), from floodmarks, discharge, 1,500 ft³/s (42.5 m³/s) from computation of peak flow through culverts.

REMARKS.--Records poor. There is no flow at this station except following heavy rainstorms.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0			0		0		0
2					0			0		0		0
3					0			0		0		0
4					0			0		0		0
5					0			0		0		0
6					6.2			0		0		0
7					0			5.2		0		0
8					0			0		0		0
9					168			0		0		0
10					8.7			0		0		55
11					0			0		0		17
12					0			0		0		0
13					0			0		0		0
14					0			0		0		0
15					0			0		0		0
16					0			0		0		0
17					0			0		0		0
18					0			0		0		0
19					0			0		0		0
20					0			0		0		0
21					0			0		0		0
22					0			0		0		0
23					0			0		0		2.5
24					0			0		0		2.6
25					0			0		0		1.4
26					0			0		36		2.4
27					0			0		0		0
28					0			0		0		0
29					0			0		3.6		0
30					---			0		0		0
31		---			---		---	0	---	0		---
TOTAL	0	0	0	0	182.9	0	0	5.2	0	39.6	0	80.9
MEAN	0	0	0	0	6.31	0	0	.17	0	1.28	0	2.70
MAX	0	0	0	0	168	0	0	5.2	0	36	0	55
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	363	0	0	10	0	79	0	160

CAL YR 1975 TOTAL 428.35 MEAN 1.17 MAX 349 MIN 0 AC-FT 850
WTR YR 1976 TOTAL 308.60 MEAN .84 MAX 168 MIN 0 AC-FT 612

NOTE.--No gage-height record during flow in February.

LOCATION.--Lat 36°05'20", long 114°59'05", in SE¼ sec.30, T.21 S., R.63 E., Clark County, on right bank at upstream end of 4.5 ft (1.37 m) pipe culvert on road, 3.5 mi (5.6 km) north of Henderson, and 6.0 mi (9.7 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m) above mean sea level.

WATER-DISCHARGE RECORDS

Period of record: Maximum discharge, 6,510 ft³/s (184 m³/s) July 4, 1975, gage height, 10.67 ft (3.252 m), from flood marks, from rating curve extended above 3,340 ft³/s (94.6 m³/s) on basis of area-velocity computation to determine peak flow; minimum daily, 4.8 ft³/s (0.14 m³/s) Aug. 17, 1960.

REVISÉD RECORDS.--WSP 1926: Drainage area.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	59	66	70	64	64	61	58	61	50	59	56
2	47	54	67	68	69	56	59	55	56	55	56	55
3	48	60	67	68	60	60	60	58	56	54	59	54
4	48	62	67	68	63	63	57	56	54	52	57	52
5	53	66	67	70	63	59	60	54	56	53	57	53
6	53	63	64	69	89	59	60	58	55	54	57	55
7	59	63	64	67	232	55	65	103	54	48	55	58
8	61	64	67	61	144	56	59	138	52	50	53	58
9	60	63	69	60	586	56	61	71	53	45	54	60
10	61	66	67	59	301	59	66	72	55	44	57	72
11	61	68	65	64	88	56	65	72	59	48	57	174
12	59	68	64	67	78	55	67	66	59	51	54	106
13	60	68	65	65	75	57	64	66	58	51	53	70
14	65	65	65	66	74	59	71	63	53	51	49	69
15	66	66	65	65	74	60	69	55	56	52	49	62
16	64	66	63	64	67	62	68	62	59	54	54	62
17	64	59	65	63	63	61	68	66	56	54	52	63
18	64	59	66	64	69	59	70	63	59	53	50	63
19	65	59	65	64	73	60	66	61	57	51	49	65
20	62	60	62	59	69	60	65	52	55	46	48	65
21	62	60	65	61	66	59	60	50	53	44	49	59
22	64	61	66	63	67	60	60	51	55	47	52	55
23	61	61	64	63	70	59	57	49	59	47	55	54
24	62	67	64	56	72	61	58	53	57	47	52	53
25	63	72	64	66	68	58	60	58	57	60	53	50
26	61	64	63	66	67	58	57	55	52	80	54	68
27	63	66	69	65	70	65	61	59	47	100	55	70
28	62	64	68	66	68	68	58	60	48	65	53	53
29	64	66	68	65	63	62	60	60	48	66	54	56
30	63	66	70	64	---	56	61	60	47	88	58	56
31	60	---	69	63	---	61	---	57	---	63	58	---
TOTAL	1854	1905	2040	1999	3012	1843	1873	1961	1646	1723	1672	1949
MEAN	59.8	63.5	65.8	64.5	104	59.5	62.4	63.3	54.9	55.6	53.9	65.0
MAX	66	72	70	70	586	68	71	138	61	100	59	174
MIN	47	54	62	56	60	55	57	49	47	44	48	50
AC-FT	3680	3780	4050	3970	5970	3660	3720	3890	3260	3420	3320	3870
CAL YP 1975	TOTAL	22883	MEAN 62.7	MAX	1430	MIN 42	AC-FT	45390				
WTP YP 1976	TOTAL	23477	MEAN 64.1	MAX	586	MIN 44	AC-FT	46570				

09419700 Las Vegas Wash near Henderson, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (data for period Jan. 1964 to Sept. 1968 are available from U.S. Environmental Protection Agency).

Water temperatures: February 1957 to current year (data prior to Oct. 1968 and between Aug. 1969 and July 1970, which were collected monthly or less frequently, are unpublished).

EXTREMES.--1975-76:

Specific conductance: Maximum, 3,270 micromhos Mar. 15; minimum, 2,260 micromhos Feb. 10.

Water temperature: Maximum, 20.5°C Sept. 13; minimum, 6.5°C Dec. 15.

Period of record (1968 to current year):

Specific conductance: Maximum, 5,330 micromhos June 25, 1969; minimum, 2,180 micromhos Feb. 2, 1971.

Water temperature: Maximum, 25.0°C July 23, 1971; minimum, 2.0°C Jan. 31, 1972.

REMARKS.--Discharge includes sewage effluent and some waste water from industrial plants. Extremes are based on monthly data.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIOP) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO3) (MG/L)
OCT.								
14...	0900	70	28	150	67	250	21	276
NOV.								
10...	1300	55	--	--	--	--	--	--
DEC.								
15...	1230	54	--	--	--	--	--	--
JAN.								
12...	1200	69	26	170	73	290	23	294
26...	1030	60	--	--	--	--	--	--
FEB.								
10...	1130	220	--	--	--	--	--	--
23...	1115	71	--	--	--	--	--	--
MAR.								
15...	1000	60	--	--	--	--	--	--
APR.								
12...	1315	60	28	190	72	310	24	291
MAY								
10...	1100	74	--	--	--	--	--	--
JUNE								
14...	1015	66	--	--	--	--	--	--
JULY								
12...	1115	55	37	210	82	320	24	295
AUG.								
16...	1030	61	--	--	--	--	--	--
SEP.								
13...	1045	77	--	--	--	--	--	--

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT.									
14...	0	560	300	1.4	.67	14	4	20	6.3
NOV.									
10...	--	--	--	1.5	.40	15	--	--	6.1
DEC.									
15...	--	--	--	1.9	.29	12	--	--	7.1
JAN.									
12...	0	640	340	--	--	--	--	--	6.3
26...	--	--	--	1.5	.23	15	--	--	6.0
FEB.									
10...	--	--	--	1.5	.23	3.0	--	--	1.2
23...	--	--	--	2.7	.31	9.3	--	--	4.8
MAR.									
15...	--	--	--	4.0	.33	3.5	--	--	5.0
APR.									
12...	0	740	340	3.4	.39	7.0	5	16	5.9
MAY									
10...	--	--	--	1.9	.25	9.2	--	--	5.2
JUNE									
14...	--	--	--	1.6	.27	7.7	--	--	5.5
JULY									
12...	--	750	380	1.2	.30	2.0	8	12	5.3
AUG.									
16...	--	--	--	2.1	.49	8.6	--	--	4.9
SEP.									
13...	--	--	--	.70	.22	11	--	--	4.5

LAS VEGAS VALLEY

09419700 Las Vegas Wash near Henderson, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIST- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIST- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIST- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)
OCT. 14...	6.2	1510	285	650	4.3	2460	7.3	14.5
NOV. 10...	--	--	--	--	--	2830	--	12.0
DEC. 15...	--	--	--	--	--	2670	--	6.5
JAN. 12...	6.2	1710	319	730	4.7	2630	7.4	7.5
26...	--	--	--	--	--	2850	--	8.0
FEB. 10...	--	--	--	--	--	2260	--	12.5
23...	--	--	--	--	--	3130	--	10.0
MAR. 15...	--	--	--	--	--	3270	--	10.5
APR. 12...	5.8	1850	300	770	4.9	2930	7.4	15.5
MAY 10...	--	--	--	--	--	2860	--	19.5
JUNE 14...	--	--	--	--	--	2740	--	17.5
JULY 12...	5.4	1950	290	860	4.7	2840	--	24.0
AUG. 16...	--	--	--	--	--	2700	--	19.0
SEP. 13...	--	--	--	--	--	2690	--	20.5

LAS VEGAS VALLEY

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09419800 Las Vegas Wash near Boulder City, Nev.

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, on left bank near mouth, on upstream side of lake shore highway, about 0.8 mi (1.3 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m) above mean sea level, and 11 mi (18 km) north-northwest of Boulder City.

DRAINAGE AREA.--2,193 mi² (5,680 km²), of which 1,586 mi² (4,108 km²) contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (2.97 m³/s) Feb. 10, gage height, 7.75 ft (2.362 m); minimum daily, 49 ft³/s (1.39 m³/s) June 28, July 10.

Period of record: Maximum discharge, 2,430 ft³/s (68.8 m³/s) July 4, 1975, gage height, 12.32 ft (3.76 m), from indirect measurement of peak flow; minimum, 14 ft³/s (0.40 m³/s) July 7, 8, 1971.

Flood of June 26, 1964, reached a stage of 7.5 ft (2.29 m) from floodmarks, discharge, 1,050 ft³/s (29.7 m³/s) from indirect measurement of peak flow, and another flood between 1964 and 1969 reached a stage of about 10 ft (3.05 m), from floodmarks, discharge, about 1,700 ft³/s (48.1 m³/s) from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of theoretical weir and culvert formulas.

REMARKS.--Records good. In closed basin above station, 2,150 acres (8.70 km²) are irrigated, mostly by pumping from ground water. Discharge includes sewage effluent.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	78	80	88	82	84	73	73	64	52	76	78
2	60	82	82	84	80	71	73	73	62	57	62	74
3	60	78	82	84	86	71	74	67	62	65	64	76
4	60	71	82	84	82	78	71	73	63	58	64	80
5	65	71	82	84	76	78	75	73	63	55	62	73
6	67	74	78	86	96	76	75	69	64	62	67	82
7	69	78	78	86	281	74	81	96	65	60	65	82
8	78	78	82	82	276	67	74	167	66	57	60	86
9	82	76	82	74	226	67	77	113	57	55	60	90
10	76	74	84	76	622	71	83	98	62	49	69	96
11	82	74	82	76	184	69	82	98	65	52	73	308
12	82	74	78	82	100	64	84	94	69	54	71	241
13	80	80	78	84	100	65	81	84	69	58	67	116
14	84	80	80	84	96	73	85	82	60	55	65	109
15	86	78	76	86	92	71	88	73	60	57	64	116
16	86	82	76	86	88	73	90	73	69	62	62	100
17	86	80	78	84	84	74	90	76	65	69	65	90
18	84	80	82	82	94	74	88	80	67	65	62	86
19	84	76	82	82	102	71	86	76	69	60	64	88
20	80	74	82	80	96	69	82	70	64	58	60	90
21	78	73	78	76	96	71	80	72	55	52	62	84
22	82	74	78	80	98	69	74	63	55	52	60	80
23	76	74	82	84	105	71	71	58	62	57	64	74
24	76	82	80	76	107	73	67	60	67	57	67	80
25	80	88	80	78	102	71	69	62	65	64	67	73
26	78	78	74	84	98	65	67	64	64	82	67	74
27	76	80	82	84	102	73	73	64	55	132	69	107
28	78	78	84	84	102	88	73	68	49	115	74	84
29	80	80	82	84	100	84	73	69	55	100	71	74
30	84	80	88	84	---	71	73	73	54	94	71	78
31	80	---	88	82	---	69	---	71	---	98	84	---
TOTAL	2381	2325	2502	2550	3853	2245	2332	2432	1866	2063	2058	2969
MEAN	76.8	77.5	80.7	82.3	133	72.4	77.7	78.5	62.2	66.5	66.4	99.0
MAX	86	88	88	88	622	88	90	167	69	132	84	308
MIN	60	71	74	74	76	64	67	58	49	49	60	73
AC-FT	4720	4610	4960	5060	7640	4450	4630	4820	3700	4090	4080	5890
CAL YR 1975	TOTAL	27948	MEAN 76.6	MAX 784	MIN 37	AC-FT 55430						
WTR YR 1976	TOTAL	29576	MEAN 80.8	MAX 622	MIN 49	AC-FT 58660						

WATER-QUALITY RECORDS

Sediment records: January 1974 to current year.

Specific conductance: Maximum, 4,570 micromhos July 12; minimum, 3,650 micromhos Feb. 10.
Water temperature: Maximum, 25.0°C July 27; minimum, 6.0°C Jan. 12, 26.

Specific conductance: Maximum, 6,850 micromhos June 25, 1969; minimum, 3,650 micromhos Feb. 10, 1976. Water temperature: Maximum, 26.0°C July 23, 1969, and June 3, 1970; minimum, 3.0°C Jan. 7, 1970.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

09419800 Las Vegas Wash near Boulder City, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARRON (C) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
OCT.											
14...	7.7	.01	.46	.44	9.0	4.0	3.9	10	7700	3110	2810
NOV.											
10...	10	.64	.43	2.7	14	4.9	--	13	9400	--	--
24...	11	.40	.62	2.2	14	3.8	--	13	7700	2950	--
DEC.											
15...	11	.31	1.8	1.7	15	4.7	--	13	3000	--	--
29...	11	.46	2.3	1.7	15	4.9	--	8.3	8300	2760	--
JAN.											
12...	11	.31	2.8	1.0	15	4.5	4.3	10	2000	2890	2820
26...	12	.23	2.8	1.5	16	4.5	--	7.5	2800	2980	--
FEB.											
10...	4.1	.09	.33	9.5	14	8.9	--	100	130000	--	--
23...	9.8	.17	.48	2.2	13	3.5	--	22	5600	3320	--
MAR.											
15...	9.9	.02	.08	.61	11	3.0	--	7.5	3300	--	--
29...	9.3	.01	.00	1.5	11	3.8	--	8.2	6600	3250	--
APR.											
12...	7.9	.02	.04	1.3	9.2	4.4	3.9	8.0	7700	3180	2950
22...	7.8	.05	.02	1.2	9.0	4.0	--	8.5	4800	3360	--
MAY											
10...	5.0	.04	.01	1.7	6.7	4.0	--	16	14000	--	--
25...	5.2	.01	.00	.84	6.0	3.2	--	8.1	6500	3560	--
JUNE											
14...	4.6	.00	.05	.65	5.3	3.3	--	7.6	5800	--	--
28...	4.0	.01	.07	.57	4.6	2.6	--	7.6	2000	3490	--
JULY											
12...	5.0	.02	.09	.66	5.8	2.6	2.8	4.4	2600	3660	3340
27...	2.7	.12	2.7	5.9	11	9.3	--	13	120000	--	--
AUG.											
16...	4.3	.01	.07	.91	5.3	2.8	--	3.8	2000	3400	--
30...	3.8	.01	.11	1.3	5.2	3.1	--	--	7300	--	--
SEP.											
13...	4.0	.17	.66	1.6	6.5	3.4	--	13	20000	3670	--
27...	5.4	.06	.20	1.2	6.9	3.7	--	9.6	19000	--	--

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	CHFM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
14...	655	420	1300	5.2	4000	8.1	13.5	65	10.6	37
NOV.										
10...	--	430	--	--	4170	--	12.0	55	--	29
24...	664	252	--	--	4010	--	9.0	55	--	26
DEC.										
15...	--	210	--	--	4050	--	6.5	55	--	24
29...	567	234	--	--	3840	--	11.0	100	--	29
JAN.										
12...	624	146	1300	4.8	3950	7.4	6.0	50	11.0	40
26...	612	112	--	--	4040	--	6.0	45	--	24
FEB.										
10...	--	15500	--	--	3650	--	12.5	1900	--	340
23...	915	310	--	--	4310	--	9.0	80	--	31
MAR.										
15...	--	297	--	--	4510	--	10.5	24	--	32
29...	667	279	--	--	4260	--	12.0	84	--	38
APR.										
12...	721	377	1400	5.0	4260	8.0	15.5	140	10.0	41
22...	541	280	--	--	4410	--	16.0	43	--	33
MAY										
10...	--	710	--	--	4300	--	17.5	200	--	49
25...	471	267	--	--	4470	--	17.5	65	--	7
JUNE										
14...	--	296	--	--	4310	--	18.5	70	--	59
28...	443	83	--	--	4540	--	20.0	9	--	--
JULY										
12...	425	135	1600	5.0	4570	--	22.0	20	9.0	38
27...	--	6220	--	--	4470	--	25.0	200	--	50
AUG.										
16...	422	193	--	--	4260	--	19.0	40	--	20
30...	--	554	--	--	4110	--	23.5	95	--	32
SEP.										
13...	1430	824	--	--	4350	--	22.0	300	--	36
27...	--	676	--	--	4130	--	20.0	100	--	26

LAS VEGAS VALLEY

09419800 Las Vegas Wash near Boulder City, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.						
14...	1015	42	0	20	30	30
NOV.						
24...	1200	37	100	10	40	30
DEC.						
29...	1000	40	100	10	30	30
JAN.						
12...	1000	30	0	10	10	10
26...	0915	31	0	<10	10	10
FEB.						
23...	1015	38	100	<10	20	20
MAR.						
29...	1000	53	0	20	10	20
APR.						
12...	1115	48	0	<10	20	30
22...	1000	38	0	<10	30	30
MAY						
25...	0930	55	0	0	50	10
JUNE						
28...	1000	40	0	0	20	10
JULY						
12...	1000	44	0	0	30	10
AUG.						
16...	1130	47	100	0	40	<10
SEP.						
13...	1045	120	500	0	50	30

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.						
14...	200	400	.0	2	20	30
NOV.						
24...	100	390	.1	2	10	90
DEC.						
29...	<100	410	.0	2	20	50
JAN.						
12...	<100	170	.1	3	<10	20
26...	<100	340	.1	2	10	20
FEB.						
23...	100	540	.1	2	20	40
MAR.						
29...	200	460	.1	3	10	50
APR.						
12...	<100	410	.1	3	10	70
22...	<100	320	.1	2	10	60
MAY						
25...	<100	310	15	1	0	30
JUNE						
28...	<100	210	1.0	0	0	20
JULY						
12...	<100	160	.7	0	<10	20
AUG.						
16...	<100	170	.5	1	0	100
SEP.						
13...	100	1100	.5	4	<10	110

LAS VEGAS VALLEY

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09419800 Las Vegas Wash near Boulder City, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIBAZINON (UG/L)	TOTAL DIFLORIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)
OCT. 16...	0945	.00	.0	.00	.00	.00	.03	.00	.00	.00	.00	.00
JAN. 12...	1000	.00	.0	.00	.00	.00	.04	.00	.00	.00	.00	.00
MAY 06...	1415	.00	.0	.00	.00	.00	.11	.00	.00	.00	.00	.00
JULY 27...	1100	.00	.0	.03	.02	.00	.03	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TPI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POLY-CHLORINATED NAPHTHALENES (UG/L)
OCT. 16...	.03	.00	.00	.00	.00	.0	0	.00	.04	.00	.00	--
JAN. 12...	.05	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	--
MAY 06...	.05	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00
JULY 27...	.04	.00	.00	.00	.00	.0	0	.00	.07	.00	.00	.00

DATE/	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT. 14...	1015	78	567	119	--	--	--	--
NOV. 24...	1200	84	729	165	13	16	23	32
JAN. 12...	1030	78	784	165	--	--	--	--
FEB. 10...	1030	616	17300	28800	20	29	41	56
MAR. 23...	1030	98	1300	344	--	--	--	--
APR. 15...	1100	71	444	85	--	--	--	--
APR. 22...	1015	67	708	128	--	--	--	--

DATE/	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT. 14...	--	--	--	--	--	--	--	--
NOV. 24...	43	--	57	74	85	91	97	100
JAN. 12...	--	31	--	--	--	--	--	--
FEB. 10...	73	--	88	98	100	--	--	--
MAR. 23...	--	29	--	--	--	--	--	--
APR. 15...	--	52	--	--	--	--	--	--
APR. 22...	--	62	--	--	--	--	--	--

1. Sediment samples collected after April 22, 1976, were not processed in time for results to be included in this report. Data are available from U.S. Geological Survey office, Carson City, Nev.

09419800 Las Vegas Wash near Boulder City, Nev.--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4600	4470	4530	---	---	---	4030	3780	3970	3940	3720	3830
2	4640	4460	4560	---	---	---	4020	3830	3930	4000	3720	3870
3	4690	4550	4610	---	---	---	4010	3840	3940	3910	3700	3780
4	4710	4550	4620	---	---	---	4100	3870	3970	3860	3670	3750
5	4710	4520	4590	4300	4120	4200	4050	3880	3970	3890	3680	3770
6	4590	4420	4510	4250	4020	4140	4080	3910	3990	3860	3610	3720
7	4550	4390	4460	4200	4010	4100	4120	3970	4040	3820	3630	3750
8	4430	4270	4340	4150	3950	4070	4100	3930	4000	3900	3720	3820
9	4350	4150	4260	4190	4010	4100	4050	3850	3960	4000	3850	3920
10	---	---	---	4220	4010	4090	4060	3900	3970	4020	3820	3930
11	---	---	---	4160	4000	4070	4030	3870	3970	4090	3920	3980
12	---	---	---	4150	3980	4060	4050	3930	4000	4050	3830	3910
13	---	---	---	4070	3890	3980	4100	3930	4020	3920	3750	3820
14	---	---	---	4020	3840	3950	4100	3940	4020	3900	3740	3810
15	---	---	---	---	---	---	4110	3930	3990	3890	3730	3800
16	---	---	---	---	---	---	4040	3850	3940	3930	3750	3830
17	---	---	---	---	---	---	4010	3830	3920	3960	3820	3890
18	---	---	---	---	---	---	4020	3820	3920	4000	3840	3910
19	---	---	---	---	---	---	4030	3850	3930	4000	3760	3900
20	---	---	---	---	---	---	4010	3920	3960	3970	3820	3890
21	---	---	---	---	---	---	4070	3890	3970	4020	3880	3940
22	---	---	---	---	---	---	4030	3850	3930	4070	3790	3950
23	---	---	---	---	---	---	3980	3830	3900	3990	3810	3890
24	---	---	---	---	---	---	4040	3830	3920	4030	3810	3910
25	---	---	---	3960	3800	3870	4010	3800	3910	4140	3960	4020
26	---	---	---	4020	3850	3940	4020	3840	3930	4040	3860	3930
27	---	---	---	4060	3920	3980	4060	3850	3930	3990	3790	3860
28	---	---	---	4030	3930	3970	3920	3730	3850	3930	3760	3840
29	---	---	---	4040	3890	3960	3940	3760	3840	3920	3760	3840
30	---	---	---	4030	3870	3950	4000	3740	3830	4030	3810	3880
31	---	---	---	---	---	---	3920	3710	3820	3970	3820	3890
MONTH	---	---	---	---	---	---	4120	3710	3943	4140	3610	3865

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3980	3820	3890	4440	4370	4420	4530	4320	4390	---	---	---
2	3910	3820	3890	4540	4410	4480	---	---	---	---	---	---
3	4020	3780	3870	4570	4470	4530	---	---	---	---	---	---
4	3930	3840	3890	4540	4380	4460	---	---	---	---	---	---
5	4010	3810	3970	4480	4330	4410	---	---	---	---	---	---
6	5110	4010	4450	4480	4400	4440	---	---	---	---	---	---
7	6140	4550	5080	4570	4360	4460	---	---	---	---	---	---
8	5140	4420	4510	4630	4480	4560	---	---	---	---	---	---
9	4850	4330	4560	4650	4490	4580	---	---	---	---	---	---
10	---	---	---	4640	4490	4580	---	---	---	---	---	---
11	---	---	---	4630	4480	4580	---	---	---	---	---	---
12	4740	4370	4580	4710	4600	4660	---	---	---	---	---	---
13	4760	4610	4700	4740	4590	4670	---	---	---	---	---	---
14	4780	4670	4720	4710	4520	4620	---	---	---	---	---	---
15	4710	4570	4640	4630	4440	4530	---	---	---	---	---	---
16	4710	4540	4640	4570	4400	4470	---	---	---	---	---	---
17	4640	4460	4540	4510	4390	4450	---	---	---	---	---	---
18	4520	4330	4450	4520	4350	4420	---	---	---	---	---	---
19	4570	4380	4490	4500	4380	4430	---	---	---	---	---	---
20	4580	4390	4490	4500	4390	4430	---	---	---	---	---	---
21	4550	4400	4470	4520	4330	4410	---	---	---	---	---	---
22	4540	4350	4440	4520	4360	4430	---	---	---	---	---	---
23	4470	4300	4400	4500	4290	4380	---	---	---	---	---	---
24	4400	4240	4330	4460	4290	4360	---	---	---	---	---	---
25	4370	4210	4300	4470	4310	4390	---	---	---	---	---	---
26	4400	4250	4330	4570	4400	4480	---	---	---	---	---	---
27	4390	4230	4310	4530	4350	4420	---	---	---	---	---	---
28	4410	4200	4300	4460	4150	4310	---	---	---	---	---	---
29	4360	4250	4310	4300	4070	4220	---	---	---	---	---	---
30	---	---	---	4390	4220	4310	---	---	---	---	---	---
31	---	---	---	4460	4280	4390	---	---	---	---	---	---
MONTH	6140	3780	4390	4740	4070	4460	---	---	---	---	---	---

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.

LOCATION.--Lat 36°00'58", long 114°44'13", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, in center of Hoover Dam on Colorado River.

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

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--Contents: February 1935 to current year. Evaporation: March 1952 to current year. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.40 ft (0.122 m) above mean sea level, used locally as at mean sea level, powerhouse datum.

EXTREMES.--Current year: Maximum contents, 20,530,000 acre-ft (25,300 hm³) Mar. 7, gage height, 1,182.92 ft (360.554 m); minimum, 19,788,000 acre-ft (24,400 hm³) Sept. 9, gage height, 1,177.31 ft (358.844 m).

Period of record: Maximum contents, 27,790,000 acre-ft (34,300 hm³) July 29, 30, 1941, gage height, 1,220.45 ft (371.993 m); minimum (since 1940), 10,695,000 acre-ft (13,200 hm³) Apr. 26, 1956, gage height, 1,083.21 ft (330.162 m).

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr. 1, 1967), 29,755,000 acre-ft (36,700 hm³) consisting of the following: dead storage, 2,378,000 acre-ft (2,930 hm³) below gage height 895.0 ft (272.80 m)--gate sills in outlet towers; usable contents, 26,159,000 acre-ft (32,300 hm³) between gage heights 895.0 ft (272.80 m) and 1,221.4 ft (372.28 m)--top of automatic spillway gates in raised position; and uncontrolled storage, 1,218,000 acre-ft (1,500 hm³) between gage heights 1,221.4 ft (372.28 m) and 1,229.0 ft (374.60 m)--maximum water surface. Reservoir is used to store water for flood control, irrigation, municipal water supply, and power development. Figures given herein represent usable contents.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi (10 km) upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of elevations and contents furnished by Bureau of Reclamation.

REVISED RECORDS.--WSP 899: 1935-39.

CONTENTS, IN THOUSANDS OF ACRE-Feet, AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	20.149	20.204	20.088	20.086	20.276	20.521	20.299	20.102	20.185	20.166	20.095	19.811
2	20.153	20.208	20.084	20.073	20.279	20.528	20.294	20.117	20.177	20.161	20.084	19.805
3	20.161	20.204	20.078	20.069	20.266	20.521	20.295	20.112	20.177	20.170	20.066	19.802
4	20.176	20.190	20.082	20.061	20.257	20.514	20.292	20.100	20.188	20.182	20.048	19.807
5	20.192	20.176	20.069	20.058	20.261	20.508	20.276	20.092	20.208	20.186	20.030	19.823
6	20.201	20.162	20.075	20.058	20.272	20.518	20.269	20.084	20.221	20.168	20.011	19.831
7	20.208	20.144	20.087	20.062	20.295	20.530	20.247	20.070	20.217	20.149	20.008	19.815
8	20.217	20.133	20.088	20.069	20.319	20.524	20.235	20.088	20.205	20.141	20.009	19.798
9	20.229	20.125	20.081	20.087	20.331	20.508	20.226	20.106	20.210	20.141	19.995	19.788
10	20.238	20.108	20.067	20.104	20.335	20.491	20.215	20.103	20.218	20.152	19.984	19.790
11	20.250	20.090	20.054	20.117	20.342	20.486	20.208	20.087	20.221	20.169	19.970	19.805
12	20.269	20.082	20.045	20.123	20.356	20.463	20.192	20.073	20.243	20.169	19.961	19.826
13	20.276	20.086	20.057	20.117	20.378	20.465	20.176	20.074	20.255	20.160	19.950	19.824
14	20.265	20.100	20.059	20.117	20.396	20.473	20.154	20.074	20.250	20.156	19.946	19.823
15	20.246	20.114	20.062	20.125	20.412	20.465	20.141	20.094	20.235	20.147	19.948	19.811
16	20.227	20.123	20.062	20.141	20.425	20.449	20.144	20.106	20.223	20.133	19.934	19.813
17	20.223	20.119	20.062	20.157	20.434	20.434	20.154	20.108	20.218	20.141	19.908	19.817
18	20.229	20.104	20.070	20.172	20.439	20.412	20.170	20.106	20.210	20.148	19.886	19.843
19	20.234	20.098	20.082	20.177	20.451	20.407	20.162	20.098	20.214	20.140	19.887	19.865
20	20.230	20.098	20.100	20.189	20.465	20.406	20.154	20.104	20.223	20.124	19.860	19.870
21	20.217	20.107	20.121	20.209	20.479	20.411	20.139	20.115	20.208	20.110	19.861	19.874
22	20.210	20.115	20.124	20.221	20.508	20.407	20.132	20.141	20.201	20.230	19.869	19.877
23	20.204	20.119	20.135	20.231	20.513	20.392	20.120	20.164	20.194	20.091	19.864	19.886
24	20.194	20.123	20.136	20.245	20.518	20.367	20.117	20.165	20.194	20.095	19.853	19.898
25	20.196	20.115	20.154	20.266	20.510	20.364	20.121	20.150	20.184	20.121	19.837	19.912
26	20.201	20.106	20.152	20.267	20.510	20.356	20.114	20.152	20.184	20.116	19.821	19.950
27	20.204	20.095	20.145	20.266	20.513	20.362	20.114	20.149	20.190	20.092	19.806	19.969
28	20.206	20.098	20.137	20.265	20.524	20.368	20.117	20.144	20.184	20.083	19.805	19.982
29	20.206	20.099	20.128	20.269	20.528	20.352	20.111	20.150	20.172	20.082	19.830	19.997
30	20.211	20.094	20.115	20.265	20.525	20.327	20.099	20.173	20.164	20.070	19.822	20.022
31	20.196		20.092	20.265		20.307		20.193		20.082	19.818	

(*) 1,180.41 1,179.64 1,179.63 1,180.93 1,182.90 1,181.25 1,179.68 1,180.39 1,180.17 1,179.55 1,177.54 1,179.10

(†) +42,000 -102,000 -2,000 +173,000 +263,000 -221,000 -208,000 +94,000 -29,000 -82,000 -264,000 +204,000

(‡) 7,050 6,540 5,210 5,060 4,750 6,070 6,660 8,940 10,710 10,770 10,600 8,630

(**) 11.5 9.1 4.8 3.8 3.6 5.1 5.7 5.2 9.7 8.5 10.6 7.4

(††) 127,100 100,300 52,800 41,900 40,100 56,800 62,900 57,300 107,300 93,800 116,200 80,900

CAL YR 1975 † +371,000 ‡ 86,680 ** 94.8 †† 1,032,000

WTR YR 1976 † -132,000 ‡ 90,990 ** 85.0 †† 937,400

* Gage height, in feet, at end of month.

† Change in contents, in acre-feet.

‡ Diversions, in acre-feet.

** Gross evaporation, in inches, from Lake Mead.

†† Gross evaporation, in acre-feet, from Lake Mead.

NOTE.--Figures of gross evaporation are based on data obtained on Lake Mead by the Bureau of Reclamation and at Las Vegas by National Weather Service, and are computed by the Geological Survey. Only the mass-transfer method described in Geological Survey Professional Paper 298 is used. "Gross" denotes the total evaporation from the lake without deduction for precipitation on the lake surface or for natural losses that would have occurred in the area now occupied by the lake. Starting February 1976 coefficient changed to 0.0018.

COLORADO RIVER MAIN STEM

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses and water temperatures: October 1940 to current year.

REMARKS.--Samples and field data collected by U.S. Bureau of Reclamation. Non-nutrient samples analyzed by Metropolitan Water District of Southern California, La Verne, Calif. Data for several other sites at Lake Mead are listed in section titled "Analyses of samples collected at water-quality partial-record stations."

WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.								
24...	.0	6.0	81	32	100	4.0	132	0
24...	10	--	--	--	--	--	132	0
24...	25	6.0	82	31	100	4.0	132	0
24...	75	6.2	85	29	97	4.0	155	0
24...	125	--	--	--	--	--	154	0
24...	175	7.1	89	28	99	4.0	156	0
24...	225	--	--	--	--	--	159	0
24...	260	7.3	88	28	95	4.0	160	0
24...	275	--	--	--	--	--	160	0
24...	325	--	--	--	--	--	160	0
24...	375	7.3	88	28	97	4.0	160	0
24...	425	--	--	--	--	--	160	0
NOV.								
26...	.0	8.2	84	30	100	5.0	145	0
26...	10	--	--	--	--	--	--	--
26...	25	--	--	--	--	--	--	--
26...	75	8.0	84	30	100	5.0	145	0
26...	125	--	--	--	--	--	--	--
26...	175	9.2	89	29	99	5.0	155	0
26...	225	9.5	88	28	97	5.0	159	0
26...	260	9.7	87	28	96	4.0	159	0
26...	275	--	--	--	--	--	--	--
26...	325	--	--	--	--	--	--	--
26...	375	--	--	--	--	--	--	--
26...	425	10	89	28	96	4.0	160	0
26...	452	--	--	--	--	--	--	--
DEC.								
30...	.0	8.9	86	30	100	5.0	148	0
30...	10	--	--	--	--	--	146	0
30...	25	--	--	--	--	--	146	0
30...	75	--	--	--	--	--	146	0
30...	125	8.7	86	30	100	5.0	146	0
30...	175	9.0	86	30	100	5.0	153	0
30...	225	9.7	87	30	100	5.0	156	0
30...	263	9.7	88	28	96	4.0	159	0
30...	275	--	--	--	--	--	159	0
30...	325	--	--	--	--	--	159	0
30...	375	--	--	--	--	--	159	0
30...	425	10	87	28	97	4.0	159	0
30...	458	--	--	--	--	--	160	0
JAN.								
30...	.0	8.5	84	32	100	4.0	149	0
30...	10	--	--	--	--	--	149	0
30...	25	--	--	--	--	--	150	0
30...	75	--	--	--	--	--	149	0
30...	125	--	--	--	--	--	148	0
30...	175	--	--	--	--	--	148	0
30...	225	8.5	85	30	99	4.0	151	0
30...	265	8.9	85	30	99	4.0	155	0
30...	275	9.2	86	28	98	4.0	157	0
30...	325	--	--	--	--	--	159	0
30...	375	--	--	--	--	--	160	0
30...	425	9.7	86	29	97	4.0	160	0
30...	459	--	--	--	--	--	161	0
FEB.								
27...	.0	9.5	85	30	99	4.0	153	0
27...	10	--	--	--	--	--	151	0
27...	25	--	--	--	--	--	151	0
27...	75	--	--	--	--	--	151	0
27...	125	--	--	--	--	--	151	0
27...	175	--	--	--	--	--	151	0
27...	225	7.8	85	30	100	4.0	150	0
27...	265	8.0	85	30	100	4.0	150	0
27...	275	--	--	--	--	--	151	0
27...	325	8.0	85	30	100	4.0	151	0
27...	375	--	--	--	--	--	151	0
27...	425	8.3	86	30	100	4.0	153	0
27...	460	--	--	--	--	--	153	0

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUTENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.									
24...	320	92	700	330	2.4	1100	24.0	8.0	5.4
24...	--	93	--	--	--	1120	23.5	8.1	5.4
24...	310	92	690	330	2.4	1120	23.5	8.1	5.2
24...	290	85	673	330	2.3	1080	22.0	7.7	1.4
24...	--	87	--	--	--	1100	18.5	7.7	2.8
24...	290	86	681	340	2.3	1110	15.0	7.8	4.6
24...	--	82	--	--	--	1080	14.0	7.8	5.6
24...	290	82	674	340	2.3	1080	13.0	7.8	5.8
24...	--	82	--	--	--	1090	13.0	7.8	5.8
24...	--	82	--	--	--	1090	13.0	7.8	5.8
24...	290	82	676	340	2.3	1090	13.0	7.8	5.6
24...	--	83	--	--	--	1090	13.0	7.7	4.5
NOV.									
26...	300	88	687	330	2.4	1090	19.0	7.4	5.8
26...	--	89	--	--	--	1090	19.0	7.8	5.6
26...	--	89	--	--	--	1090	19.0	7.9	5.5
26...	310	89	698	330	2.4	1090	19.0	7.9	5.5
26...	--	88	--	--	--	1090	19.0	7.7	2.8
26...	300	86	694	340	2.3	1090	15.5	7.7	4.4
26...	300	82	689	340	2.3	1070	14.5	7.8	5.7
26...	290	79	673	330	2.3	1070	13.5	7.8	5.4
26...	--	80	--	--	--	1070	13.0	7.8	5.7
26...	--	81	--	--	--	1070	13.0	7.8	5.7
26...	--	82	--	--	--	1080	13.0	7.8	5.7
26...	290	82	678	340	2.3	1080	13.0	7.8	3.8
26...	--	83	--	--	--	1080	13.0	7.6	2.6
DEC.									
30...	300	88	691	340	2.4	1100	15.0	8.1	7.2
30...	--	88	--	--	--	1110	15.0	8.1	7.2
30...	--	88	--	--	--	1110	15.5	8.2	7.0
30...	--	88	--	--	--	1100	15.5	8.1	6.8
30...	300	88	690	340	2.4	1100	15.5	8.1	7.0
30...	300	88	694	340	2.4	1100	15.0	8.0	6.6
30...	300	86	695	340	2.4	1100	14.5	8.0	6.4
30...	290	81	675	340	2.3	1060	13.0	7.9	6.4
30...	--	80	--	--	--	1060	13.0	7.9	6.1
30...	--	80	--	--	--	1060	13.0	7.9	6.1
30...	--	80	--	--	--	1070	13.0	7.8	5.5
30...	290	82	677	330	2.3	1070	13.0	7.7	4.5
30...	--	82	--	--	--	1060	13.0	7.7	3.4
JAN.									
30...	300	86	689	340	2.4	1090	13.5	7.5	8.8
30...	--	88	--	--	--	1090	13.5	7.6	8.6
30...	--	88	--	--	--	1090	13.5	7.6	8.4
30...	--	87	--	--	--	1090	13.5	7.7	8.5
30...	--	87	--	--	--	1090	13.5	7.8	8.6
30...	--	87	--	--	--	1090	13.5	7.7	8.4
30...	300	87	689	340	2.4	1090	13.5	7.5	7.8
30...	290	84	678	340	2.4	1060	13.0	7.4	6.5
30...	290	82	676	330	2.3	1060	13.5	7.3	6.0
30...	--	81	--	--	--	1060	13.0	7.2	5.4
30...	--	80	--	--	--	1060	13.0	7.2	5.2
30...	290	80	675	330	2.3	1060	13.0	7.1	4.6
30...	--	80	--	--	--	1060	13.0	7.1	2.5
FEB.									
27...	300	86	690	340	2.4	1100	14.0	8.1	10.5
27...	--	86	--	--	--	1100	14.0	8.1	10.5
27...	--	86	--	--	--	1100	13.5	8.0	9.2
27...	--	86	--	--	--	1100	13.0	8.0	8.8
27...	--	86	--	--	--	1100	13.0	7.9	8.6
27...	--	86	--	--	--	1100	13.0	8.0	8.7
27...	300	86	687	340	2.4	1100	13.0	7.8	9.0
27...	300	87	689	340	2.4	1090	13.0	8.0	8.6
27...	--	88	--	--	--	1090	13.0	8.0	8.6
27...	300	87	689	340	2.4	1100	13.0	8.1	8.8
27...	--	87	--	--	--	1100	13.0	8.0	8.8
27...	300	87	691	340	2.4	1100	13.0	7.9	8.8
27...	--	87	--	--	--	1100	13.0	7.9	8.7

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAP- RONATE (C03) (MG/L)
MAY								
06...	.0	7.2	87	30	96	4.0	154	1
06...	10	--	--	--	--	--	155	1
06...	25	--	--	--	--	--	155	1
06...	75	7.2	86	30	96	4.0	157	0
06...	125	--	--	--	--	--	158	0
06...	175	8.0	86	29	96	4.0	157	0
06...	225	--	--	--	--	--	157	0
06...	264	8.0	86	29	96	4.0	157	0
06...	275	--	--	--	--	--	159	0
06...	325	--	--	--	--	--	159	0
06...	375	8.0	85	29	96	4.0	159	0
06...	425	--	--	--	--	--	159	0
06...	456	--	--	--	--	--	159	0
29...	.0	7.2	85	30	100	4.0	154	0
29...	10	--	--	--	--	--	155	0
29...	25	--	--	--	--	--	155	0
29...	75	--	--	--	--	--	154	0
29...	125	7.6	85	30	100	4.0	155	0
29...	175	--	--	--	--	--	155	0
29...	225	8.0	85	30	100	4.0	155	0
29...	264	8.0	84	30	100	4.0	157	0
29...	275	--	--	--	--	--	156	0
29...	325	--	--	--	--	--	159	0
29...	375	--	--	--	--	--	157	0
29...	425	8.7	84	30	100	4.0	159	0
29...	453	--	--	--	--	--	159	0
JUNF								
26...	.0	7.6	80	30	100	4.0	148	0
26...	10	--	--	--	--	--	146	0
26...	25	7.6	81	29	100	4.0	157	0
26...	75	7.8	87	28	100	4.0	156	0
26...	125	--	--	--	--	--	157	0
26...	175	--	--	--	--	--	159	0
26...	225	--	--	--	--	--	157	0
26...	264	8.8	86	28	96	4.0	159	0
26...	275	8.3	86	28	95	4.0	159	0
26...	325	--	--	--	--	--	159	0
26...	375	--	--	--	--	--	159	0
26...	425	8.3	84	29	99	4.0	160	0
26...	453	--	--	--	--	--	160	0
JULY								
30...	.0	6.6	81	29	100	5.0	144	0
30...	10	--	--	--	--	--	143	0
30...	25	--	--	--	--	--	144	0
30...	75	6.8	85	29	100	4.0	155	0
30...	125	6.8	86	30	100	4.0	155	0
30...	225	--	--	--	--	--	159	0
30...	264	7.6	86	28	100	5.0	159	0
30...	275	--	--	--	--	--	159	0
30...	325	--	--	--	--	--	159	0
30...	375	--	--	--	--	--	159	0
30...	425	7.6	86	28	100	5.0	160	0
30...	453	--	--	--	--	--	161	0
AUG.								
28...	.0	7.0	77	31	110	5.0	129	0
28...	10	--	--	--	--	--	128	0
28...	25	6.6	78	30	110	5.0	129	0
28...	75	6.8	82	30	99	4.0	157	0
28...	125	6.8	86	30	99	4.0	157	0
28...	175	--	--	--	--	--	159	0
28...	225	--	--	--	--	--	159	0
28...	264	--	--	--	--	--	160	0
28...	275	7.4	86	29	99	4.0	160	0
28...	325	--	--	--	--	--	160	0
28...	375	--	--	--	--	--	160	0
28...	425	7.8	86	29	100	4.0	161	0
28...	458	--	--	--	--	--	161	0
SEP.								
30...	.0	7.2	75	31	110	5.0	124	0
30...	10	--	--	--	--	--	--	--
30...	25	--	--	--	--	--	--	--
30...	75	7.2	82	30	100	5.0	156	0
30...	125	7.3	82	30	100	5.0	156	0
30...	175	--	--	--	--	--	--	--
30...	225	7.4	85	28	96	5.0	159	0
30...	271	7.6	85	28	96	5.0	160	0
30...	275	--	--	--	--	--	--	--
30...	325	--	--	--	--	--	--	--
30...	375	--	--	--	--	--	--	--
30...	425	8.2	85	29	98	5.0	160	0
30...	461	--	--	--	--	--	--	--

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIC- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
MAY									
06...	290	87	679	340	2.3	1080	16.5	8.2	10.4
06...	--	87	--	--	--	1090	16.5	8.2	10.5
06...	--	87	--	--	--	1090	16.5	8.3	10.4
06...	290	86	677	340	2.3	1090	15.0	8.3	9.8
06...	--	85	--	--	--	1090	14.5	8.1	9.3
06...	290	85	676	330	2.3	1080	13.5	8.0	8.5
06...	--	85	--	--	--	1080	13.0	7.8	8.3
06...	280	84	665	330	2.3	1070	13.0	7.8	8.2
06...	--	84	--	--	--	1070	13.0	7.8	8.1
06...	--	85	--	--	--	1070	13.0	7.8	8.0
06...	280	85	666	330	2.3	1070	13.0	7.8	7.8
06...	--	84	--	--	--	1070	13.0	7.8	7.8
06...	--	84	--	--	--	1070	13.0	7.8	7.6
29...	300	87	689	340	2.4	1080	21.5	8.4	9.0
29...	--	87	--	--	--	1080	21.5	8.4	8.9
29...	--	86	--	--	--	1080	21.5	8.5	9.0
29...	--	86	--	--	--	1080	20.0	8.2	8.4
29...	300	86	689	340	2.4	1080	14.5	8.1	8.4
29...	--	85	--	--	--	1080	13.5	8.0	8.3
29...	300	85	689	340	2.4	1080	13.0	7.9	8.0
29...	300	83	687	330	2.4	1070	13.0	7.8	7.8
29...	--	84	--	--	--	1070	13.0	7.9	7.8
29...	--	86	--	--	--	1070	13.0	7.9	7.7
29...	--	83	--	--	--	1070	13.0	7.8	7.4
29...	290	83	678	330	2.4	1070	13.0	7.8	7.4
29...	--	83	--	--	--	1070	13.0	7.7	7.3
JUNE									
26...	300	84	679	320	2.4	1050	23.0	8.4	9.2
26...	--	84	--	--	--	1050	23.0	8.4	9.2
26...	290	84	673	320	2.4	1050	23.0	8.3	9.4
26...	290	84	678	330	2.4	1070	23.0	8.0	7.4
26...	--	84	--	--	--	1070	14.5	7.9	7.8
26...	--	84	--	--	--	1070	14.0	7.9	8.0
26...	--	84	--	--	--	1070	13.5	7.9	8.0
26...	290	84	676	330	2.3	1070	13.0	7.8	7.2
26...	280	83	663	330	2.3	1070	13.0	7.8	7.8
26...	--	82	--	--	--	1060	13.0	7.8	7.5
26...	--	83	--	--	--	1060	13.0	7.8	7.5
26...	290	85	678	330	2.4	1060	13.0	7.8	7.0
26...	--	83	--	--	--	1060	13.0	7.8	7.0
JULY									
30...	290	88	671	320	2.4	1050	24.0	7.8	9.1
30...	--	88	--	--	--	1060	24.0	7.9	9.1
30...	--	85	--	--	--	1060	23.5	7.9	9.2
30...	290	85	677	330	2.4	1060	19.0	7.8	7.3
30...	290	87	681	340	2.4	1070	15.0	7.8	7.5
30...	--	85	--	--	--	1070	13.0	7.7	8.0
30...	290	85	681	330	2.4	1060	13.0	7.7	7.1
30...	--	84	--	--	--	1060	13.0	7.7	7.2
30...	--	85	--	--	--	1060	13.0	7.7	7.4
30...	--	85	--	--	--	1060	13.0	7.7	7.4
30...	290	85	681	330	2.4	1060	13.0	7.5	7.0
30...	--	86	--	--	--	1060	13.0	7.5	7.0
AUG.									
28...	320	91	705	320	2.7	1050	26.5	--	9.4
28...	--	90	--	--	--	1050	26.5	--	9.1
28...	300	90	683	320	2.7	1060	26.5	--	9.4
28...	290	86	676	330	2.4	1060	20.0	--	4.0
28...	290	87	681	340	2.3	1060	15.0	--	6.6
28...	--	86	--	--	--	1050	14.0	--	7.8
28...	--	85	--	--	--	1050	13.5	--	7.7
28...	--	85	--	--	--	1050	13.0	--	7.6
28...	290	85	680	330	2.4	1050	13.0	--	7.6
28...	--	85	--	--	--	1050	13.0	--	7.0
28...	--	85	--	--	--	1050	13.0	--	6.8
28...	290	85	681	330	2.4	1050	13.0	--	6.3
28...	--	85	--	--	--	1050	13.0	--	5.3
SEP.									
30...	310	90	689	320	2.7	1070	27.0	--	9.3
30...	--	89	--	--	--	1070	27.0	--	9.0
30...	--	89	--	--	--	1070	27.0	--	9.1
30...	290	84	676	330	2.4	1070	20.5	--	3.0
30...	300	84	687	330	2.4	1080	17.0	--	5.0
30...	--	84	--	--	--	1080	14.5	--	7.0
30...	290	82	673	330	2.3	1070	13.5	--	7.4
30...	290	82	673	330	2.3	1070	13.5	--	7.4
30...	--	81	--	--	--	1070	13.0	--	7.2
30...	--	81	--	--	--	1060	13.0	--	7.4
30...	--	81	--	--	--	1070	13.0	--	7.3
30...	290	82	677	330	2.3	1070	13.0	--	5.9
30...	--	81	--	--	--	1070	13.0	--	4.4

COLORADO RIVER MAIN STEM

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.								
31...	.0	6.2	79	31	100	4.0	144	0
31...	10	--	--	--	--	--	143	0
31...	25	--	--	--	--	--	143	0
31...	75	--	--	--	--	--	145	0
31...	125	--	--	--	--	--	157	0
31...	175	6.2	88	29	97	4.0	157	0
31...	225	6.2	79	31	99	4.0	145	0
31...	272	6.2	83	29	95	4.0	161	0
31...	275	--	--	--	--	--	161	0
31...	325	--	--	--	--	--	161	0
31...	375	--	--	--	--	--	161	0
31...	425	6.9	85	29	95	4.0	162	0
31...	462	--	--	--	--	--	165	0
DEC.								
01...	.0	6.8	82	30	99	4.0	149	0
01...	10	--	--	--	--	--	148	0
01...	25	--	--	--	--	--	149	0
01...	75	6.8	82	30	98	4.0	149	0
01...	125	--	--	--	--	--	149	0
01...	175	6.8	86	29	99	4.0	157	0
01...	225	--	--	--	--	--	160	0
01...	272	7.6	83	29	98	4.0	160	0
01...	275	--	--	--	--	--	160	0
01...	325	--	--	--	--	--	160	0
01...	375	--	--	--	--	--	161	0
01...	425	8.0	85	28	96	4.0	162	0
01...	458	--	--	--	--	--	163	0
JAN.								
05...	.0	8.5	83	30	100	4.0	153	0
05...	10	--	--	--	--	--	153	0
05...	25	--	--	--	--	--	153	0
05...	75	--	--	--	--	--	153	0
05...	125	8.2	83	30	100	5.0	153	0
05...	175	--	--	--	--	--	153	0
05...	225	7.8	83	30	100	5.0	157	0
05...	275	7.6	84	28	97	4.0	161	0
05...	325	--	--	--	--	--	161	0
05...	375	--	--	--	--	--	161	0
05...	425	7.6	84	29	96	5.0	161	0
05...	458	--	--	--	--	--	163	0
28...	.0	7.6	83	30	100	4.0	157	0
28...	10	--	--	--	--	--	--	--
28...	25	--	--	--	--	--	--	--
28...	75	--	--	--	--	--	--	--
28...	125	7.2	82	30	100	4.0	153	0
28...	175	--	--	--	--	--	--	--
28...	225	--	--	--	--	--	--	--
28...	272	7.8	83	30	100	4.0	159	0
28...	275	--	--	--	--	--	--	--
28...	325	8.0	83	29	98	4.0	160	0
28...	375	--	--	--	--	--	--	--
28...	425	8.5	83	30	98	4.0	162	0
28...	458	--	--	--	--	--	--	--
MAR.								
09...	.0	6.8	83	30	100	4.8	156	0
09...	10	--	--	--	--	--	156	0
09...	25	--	--	--	--	--	156	0
09...	75	--	--	--	--	--	155	0
09...	125	--	--	--	--	--	155	0
09...	175	6.4	84	29	100	4.6	156	0
09...	225	6.4	84	29	100	4.6	161	0
09...	275	6.8	84	28	97	4.6	161	0
09...	325	--	--	--	--	--	161	0
09...	375	--	--	--	--	--	161	0
09...	425	6.8	84	30	99	4.6	161	0
09...	462	--	--	--	--	--	161	0
31...	.0	9.2	83	30	100	5.0	157	0
31...	10	--	--	--	--	--	157	0
31...	25	--	--	--	--	--	157	0
31...	75	--	--	--	--	--	157	0
31...	125	--	--	--	--	--	156	0
31...	175	7.6	83	30	100	4.0	157	0
31...	225	7.8	83	30	100	4.0	159	0
31...	275	8.0	82	30	99	4.0	160	0
31...	325	--	--	--	--	--	161	0
31...	375	--	--	--	--	--	161	0
31...	425	7.8	82	30	99	4.0	161	0
31...	462	--	--	--	--	--	161	0

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SODIUM AN- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.									
31...	300	87	679	330	2.4	1080	20.5	--	7.2
31...	--	88	--	--	--	1080	20.5	--	7.4
31...	--	88	--	--	--	1060	20.5	--	7.3
31...	--	88	--	--	--	1060	20.5	--	6.5
31...	--	86	--	--	--	1080	16.5	--	4.0
31...	290	83	676	340	2.3	1080	15.5	--	5.4
31...	290	88	669	330	2.4	1080	14.0	--	7.3
31...	280	82	660	330	2.3	1040	13.5	--	6.8
31...	--	82	--	--	--	1040	13.0	--	6.6
31...	--	82	--	--	--	1050	13.0	--	6.6
31...	--	82	--	--	--	1060	13.0	--	5.9
31...	280	82	663	330	2.3	1050	13.0	--	4.4
31...	--	82	--	--	--	1060	13.0	--	3.2
DEC.									
01...	290	89	675	330	2.4	1070	17.5	--	7.4
01...	--	87	--	--	--	1070	17.5	--	7.2
01...	--	87	--	--	--	1070	17.0	--	7.2
01...	290	87	672	330	2.4	1070	16.5	--	7.2
01...	--	86	--	--	--	1070	16.5	--	7.1
01...	290	86	679	330	2.4	1070	15.5	--	4.7
01...	--	84	--	--	--	1040	14.0	--	6.5
01...	280	83	664	330	2.4	1040	13.0	--	6.4
01...	--	84	--	--	--	1040	13.0	--	6.4
01...	--	81	--	--	--	1040	13.0	--	6.1
01...	--	82	--	--	--	1040	13.0	--	5.1
01...	280	83	665	330	2.3	1040	13.0	--	4.4
01...	--	83	--	--	--	1050	13.0	--	2.8
JAN.									
05...	300	86	687	330	2.4	1070	14.0	7.9	8.4
05...	--	87	--	--	--	1070	14.0	7.9	8.4
05...	--	87	--	--	--	1070	14.0	7.9	8.4
05...	--	87	--	--	--	1070	14.0	7.9	8.2
05...	300	86	688	330	2.4	1070	14.0	7.9	8.1
05...	--	87	--	--	--	1070	14.0	7.9	8.1
05...	290	85	678	330	2.4	1070	14.0	7.9	7.8
05...	280	80	660	330	2.3	1040	13.0	7.7	6.2
05...	--	81	--	--	--	1040	13.0	7.7	5.9
05...	--	82	--	--	--	1040	13.0	7.7	5.1
05...	290	82	673	330	2.3	1040	13.0	7.6	4.7
05...	--	81	--	--	--	1040	13.0	7.5	2.8
28...	290	88	681	330	2.4	1070	14.0	8.2	9.0
28...	--	87	--	--	--	1070	14.0	8.2	9.0
28...	--	87	--	--	--	1070	13.5	8.2	9.2
28...	--	86	--	--	--	1070	13.5	8.2	9.1
28...	300	86	685	330	2.4	1070	13.5	8.2	9.0
28...	--	86	--	--	--	1070	13.5	8.2	9.0
28...	--	86	--	--	--	1070	13.5	8.0	8.9
28...	290	84	678	330	2.4	1050	13.0	7.9	7.8
28...	--	84	--	--	--	1050	13.0	7.9	6.6
28...	290	82	674	330	2.4	1050	13.0	7.9	6.6
28...	--	82	--	--	--	1050	13.0	7.8	6.3
28...	290	82	676	330	2.3	1050	13.0	7.7	4.5
28...	--	83	--	--	--	1050	13.0	7.6	3.2
MAR.									
09...	290	85	678	330	2.4	1050	14.5	8.1	9.5
09...	--	85	--	--	--	1050	13.5	8.1	9.4
09...	--	85	--	--	--	1060	13.5	8.2	9.4
09...	--	85	--	--	--	1060	13.5	8.2	9.0
09...	--	84	--	--	--	1060	13.0	8.2	9.0
09...	290	85	677	330	2.4	1060	13.0	8.2	9.0
09...	290	84	678	330	2.4	1050	13.0	8.5	8.1
09...	280	84	665	330	2.3	1060	13.0	8.0	6.6
09...	--	84	--	--	--	1050	13.0	8.0	5.0
09...	--	83	--	--	--	1050	13.0	8.0	6.6
09...	280	84	669	330	2.4	1060	13.0	7.9	6.3
09...	--	84	--	--	--	1060	13.0	7.9	6.1
31...	290	86	682	330	2.4	1070	14.5	7.9	9.5
31...	--	86	--	--	--	1070	14.5	7.9	9.5
31...	--	86	--	--	--	1070	14.5	7.7	9.5
31...	--	86	--	--	--	1070	14.0	7.7	9.5
31...	--	86	--	--	--	1070	14.0	7.7	9.0
31...	290	85	678	330	2.4	1070	13.5	7.7	8.2
31...	280	84	668	330	2.4	1060	13.5	7.6	7.9
31...	280	85	668	330	2.4	1050	13.0	7.5	7.4
31...	--	85	--	--	--	1050	13.0	7.5	6.8
31...	--	85	--	--	--	1050	13.0	7.5	6.8
31...	280	85	669	330	2.4	1050	13.0	7.6	6.1
31...	--	84	--	--	--	1050	13.0	7.6	6.7

COLORADO RIVER MAIN STEM

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SiO_2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO_3) (MG/L)	CAR- BONATE (CO_3) (MG/L)
APR.								
29...	0	7.4	83	30	100	4.0	159	0
29...	10	--	--	--	--	--	157	0
29...	25	--	--	--	--	--	157	0
29...	75	--	--	--	--	--	157	0
29...	125	7.8	83	30	100	4.0	157	0
29...	175	--	--	--	--	--	157	0
29...	225	7.8	83	30	100	4.0	159	0
29...	275	7.8	83	30	100	4.0	160	0
29...	325	--	--	--	--	--	160	0
29...	375	--	--	--	--	--	160	0
29...	425	8.2	83	30	99	4.0	161	0
29...	462	--	--	--	--	--	161	0

COLORADO RIVER MAIN STEM

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09421000 Lake Mead at Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
APR.									
29...	290	86	680	330	2.4	1070	--	8.1	9.8
29...	--	86	--	--	--	1070	16.0	8.3	9.8
29...	--	86	--	--	--	1070	16.0	8.2	9.8
29...	--	86	--	--	--	1070	15.5	8.2	9.2
29...	290	86	679	330	2.4	1070	14.5	8.2	9.0
29...	--	86	--	--	--	1070	14.0	8.1	8.5
29...	290	84	678	330	2.4	1070	13.5	8.0	8.2
29...	280	84	668	330	2.4	1060	13.5	7.9	7.8
29...	--	84	--	--	--	1060	13.0	7.9	7.4
29...	--	84	--	--	--	1060	13.0	7.9	7.3
29...	280	84	669	330	2.4	1060	13.0	7.9	7.3
29...	--	84	--	--	--	1060	13.0	7.8	6.8

DATE	TIME	DEPTH (FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	WATER TEMPER- ATURE (DEG C)
NOV.									
25...	1100	10	.22	.01	.02	.23	.48	.00	17.0
MAR.									
09...	0948	10	.37	.01	.04	.64	1.1	.01	15.5

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
OCT. 31	17
DEC. 1	22
JAN. 5	27
JAN. 28	29
MAR. 9	32
MAR. 31	56
APR. 29	40

COLORADO RIVER MAIN STEM

09421500 Colorado River below Hoover Dam, Ariz.-Nev
(National stream-quality accounting network station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW¼NE¼ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, in powerhouse at downstream side of Hoover Dam.

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

WATER-DISCHARGE RECORDS

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

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

AVERAGE DISCHARGE.--42 years (1934-76), 13,340 ft³/s (377.8 m³/s), 9,665,000 acre-ft/yr (11,900 km³/yr) unadjusted for storage in Lake Mead.

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

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935. Many diversions above station for irrigation, industrial, and municipal use.

COOPERATION.--Records furnished by Bureau of Reclamation.

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

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

COLORADO RIVER MAIN STEM

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09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses and water temperatures: October 1939 to current year.
Biological data: November 1974 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 1,140 micromhos Oct. 7; minimum, 1,060 micromhos Nov. 11.
Water temperature: Maximum, 15.0°C Aug. 10; minimum, 11.5°C Feb. 10, 11, Apr. 14.

Period of record (1970 to current year):

Specific conductance: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 1,000 micromhos June 19, 1972.
Water temperature: Maximum, 18.5°C Apr. 21, 1970; minimum, 9.0°C Feb. 12, 1975.

REMARKS.--Samples collected 0.3 mi (0.5 km) downstream from gaging station in Hoover Dam powerhouse. Extremes are based on monthly data.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)
OCT.									
07...	0830	8300	8.5	96	28	100	4.9	163	0
08...	0815	E3870	--	--	--	--	--	--	--
NOV.									
11...	0830	23000	8.2	90	27	98	4.9	166	0
DEC.									
09...	0900	14220	8.8	85	27	98	4.8	166	0
JAN.									
13...	0830	16720	7.9	88	28	97	5.4	162	0
14...	0815	5990	--	--	--	--	--	--	--
FEB.									
10...	1000	9400	8.3	82	27	99	4.8	165	0
11...	1000	12500	--	--	--	--	--	--	--
MAR.									
09...	0915	23820	7.9	81	29	96	5.0	162	0
10...	0800	21120	--	--	--	--	--	--	--
APR.									
13...	0830	19920	8.3	82	29	97	4.8	163	0
14...	0830	19150	--	--	--	--	--	--	--
MAY									
11...	0715	22400	8.0	85	29	100	4.9	165	0
12...	0800	21820	--	--	--	--	--	--	--
JUNE									
08...	0800	13600	7.7	81	29	100	4.6	160	0
09...	0830	18700	--	--	--	--	--	--	--
JULY									
13...	0800	14820	8.3	84	31	100	4.8	165	0
AUG.									
10...	0730	9250	8.7	89	28	100	4.8	162	0
11...	0800	17930	--	--	--	--	--	--	--
SEP.									
14...	0800	12860	8.6	86	28	99	4.7	164	0
15...	0800	14020	--	--	--	--	--	--	--

E: ESTIMATED

COLORADO RIVER MAIN STEM

09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL KJFL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT.													
07...	300	R4	.4	.51	.35	.34	.01	.86	.03	--	712	704	16000
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV.													
11...	290	R5	.3	.22	.36	.35	.01	.58	.00	2.9	703	687	43700
DEC.													
09...	270	R1	.4	.21	.42	.42	.00	.63	.00	--	701	659	26900
JAN.													
13...	290	R6	.4	.58	.42	.38	.01	1.0	.00	--	716	684	32300
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB.													
10...	270	R7	.3	.76	.54	.53	.00	1.3	.04	3.9	713	662	18100
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR.													
09...	280	R3	.4	.24	.39	.47	.00	.63	.00	--	698	664	44900
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR.													
13...	280	R2	.3	.49	.41	.41	.00	.90	.03	--	704	666	37900
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	290	R4	.4	--	.41	.42	.00	--	.02	4.4	702	685	42500
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUNE													
08...	280	R4	.4	.38	.37	.38	.00	.75	.00	--	722	667	26500
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JULY													
13...	280	R4	.3	.72	.43	.43	.00	1.2	.02	--	680	676	27200
AUG.													
10...	280	90	.4	.32	.42	.36	.00	.74	.00	1.9	714	683	17800
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP.													
14...	280	R7	.4	.11	.44	.45	.01	.55	.01	--	693	677	24100
15...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.										
07...	360	2.3	1140	7.9	13.0	1	--	--	3	70
08...	--	--	--	--	--	--	R1	R3	--	--
NOV.										
11...	340	2.3	1060	7.2	12.5	0	--	--	3	190
DEC.										
09...	320	2.4	1070	6.9	12.5	0	--	--	1	40
JAN.										
13...	340	2.3	1100	7.7	12.0	1	--	--	1	50
14...	--	--	--	--	--	--	R1	R10	--	--
FEB.										
10...	320	2.4	1080	7.6	11.5	2	--	--	1	30
11...	--	--	--	--	11.5	--	R1	R1	--	--
MAR.										
09...	320	2.3	1090	7.7	12.0	0	--	--	1	60
10...	--	--	--	--	--	--	R1	R1	--	--
APR.										
13...	320	2.3	1080	7.8	12.5	1	--	--	1	50
14...	--	--	--	--	11.5	--	R1	R1	--	--
MAY										
11...	330	2.4	1090	8.1	12.5	1	--	--	0	0
12...	--	--	--	--	12.5	--	R1	R1	--	--
JUNE										
08...	320	2.4	1080	7.9	12.0	1	--	--	0	0
09...	--	--	--	--	12.5	--	R1	R1	--	--
JULY										
13...	340	2.4	1100	8.0	12.5	0	--	--	1	40
AUG.										
10...	340	2.4	1080	8.0	15.0	0	--	--	0	0
11...	--	--	--	--	12.5	--	R1	R1	--	--
SEP.										
14...	330	2.4	1070	8.0	12.5	1	--	--	0	0
15...	--	--	--	--	13.0	--	R10	R7	--	--

COLORADO RIVER MAIN STEM

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09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COPALT (CO) (UG/L)	DIS- SOLVED COPALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
NOV.												
11...	0930	3	3	<10	1	<10	2	<50	0	<10	1	0
FEB.												
10...	1000	4	2	<10	1	0	0	<50	1	<10	0	100
MAY												
11...	0715	4	4	<10	0	0	0	<50	0	20	3	40
AUG.												
10...	0730	3	2	<10	1	0	0	<50	1	20	0	120

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (PR) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SILF- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV.											
11...	0	<100	6	10	<10	.0	.0	3	4	50	10
FEB.											
10...	10	<100	3	30	0	.1	.0	4	3	20	0
MAY											
11...	10	<100	3	0	0	.0	.0	3	3	40	20
AUG.											
10...	20	<100	0	0	10	.0	.0	3	3	40	0

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

PHYTOPLANKTON *

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 07	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....TETRAEIDRON		7	1
	...SCENEDESMACEAE			
	....SCENEDESMUS			<1
	...ULOTRICHALES			
	...ULOTRICHACEAE			
	....ULOTRIX		140	23
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINOIDISCEAE			
	...CYCLOTELLA		7	1
	...MELOSIRA		13	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	...RHOICOSPHEA		13	2
	...CYMBELLACEAE			
	...CYMBELLA		7	1
	...DIATOMACEAE			<1
	....DIATOMA			
	...NAVICULACEAE	NAVICULOID		
	...NAVICULA		99	16
	...NITZSCHIA			
	...NITZSCHIA		20	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	...ANABAENOPSIS		33	5
	...OSCILLATORIA			
	...LYNGBYA		260	43
	PYRRHOPHYTA			
	..DINOPHYCEAE	DINOFLAGELLATES		
	...PERIDINIALES			
	...PERIDINIA			
	...PERIDINIUM		7	1
	TOTAL		610	

* ALL SAMPLES COLLECTED USING SUSPENDED-SEDIMENT SAMPLER

COLORADO RIVER MAIN STEM

09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ..ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 11	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	....OCCYSTACEAE			
	....SELENASTRUM		21	3
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	....CYCLOTELLA		10	2
	....MELOSIWA		21	3
	...PENNIALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		10	2
	....CUCCONEIS			<1
	...FRAGILARIACEAE			
	....FRAGILARIA		10	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		41	7
	...NITZSCHIA			
	....NITZSCHIA		10	2
JAN 13	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE	FILAMENTOUS		
	...OSCILLATORIALES			
	....OSCILLATORIACEAE			
	....LYNGBYA		440	73
	....OSCILLATORIA		41	7
	TOTAL		610	
	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	....OCCYSTACEAE			
	....CHODATELLA			<1
	...SCENEDESMACEAE			
	....SCENEDESMUS		17	4
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	....CYCLOTELLA		34	8
	...PENNIALES	PENNATE		
	....FRAGILARIACEAE			
	....FRAGILARIA		34	8
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		59	15
FEB 10	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE	COCCOID		
	...CHROOCOCCALES			
	....CHROOCOCCACEAE			
	....ANACYSTIS		260	65
	TOTAL		400	
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	....CYCLOTELLA		54	80
	...PENNIALES	PENNATE		
	....FRAGILARIACEAE			
	....FRAGILARIA			<1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		14	20
	TOTAL		68	

09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

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

DATE	PHYTOPLANKTON			
	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
	.CLASS			
	..ORDER			
	...FAMILY			
	....GENUS			
MAR 09	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	....OCCYSTACEAE			
	.....OCCYSTIS		44	11
	.....TETRAEDRON		22	6
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	.....CYCLOTELLA		200	50
	.....MELOSIIRA		44	11
	...PENNIALES	PENNATE		
	....NITZSCHIA			
	.....NITZSCHIA		22	6
	CHRYSOPHYCEAE			
	...CHRYSONOMADACEAE	YELLOW-BROWN ALGAE		
	....OCHROMONADACEAE			
	.....OCHROMONAS		44	11
	PYRROPHYTA			
	..DINOPHYCEAE	DINOFLLAGELLATES		
	...PERIDINIALES			
	....PERIDINIAEAE		22	6
	.....PERIDINIUM			
	TOTAL		390	
APR 13	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	....OCCYSTACEAE			
	.....OCCYSTIS			<1
	...VOLVOCALES			
	....PHACOTACEAE			
	.....PHACOTUS		6	1
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNIALES	PENNATE		
	....FRAGILARIACEAE			
	.....FRAGILARIA		23	4
	.....SYNEDRA		18	3
	....NITZSCHIAEAE			
	.....DENTICULA		6	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...CHROOCOCCALES	COCCOID		
	....CHROOCOCCACEAE			
	.....ANACYSTIS		320	49
	...OSCILLATORIALES	FILAMENTOUS		
	....OSCILLATORIAEAE			
	.....LYNGRYA		280	43
	TOTAL		650	
MAY 11	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	....OCCYSTACEAE			
	.....ANKISTRODES MUS		5	4
	.....KIRCHNERIELLA		11	7
	...SCENEDESMACEAE			
	....SCENEDESMIJS		22	14
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	.....MELOSIIRA		22	14
	...PENNIALES	PENNATE		
	....ACHNANTHACEAE			
	.....ACHNANTHES		5	4
	...CYMBELLA			
	.....CYMBELLA		5	4
	....FRAGILARIACEAE			
	.....ASTERIONELLA		16	11
	...NAVICULACEAE	NAVICULOID		
	.....NAVICULA		5	4
	....NITZSCHIAEAE			
	.....NITZSCHIA		32	21
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	....NOSTOCACEAE			
	.....ANABAENA		22	14
	...OSCILLATORIAEAE			
	.....SPIRULINA		5	4
	TOTAL		150	

09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ..ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUN 08	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNACEAE	PENNATE		
	...FRAGILARIACEAE			
	....SYNEURA		10	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA			<1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	....OSCILLATORIACEAE			
	....OSCILLATORIA		970	99
	TOTAL		980	
JUL 13	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....SCENEDESMUS		5	1
	...VOLVOCALES			
	...PHACOTACEAE			
	....PHACOTUS		5	1
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINODISCAEAE		5	1
	....CYCLOTELLA		5	1
	....MELOSIRA			
	...PENNACEAE	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		11	1
	...CYMBELLACEAE			
	....CYMBELLA		11	1
	...FRAGILARIACEAE			
	....FRAGILARIA		11	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		22	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		75	9
	...OSCILLATORIALES	FILAMENTOUS		
	....OSCILLATORIACEAE			
	....OSCILLATORIA		660	81
	PYRRHOPHYTA			
	..DINOPHYCEAE	DINOFLLAGELLATES		
	...PERIDINIALES			
	...GLENODINIACEAE			
	....GLENODINIUM		5	1
	TOTAL		810	
AUG 10	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNACEAE	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		8	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		51	15
	...NITZSCHACEAE			
	....NITZSCHIA		8	2
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
OSCILLATORIACEAE			
OSCILLATORIA		280	80
	TOTAL		350	

COLORADO RIVER MAIN STEM

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09421500 Colorado River below Hoover Dam, Ariz.-Nev.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
SEP 14	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....OCCYSTIS		71	4
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...DIATOMACEAE			
	....DIATOMA			<1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		71	4
	...NITZSCHACEAE			
	....NITZSCHIA		18	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....CYLINDROSPERMUM		280	15
	...OSCILLATORIA			
	....OSCILLATORIA		1,400	76
	TOTAL		1,900	

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov 11	35	0.2	0.1	0.2	0.0	310	Polyethylene strip
Feb 10	28	9.7	7.8	8.6	1.4	220	Polyethylene strip
May 11	28	0.308	0.154	0.741	0.061	210	Polyethylene strip
Aug 10	28	2.85	1.92	1.14	0.036	810	Polyethylene strip

COLORADO RIVER MAIN STEM

09422500 Lake Mohave at Davis Dam, Ariz.-Nev.

LOCATION.--Lat 35°11'50", long 114°34'07", in SW¼SW¼ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi (47 km) west of Kingman, Ariz., and 67 mi (108 km) downstream from Hoover Dam.

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

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 1,794,000 acre-ft (2,210 hm³) May 29, 30 (elevation, 646.44 ft or 197.035 m); minimum, 1,343,000 acre-ft (1,660 hm³) Oct. 13 (elevation, 629.39 ft or 191.838 m).

Period of record: Maximum contents, 1,811,000 acre-ft (2,230 hm³) May 24, 1958, May 29, 1963; maximum elevation, 647.04 ft (197.218 m) May 29, 1963; minimum contents (since 1952), 1,168,000 acre-ft (1,440 hm³) Sept. 8, 1953 (elevation, 622.15 ft or 189.631 m).

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft (2,230 hm³) between elevations 533.39 ft (162.577 m)--lowest point of penstock outlet and 647.0 ft (197.21 m)--top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft (10.5 hm³) below elevation 533.39 ft (162.577 m). Lake is used for power development, re-regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

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

629	1,334,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1389000	1396000	1488000	1549000	1619000	1688000	1650000	1643000	1774000	1661000	1603000	1569000
2	1394000	1389000	1490000	1563000	1617000	1690000	1647000	1632000	1786000	1663000	1603000	1579000
3	1389000	1384000	1489000	1570000	1612000	1689000	1638000	1638000	1789000	1647000	1606000	1585000
4	1381000	1383000	1488000	1577000	1615000	1688000	1638000	1643000	1788000	1635000	1607000	1584000
5	1377000	1383000	1494000	1587000	1623000	1692000	1635000	1650000	1775000	1616000	1610000	1572000
6	1365000	1387000	1492000	1596000	1638000	1682000	1631000	1659000	1764000	1620000	1610000	1562000
7	1361000	1392000	1496000	1597000	1641000	1682000	1630000	1677000	1762000	1621000	1593000	1580000
8	1357000	1398000	1499000	1600000	1650000	1689000	1630000	1690000	1762000	1624000	1576000	1595000
9	1355000	1398000	1500000	1604000	1666000	1700000	1623000	1690000	1762000	1623000	1576000	1605000
10	1358000	1406000	1505000	1603000	1673000	1710000	1615000	1698000	1762000	1605000	1570000	1640000
11	1353000	1414000	1509000	1605000	1680000	1723000	1615000	1704000	1758000	1589000	1567000	1652000
12	1347000	1419000	1515000	1606000	1690000	1734000	1615000	1715000	1740000	1588000	1568000	1657000
13	1345000	1426000	1511000	1614000	1691000	1729000	1618000	1728000	1728000	1590000	1566000	1673000
14	1355000	1432000	1509000	1616000	1696000	1724000	1638000	1735000	1735000	1598000	1548000	1689000
15	1368000	1432000	1507000	1616000	1699000	1727000	1658000	1732000	1734000	1601000	1540000	1700000
16	1387000	1434000	1506000	1616000	1702000	1729000	1688000	1727000	1730000	1611000	1541000	1709000
17	1397000	1438000	1509000	1610000	1708000	1732000	1691000	1732000	1728000	1598000	1546000	1716000
18	1394000	1440000	1507000	1612000	1711000	1732000	1696000	1735000	1728000	1587000	1546000	1703000
19	1396000	1439000	1504000	1606000	1717000	1734000	1696000	1746000	1721000	1586000	1550000	1694000
20	1395000	1440000	1503000	1599000	1717000	1715000	1685000	1751000	1708000	1590000	1557000	1692000
21	1398000	1442000	1504000	1598000	1706000	1709000	1681000	1754000	1709000	1600000	1551000	1691000
22	1401000	1437000	1519000	1600000	1701000	1712000	1675000	1737000	1704000	1601000	1540000	1687000
23	1400000	1442000	1530000	1605000	1698000	1703000	1674000	1746000	1700000	1607000	1547000	1698000
24	1396000	1446000	1532000	1602000	1696000	1696000	1662000	1745000	1702000	1600000	1554000	1707000
25	1390000	1456000	1530000	1605000	1692000	1702000	1659000	1751000	1700000	1589000	1563000	1712000
26	1382000	1462000	1530000	1610000	1691000	1690000	1657000	1762000	1686000	1593000	1577000	1708000
27	1387000	1465000	1524000	1611000	1693000	1676000	1652000	1779000	1671000	1607000	1589000	1714000
28	1391000	1474000	1524000	1611000	1686000	1663000	1645000	1792000	1668000	1616000	1580000	1717000
29	1390000	1481000	1524000	1612000	1681000	1659000	1647000	1794000	1666000	1622000	1572000	1719000
30	1392000	1482000	1534000	1618000	---	1658000	1654000	1780000	1660000	1630000	1572000	1721000
31	1401000	---	1542000	1617000	---	1655000	---	1765000	---	1615000	1570000	---
MAX	1401000	1482000	1542000	1618000	1717000	1734000	1696000	1794000	1789000	1663000	1610000	1721000
MIN	1345000	1383000	1488000	1549000	1612000	1655000	1615000	1632000	1660000	1586000	1540000	1562000
(†)	631.70	634.87	637.16	639.99	642.34	641.38	641.37	645.40	641.59	639.92	638.23	643.82
(‡)	+16,000	+81,000	+60,000	+75,000	+64,000	-26,000	-1,000	+111,000	-105,000	-45,000	-45,000	+151,000
CAL YR 1975	MAX	1668000	MIN	1345000								
WTR YR 1976	MAX	1794000	MIN	1345000								

† Elevation, in feet, at end of month.

‡ Change, in contents, in acre-feet.

COLORADO RIVER MAIN STEM

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09423000 Colorado River below Davis Dam, Ariz.-Nev.

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

REMARKS.--Records excellent. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10800	5000	6020	7660	5180	14500	18700	18000	12000	13200	12200	14700
2	9870	6620	6200	7130	10800	15100	17400	13100	11500	13600	15000	12900
3	10800	8770	6400	6590	13200	17000	16700	15500	12700	16700	15200	13300
4	10900	8830	7500	4990	9590	15700	11400	17200	12900	12200	15700	11900
5	8030	7850	7040	5170	11600	15900	17400	17900	13100	17500	15800	10500
6	11900	6900	8080	5990	8390	14900	17400	17200	11500	15700	15800	9840
7	9510	6610	4620	5650	6010	9780	17100	9610	13400	16600	16600	8660
8	8830	7050	7150	5120	2820	12700	16600	2090	13300	15000	13900	8960
9	9270	6780	6780	4560	3960	13600	18700	8770	12900	14300	16500	9170
10	6650	7100	6930	4940	3620	13000	16700	17000	13200	16200	16600	3760
11	6330	7340	7040	4250	3380	12900	11300	18300	13500	13200	16500	2150
12	6290	4920	7260	4890	2150	13200	14200	14500	14900	16200	15400	2530
13	7520	5780	7590	4430	2130	14200	16700	10200	11800	15100	16500	4960
14	8170	5780	5580	4410	2130	10300	7180	12900	12900	13600	16500	5360
15	7810	7280	8400	5520	2130	15700	5230	11900	12800	13700	13600	6920
16	7860	4310	7880	7030	2130	16100	2220	11000	15100	13700	14600	6900
17	8950	7370	8150	8440	2150	15600	4840	15600	15400	15200	15700	8890
18	8920	8590	8930	4870	2160	15000	4850	18200	14500	12400	15700	9780
19	7390	8630	8510	9770	2140	18700	14700	13400	14100	15200	15600	8390
20	9440	7540	7590	9810	6160	18300	18700	13400	11500	15400	15800	10500
21	9650	7810	5040	7060	8740	12000	18500	13000	13600	14200	15800	10500
22	8750	7590	4440	7270	6060	10400	19600	16000	14500	15400	12300	10700
23	8580	4830	5740	7460	10600	19600	19500	2490	15500	15200	15300	6000
24	10900	5050	6250	8700	13100	19500	19300	15900	13800	13900	15300	4300
25	10900	4730	5880	5010	17200	13000	13800	17200	14300	11000	15300	2750
26	9800	5370	7740	8790	17000	20300	19400	14300	14400	14200	15500	4690
27	6900	6220	8870	9590	13800	19800	19800	10100	12600	12000	15400	5190
28	6370	5710	5060	10100	14900	14300	19600	12700	15000	11900	16200	5320
29	6400	5300	6090	9960	11900	20000	20000	14000	15500	14500	12400	5370
30	7490	6000	6140	9240	---	20000	18700	12100	16600	15600	15600	4290
31	6950	---	7020	9100	---	19700	---	15000	---	15100	15100	---
TOTAL	267930	197700	211920	213500	215130	480780	456220	418560	408800	447700	473400	229180
MEAN	8643	6590	6836	6887	7418	15510	15210	13500	13630	14440	15270	7639
MAX	11900	8830	8930	10100	17200	20300	20000	18300	16600	17500	16600	14700
MIN	6290	4310	4440	4250	2130	9780	2220	2090	11500	11000	12200	2150
AC-FT	531400	392100	420300	423500	426700	953600	904900	830200	810900	888000	939000	454600

CAL YR 1975 TOTAL 4154270 MEAN 11380 MAX 20700 MIN 2790 AC-FT 8240000
WTH YR 1976 TOTAL 4020820 MEAN 10990 MAX 20300 MIN 2090 AC-FT 7975000

09423000 Colorado River below Davis Dam, Ariz.-Nev.--Continued

WATER-QUALITY RECORDS

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

EXTREMES.--1975-76:

Specific conductance: Maximum, 1,110 micromhos Feb. 2; minimum, 1,070 micromhos Oct. 1, Aug. 2.

Water temperature: Maximum, 20.0°C Sept. 1; minimum, 10.5°C Jan. 2.

Period of record:

Specific conductance: Maximum, 1,290 micromhos Jan. 12, 1971; minimum, 900 micromhos Dec. 14, 1970.

Water temperature: Maximum, 21.5°C Sept. 21, 1969; minimum, 8.5°C Feb. 1, 1973.

REMARKS.--Extremes are based mostly on monthly data.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
OCT.										
01...	0700	8760	7.9	87	29	99	5.0	158	0	290
NOV.										
03...	1210	8785	7.8	80	27	100	5.0	150	0	280
DEC.										
01...	1330	8700	8.3	82	29	110	5.2	152	0	290
JAN.										
02...	1445	4920	7.8	86	28	100	5.1	159	0	300
FEB.										
02...	1215	14010	7.6	83	27	100	5.1	162	0	290
MAR.										
01...	1100	19160	8.3	84	28	97	4.4	163	0	290
APR.										
01...	1035	24600	7.8	84	30	100	5.0	165	0	280
MAY										
03...	1130	19460	5.3	82	29	100	5.4	168	0	290
JUNE										
01...	1330	17700	7.1	81	30	100	4.9	156	0	290
JULY										
01...	0630	4940	8.7	90	30	100	4.9	162	0	300
AUG.										
02...	0850	17430	8.4	91	30	99	5.1	152	0	300
SEP.										
01...	0830	19300	8.4	82	29	100	5.0	142	0	310

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)
OCT.										
01...	86	.2	140	715	683	16900	340	2.3	1070	11.0
NOV.										
03...	85	.3	130	716	660	17000	310	2.5	1090	17.0
DEC.										
01...	86	.4	--	724	687	17000	320	2.7	1100	12.5
JAN.										
02...	83	.3	130	718	691	9540	330	2.4	1100	10.5
FEB.										
02...	86	.3	120	722	680	27300	320	2.4	1110	11.0
MAR.										
01...	87	.5	130	719	681	37200	330	2.3	1100	12.0
APR.										
01...	87	.3	100	717	677	47600	330	2.4	1090	14.5
MAY										
03...	86	.3	--	710	683	37300	320	2.4	1090	15.5
JUNE										
01...	88	.4	130	694	680	33200	330	2.4	1090	18.0
JULY										
01...	88	.4	120	710	704	9470	350	2.3	1080	19.0
AUG.										
02...	88	.3	130	709	698	33400	350	2.3	1070	18.0
SEP.										
01...	88	.3	130	710	694	37000	320	2.4	1080	20.0

RUBY VALLEY

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10244720 Franklin River near Arthur, Nev.

LOCATION.--Lat 40°49'25", long 115°08'10", in SE¼SW¼ sec.18, T.34 N., R.61 E., Elko County, on right bank 1 mi (2 km) above Horse Creek and 3.5 mi (5.6 km) northeast of Arthur.

DRAINAGE AREA.--10.3 mi² (26.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft (2,001.713 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--12 years, 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 85 ft³/s (2.41 m³/s) May 14, gage height, 2.61 ft (0.796 m); minimum, 0.71 ft³/s (0.020 m³/s) Sept. 4, 5.

Period of record: Maximum discharge, 197 ft³/s (5.58 m³/s) June 6, 1975, gage height, 2.79 ft (0.850 m), from rating curve extended above 106 ft³/s (3.00 m³/s) on basis of logarithmic plotting; minimum daily, 0.77 ft³/s (0.022 m³/s) Sept. 6-9, 1966.

REMARKS.--Records good except those for winter periods, which are poor. No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.3	3.8	2.4	2.0	3.3	4.5	22	39	13	3.5	1.1
2	2.1	4.8	3.8	2.4	2.0	3.1	4.7	29	38	12	3.5	.96
3	2.1	5.0	3.8	2.4	2.0	3.0	4.9	36	38	10	3.2	.88
4	2.3	5.0	3.6	2.5	2.0	2.6	7.0	42	37	9.0	2.8	.73
5	2.4	5.0	3.9	2.5	2.0	2.6	8.8	41	37	7.8	2.5	.71
6	2.5	4.8	4.0	2.4	2.0	2.6	8.6	39	36	7.7	2.5	1.7
7	2.8	8.2	4.1	2.4	2.0	2.7	8.8	39	33	7.3	2.2	1.4
8	2.8	7.3	4.3	2.3	2.0	2.9	9.7	43	30	6.4	2.2	1.1
9	2.8	5.5	4.3	2.4	2.0	3.0	11	45	31	6.4	2.1	1.0
10	2.8	5.3	4.3	2.5	2.0	3.1	11	51	31	6.5	2.0	.80
11	3.0	5.5	4.3	2.5	2.0	3.2	13	61	29	7.0	1.9	3.0
12	2.8	5.2	3.9	2.5	2.1	3.0	13	52	25	6.5	1.8	3.0
13	3.0	5.2	3.5	2.5	2.2	2.8	12	57	22	5.2	1.8	3.4
14	3.0	5.3	3.3	2.2	2.3	2.9	12	67	19	4.7	1.8	2.3
15	3.0	5.3	3.3	2.1	2.3	3.4	11	64	18	4.5	4.2	8.1
16	3.0	5.5	3.3	2.1	2.3	3.3	10	62	19	5.2	3.5	8.9
17	3.0	5.0	3.5	2.1	2.4	3.9	8.0	66	19	6.1	2.9	5.2
18	3.0	4.3	3.5	2.1	2.3	4.7	8.6	65	20	5.9	2.8	3.7
19	3.0	4.1	3.5	2.1	2.1	4.2	8.1	61	23	5.5	2.9	3.1
20	3.0	4.0	3.5	2.1	2.1	4.2	9.9	57	25	4.3	2.5	2.7
21	3.0	4.0	3.3	2.1	2.0	4.2	12	50	25	3.8	2.1	2.5
22	4.1	4.0	3.1	2.1	2.0	4.2	13	44	24	3.1	2.4	2.2
23	3.3	4.1	3.1	2.1	2.1	3.9	14	44	18	2.9	2.6	2.0
24	3.7	4.3	3.1	2.1	2.1	5.5	19	43	18	2.9	2.1	2.0
25	5.0	4.3	3.1	2.0	2.1	3.7	25	44	17	2.8	1.8	2.1
26	12	4.3	3.0	2.0	2.5	3.9	20	43	17	2.6	1.7	2.0
27	10	4.3	2.9	2.0	2.8	3.7	20	46	15	2.3	1.7	1.9
28	6.7	4.0	2.8	2.0	3.5	3.6	17	51	14	2.2	1.5	1.7
29	6.1	3.8	2.7	2.0	3.7	3.6	16	47	14	2.4	1.3	1.6
30	6.1	3.7	2.6	2.0	---	3.7	18	43	17	3.1	1.2	1.6
31	5.5	---	2.5	2.0	---	4.0	---	39	---	3.3	1.1	---
TOTAL	120.0	146.4	107.7	68.7	64.9	108.5	358.6	1493	748	172.4	72.1	73.38
MEAN	3.87	4.88	3.47	2.22	2.24	3.50	12.0	48.2	24.9	5.56	2.33	2.45
MAX	12	8.2	4.3	2.5	3.7	5.5	25	67	39	13	4.2	8.9
MIN	2.1	3.7	2.5	2.0	2.0	2.6	4.5	22	14	2.2	1.1	.71
AC-FT	238	290	214	136	129	215	711	2960	1480	342	143	146
CAL YR 1975 TOTAL	6236.70											
WTR YR 1976 TOTAL	3533.68											
MEAN 17.1												
MAX 138												
MIN 1.7												
AC-FT 12370												
MEAN 9.65												
MAX 67												
MIN .71												
AC-FT 7010												

Peak discharge (base, 60 ft³/s).--May 14 (1600) 85 ft³/s (2.61 ft).

10244950 Steptoe Creek near Ely, Nev.--Continued

WATER-QUALITY RECORDS

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

Water temperatures: October 1966 to current year.

Biological data: October 1974 to current year.

Sediment records: February 1968 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 348 micromhos Dec. 18; minimum, 276 micromhos May 20.

Water temperature: Maximum daily, 11.0°C May 10-14, Aug. 20, 25, 26; minimum daily, 3.5°C Feb. 15.

Suspended-sediment concentration: Maximum, 142 mg/l Mar. 17.

Period of record:

Specific conductance: Maximum, 403 micromhos May 18, 1975; minimum, 249 micromhos Jan. 27, 1971.

Water temperature: Maximum daily, 11.0°C on many days in May, July, and August of most years; minimum daily, 2.5°C Dec. 9, 1972.

Suspended-sediment concentration: Maximum, 810 mg/l May 18, 1975; minimum (1968-75), 3 mg/l Aug. 21, 1973, Aug. 20, 1974, Oct. 1, 1974.

REMARKS.--Extremes for sediment concentration (through Sept. 1975) and specific conductance are based on monthly data; extremes for water temperature are based on data from a continuous-recording thermograph. Since September 1975, suspended-sediment samples have been collected only at times of noticeable turbidity or high discharge.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.									
29...	1020	5.7	--	--	--	--	--	--	--
DEC.									
18...	1330	5.3	6.7	54	11	1.9	.6	--	--
JAN.									
15...	1435	4.5	--	--	--	--	--	--	--
FEB.									
19...	1000	3.7	--	--	--	--	--	--	--
MAR.									
17...	1345	4.1	6.3	55	11	2.1	.7	203	.5
APR.									
21...	1000	4.4	--	--	--	--	--	--	--
MAY									
20...	1100	9.2	6.9	51	7.8	1.7	.4	175	--
JUNE									
23...	1140	5.9	--	--	--	--	--	--	--
JULY									
22...	1130	5.2	--	--	--	--	--	--	--
AUG.									
19...	1640	4.0	6.0	49	11	1.5	.5	188	2
SEP.									
23...	1110	4.4	--	--	--	--	--	--	--

DATE	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT.									
29...	--	--	--	.11	.00	.02	--	--	--
DEC.									
18...	8.2	1.1	.1	.18	.00	.00	--	--	--
JAN.									
15...	--	--	--	.19	.00	.00	--	--	--
FEB.									
19...	--	--	--	.19	.00	.01	--	--	--
MAR.									
17...	7.9	.9	.1	.16	.00	--	178	189	1.97
APR.									
21...	--	--	--	.15	.00	.01	--	--	--
MAY									
20...	7.6	.9	.1	.12	.01	.02	152	163	3.78
JUNE									
23...	--	--	--	.13	.00	.00	--	--	--
JULY									
22...	--	--	--	.15	.00	.00	--	--	--
AUG.									
19...	7.8	1.0	.1	.11	.01	.01	155	173	1.67
SEP.									
23...	--	--	--	.14	.01	.00	--	--	--

STEPTOE VALLEY BASIN

10244950 Steptoe Creek near Ely, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 29...	--	--	314	--	6.0	--	30	0	6
DEC. 18...	180	.1	348	8.9	5.5	9.6	100	0	2
JAN. 15...	--	--	321	--	6.0	--	1	0	6
FEB. 19...	--	--	329	--	5.0	--	36	0	23
MAR. 17...	180	.1	334	8.7	7.0	9.1	99	0	11
APR. 21...	--	--	323	--	6.5	--	66	0	0
MAY 20...	160	.1	276	--	7.5	9.1	290	0	3
JUNE 23...	--	--	293	--	7.5	--	5	0	121
JULY 22...	--	--	285	--	8.0	--	14	3	25
AUG. 19...	170	.1	296	8.4	9.5	8.8	19	2	18
SEP. 23...	--	--	285	--	7.5	--	120	2	8

DATE	TIME	TOTAL CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
MAY 20...	1100	--	1	--	0	10	<10
AUG. 19...	1640	.00	1	0	<10	0	10

DATE	TOTAL IRON (FF) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANG- NESE (MN) (UG/L)	TOTAL MERCURY (MG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 20...	170	0	20	.1	0	10
AUG. 19...	100	<100	0	.0	0	10

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
OCT. 29...	1020	<1.2	<.4	3.6	<.4	2.8	<.4	.04	.40

STEPTOE VALLEY BASIN

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10244950 Steptoe Creek near Ely, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
May 20	1215	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Naviculaceae			
		Navicula	9	2	
		Nitzschiaceae			
		Nitzschia	9	2	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	460	96	
		TOTAL	480		
Aug 19	1640	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		Chodatella	3	17	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Cocconeis	3	17	
		Cymbellaceae			
		Cymbella	3	17	
		Naviculaceae			
		Navicula	10	50	
		TOTAL	21		

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT CHARGE (MG/L)	SUS- PENDED SEDI- MENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAY 17...	1350	4.1	147	1.6	58	81	91	96	97	98	99	100
MAY 20...	1215	9.2	22	.55	--	--	--	--	--	--	--	--

10244950 Steptoe Creek near Ely, Nev.--Continued

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

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	6.5	5.0	6.0	5.5	5.0	4.5	6.0	5.0	5.5	4.0
2	8.0	6.5	6.5	5.0	6.0	5.5	5.0	4.5	5.5	4.5	5.5	4.5
3	8.0	6.5	6.5	5.5	6.0	5.5	5.5	5.0	5.5	5.0	5.5	4.5
4	8.5	7.0	6.5	5.5	6.0	5.5	5.5	5.0	5.0	4.5	5.0	4.0
5	8.5	7.0	6.5	5.5	6.0	5.5	6.0	5.0	4.5	4.0	5.5	4.0
6	8.0	7.0	6.5	5.5	6.0	5.5	5.0	5.0	5.0	4.5	5.5	4.0
7	7.0	6.0	6.5	5.5	6.0	5.5	5.5	5.0	5.5	5.0	5.5	4.5
8	7.0	5.5	6.5	5.0	6.0	5.5	6.0	5.0	5.5	5.5	5.5	4.5
9	7.0	6.0	5.0	4.5	6.0	5.5	6.0	5.5	5.5	5.0	6.0	4.5
10	8.0	6.5	5.5	5.0	6.5	6.0	5.5	5.0	5.5	5.0	6.5	4.5
11	7.0	6.5	5.0	4.5	6.0	5.5	6.0	5.0	5.5	4.5	5.0	4.5
12	6.5	6.0	5.5	4.5	6.0	5.0	5.5	5.0	5.5	4.5	5.5	4.5
13	6.5	6.0	5.5	4.5	5.5	5.0	5.5	5.0	5.5	5.0	5.5	4.5
14	7.0	6.0	6.0	5.0	5.5	5.0	5.5	5.0	6.0	5.0	6.0	5.0
15	7.0	6.0	6.0	5.0	6.0	5.0	6.0	5.5	5.5	3.5	6.0	4.5
16	7.5	6.0	6.5	5.5	6.0	5.0	6.0	5.5	5.5	4.5	6.0	5.0
17	7.5	6.5	6.0	5.5	5.5	5.0	6.0	6.0	5.5	4.5	7.0	5.0
18	7.5	6.0	5.5	5.0	5.5	5.0	6.0	5.5	5.5	4.5	6.5	5.0
19	7.5	6.0	6.0	5.0	5.5	5.0	5.5	5.0	5.5	4.5	5.5	4.5
20	7.5	6.0	6.0	5.0	5.5	5.0	5.5	5.0	5.0	4.5	6.5	4.5
21	8.0	6.5	5.5	5.0	6.0	5.5	5.5	5.0	5.5	4.0	6.5	5.0
22	7.0	6.0	6.0	5.0	6.0	5.0	5.5	5.0	5.5	4.5	7.0	5.0
23	6.0	5.5	6.0	5.5	5.5	5.0	5.5	5.0	5.5	4.5	7.5	5.0
24	6.0	5.0	6.0	5.0	5.5	5.0	5.5	5.0	6.0	5.0	7.5	5.0
25	6.5	5.0	5.5	5.0	5.5	5.0	5.5	5.0	5.5	5.0	6.0	4.5
26	6.5	6.0	6.0	5.0	6.0	5.0	5.5	5.0	6.0	5.0	6.5	5.0
27	6.5	5.5	6.0	5.5	6.0	5.5	5.5	5.0	6.5	5.0	6.0	4.5
28	7.0	5.5	5.5	5.0	5.5	5.0	6.0	5.5	6.5	5.0	6.0	4.5
29	6.5	5.5	5.0	5.0	5.5	5.0	6.0	5.5	6.0	5.5	6.0	4.5
30	6.0	5.5	5.5	5.0	5.5	5.0	6.0	5.5	---	---	7.0	4.5
31	6.5	5.5	---	---	5.0	4.5	6.0	5.0	---	---	8.0	5.0
MONTH	8.5	5.0	6.5	4.5	6.5	4.5	6.0	4.5	6.5	3.5	8.0	4.5

[illegible]

LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS

77

10245800 Newark Valley tributary near Hamilton, Nev.

LOCATION.--Lat 39°25'00", long 115°37'52", in S½NE¼ sec. 23, T.18 N., R.56 E., White Pine County, on left bank above culvert on U.S. Highway 50, 3.5 mi (5.6 km) east of Pancake Summit, 14 mi (23 km) northwest of Hamilton, and 19 mi (31 km) east of Eureka.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--Water year 1962 (annual maximum), August 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 6,120 ft (1,865 m), from topographic map. October 1961 to August 1962, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 0.125 ft³/s (0.0035 m³/s), 91 acre-ft/yr (112,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 10 ft³/s (0.28 m³/s), July 31, gage height, 1.07 ft (0.326 m); no flow most of the year.

Period of record: Maximum discharge, 238 ft³/s (6.74 m³/s) July 31, 1968, by slope-area measurement of peak flow, gage height 4.55 ft (1.387 m); no flow most of the time.

REMARKS.--Records of flow fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0				0					0	0	
2	0				0					0	0	
3	0				0					0	0	
4	0				0					0	0	
5	0				0					0	0	
6	0				0					0	0	
7	0				0					0	0	
8	0				0					0	0	
9	0				0					0	0	
10	1.1				0					0	0	
11	.40				0					0	0	
12	0				0					0	0	
13	0				0					0	0	
14	0				0					0	0	
15	0				0					0	0	
16	0				0					0	0	
17	0				0					0	0	
18	0				.10					0	0	
19	0				.40					0	0	
20	0				.20					0	0	
21	0				.20					0	0	
22	0				1.5					0	.10	
23	0				3.0					0	0	
24	0				2.0					0	0	
25	0				.30					0	0	
26	0				.50					0	0	
27	0				.10					0	0	
28	0				0					0	0	
29	0				0					.17	0	
30	0				---					0	0	
31	0	---			---		---		---	.83	0	---
TOTAL	1.50	0	0	0	8.30	0	0	0	0	1.00	.10	0
MEAN	.048	0	0	0	.29	0	0	0	0	.032	.003	0
MAX	1.1	0	0	0	3.0	0	0	0	0	.83	.10	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	3.0	0	0	0	16	0	0	0	0	2.0	.2	0

CAL YR 1975 TOTAL 35.43 MEAN .097 MAX 11 MIN 0 AC-FT 70
WTR YR 1976 TOTAL 10.90 MEAN .030 MAX 3.0 MIN 0 AC-FT 22

Peak discharge (base, 10 ft³/s).--July 31 (1600) 10 ft³/s (1.07 ft).

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246846 Little Currant Creek near Currant, Nev.

LOCATION.--Lat 38°50'50", long 115°22'00", in NE¼NW¼ sec.5, T.11 N., R.59 E., Nye County, on right bank 0.2 mi (0.3 km) upstream from reservoir diversion, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) northeast of Currant.

DRAINAGE AREA.--12.9 mi² (33.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

AVERAGE DISCHARGE.--12 years, 2.80 ft³/s (0.0793 m³/s), 2,030 acre-ft/yr (2.50 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5.8 ft³/s (0.164 m³/s) May 23, 24, gage height, 1.42 ft (0.433 m); maximum gage height, 1.43 ft (0.437 m) Mar. 4 (backwater from ice); no flow Aug. 25 to Sept. 15.

Period of record: Maximum discharge, 366 ft³/s (10.4 m³/s) Dec. 6, 1966, gage height 4.1 ft (1.25 m), from floodmarks, from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of peak flow; no flow occurs most years.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	.57	.49	.27	.28	.41	.57	1.5	5.1	.60	.30	0
2	.51	.56	.37	.25	.30	.40	.55	1.7	4.8	.57	.33	0
3	.51	.55	.41	.28	.32	.45	.57	2.0	4.7	.53	.28	0
4	.51	.53	.44	.26	.30	.37	.59	2.3	4.6	.49	.25	0
5	.53	.53	.44	.29	.28	.36	.64	2.7	4.3	.46	.23	0
6	.52	.53	.44	.28	.30	.36	.65	3.0	4.1	.43	.18	0
7	.65	.52	.44	.26	.33	.38	.64	3.1	3.9	.41	.16	0
8	.60	.51	.44	.28	.28	.40	.67	3.1	3.7	.37	.15	0
9	.60	.52	.44	.30	.30	.38	.65	3.0	3.4	.35	.12	0
10	.59	.55	.44	.28	.30	.41	.65	3.0	3.1	.33	.10	0
11	.63	.49	.42	.28	.30	.43	.68	3.3	2.7	.30	.08	0
12	.65	.51	.44	.28	.33	.42	.69	3.5	2.4	.29	.06	0
13	.67	.56	.37	.26	.35	.45	.75	3.8	2.1	.28	.05	0
14	.65	.50	.30	.29	.33	.45	.73	4.2	1.9	.26	.04	0
15	.61	.54	.29	.26	.32	.47	.67	4.8	1.7	.21	.09	0
16	.59	.53	.29	.26	.32	.49	.62	5.1	1.6	.22	.07	.01
17	.58	.54	.39	.26	.36	.49	.65	5.4	1.5	.40	.05	.01
18	.58	.49	.41	.26	.32	.49	.69	5.4	1.4	.34	.04	.08
19	.57	.44	.39	.27	.31	.52	.65	5.6	1.3	.31	.06	.07
20	.55	.56	.37	.30	.30	.49	.62	5.6	1.3	.29	.04	.04
21	.56	.54	.32	.31	.28	.51	.63	5.6	1.2	.25	.02	.01
22	.50	.48	.33	.31	.26	.53	.69	5.7	1.2	.25	.01	.24
23	.56	.49	.34	.30	.34	.52	.78	5.8	1.1	.22	.01	.48
24	.47	.39	.38	.26	.28	.55	.88	5.8	1.0	.22	.01	.47
25	.55	.35	.39	.51	.26	.55	1.1	5.7	.94	.27	0	.43
26	.59	.43	.36	.29	.29	.54	1.3	5.6	.86	.28	0	.37
27	.55	.48	.34	.29	.32	.63	1.4	5.6	.83	.24	0	.33
28	.58	.45	.38	.23	.35	.57	1.4	5.6	.77	.21	0	.30
29	.57	.43	.40	.15	.37	.58	1.4	5.5	.74	.25	0	.27
30	.55	.45	.34	.16	---	.55	1.4	5.5	.68	.25	0	.25
31	.55	---	.30	.21	---	.58	---	5.3	---	.35	0	---
TOTAL	17.64	15.02	11.90	8.49	8.98	14.73	23.91	133.8	68.92	10.23	2.73	3.36
MEAN	.57	.50	.38	.27	.31	.48	.80	4.32	2.30	.33	.088	.11
MAX	.67	.57	.49	.51	.37	.63	1.4	5.8	5.1	.60	.33	.48
MIN	.47	.35	.29	.15	.26	.36	.55	1.5	.68	.21	0	0
AC-FT	35	30	24	17	18	29	47	265	137	20	5.4	6.7
CAL YR 1975 TOTAL	1161.82			MEAN 3.18	MAX 27	MIN 0	AC-FT 2300					
WTR YR 1976 TOTAL	319.71			MEAN .87	MAX 5.8	MIN 0	AC-FT 634					

PENoyer (SAND SPRING) VALLEY

79

10247860 Penoyer Valley tributary near Tempiute, Nev.

LOCATION.--Lat 37°35'07", long 115°40'48", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.4 S., R.56 E., Lincoln County, on left bank upstream side of culvert on State Highway 25, one mi (1.6 km) northwest of Coyote Summit, and 5.3 mi (8.5 km) south of Tempiute.

DRAINAGE AREA.--1.48 mi² (3.83 km²).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 5,480 ft (1,670 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on right bank) and datum.

AVERAGE DISCHARGE.--11 years, 0.002 ft³/s (0.0001 m³/s), 1.4 acre-ft/yr (1,730 m³/yr).

EXTREMES.--Current year: Maximum discharge, 0.60 ft³/s (0.02 m³/s) Sept. 11, gage height, 3.11 ft (0.948 m), no flow most of year.

Period of record: Maximum discharge, 130 ft³/s (3.68 m³/s) Aug. 6, 1968, gage height, 6.36 ft (1.938 m) from floodmarks, from indirect measurement of peak flow; no flow most of the time.

REVISIONS.--The maximum instantaneous discharge for the water year 1975 was 2.0 ft³/s (0.057 m³/s) about Sept. 10, gage height, 2.89 ft (0.881 m).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												0
11												.03
12												0
13												0
14												0
15												0
16												0
17												0
18												0
19												0
20												0
21												0
22												0
23												0
24												0
25												0
26												0
27												0
28												0
29												0
30												0
31		---			---		---		---			---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	.03
MEAN	0	0	0	0	0	0	0	0	0	0	0	.001
MAX	0	0	0	0	0	0	0	0	0	0	0	.03
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	.06
CAL YR 1975	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0		
WTR YR 1976	TOTAL	0.03	MEAN	.0001	MAX	.03	MIN	0	AC-FT	.06		

ELDORADO VALLEY

10248510 Eldorado Valley tributary near Nelson, Nev.

LOCATION.--Lat 35°48'35", long 114°53'05", in E½SE¼SE¼ sec.36, T.24 S., R.63 E., Clark County, on right bank upstream side of culvert on State Highway 60 and 8 mi (13 km) northwest of Nelson.

DRAINAGE AREA.--1.41 mi² (2.59 km²).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 2,470 ft (753 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on left bank) and datum.

AVERAGE DISCHARGE.--11 years, 0.008 ft³/s (0.0002 m³/s), 5.8 acre-ft/yr (7,150 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 530 ft³/s (15.0 m³/s) Aug. 4, 1970, gage height of pond, 9.00 ft (2.743 m); no flow most of the time.

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

BIG SMOKY VALLEY (NORTHERN PART)

81

10249280 Kingston Creek below Cougar Canyon, near Austin, Nev.

LOCATION.--Lat 39°12'45", long 117°06'45", in NW¼ sec.35, T.16 N., R.43 E., Lander County, on left bank 1.1 mi (1.8 km) downstream from Cougar Canyon and 19 mi (31 km) southeast of Austin.

DRAINAGE AREA.--23.4 mi² (60.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft (1,975 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 8.54 ft³/s (0.242 m³/s), 6,190 acre-ft/yr (7.63 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11 ft³/s (0.31 m³/s) Oct. 7, gage height, 2.02 ft (0.616 m); minimum, 4.0 ft³/s (0.113 m³/s) Apr. 16.

Period of record: Maximum discharge, 150 ft³/s (4.25 m³/s) May 18, 1973, gage height, 3.58 ft (1.091 m), on basis of indirect measurement of peak flow; minimum, 1.4 ft³/s (0.040 m³/s) Aug. 24, 1972.

REMARKS.--Records good. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft (234,000 m³) about 4 mi (6 km) upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.6	7.9	6.2	5.2	4.5	5.0	5.0	7.3	8.2	7.0	6.0
2	10	9.6	7.6	5.7	5.2	4.4	5.0	5.2	7.0	8.2	6.7	6.0
3	9.6	9.6	7.6	5.9	5.2	4.4	5.0	5.2	6.7	8.2	6.4	6.0
4	9.6	9.2	7.6	5.9	5.4	4.4	5.0	5.2	7.0	7.9	6.4	5.7
5	9.6	9.2	7.6	6.2	5.2	4.5	5.0	5.2	7.6	7.9	6.4	5.6
6	9.6	9.2	7.6	5.9	5.2	4.5	5.2	5.4	7.3	7.9	6.4	6.0
7	10	9.2	7.6	5.9	5.2	4.7	5.0	5.4	7.3	7.6	6.4	7.0
8	10	9.2	7.3	5.9	5.2	4.8	5.0	5.7	7.6	7.6	6.2	7.0
9	10	9.2	7.3	5.9	5.2	4.8	5.0	5.7	7.6	7.3	6.4	7.0
10	9.6	9.2	7.3	5.9	5.2	4.7	5.0	5.7	7.6	7.3	6.4	7.0
11	10	8.9	7.3	5.9	5.0	4.6	4.8	5.9	7.3	7.3	6.4	7.3
12	9.6	8.9	7.3	5.9	4.8	4.5	5.0	5.9	7.3	7.0	6.4	7.9
13	9.2	8.9	7.3	6.2	4.8	4.5	5.0	6.2	7.3	7.0	6.4	7.9
14	9.2	8.5	7.0	6.2	4.8	4.5	5.0	6.2	7.6	7.0	6.4	8.0
15	8.6	8.5	7.0	6.2	4.8	4.8	5.0	6.2	7.6	7.0	6.7	8.6
16	8.9	8.5	7.0	6.2	4.8	5.0	4.5	6.5	7.6	7.3	6.7	8.2
17	8.9	8.2	6.7	6.2	4.8	5.0	5.0	6.7	7.6	7.6	6.4	7.6
18	8.6	8.2	6.7	6.2	4.5	5.2	5.0	7.0	7.9	7.3	6.2	6.8
19	8.9	8.2	6.7	5.7	4.6	5.0	4.8	7.3	7.9	7.3	6.2	6.1
20	8.6	7.9	6.7	5.7	4.6	5.0	4.8	7.3	7.9	7.3	6.2	5.7
21	8.9	7.9	6.7	5.7	4.3	5.2	5.0	7.0	7.9	7.1	6.6	5.5
22	9.2	7.9	6.5	5.7	4.5	5.2	5.0	6.7	7.9	7.3	7.2	5.3
23	9.2	7.9	6.5	5.7	4.5	5.2	5.0	7.0	7.9	7.3	6.8	5.2
24	8.9	7.9	6.5	5.7	4.8	5.0	5.0	6.7	7.9	7.3	6.6	5.1
25	8.6	7.9	6.5	5.7	4.8	5.0	5.0	6.5	7.6	7.3	6.5	5.1
26	8.9	7.9	6.5	5.7	4.7	4.8	4.8	6.2	7.6	7.0	6.3	5.1
27	8.9	7.9	6.5	5.7	4.5	5.0	4.8	7.0	7.6	7.0	6.3	5.3
28	9.9	8.2	6.5	5.7	4.6	5.0	5.0	6.7	8.2	7.0	6.2	5.3
29	9.9	7.9	6.2	5.7	4.6	5.0	5.0	6.5	8.2	7.0	6.1	5.3
30	9.9	7.9	6.2	5.7	---	5.0	5.0	6.7	8.2	7.3	6.1	5.2
31	9.9	---	6.4	5.4	---	4.8	---	7.0	---	7.3	6.1	---
TOTAL	290.7	257.2	216.1	182.2	141.0	149.0	148.7	192.9	228.0	229.1	199.5	189.8
MEAN	9.38	8.57	6.97	5.88	4.86	4.81	4.96	6.22	7.60	7.39	6.44	6.33
MAX	10	9.6	7.9	6.2	5.4	5.2	5.2	7.3	8.2	8.2	7.2	8.6
MIN	8.6	7.9	6.2	5.4	4.3	4.4	4.5	5.0	6.7	7.0	6.1	5.1
AC-FT	577	510	429	361	280	296	295	383	452	454	396	376

CAL YR 1975 TOTAL 5972.5 MEAN 16.4 MAX 107 MIN 2.5 AC-FT 11850
WTR YR 1976 TOTAL 2424.2 MEAN 6.62 MAX 10 MIN 4.3 AC-FT 4810

BIG SMOKY VALLEY (NORTHERN PART)

10249300 South Twin River near Round Mountain, Nev.
(Hydrologic bench-mark station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW 1/4 sec. 22, T.12 N., R.42 E., Nye County, on right bank 600 ft (180 m) upstream from diversion, 3 mi (5 km) west of State Highway 8A, and 15 mi (24 km) northwest of Round Mountain.

DRAINAGE AREA.--20 mi² (52 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), August 1965 to current year.

GAGE.--Water-stage recorder with thermograph attachment. Altitude of gage is 6,400 ft (1,951 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 5.95 ft³/s (0.168 m³/s), 4,310 acre-ft/yr (5.31 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 24 ft³/s (0.68 m³/s) May 18, gage height, 2.44 ft (0.744 m); minimum, 0.82 ft³/s (0.023 m³/s) Feb. 7.

Period of record: Maximum discharge, 128 ft³/s (3.62 m³/s) June 3, 1975, gage height, 3.69 ft (1.125 m); minimum, 0.11 ft³/s (0.003 m³/s) Sept. 4, 1972.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.8	2.3	1.9	2.1	4.3	3.6	8.8	12	3.3	5.6	1.3
2	2.6	2.8	2.5	1.8	2.1	3.5	3.6	11	11	3.2	5.1	1.3
3	2.5	2.7	2.4	1.9	2.1	3.3	3.9	13	10	3.1	4.3	1.3
4	2.5	2.7	2.4	2.3	2.1	3.0	4.0	13	9.8	2.8	3.7	1.3
5	2.5	2.6	2.3	2.6	2.0	2.8	4.0	14	9.0	2.7	3.3	1.3
6	2.5	2.6	2.3	2.5	1.6	3.0	4.0	14	8.5	2.6	3.0	1.5
7	3.3	2.6	2.3	2.6	1.6	3.1	4.0	13	8.3	2.6	2.8	1.6
8	3.2	2.6	2.3	2.5	2.6	3.2	4.3	14	8.1	2.5	2.6	1.5
9	3.1	2.4	2.3	2.5	2.7	3.5	4.2	14	7.6	2.4	2.5	1.4
10	3.0	2.4	2.2	2.5	2.5	3.7	4.3	15	7.8	2.3	2.3	1.7
11	3.5	2.2	2.2	2.5	2.7	3.7	4.3	17	7.6	2.2	2.2	5.5
12	3.5	2.3	2.2	2.5	2.7	3.5	4.2	18	7.0	2.2	2.1	7.4
13	3.5	2.4	1.6	2.5	2.7	3.7	4.2	19	6.6	2.1	2.0	5.3
14	3.3	2.4	1.5	2.5	3.1	3.7	4.3	21	6.4	2.0	2.0	4.8
15	3.1	2.4	1.6	2.5	3.1	3.7	4.5	22	6.0	2.2	2.1	12
16	3.0	2.4	1.7	2.5	3.0	4.0	4.0	22	5.6	2.8	2.1	15
17	2.8	2.4	1.9	2.5	3.0	4.3	4.2	22	5.3	3.3	1.9	10
18	2.8	2.2	2.1	2.5	3.0	4.8	4.5	23	5.1	3.2	1.8	7.8
19	2.8	1.9	2.3	2.4	3.0	4.6	4.5	23	4.8	3.5	1.9	6.8
20	2.7	2.0	2.4	2.4	3.0	4.2	5.1	22	4.6	3.5	1.7	5.8
21	2.7	2.3	2.2	2.4	3.0	4.2	6.2	21	4.6	2.7	1.6	5.3
22	2.8	2.2	2.2	2.3	2.8	4.2	7.0	19	4.8	2.4	3.0	4.8
23	3.0	2.4	2.2	2.3	2.8	4.0	7.6	18	4.5	2.3	3.0	4.3
24	2.7	2.3	2.2	2.2	2.8	4.2	8.5	17	4.3	2.3	2.3	4.0
25	2.7	2.2	2.1	2.1	3.0	4.2	9.8	15	4.0	2.3	2.0	3.7
26	2.7	2.3	2.1	2.2	3.2	3.9	9.2	15	3.9	2.3	1.9	3.6
27	2.8	2.3	2.1	2.1	3.5	3.9	8.5	14	3.9	2.4	1.8	3.5
28	2.7	2.4	2.1	2.0	4.2	3.7	7.8	14	3.6	2.2	1.6	3.3
29	2.7	2.0	2.1	2.0	4.5	3.5	7.4	13	3.5	2.5	1.6	3.3
30	2.8	1.9	2.1	2.0	---	3.3	7.6	13	3.3	3.3	1.5	3.1
31	3.0	---	2.0	2.0	---	3.6	---	12	---	6.0	1.4	---
TOTAL	89.4	71.1	66.2	71.5	80.5	116.3	163.3	509.8	191.5	85.2	76.7	133.5
MEAN	2.88	2.37	2.14	2.31	2.78	3.75	5.44	16.4	6.38	2.75	2.47	4.45
MAX	3.5	2.8	2.5	2.6	4.5	4.8	9.8	23	12	6.0	5.6	15
MIN	2.5	1.9	1.5	1.8	1.6	2.8	3.6	8.8	3.3	2.0	1.4	1.3
AC-FT	177	141	131	142	160	231	324	1010	380	169	152	265

CAL YR 1975 TOTAL 4699.8 MEAN 12.9 MAX 108 MIN 1.5 AC-FT 9320
WTR YR 1976 TOTAL 1655.0 MEAN 4.52 MAX 23 MIN 1.3 AC-FT 3280

Peak discharge (base, 20 ft³/s).--May 18 (0200) 24 ft³/s (2.44 ft); Sept. 15 (2400) 20 ft³/s (2.39 ft).

10249300 South Twin River near Round Mountain, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses and sediment records: October 1967 to current year.

Water temperatures: July 1965 to current year. (Data prior to April 1966, which were collected monthly, are unpublished.

Period of record for continuous-recording thermograph, April 1966 to Sept. 1968, Nov. 1969 to current year; intervening measurements were monthly.)

Biological data: July 1970 to July 1973, October 1974 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 141 micromhos Oct. 27, Dec. 16; minimum, 98 micromhos May 18.

Water temperature: Maximum daily, 17.5°C July 11; minimum daily, 1.0°C on several days during November to February.

Suspended-sediment concentration: Maximum, 20 mg/l May 18.

Period of record:

Specific conductance: Maximum, 158 micromhos May 8, 1975; minimum, 75 micromhos June 16, 1971.

Water temperature (1966-68, 1969 to current year): Maximum daily, 17.5°C July 11, 1976; minimum daily, freezing point on several days in many years.

Suspended-sediment concentration: Maximum, 1,970 mg/l June 5, 1975; minimum (1967-75), 0 mg/l July 26, 1973, Aug. 23, 1973.

REMARKS.--Extremes for sediment concentration (through Sept. 1975) and specific conductance are based on monthly data; extremes for water temperature are based on data from a continuous-recording thermograph. Since September 1975, suspended-sediment samples have been collected only at times of noticeable turbidity or high discharge.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILTCA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.									
27...	1435	2.8	--	--	--	--	--	--	--
DEC.									
16...	1630	2.8	18	19	2.1	6.0	.8	75	0
JAN.									
13...	1505	2.5	--	--	--	--	--	--	--
FEB.									
17...	1530	3.0	--	--	--	--	--	--	--
MAR.									
15...	1630	3.9	17	20	2.0	6.5	.9	74	0
APR.									
19...	1600	4.3	--	--	--	--	--	--	--
MAY									
18...	1705	22	19	12	.8	5.2	.8	46	--
JUNF.									
22...	1500	4.9	--	--	--	--	--	--	--
JULY									
21...	1400	2.8	--	--	--	--	--	--	--
AUG.									
17...	1600	1.8	20	20	1.8	6.7	.9	78	0
SEP.									
21...	1555	5.1	--	--	--	--	--	--	--

DATE	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT.									
27...	--	--	--	.01	.00	.03	--	--	--
DEC.									
16...	6.4	1.8	.1	.04	.00	.00	92	91	.70
JAN.									
13...	--	--	--	.06	.00	.00	--	--	--
FEB.									
17...	--	--	--	.09	.00	.00	--	--	--
MAR.									
15...	7.7	1.8	.1	.07	.00	.01	83	92	.87
APR.									
19...	--	--	--	.04	.00	.01	--	--	--
MAY									
18...	3.8	1.5	.1	.08	.00	.01	84	66	4.99
JUNF.									
22...	--	--	--	.00	.00	.00	--	--	--
JULY									
21...	--	--	--	.00	.00	.00	--	--	--
AUG.									
17...	8.1	1.7	.2	.02	.01	.01	91	99	.44
SEP.									
21...	--	--	--	.00	.01	.00	--	--	--

BIG SMOKY VALLEY (NORTHERN PART)

10249300 South Twin River near Round Mountain, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	TOTAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 27...	--	--	141	--	5.0	--	0	1	440
DEC. 16...	56	.3	141	8.4	1.0	11.9	2	0	7
JAN. 13...	--	--	136	--	1.5	--	0	0	5
FEB. 17...	--	--	138	--	2.5	--	0	0	7
MAR. 15...	58	.4	140	8.2	4.5	10.4	6	0	4
APR. 19...	--	--	140	--	8.5	--	0	0	0
MAY 18...	33	.4	98	--	11.0	8.8	70	10	30
JUNE 22...	--	--	108	--	11.5	--	70	810	168
JULY 21...	--	--	123	--	14.0	--	30	10	32
AUG. 17...	57	.4	137	8.3	12.0	8.4	23	0	13
SEP. 21...	--	--	138	--	10.0	--	37	6	24

B: NON-IDEAL COLONY COUNT

DATE	TIME	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
MAY 18...	1705	.00	3	100	0	<10	<10
AUG. 17...	1600	.00	3	0	<10	0	10

DATE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 18...	480	<100	10	--	1	20
AUG. 17...	180	<100	0	.0	0	10

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
OCT. 27...	1435	4.9	<.4	2.1	.5	1.7	.5	.01	2.2

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 27...	1435	.00	.0	.0	0	.04	.0	.03	.0	.42	.0	.00

BIG SMOKY VALLEY (NORTHERN PART)

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10249300 South Twin River near Round Mountain, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN MA- TERTIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN MA- TERTIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN MA- TERTIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN MA- TERTIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN MA- TERTIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT, 27...	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCR (UG/L)	PCR IN MA- TERTIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN MA- TERTIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT, 27...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.00

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
May 18	1705	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthes	140	25	
		Cocconeis	75	14	
		Cymbellaceae			
		Cymbella	25	5	
		Rhopalodia	12	2	
		Diatomaceae			
		Diatoma	12	2	
		Fragilariaceae			
		Fragilaria	99	18	
		Gomphonemataceae			
		Gomphonema	12	2	
		Naviculaceae			
		Navicula	99	18	
		Nitzschaceae			
		Nitzschia	12	2	
		Achnanthes			
		Rhoicosphenia	62	11	
		TOTAL	550		
Aug 17	1600	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthes	2	9	
		Cocconeis	16	64	
		Cymbellaceae			
		Amphora	2	9	
		Nitzschaceae			
		Nitzschia	2	9	
		Surirellaceae			
		Surirella	2	9	
		TOTAL	26		

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAY 18...	1530	22	20	1.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	5.0	4.0	4.0	2.0	1.0	1.0	2.5	2.0	4.0	2.0
2	10.0	8.5	5.0	4.5	4.0	3.5	1.0	1.0	2.5	2.0	2.0	1.5
3	10.0	9.0	5.0	4.5	3.5	3.5	1.0	1.0	2.0	1.5	1.5	1.5
4	10.5	9.0	5.0	4.5	3.5	3.5	1.0	1.0	2.0	1.5	1.5	1.5
5	10.0	9.0	5.5	4.0	4.0	3.5	1.5	1.0	1.5	1.0	1.5	1.5
6	10.0	9.0	5.5	4.5	4.0	3.5	1.5	1.5	1.0	1.0	1.5	1.5
7	9.5	7.0	6.5	5.0	3.5	3.0	2.0	1.5	1.0	1.0	2.5	1.5
8	6.5	5.5	6.5	4.0	3.0	3.0	2.0	2.0	1.5	1.0	3.0	2.0
9	6.5	6.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0	1.5	4.0	3.0
10	7.5	6.5	3.0	3.0	4.0	3.5	2.0	2.0	2.0	1.5	4.5	3.0
11	7.5	7.0	3.0	2.0	4.0	3.5	2.0	2.0	1.5	1.0	4.0	2.0
12	7.0	6.0	2.5	2.0	3.5	2.5	2.0	2.0	2.0	1.0	3.0	2.0
13	6.0	5.5	2.5	2.0	2.5	1.0	2.0	1.5	2.0	2.0	5.0	2.0
14	5.5	5.0	4.0	2.5	1.0	1.0	2.0	1.5	2.5	2.0	5.0	3.5
15	6.0	5.0	4.5	3.5	1.0	1.0	2.0	2.0	2.5	2.5	4.5	3.0
16	6.5	6.0	4.5	4.0	1.0	1.0	2.5	2.0	2.5	2.0	5.0	4.0
17	7.0	6.5	4.5	3.0	1.0	1.0	2.5	2.5	2.5	2.0	6.0	4.0
18	7.0	6.5	3.0	1.5	1.5	1.5	2.5	2.5	2.5	2.5	5.5	4.0
19	7.0	6.5	1.5	1.5	1.5	1.5	2.5	1.5	2.5	1.5	4.0	2.5
20	7.0	6.5	1.5	1.5	2.0	1.5	1.5	1.0	1.5	1.0	4.0	2.0
21	7.5	6.5	1.5	1.5	2.0	2.0	1.0	1.0	1.0	1.0	5.0	2.5
22	7.5	5.5	2.0	1.5	2.0	2.0	1.5	1.0	2.0	1.0	4.5	3.0
23	5.0	4.0	2.5	2.0	2.0	2.0	2.0	1.5	2.5	2.0	5.5	3.5
24	4.0	3.0	2.5	2.5	2.0	2.0	2.0	1.5	3.0	2.5	6.0	3.5
25	5.0	3.0	2.5	2.5	2.0	2.0	1.5	1.0	3.5	2.5	5.0	2.0
26	6.5	5.0	2.5	2.0	2.5	2.0	1.5	1.0	3.5	3.0	4.5	2.0
27	6.5	4.5	2.5	2.5	3.0	2.5	2.0	1.5	4.0	3.0	4.5	3.5
28	4.5	3.0	2.5	1.5	3.0	2.5	2.5	2.0	4.5	4.0	4.0	3.0
29	5.0	4.0	1.5	1.0	2.5	2.5	2.5	2.5	4.0	3.5	5.0	2.5
30	5.0	5.0	2.0	1.0	2.5	1.5	2.5	2.5	---	---	6.0	2.5
31	5.0	4.5	---	---	1.5	1.0	2.5	2.0	---	---	6.5	3.5
MONTH	10.5	3.0	6.5	1.0	4.0	1.0	2.5	1.0	4.5	1.0	6.5	1.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	3.5	10.0	6.0	12.0	8.5	14.0	10.0	13.0	12.0	15.5	12.0
2	6.0	3.0	9.5	6.5	11.0	8.5	14.0	10.0	13.5	11.0	15.5	12.5
3	7.0	4.0	9.5	6.5	11.0	8.0	15.0	10.5	13.5	10.5	15.0	12.5
4	6.0	4.0	9.5	6.5	11.0	8.0	15.5	11.5	13.5	10.5	14.5	12.5
5	6.0	5.0	8.0	7.0	11.5	8.0	16.0	12.0	14.0	10.0	14.0	12.5
6	7.0	4.5	7.5	5.5	12.0	9.0	16.0	12.5	14.0	10.5	13.0	12.0
7	8.0	4.5	8.0	6.0	11.5	9.0	15.5	12.5	13.5	10.5	12.5	11.5
8	6.5	5.0	9.5	6.5	11.0	9.0	16.5	12.0	13.0	10.0	12.5	10.0
9	7.5	4.0	8.5	7.0	11.5	9.0	17.0	12.5	14.0	10.5	12.5	10.5
10	8.0	4.5	10.5	7.0	10.5	9.0	17.0	13.5	14.5	11.0	12.5	12.0
11	6.0	5.5	10.5	7.0	9.5	8.0	17.5	14.0	15.0	11.0	12.0	12.0
12	6.0	5.0	10.5	6.5	10.0	8.0	16.5	13.0	14.5	12.0	12.0	10.5
13	6.0	5.0	11.5	7.0	10.5	9.0	16.5	12.5	14.5	11.5	11.5	9.5
14	6.0	4.5	11.5	8.0	10.5	7.0	16.0	13.0	15.5	12.0	11.0	10.0
15	5.0	3.0	11.0	7.5	11.5	8.0	15.5	13.5	12.5	11.0	11.0	10.0
16	5.0	2.5	12.0	7.5	13.0	10.0	14.5	13.5	12.5	9.5	10.5	9.5
17	6.0	2.5	12.0	8.0	13.0	9.5	15.0	13.0	12.5	10.5	10.0	9.0
18	6.5	5.0	11.0	7.5	13.5	10.0	14.0	12.5	12.0	11.0	10.0	8.5
19	8.5	4.0	11.0	7.5	14.0	11.0	13.5	12.0	12.5	10.0	10.0	9.5
20	9.0	5.0	10.5	7.0	13.0	11.0	15.5	12.0	14.0	10.5	10.0	9.0
21	8.5	4.5	9.5	8.0	13.0	10.5	16.0	12.5	15.0	11.5	10.0	9.5
22	8.5	5.5	9.5	7.5	12.0	10.0	16.5	12.5	14.0	12.5	10.0	9.0
23	9.0	5.0	10.5	8.0	12.5	9.0	15.0	14.0	14.0	10.5	10.0	9.5
24	8.5	5.5	10.0	7.5	13.0	9.0	15.5	14.0	14.0	11.0	11.0	9.5
25	7.5	5.0	11.5	8.0	14.0	10.0	15.0	13.5	13.5	11.5	10.5	9.0
26	5.5	3.5	11.5	8.0	14.0	10.0	15.0	13.5	14.0	11.5	10.0	9.0
27	5.0	3.5	12.0	8.5	14.5	10.0	16.0	14.0	14.0	10.5	10.0	9.0
28	7.5	4.0	11.0	9.0	15.0	11.0	16.0	14.0	14.5	11.5	10.5	9.5
29	9.0	5.0	11.0	8.0	15.0	11.5	15.5	14.0	15.5	12.5	10.5	9.5
30	9.5	5.5	11.0	8.0	15.0	11.0	15.0	14.0	15.5	12.0	11.0	9.5
31	---	---	11.5	8.5	---	---	14.5	13.0	15.5	12.0	---	---
MONTH	9.5	2.5	12.0	5.5	15.0	7.0	17.5	10.0	15.5	9.5	15.5	8.5
YEAR	17.5	1.0										

SMITH CREEK VALLEY

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10249411 Campbell Creek tributary near Eastgate, Nev.

LOCATION.--Lat 39°15'58", long 117°41'56", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.9, T.16 N., R.38 E., Lander County, on left bank just upstream from culvert on State Highway 2, 1.5 mi (2.4 km) east of Lander County line, and 10 mi (16 km) east of Eastgate.

DRAINAGE AREA.--2.14 mi² (5.54 km²).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder with rain-gage attachment, and crest-stage gage. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 0.055 ft³/s (0.0016 m³/s), 40 acre-ft/yr (49,320 m³/yr).

EXTREMES.--Current year: Maximum discharge, 0.9 ft³/s (0.025 m³/s) Apr. 17, gage height, 1.28 ft (0.390 m); maximum gage height, 1.29 ft (0.393 m), backwater from ice; no flow most of the year.

Period of record: Maximum discharge, 179 ft³/s (5.07 m³/s) Aug. 24, 1961, gage height, 8.2 ft (2.50 m) from floodmarks, on basis of computations of flow through culvert; no flow most of the time.

REMARKS.--Records of flow poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	.10	0	0		
2	0						0	.10	0	0		
3	0						0	.10	0	.10		
4	0						0	0	0	.10		
5	0						0	0	0	.10		
6	0						0	.10	0	.10		
7	.10						0	0	0	0		
8	0						0	0	0	0		
9	0						0	0	0	0		
10	0						.10	0	0	0		
11	0						0	0	0	0		
12	0						.10	0	.10	0		
13	.10						.10	0	.10	0		
14	.10						.10	0	.10	0		
15	0						.10	0	.10	0		
16	0						.10	0	.10	0		
17	0						.10	0	.10	0		
18	0						.10	0	0	0		
19	0						.10	0	0	0		
20	0						.10	0	0	0		
21	0						.10	0	0	0		
22	0						.10	0	0	0		
23	0						.10	0	0	0		
24	0						.10	0	0	0		
25	0						.10	0	0	0		
26	0						.10	0	0	0		
27	0						.10	0	0	0		
28	0						.10	0	0	0		
29	0						.10	0	0	0		
30	0						.10	0	0	0		
31	0	---			---		---	0	---	0		---
TOTAL	.30	0	0	0	0	0	2.00	.40	.60	.40	0	0
MEAN	.010	0	0	0	0	0	.067	.013	.020	.013	0	0
MAX	.10	0	0	0	0	0	.10	.10	.10	.10	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.6	0	0	0	0	0	4.0	.8	1.2	.8	0	0
CAL YR 1975	TOTAL 40.70	MEAN .11	MAX .90	MIN 0	AC-FT 81							
WTR YR 1976	TOTAL 3.70	MEAN .010	MAX .10	MIN 0	AC-FT 7.3							

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 Chiatovich Creek near Dyer, Nev.
(National stream-quality accounting network station)

LOCATION.--Lat 37°50'00", long 118°12'10", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.1 S., R.34 E., Esmeralda County, on left bank 300 ft (90 m) downstream from Middle Creek, 5 mi (8 km) west of State Highway 3A, and 10 mi (16 km) northwest of Dyer.

DRAINAGE AREA.--37.3 mi² (96.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

AVERAGE DISCHARGE.--16 years, 8.64 ft³/s (0.245 m³/s), 6,260 acre-ft/yr (7.72 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14 ft³/s (0.40 m³/s) Mar. 4, gage height, 1.37 ft (0.418 m); minimum, 3.0 ft³/s (0.085 m³/s) Mar. 1.

Period of record: Maximum discharge, 527 ft³/s (14.9 m³/s) July 31, 1965, gage height, about 5.0 ft (1.52 m), on basis of slope-area measurement of peak flow; minimum, 1.0 ft³/s (0.028 m³/s) Feb. 18, 1961, result of freezeup.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	7.8	7.2	6.0	6.2	6.0	6.0	6.6	6.5	4.6	5.9	4.4
2	7.2	7.8	7.0	5.8	6.2	6.4	6.1	6.7	6.3	4.6	5.3	4.5
3	7.5	7.5	6.7	6.4	6.2	6.9	6.0	6.7	6.3	4.5	5.0	4.5
4	7.5	7.5	6.7	6.2	5.9	7.3	5.9	6.8	6.3	4.4	5.0	4.7
5	7.2	7.5	6.7	6.7	5.7	7.2	6.2	6.8	5.9	4.4	5.0	6.3
6	7.2	7.5	6.4	6.4	5.6	6.9	6.3	6.9	5.5	4.3	4.9	5.7
7	7.8	7.5	6.4	6.4	5.4	6.8	6.2	7.6	5.5	4.3	5.1	5.4
8	7.8	7.5	6.4	6.7	5.9	6.2	6.0	8.7	5.6	4.3	5.1	5.3
9	7.8	7.2	6.2	6.4	6.7	6.2	5.8	8.4	5.7	4.2	5.0	5.4
10	7.5	7.5	6.4	6.2	6.4	6.3	5.8	8.1	6.3	4.2	5.0	7.9
11	7.8	7.0	6.2	6.2	6.5	6.0	5.8	7.8	6.3	4.2	4.7	7.2
12	8.1	7.2	6.2	6.2	6.7	6.2	5.7	7.4	6.0	4.3	4.7	6.1
13	7.8	7.2	5.9	6.2	6.7	6.3	5.8	7.6	5.8	4.2	4.8	6.0
14	7.8	7.2	5.7	6.2	6.7	6.4	6.1	8.2	5.8	4.1	5.2	5.6
15	7.8	7.2	5.8	6.4	6.4	6.5	5.7	8.4	5.7	4.2	5.2	5.5
16	7.8	7.2	6.0	6.4	6.4	6.8	5.4	8.4	5.6	6.7	5.2	5.7
17	7.8	6.7	6.2	6.4	6.4	7.0	6.3	8.0	5.6	5.9	5.2	5.8
18	7.8	5.9	6.4	6.4	6.4	6.7	6.4	7.7	5.5	5.2	5.7	5.9
19	7.8	5.6	6.7	6.2	6.4	6.3	7.0	7.3	5.4	5.0	5.6	5.9
20	7.8	6.0	6.7	6.7	6.4	6.5	7.5	7.2	5.4	4.9	5.0	6.0
21	7.8	6.1	6.7	6.4	6.2	6.5	7.1	7.1	5.4	4.6	4.8	6.3
22	7.5	6.3	6.7	6.7	6.2	6.4	6.6	6.8	5.4	4.5	4.9	6.2
23	7.2	6.5	6.7	6.4	6.4	6.6	6.5	6.7	5.3	5.0	4.9	6.4
24	7.2	6.7	6.7	6.2	6.2	6.8	6.6	6.6	5.2	5.3	4.7	6.3
25	7.8	6.7	6.7	6.4	6.2	6.2	6.2	6.6	5.0	5.2	4.5	6.3
26	7.8	6.7	6.7	6.2	6.3	6.2	5.9	6.7	4.9	5.5	4.8	6.3
27	7.8	6.7	6.7	6.4	6.4	6.1	5.9	6.9	4.7	5.2	4.7	6.4
28	7.5	7.0	6.7	6.4	6.5	6.0	6.0	7.0	4.6	5.4	4.6	6.5
29	7.5	6.7	6.7	6.2	6.5	6.0	6.2	6.6	4.5	5.1	4.5	9.5
30	7.8	6.6	6.4	6.2	---	6.2	6.4	6.6	4.6	5.7	4.4	9.6
31	7.8	---	6.2	6.2	---	6.2	---	6.6	---	6.5	4.4	---
TOTAL	237.0	208.5	200.8	196.2	182.1	200.1	185.4	225.5	166.6	150.5	153.8	183.6
MEAN	7.65	6.95	6.48	6.33	6.28	6.45	6.18	7.27	5.55	4.85	4.96	6.12
MAX	8.1	7.8	7.2	6.7	6.7	7.3	7.5	8.7	6.5	6.7	5.9	9.6
MIN	7.2	5.6	5.7	5.8	5.4	6.0	5.4	6.6	4.5	4.1	4.4	4.4
AC-FT	470	414	398	389	361	397	368	447	330	299	305	364

CAL YR 1975 TOTAL 2595.7 MEAN 7.11 MAX 11 MIN 5.6 AC-FT 5150
WTR YR 1976 TOTAL 2290.1 MEAN 6.26 MAX 9.6 MIN 4.1 AC-FT 4540

Peak discharge (base, 20 cfs).--No peak above base.

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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10249900 Chiatovich Creek near Dyer, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1974 to current year (period of record for daily specific conductance, April 1975 to current year).

Water temperatures: September 1960 to current year (data prior to Oct. 1974, which were collected monthly or less frequently, are unpublished; period of record for daily data, April 1975 to current year).

Biological and sediment data: January 1975 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum daily, 71 micromhos Aug. 1; minimum daily, 53 micromhos Oct. 12.

Water temperature: Maximum daily, 15.0°C July 25, 26; minimum daily, freezing point on several days during November to March.

Suspended-sediment concentration: Maximum, 68 mg/l Nov. 12; minimum, 13 mg/l Dec. 18.

REMARKS.--Daily sampling and temperature measurement are done approximately 3.1 mi (5.0 km) downstream from gage, in SE $\frac{1}{4}$ sec.25, T.1 S., R.34 E. Water temperatures at daily site are as much as 3.5°C greater than those at gage (on basis of monthly data for March 1975 to Sept. 1976); greatest differences occur during summer. Specific conductance is not significantly different at the two sites.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
NOV.											
12...	1345	8.7	15	6.7	.8	3.3	.8	33	0	3.0	1.1
DEC.											
18...	1110	6.8	15	7.3	.6	3.3	.8	32	--	2.4	.8
JAN.											
21...	1620	6.8	15	7.1	--	3.2	1.1	31	--	2.4	1.1
FEB.											
24...	1200	6.3	15	6.9	.4	3.2	1.1	--	--	2.5	1.0
APR.											
15...	1300	6.5	15	6.9	1.0	3.4	.9	33	0	2.9	1.2
MAY											
12...	1350	7.5	17	7.7	.5	3.8	.9	30	0	3.0	.7
JUNE											
24...	1500	5.1	17	--	--	--	--	29	0	2.7	.5
JULY											
20...	1120	5.4	17	--	.6	3.4	.7	34	0	2.6	.5
AUG.											
18...	1145	5.7	16	8.1	.7	4.0	.8	31	0	3.1	.8
SEPT.											
16...	1340	5.8	17	8.1	.8	3.4	.9	34	0	--	.7

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.											
12...	.2	.00	.00	.00	.00	.30	.05	.30	.03	.00	3.4
DEC.											
18...	.2	.13	.00	.07	--	.19	--	.39	.01	--	--
JAN.											
21...	.3	.13	.01	.02	.01	.28	.14	.44	.02	.00	--
FEB.											
24...	.3	.13	.00	.09	--	.13	--	.35	.01	--	--
APR.											
15...	.2	.06	.00	.02	.02	.02	.00	.10	.02	.01	2.8
MAY											
12...	.3	.04	.00	.01	--	.15	--	.20	.02	--	--
JUNE											
24...	.3	.01	.00	.01	--	.19	--	.21	.01	--	--
JULY											
20...	.3	.00	.00	.00	.00	.16	.08	.16	.03	.01	2.7
AUG.											
18...	.3	.06	.01	.00	--	.14	--	.21	.02	--	--
SEPT.											
16...	.3	.07	.00	.01	--	.29	--	.37	.03	--	--

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 Chiatovich Creek near Dyer, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
NOV. 12...	53	47	1.25	20	.3	55	8.1	2.0	7	3	28
DEC. 18...	48	46	.88	21	.3	56	7.5	.0	3	3	--
JAN. 21...	44	--	.81	--	--	57	--	1.0	3	0	16
FEB. 24...	46	--	.78	19	.3	60	7.8	2.5	2	0	1
APR. 15...	50	48	.88	21	.3	60	7.9	5.5	2	1	6
MAY 12...	46	49	.93	21	.4	--	8.1	12.5	3	0	10
JUNE 24...	48	--	.66	--	--	59	7.8	15.0	3	16	193
JULY 20...	--	--	--	--	--	59	7.8	15.0	3	5	92
AUG. 18...	51	49	.79	23	.4	60	7.8	9.5	2	30	60
SEP. 16...	--	--	--	24	.3	61	7.8	12.0	4	17	38

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CORALT (CO) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
NOV. 12...	1345	1	1	<10	0	10	0	<50	0	<10	1	1500
JAN. 21...	1620	0	0	<10	0	0	0	<50	0	<10	0	600
APR. 15...	1300	1	1	<10	0	10	10	<50	0	10	0	420
JULY 20...	1120	1	0	<10	0	0	0	<50	0	<10	0	570

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 12...	50	<100	4	80	10	.0	.0	0	0	0	0
JAN. 21...	70	<100	0	30	0	.0	.0	0	0	10	0
APR. 15...	0	<100	1	20	0	.0	.0	0	0	10	0
JULY 20...	100	<100	0	30	0	.0	.0	0	0	0	0

10249900 Chiatovich Creek near Dyer, Nev.--Continued

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

PHYTOPLANKTON *

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 12	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		260	29
	....CYMBELLACEAE			
	....CYMBELLA		40	4
	....GOMPHONEMATACEAE			
	....GOMPHONEMA			<1
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		360	40
	....NITZSCHIACEAE			
	....NITZSCHIA		160	18
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		79	9
	TOTAL		890	
DEC 18	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE		5	8
	....CERASTERIAS			
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		24	42
	....CYMBELLACEAE			
	....CYMBELLA		5	8
	....EPITHEMIA			<1
	....FRAGILARIACEAE			
	....HANNAEA			<1
	....SYNEDRA		10	17
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		15	25
	TOTAL		59	
JAN 21	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		76	37
	....RHOICOSPHENIA		5	2
	....CYMBELLACEAE			
	....CYMBELLA		9	5
	....FRAGILARIACEAE			
	....HANNAEA			
	....HANNAEA ARCUS			<1
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		81	40
	....NITZSCHIACEAE			
	....NITZSCHIA		33	16
	TOTAL		200	
FEB 24	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		18	12
	....RHOICOSPHENIA		9	6
	....CYMBELLACEAE			
	....CYMBELLA		18	12
	....GOMPHONEMATACEAE			
	....GOMPHONEMA		9	6
	....MERIDIONACEAE			
	....MERIDION			<1
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		64	41
	....NITZSCHIACEAE			
	....NITZSCHIA		36	24
	TOTAL		150	

* ALL SAMPLES COLLECTED USING SUSPENDED-SEDIMENT SAMPLER

10249900 Chiatovich Creek near Dyer, Nev.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 15	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		170	32
	....CYMBELLACEAE			
	....CYMBELLA		53	10
	....DIATOMACEAE			
	....DIATOMA		9	2
	....FRAGILARIACEAE			
	....FRAGILARIA		18	3
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		89	17
	....NITZSCHACEAE			
	....NITZSCHIA		160	30
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	....OSCILLATORIA		36	7
	TOTAL		530	
MAY 12	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		39	5
	...VOLVOCALES			
	...PHACOTACEAE			
	....PTEROMONAS		39	5
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		430	50
	....COCCONEIS		39	5
	....CYMBELLACEAE			
	....CYMBELLA		39	5
	....DIATOMACEAE			
	....DIATOMA		79	9
	....FRAGILARIACEAE			
	....SYNEORA		39	5
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		120	14
	....NITZSCHACEAE			
	....NITZSCHIA		39	5
	TOTAL		870	
JUN 24	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....KIRCHNERIELLA		35	4
	....TETRAEDRON		70	8
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTILLA		35	4
	...PENNALES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		35	4
	....RHOICOSPHENIA		70	8
	....CYMBELLACEAE			
	....CYMBELLA		35	4
	....GOMPHONEMATACEAE			
	....GOMPHONEMA		100	12
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		100	12
NITZSCHACEAE			
NITZSCHIA		350	42
	TOTAL		840	

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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10249900 Chiatovich Creek near Dyer, Nev.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUL 20	CHRYSTOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		87	19
	....COCCONEIS		17	4
	....RHOICOSPHEAIA		17	4
	...CYMBELLACEAE			
	....CYMBELLA		52	11
	...DIATOMACEAE			
	....DIATOMA		17	4
	...FRAGILARIACEAE			
	....SYNEDRA		70	15
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		170	37
	...NITZSCHIACEAE			
	....NITZSCHIA		35	7
	TOTAL		470	
AUG 18	CHRYSTOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		12	6
	...CYMBELLACEAE			
	....CYMBELLA		36	19
	...FRAGILARIACEAE			
	....FRAGILARIA		12	6
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		130	69
	TOTAL		190	
SEP 16	CHRYSTOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		71	8
	....COCCONEIS		24	3
	....RHOICOSPHEAIA		24	3
	...CYMBELLACEAE			
	....CYMBELLA		36	4
	...FRAGILARIACEAE			
	....FRAGILARIA		24	3
	....SYNEDRA		12	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		83	10
	...NITZSCHIACEAE			
	....NITZSCHIA		24	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		500	58
	...OSCILLATORIALES	FILAMENTOUS		
	....NOSTOCACEAE			
	....ANABAENA		59	7
	TOTAL		850	

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 Chiatovich Creek near Dyer, Nev.--Continued

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

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Dec 18	37	0.0	0.0	0.0	0.0	--	Polyethylene strip
Feb 24	34	0.9	0.7	1.3	0.1	170	Polyethylene strip
Aug 18	30	3.15	2.54	3.75	0.000	160	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE D SEDIM- ENT DIS- CHARGE (T/DAY)
NOV. 12...	1320	8.7	68	1.6
DEC. 18...	1040	6.8	13	.24
JAN. 21...	1600	6.8	40	.73
FEB. 24...	1205	6.3	22	.37
APR. 15...	1300	6.5	20	.35
MAY 12...	1345	7.5	30	.61
JUNE 24...	1505	5.1	36	.50
JULY 20...	1120	5.4	22	.32
AUG. 18...	1200	5.8	20	.31
SEP. 16...	1340	5.8	20	.31

10249900 Chiatovich Creek near Dyer, Nev.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	57	56	60	59	58	62	63	61	59	71	62
2	56	56	56	59	58	61	61	63	61	60	65	62
3	57	56	56	59	57	60	61	62	61	59	62	62
4	57	55	56	57	56	60	61	62	60	59	64	62
5	57	57	56	58	---	62	61	63	60	59	61	62
6	58	57	56	58	---	62	61	63	60	59	61	62
7	58	56	56	57	---	61	61	62	60	59	61	61
8	57	56	55	57	---	59	62	63	60	59	61	62
9	56	56	56	57	---	58	61	63	60	60	61	62
10	55	57	56	57	---	58	61	63	58	59	59	62
11	54	60	56	56	---	58	61	63	58	59	60	62
12	53	58	55	56	---	62	61	63	59	59	60	62
13	56	59	58	57	---	60	61	63	60	59	60	62
14	56	56	62	56	---	59	60	59	59	60	60	62
15	56	55	66	57	---	60	60	59	59	59	60	62
16	56	55	62	56	---	62	63	59	59	59	60	62
17	55	56	58	57	---	62	63	59	59	61	60	62
18	55	63	57	59	---	62	61	59	59	61	60	62
19	57	69	56	59	61	62	61	59	60	61	60	62
20	54	70	56	60	60	62	61	60	59	61	60	62
21	56	60	56	59	64	61	62	62	59	61	60	62
22	58	61	56	59	64	61	64	61	59	61	60	62
23	59	55	57	59	59	62	64	61	59	61	61	62
24	59	55	56	57	59	62	64	61	60	61	61	62
25	62	55	56	59	59	62	63	61	60	61	61	62
26	57	56	57	59	59	61	62	61	60	61	62	62
27	58	56	56	58	59	61	63	60	59	61	61	62
28	58	55	56	57	60	61	63	61	59	62	61	62
29	56	61	57	58	60	61	63	60	60	62	62	62
30	57	56	57	58	---	61	64	61	60	62	61	63
31	58	---	62	58	---	61	---	61	---	62	62	---
MONTH	57	58	57	58	---	61	62	61	60	60	61	62
YEAR	MAX	71	MIN	53	MEAN	60						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	3.5	0.5	0.5	0.5	1.5	3.0	7.5	10.5	12.0	13.0	11.0
2	7.0	3.0	1.5	0.0	0.0	0.0	3.0	7.5	10.0	11.5	12.0	11.5
3	8.0	4.0	2.0	0.0	0.0	0.0	2.5	7.0	10.5	12.0	12.0	12.0
4	8.0	5.5	2.0	0.0	0.5	0.5	3.5	7.0	10.0	11.0	11.5	11.5
5	8.0	4.0	1.5	0.0	---	0.0	3.5	7.5	9.5	10.0	11.5	10.0
6	7.0	4.5	1.5	0.0	---	0.0	3.5	6.0	9.5	10.5	11.0	9.0
7	5.5	4.5	1.0	0.5	---	0.5	4.0	6.5	9.0	10.5	12.0	10.0
8	3.0	4.5	1.5	0.5	---	0.0	4.0	6.0	8.5	11.0	11.5	9.5
9	4.0	4.0	1.0	0.5	---	1.0	4.5	6.0	8.5	11.0	11.0	9.5
10	4.5	3.5	2.0	0.5	---	1.0	4.5	6.5	7.5	11.5	11.5	8.0
11	6.5	1.5	1.5	0.5	---	1.5	4.5	7.0	7.0	12.0	12.0	8.5
12	4.0	1.5	1.5	0.5	---	0.5	4.0	7.5	8.0	12.0	12.0	9.0
13	3.0	1.5	0.0	0.5	---	0.5	4.0	8.5	9.0	10.0	11.0	10.0
14	2.5	1.0	0.0	1.0	---	2.0	3.0	8.5	11.0	10.0	11.5	9.5
15	3.5	1.5	0.5	1.0	---	2.0	3.5	9.0	11.0	11.0	12.5	10.0
16	4.5	2.0	0.0	1.5	---	3.0	0.0	9.0	11.5	11.0	11.0	10.5
17	4.5	1.0	0.0	1.5	---	4.0	0.5	9.5	11.5	10.0	10.0	11.0
18	5.5	1.0	0.0	0.5	---	4.0	2.0	6.5	12.0	9.0	9.0	10.5
19	5.0	1.0	0.0	0.0	0.0	1.0	3.5	7.0	11.5	10.0	9.5	10.5
20	5.0	0.5	0.0	0.0	0.0	0.0	6.0	6.5	11.0	11.0	10.0	9.0
21	5.0	1.0	0.5	0.0	0.0	2.0	5.5	8.5	11.5	12.5	9.0	9.5
22	6.5	0.5	1.0	0.0	0.5	2.5	6.0	6.0	10.0	13.0	9.0	9.0
23	1.5	0.5	0.0	0.0	0.5	3.0	7.0	8.0	9.5	14.0	9.5	9.0
24	0.5	0.5	2.0	1.0	0.5	2.5	6.5	8.5	9.0	14.5	10.0	8.0
25	2.0	1.5	2.0	0.5	0.5	2.0	7.0	8.0	10.0	15.0	10.0	8.5
26	4.0	0.0	1.5	0.0	1.5	1.0	7.0	8.5	10.0	15.0	10.5	9.0
27	4.0	1.0	2.0	0.0	2.0	2.0	7.5	10.5	11.0	14.5	10.0	9.5
28	2.5	0.5	1.0	1.0	2.0	3.5	7.5	10.0	11.5	14.0	10.0	10.0
29	4.0	0.0	1.0	1.0	2.0	3.0	7.0	10.0	12.0	14.5	10.5	10.0
30	3.0	0.0	1.0	0.5	---	2.5	7.5	9.5	11.5	13.0	11.0	9.5
31	3.5	---	0.0	0.5	---	3.0	---	9.0	---	13.5	10.5	---
MONTH	4.5	2.0	1.0	0.5	---	1.5	4.5	8.0	10.0	12.0	11.0	10.0
YEAR	MAX	15.0	MIN	0.0	MEAN	5.5						

PAHRUMP VALLEY

10251980 Lovell Wash near Blue Diamond, Nev.

LOCATION.--Lat 36°00'10", long 115°38'38", in NE¼SW¼ sec.25, T.22 S., R.56 E., Clark County, on right bank 0.2 mi (0.3 km) downstream from county road, 13.7 mi (22.0 km) west of Blue Diamond, and 24 mi (39 km) southeast of Pahrump.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--Water years 1965-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,840 ft (1,170 m), approximately (from topographic map). October 1966 to Jan. 25, 1969, flood-hydrograph recorder at site 0.2 mi (0.3 km) upstream at culverts at different datum.

AVERAGE DISCHARGE.--10 years, 0.301 ft³/s (0.0085 m³/s), 218 acre-ft/yr (268,800 m³/yr).

EXTREMES.--Current year: Maximum discharge 0.4 ft³/s (0.011 m³/s) Sept. 11, gage height, 1.30 ft (0.396 m); no flow most of the year. Period of record: Maximum discharge, 4,150 ft³/s (118 m³/s) Jan. 25, 1969, from indirect measurement of peak flow; no flow most of the time.

REMARKS.--Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												0
11												.10
12												0
13												0
14												0
15												0
16												0
17												0
18												0
19												0
20												0
21												0
22												0
23												0
24												0
25												0
26												0
27												0
28												0
29												0
30												0
31		---			---		---		---			---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	.10
MEAN	0	0	0	0	0	0	0	0	0	0	0	.003
MAX	0	0	0	0	0	0	0	0	0	0	0	.10
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	.2
CAL YR 1975	TOTAL	0.07	MEAN	.0002	MAX	.07	MIN	0	AC-FT	.1		
WTR YR 1976	TOTAL	0.10	MEAN	.0003	MAX	.10	MIN	0	AC-FT	.2		

WALKER LAKE BASIN

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10288500 Walker Lake near Hawthorne, Nev.

LOCATION.--Lat 38°35'05", long 118°42'15", in NE¼NE¼ sec.2, T.8 N., R.29 E., Mineral County, 5.5 mi (8.8 km) northwest of Hawthorne.

DRAINAGE AREA.--4,050 mi² (10,500 km²), approximately.

PERIOD OF RECORD.--August 1928 to current year. Occasional readings prior to August 1928.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (U.S. Coast & Geodetic Survey bench mark at U.S. Naval Depot).

EXTREMES.--Period of record: Maximum contents observed, 6,955,000 acre-ft (8.58 km³) Mar. 13, 1928, elevation, 4,051.8 ft (1,234.99 m), Indian Service; minimum observed, 2,785,000 acre-ft (3.43 km³) Sept. 18, 1976, elevation, 3,964.4 ft (1,208.35 m).
 An elevation of 4,078.0 ft (1,242.97 m), adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft or 10.6 km³, table now in use).

REMARKS.--Elevations determined from reference points referred to U.S.C. & G.S. bench mark. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface.

MONTH-END ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept. 30.	3,966.9	2,878,000	
Oct. 31.	3,966.5	2,863,000	-15,000
Nov. 30.	3,966.3	2,855,000	-8,000
Dec. 31.	3,966.2	2,851,000	-4,000
CAL YR 1975.	--	--	-15,000
Jan. 31.	3,966.1	2,848,000	-3,000
Feb. 29.	3,966.2	2,851,000	+3,000
Mar. 31.	3,966.0	2,844,000	-7,000
Apr. 30.	3,965.8	2,837,000	-7,000
May 31.	3,965.7	2,833,000	-4,000
June 30.	3,965.5	2,825,000	-8,000
July 31.	3,965.0	2,807,000	-18,000
Aug. 31.	3,964.8	2,799,000	-8,000
Sept. 31.	3,964.2	2,777,000	-22,000
WTR YR 1975-76	--	--	-101,000

NOTE.--Month-end elevations are interpolated from readings made during the month.

10290300 Upper Twin Lake near Bridgeport, Calif.

LOCATION.--Lat 38°09'15", long 119°20'58", in NW¼NE¼ sec.5, T.3 N., R.24 E., Mono County, at outlet of upper lake dam on Robinson Creek and 10 mi (16 km) southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi² (76.4 km²).

PERIOD OF RECORD.--December 1961 to February 1964, September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

EXTREMES.--Current year: Maximum contents, 2,350 acre-ft (2.90 hm³) May 15, 16 elevation, 7,207.87 ft (2,196.959 m); minimum, 260 acre-ft (321,000 m³) Sept. 27, 28, elevation, 7,200.93 ft (2,194.843 m).

Period of record: Maximum contents observed, 2,900 acre-ft (3.58 hm³) June 22, July 5, 6, 1967, elevation, 7,209.58 ft (2,197.480 m); minimum observed, 62 acre-ft (76,400 m³) Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft (2,194.627 m). No contents Oct. 17, 1961.

REMARKS.--Contents regulated by dam at outlet. Figures given herein represent usable contents. Usable contents, 2,070 acre-ft (2.55 hm³) between elevations 7,200 ft (2,194.6 m) natural rim, and 7,207 ft (2,196.7 m), spillway crest.

ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept. 30	7,202.51	703	---
Oct. 31	7,205.57	1,620	+917
Nov. 30	7,207.14	2,110	+490
Dec. 31	7,207.06	2,090	-20
CAL YR 1975	--	--	+800
Jan. 31	7,207.05	2,090	0
Feb. 28	7,207.10	2,100	+10
Mar. 31	7,207.06	2,090	-10
Apr. 30	--	g2,170	+80
May 31	7,207.65	2,280	+110
June 30	7,207.42	2,200	-80
July 31	7,202.14	599	-1,600
Aug. 31	--	g367	-232
Sept. 30	7,200.96	269	-98
WTR YR 1975-76	--	--	-434

g Interpolated.

10290400 Lower Twin Lake near Bridgeport, Calif.

LOCATION.--Lat 38°10'05", long 119°19'33", in NE¼NE¼ sec.33, T.4 N., R.24 E., Mono County, at outlet of lower lake dam on Robinson Creek and 8 mi (13 km) southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi² (100.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

EXTREMES.--Current year: Maximum contents, 4,290 acre-ft (5.29 hm³) May 18, 19, elevation, 7,200.67 ft (2,194.764 m); minimum interpolated, 904 acre-ft (1.11 hm³) Sept. 30, elevation, 7,192.26 ft (2,192.201 m).

Period of record: Maximum contents, 5,490 acre-ft (6.77 hm³) June 6, 1969, elevation 7,203.51 ft (2,195.630 m); no contents Nov. 17, 1966.

REMARKS.--Contents regulated by dam at outlet and by Upper Twin Lake. Figures given herein represent usable contents. Usable contents, 4,010 acre-ft (4.94 hm³) between elevations 7,190 ft (2,192 m) natural rim, and 7,200 ft (2,195 m), spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek.

MONTH-END ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-feet)
Sept. 30	7,193.36	1,340	--
Oct. 31	--	g1,000	-340
Nov. 30	7,193.26	1,300	+300
Dec. 31	7,196.06	2,420	+1,120
CAL YR 1975	--	--	+320
Jan. 31	7,198.44	3,380	+960
Feb. 29	7,200.45	4,200	+820
Mar. 31	7,200.50	4,220	+20
Apr. 30	7,200.36	4,160	-60
May 31	7,200.12	4,060	-100
June 30	7,196.87	2,750	-1,310
July 31	7,196.47	2,520	-230
Aug. 31	--	g1,190	-1,330
Sept. 30	--	g 904	-286
WTR YR 1975-76	--	--	-436

g Interpolated

WALKER LAKE BASIN

99

10291500 Buckeye Creek near Bridgeport, Calif.

LOCATION.--Lat 38°14'20", long 119°19'30", in NE¼NE¼ sec. 4, T. 4 N., R. 24 E., Mono County, on right bank at Buckeye Hot Springs, 0.6 mi (1.0 km) downstream from Eagle Creek, and 5.5 mi (8.8 km) southwest of Bridgeport.

DRAINAGE AREA.--44.1 mi² (114.2 km²).

PERIOD OF RECORD.--November 1910 to September 1914 (fragmentary), October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,103 m), from topographic map. November 1910 to September 1914, non-recording gage at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--23 years (1911-12, 1953-76), 58.8 ft³/s (1.665 m³/s), 42,600 acre-ft/yr (52.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 198 ft³/s (5.61 m³/s) May 14, gage height, 2.84 ft (0.866 m); minimum, 7.8 ft³/s (0.22 m³/s) Feb. 25.

Period of record: Maximum discharge, 947 ft³/s (26.8 m³/s) Feb. 1, 1963, gage height, 4.41 ft (1.344 m), from rating curve extended above 360 ft³/s (10.2 m³/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m) and logarithmic plotting; minimum, 3.3 ft³/s (0.094 m³/s) Dec. 12, 1959, result of freeze-up.

Flood of June 21, 1911, reached an observed stage of 4.8 ft (1.46 m), discharge not determined, site and datum then in use.

REMARKS.--Records good except those for winter periods, which are poor. No regulation or diversion above station.

REVISED RECORDS.--WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	35	28	19	17	16	23	62	69	27	27	15
2	26	35	25	17	17	16	24	70	65	26	22	14
3	26	35	25	19	17	16	25	70	61	25	21	14
4	25	36	25	18	16	15	25	76	56	24	20	14
5	25	35	25	20	15	15	23	73	54	24	19	17
6	27	33	24	21	14	15	24	62	53	23	19	21
7	34	33	24	19	14	15	25	53	53	23	18	17
8	28	38	23	19	14	15	27	62	51	22	18	16
9	27	32	23	19	15	16	23	84	46	21	18	17
10	38	30	23	18	16	17	24	90	41	21	17	18
11	41	38	23	19	15	17	23	101	38	21	17	41
12	33	37	22	18	15	17	23	108	38	21	17	28
13	31	33	21	18	15	18	23	120	40	21	17	22
14	31	32	20	18	15	18	23	138	41	20	18	20
15	31	31	19	18	16	19	23	123	40	21	27	19
16	32	31	20	18	18	23	20	118	46	33	26	18
17	32	28	20	18	16	26	23	122	45	33	24	18
18	32	27	20	18	16	25	24	106	44	28	21	17
19	30	25	20	18	16	21	25	92	47	24	23	17
20	31	27	20	18	17	22	31	87	45	23	23	17
21	31	26	20	17	16	24	35	84	42	21	20	17
22	32	26	20	16	16	26	34	73	38	21	20	17
23	30	27	20	17	16	25	34	79	34	23	19	16
24	28	27	25	18	17	26	42	76	33	23	19	16
25	30	26	24	21	16	24	49	84	33	23	18	16
26	51	26	22	22	16	23	40	84	32	25	17	16
27	52	25	22	18	17	21	34	94	30	23	17	15
28	39	25	21	18	18	21	33	88	29	25	17	15
29	37	24	21	18	16	22	34	72	30	23	16	17
30	36	25	21	17	---	23	44	70	28	21	16	22
31	36	---	20	17	---	25	---	70	---	25	15	---
TOTAL	1009	908	686	568	462	622	860	2691	1302	734	606	547
MEAN	32.5	30.3	22.1	18.3	15.9	20.1	28.7	86.8	43.4	23.7	19.5	18.2
MAX	52	38	28	22	18	26	49	138	69	33	27	41
MIN	25	24	19	16	14	15	20	53	28	20	15	14
AC-FT	2000	1800	1360	1130	916	1230	1710	5340	2580	1460	1200	1080

CAL YR 1975 TOTAL 24323 MEAN 66.6 MAX 350 MIN 15 AC-FT 48240
WTR YR 1976 TOTAL 10995 MEAN 30.0 MAX 138 MIN 14 AC-FT 21810

Peak discharge (base, 100 ft³/s).--May 14 (2300) 198 ft³/s (2.84 ft).

WALKER LAKE BASIN

10292500 Bridgeport Reservoir near Bridgeport, Calif.

LOCATION.--Lat 38°19'30", long 119°12'40", in SE¼NE¼ sec.34, T.6 N., R.25 E., Mono County, at Bridgeport Dam on East Walker River, 4.5 mi (7.2 km) north of Bridgeport.

DRAINAGE AREA.--358 mi² (927 km²).

PERIOD OF RECORD.--March 1926 to current year. Month-end contents only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum).

EXTREMES.--Current year: Maximum contents, 40,270 acre-ft (49.7 hm³) Apr. 2-5, elevation, 6,459.24 ft (1,968.776 m); minimum, 3,420 acre-ft (4.22 hm³) Sept. 20, elevation, 6,435.97 ft (1,961.684 m).

Period of record: Maximum contents, 44,880 acre-ft (55.3 hm³) June 16, 1974, elevation, 6,460.78 ft (1,969.246 m); no contents during fall of 1929, 1930, 1960.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam. Storage began Dec. 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft (52.4 hm³) between elevations 6,415 ft (1,955.3 m), approximate elevation of bottom of reservoir, and 6,461 ft (1,969.3 m), crest of spillway is at elevation 6,460.75 ft (1,969.237 m), however, there are four siphons that became operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft (1,954.4 m). No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

REVISED RECORDS.--WSP 1180: 1949. WSP 1927: Drainage area.

Capacity Table, (elevation, in feet, and contents, in acre-feet)

6,435	2,920	6,447	13,990
6,437	4,050	6,449	17,060
6,439	5,440	6,451	20,620
6,441	7,120	6,453	24,660
6,443	9,100	6,456	31,570
6,445	11,380	6,461	45,490

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17750	20340	25430	29400	32840	36500	40120	36100	26640	20250	12770	6720
2	17750	20530	25540	29520	32970	36630	40270	35700	26310	19980	12900	6280
3	17660	20720	25760	29640	33220	36760	40270	35440	25980	19700	12900	5920
4	17660	21010	25980	29760	33090	36900	40270	35170	25650	19330	12970	5560
5	17580	21210	26090	29880	33220	36900	40270	34900	25320	19060	12970	5260
6	17490	21400	26200	29880	33350	37040	40120	34510	25100	18690	12970	4970
7	17490	21600	26420	30120	33480	37180	40120	34380	24770	18260	12970	4680
8	17490	21700	26530	30240	33730	37460	39830	34110	24560	17830	12970	4510
9	17490	21800	26640	30240	33860	37590	39830	33860	24240	17400	12970	4310
10	17490	21990	26860	30490	33860	37730	39690	33730	24140	16980	13040	4150
11	17660	22190	26980	30490	33980	37870	39540	33600	24040	16500	12970	3990
12	17660	22380	27090	30610	34110	38010	39260	33350	23930	16030	12900	3870
13	17750	22680	27090	30730	34380	38290	39260	33220	23830	15630	12900	3810
14	17750	22890	27200	30850	34510	38430	39120	32970	23830	15170	12830	3690
15	17830	23100	27320	30970	34510	38570	38840	32840	23830	14730	12700	3570
16	17830	23310	27440	31090	34640	38710	38980	32590	23830	14510	12630	3540
17	18010	23310	27550	31210	34900	38840	38980	32330	23720	14210	12440	3510
18	18090	23410	27660	31330	35040	38840	38840	32080	23720	14140	12190	3450
19	18260	23620	27780	31450	35040	38980	38840	31700	23620	13990	11940	3450
20	18260	23720	27900	31570	35170	39120	38710	31330	23520	13850	11630	3420
21	18520	23830	28010	31700	35300	39260	38570	30850	23310	13380	11320	3480
22	18520	24040	28120	31820	35440	39400	38430	30490	23200	13170	10910	3510
23	18610	24240	28360	31820	35570	39540	38290	30120	22890	12970	10550	3510
24	18690	24350	28470	31950	35700	39690	38010	29640	22680	12970	10200	3540
25	18870	24450	28580	32080	35830	39690	37590	29400	22480	12900	9870	3570
26	19060	24660	28820	32200	35960	39830	37320	28930	22190	12770	9480	3600
27	19330	24770	28820	32330	36100	39830	37040	28580	21800	12700	9100	3630
28	19520	24880	29040	32460	36230	39830	36900	28240	21500	12630	8740	3660
29	19610	24990	29160	32590	36500	39980	36630	27780	21010	12630	8280	3690
30	19880	25210	29160	32710	---	40120	36360	27440	20620	12570	7740	3750
31	20070	---	29280	32710	---	40120	---	26980	---	12700	7220	---
MAX	20070	25210	29280	32710	36500	40120	40270	36100	26640	20250	13040	6720
MIN	17490	20340	25430	29400	32840	36500	36360	26980	20620	12570	7220	3420
(†)	6450.71	6453.26	6455.05	6456.47	6457.90	6459.22	6457.84	6454.07	6451.00	6446.05	6441.12	6436.50
(‡)	+2320	+5140	+4070	+3430	+3790	+3620	-3760	-9380	-6360	-7920	-5480	-3470

CAL YR 1975 MAX 43070 MIN 17490 ‡ -360
WTR YR 1976 MAX 40270 MIN 3420 ‡ -14000

† ELEVATION, IN FEET, AT END OF MONTH

‡ CHANGE IN CONTENTS, IN ACRE-FEET

WALKER LAKE BASIN

101

10293000 East Walker River near Bridgeport, Calif.

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, on right bank 1,500 ft (500 m) downstream from Bridgeport Reservoir, 5 mi (8 km) north of Bridgeport, and 10 mi (16 km) upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi² (930 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1911 to September 1914 (gage heights only), October 1921 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map. Prior to Oct. 1, 1921, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Oct. 1, 1921, to Feb. 21, 1924, water-stage recorder at site 1 mi (2 km) downstream at different datum. Feb. 22, 1924, to Sept. 30, 1931, water-stage recorder, and Oct. 1, 1931, to May 25, 1939, nonrecording gage at present site at datum 2.34 ft (0.713 m) lower.

AVERAGE DISCHARGE.--53 years (1922-24, 1925-76), 138 ft³/s (3.908 m³/s), 99,980 acre-ft/yr (123 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 279 ft³/s (7.9 m³/s) Sept. 1, gage height, 1.98 ft (0.604 m); minimum daily, 9.0 ft³/s (0.25 m³/s) March 29, 30.

Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) June 19, 1963, gage height, 4.64 ft (1.414 m); maximum gage height, 4.95 ft (1.509 m) Jan. 22, 1943 (top of surge); minimum daily discharge, 0.2 ft³/s (0.006 m³/s) Nov. 2-29, Dec. 1-22, 25-28, 1955, Jan. 17-25, 1956.

REMARKS.--Records good. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir.

REVISED RECORDS.--WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	10	11	10	10	12	26	158	191	175	14	262
2	103	10	11	10	10	12	28	178	191	162	14	226
3	115	10	11	10	10	12	34	178	185	165	14	210
4	115	10	11	10	10	12	51	186	168	172	13	210
5	115	10	11	10	10	12	50	186	168	177	13	176
6	115	10	11	11	10	12	74	175	162	189	14	176
7	115	10	11	10	10	12	75	168	146	196	14	176
8	115	10	11	10	10	12	93	168	133	212	14	131
9	115	10	11	10	10	12	93	159	126	236	14	131
10	115	10	11	10	10	12	93	150	117	239	14	131
11	112	10	11	10	10	12	93	150	107	227	30	118
12	105	12	11	10	10	12	93	146	68	226	37	118
13	105	12	11	10	10	12	91	151	39	222	37	118
14	100	12	11	10	10	12	91	152	34	211	43	85
15	86	12	11	10	10	12	76	158	23	208	58	85
16	81	12	11	10	10	12	76	189	37	181	66	46
17	64	12	11	10	10	12	68	198	45	155	107	46
18	49	12	11	10	10	12	68	199	45	143	148	46
19	50	12	11	10	10	12	68	224	52	143	174	46
20	50	12	11	10	10	12	84	256	69	142	174	46
21	50	12	11	10	10	12	84	239	80	142	185	23
22	50	11	11	10	12	12	84	233	113	139	211	23
23	50	11	11	10	12	12	111	233	129	127	211	23
24	50	11	11	10	12	12	122	232	139	62	209	23
25	45	11	11	10	12	11	158	224	141	87	201	23
26	31	11	11	10	12	9.5	158	223	151	87	200	23
27	31	11	11	10	12	9.5	158	222	182	87	212	23
28	31	11	11	10	12	10	158	215	192	86	221	23
29	31	11	11	10	12	9.0	158	218	213	70	247	23
30	25	11	11	10	---	9.0	158	231	201	55	254	23
31	10	---	11	10	---	9.5	---	213	---	29	272	---
TOTAL	2327	329	341	311	306	355.5	2774	6012	3647	4752	3435	2813
MEAN	75.1	11.0	11.0	10.0	10.6	11.5	92.5	194	122	153	111	93.8
MAX	115	12	11	11	12	12	158	256	213	239	272	262
MIN	10	10	11	10	10	9.0	26	146	23	29	13	23
AC-FT	4620	653	676	617	607	705	5500	11920	7230	9430	6810	5580
CAL YR 1975	TOTAL	62459.0	MEAN	171	MAX	545	MIN	10	AC-FT	123900		
WTR YR 1976	TOTAL	27402.5	MEAN	74.9	MAX	272	MIN	9.0	AC-FT	54350		

WALKER LAKE BASIN

10293000 East Walker River near Bridgeport, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976*

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180°C) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
APR. 27...	1300	148	25	5.2	18	118	0	4.0	143	84	217	7.9	10	9	8.8

* DATA FROM CALIFORNIA DEPARTMENT OF WATER RESOURCES.

WALKER LAKE BASIN

103

10293050 East Walker River below Sweetwater Creek, near Bridgeport, Calif.

LOCATION.--Lat 38°26'27", long 119°06'18", in NW¼NW¼ sec.29, T.7 N., R.26 E., Lyon County, on left bank, 10 ft (3 m) downstream from bridge, 1.8 mi (2.9 km) downstream from Sweetwater Creek, and about 16 mi (26 km) north-northeast of Bridgeport.

DRAINAGE AREA.--467 mi² (1,210 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,760 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 321 ft³/s (9.1 m³/s) Aug. 31, gage height 5.87 ft (1.79 m); minimum daily, 13 ft³/s (0.37 m³/s) March 27-31.

Period of record: Maximum discharge 1,040 ft³/s (29.5 m³/s) Aug. 5, 1974, gage height, 7.43 ft (2.265 m); minimum daily, 13 ft³/s (0.37 m³/s) March 27-31, 1976.

REMARKS.--Records fair except those for winter months and periods of no gage-height record, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	22	20	20	18	17	20	157	182	182	24	253
2	106	22	21	18	18	16	25	160	175	145	20	214
3	115	22	20	20	18	15	30	175	177	147	19	214
4	117	21	21	19	16	15	40	180	166	173	18	202
5	117	19	23	21	15	15	46	204	155	192	16	177
6	115	19	21	22	15	16	52	189	149	199	15	187
7	117	20	20	21	15	16	66	173	141	190	19	170
8	118	20	20	21	17	16	78	173	130	190	24	135
9	122	19	20	20	22	16	90	175	128	205	20	131
10	126	21	20	20	19	16	90	160	112	220	18	131
11	126	19	20	21	18	16	90	157	115	230	23	133
12	117	21	22	20	19	16	90	157	91	220	37	137
13	117	23	20	20	19	16	90	166	42	215	37	108
14	112	23	20	20	23	16	86	170	35	210	37	82
15	98	23	20	20	21	16	82	173	23	200	57	74
16	96	23	20	20	20	16	78	196	21	190	53	49
17	80	20	20	20	23	16	75	207	34	170	85	53
18	63	18	20	20	22	16	72	202	35	145	126	47
19	61	17	20	20	22	15	72	225	36	135	162	48
20	59	18	20	19	23	15	74	256	49	135	164	38
21	61	19	19	18	22	15	80	247	61	135	164	26
22	59	20	20	18	23	15	83	230	94	135	199	25
23	59	20	22	19	26	15	85	228	101	130	202	23
24	61	20	26	21	24	15	100	220	122	100	209	21
25	62	20	22	23	22	14	120	209	122	60	202	20
26	45	20	21	22	18	14	150	209	130	82	202	20
27	42	20	26	20	17	13	153	212	157	82	222	21
28	39	19	22	20	17	13	156	202	170	82	239	21
29	42	17	23	20	17	13	157	202	194	75	268	22
30	42	19	22	18	---	13	156	217	194	54	289	23
31	27	---	20	18	---	13	---	202	---	46	283	---
TOTAL	2624	604	651	619	569	469	2586	6033	3341	4674	3453	2805
MEAN	84.6	20.1	21.0	20.0	19.6	15.1	86.2	195	111	151	111	93.5
MAX	126	23	26	23	26	17	157	256	194	230	289	253
MIN	27	17	19	18	15	13	20	157	21	46	15	20
AC-FT	5200	1200	1290	1230	1130	930	5130	11970	6630	9270	6850	5560

CAL YR 1975 TOTAL 69000 MEAN 189 MAX 625 MIN 16 AC-FT 136900
WTR YR 1976 TOTAL 28428 MEAN 77.7 MAX 289 MIN 13 AC-FT 56390

NOTE.--No gage-height record Nov. 22 to Dec. 19, Mar. 9 to May 5, July 7-30.

LOCATION.--Lat 38°48'45", long 119°02'50", in NW¼SW¼ sec.14, T.11 N., R.26 E., Lyon County, on right bank 0.9 mi (1.4 km) upstream from head of Stroonsider ditch, 12 mi (19 km) southeast of Mason, and 13.5 mi (21.7 km) southeast of Yerington.

PERIOD OF RECORD.--January 1947 to current year.

AVERAGE DISCHARGE.--29 years, 145 ft³/s (4,106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

REMARKS.--Records good. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	54	42	30	33	29	17	135	167	137	194	210
2	118	48	43	29	31	31	18	137	150	128	91	200
3	127	47	41	31	30	30	21	146	149	120	61	180
4	135	45	40	30	25	33	22	151	139	120	61	160
5	135	40	39	38	21	30	26	157	128	125	50	140
6	136	40	37	42	22	28	30	160	127	121	45	140
7	134	41	37	45	24	28	38	153	130	131	41	150
8	135	40	35	47	26	27	44	138	125	136	39	120
9	137	41	35	41	29	26	52	140	115	144	38	107
10	136	39	35	40	26	24	57	138	118	168	37	110
11	135	40	35	37	24	24	62	127	104	174	35	117
12	134	39	35	37	31	24	66	121	101	171	35	106
13	128	39	35	38	36	24	67	122	84	173	37	106
14	127	42	35	36	37	23	68	123	61	175	37	102
15	123	42	35	36	37	23	66	123	45	166	38	80
16	116	42	35	35	35	23	65	123	38	176	49	75
17	112	40	35	33	35	23	62	142	34	176	51	58
18	98	38	35	36	37	23	59	145	32	148	70	53
19	85	38	35	34	35	23	58	145	31	127	108	49
20	81	37	35	36	34	23	56	164	29	119	173	47
21	79	37	35	36	31	23	63	189	36	113	178	45
22	77	37	35	35	31	23	64	182	45	110	166	41
23	77	39	35	37	33	22	68	174	69	133	174	14
24	77	40	35	38	33	20	84	171	78	238	177	3.7
25	77	39	35	40	33	18	95	168	93	99	174	3.6
26	77	40	36	34	33	17	124	165	98	109	192	3.5
27	65	39	35	33	30	19	131	164	109	109	204	6.5
28	62	37	35	33	29	19	133	160	128	106	221	7.9
29	60	36	35	34	29	19	137	153	136	111	202	7.7
30	61	35	35	33	---	18	134	160	147	154	208	25
31	62	---	35	32	---	17	---	175	---	122	210	---
TOTAL	3214	1211	1120	1116	890	734	1987	4651	2846	4339	3396	2467.9
MEAN	104	40.4	36.1	36.0	30.7	23.7	66.2	150	94.9	140	110	82.3
MAX	137	54	43	47	37	33	137	189	167	238	221	210
MIN	60	35	35	29	21	17	17	121	29	99	35	3.5
AC-FT	6370	2400	2220	2210	1770	1460	3940	9230	5650	8610	6740	4900
CAL YR 1975	TOTAL	65752.0	MEAN 180	MAX 604	MIN 27	AC-FT 130400						
WTR YR 1976	TOTAL	27971.9	MEAN 76.4	MAX 238	MIN 3.5	AC-FT 55480						

10295500 Little Walker River near Bridgeport, Calif.

LOCATION.--Lat 38°21'30", long 119°26'30", in NW¼NW¼ sec.22, T.6 N., R.23 E., Mono County, on right bank 0.8 mi (1.3 km) north of Sonora Junction, 1.5 mi (2.4 km) upstream from mouth, and 14 mi (23 km) northwest of Bridgeport.

DRAINAGE AREA.--63.0 mi² (163.2 km²).

PERIOD OF RECORD.--April to August 1910, October 1944 to current year. Prior to October 1958, published as East Fork West Walker River near Bridgeport.

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft (2,070 m), from topographic map. April to August 1910, nonrecording gage at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--32 years (1944-76) 50.8 ft³/s (1.439 m³/s), 36,800 acre-ft/yr (45.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 109 ft³/s (3.09 m³/s), May 14, gage height, 1.47 ft (0.448 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 12, Sept. 2.

Period of record: Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 31, 1963, gage height, 3.22 ft (0.982 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 2.80 ft (0.853 m) and logarithmic plotting; maximum gage height recorded, 3.63 ft (1.106 m) Jan. 3, 1945, (backwater from ice); minimum discharge recorded, 4.9 ft³/s (0.14 m³/s) Nov. 17, 1948, but may have been less during periods of ice effect.

REMARKS.--Records good except those for winter months, which are poor. Small diversions above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	32	24	14	15	16	19	35	49	21	22	7.3
2	24	32	25	13	15	15	20	36	48	19	18	6.9
3	24	31	24	15	15	15	20	36	48	19	15	6.8
4	23	30	24	14	17	14	19	35	44	18	12	7.2
5	23	29	24	20	15	14	19	34	43	18	11	15
6	25	28	22	17	14	14	19	32	42	18	10	16
7	32	29	20	16	14	15	21	33	41	18	10	10
8	26	29	21	17	14	17	21	37	41	17	9.8	9.6
9	26	27	21	18	17	19	18	46	38	16	9.5	8.4
10	35	26	21	17	17	20	18	48	37	16	8.7	11
11	38	25	22	19	13	17	18	54	36	15	8.0	23
12	32	26	21	19	14	19	17	60	37	14	7.3	17
13	30	27	20	19	15	20	18	70	37	9.4	7.6	15
14	29	28	18	20	16	20	19	85	36	7.9	9.3	14
15	29	27	20	20	16	23	18	78	35	9.1	16	15
16	29	27	21	20	15	24	17	79	36	23	13	14
17	29	25	22	21	17	26	16	80	37	24	12	14
18	28	22	22	20	17	23	18	72	36	18	12	14
19	27	20	25	18	16	19	19	66	37	15	16	13
20	26	22	25	15	14	18	23	63	36	13	14	13
21	26	27	25	15	15	21	25	58	36	11	11	15
22	28	23	31	15	16	22	23	53	35	10	11	16
23	27	24	28	15	15	22	24	55	33	14	10	15
24	29	22	24	16	16	24	29	55	32	13	9.3	15
25	28	23	20	13	16	21	29	58	31	12	8.5	15
26	48	22	18	14	16	20	24	59	31	16	8.0	15
27	37	23	19	15	18	18	21	63	28	12	7.7	14
28	32	25	18	15	18	17	21	58	27	14	8.2	13
29	30	22	17	17	16	18	24	53	27	14	8.4	17
30	30	23	17	18	---	20	29	53	23	12	7.9	20
31	33	---	15	14	---	20	---	51	---	23	7.7	---
TOTAL	907	776	674	519	452	591	626	1695	1097	479.4	338.9	405.2
MEAN	29.3	25.9	21.7	16.7	15.6	19.1	20.9	54.7	36.6	15.5	10.9	13.5
MAX	48	32	31	21	18	26	29	85	49	24	22	23
MIN	23	20	15	13	13	14	16	32	23	7.9	7.3	6.8
AC-FT	1800	1540	1340	1030	897	1170	1240	3360	2180	951	672	804

CAL YR 1975 TOTAL 23799.0 MEAN 65.2 MAX 388 MIN 14 AC-FT 47210
WTR YR 1976 TOTAL 8560.5 MEAN 23.4 MAX 85 MIN 6.8 AC-FT 16980

Peak discharge (base, 200 ft³/s).--No peak above base.

WALKER LAKE BASIN

10296000 West Walker River below Little Walker River, near Coleville, Calif.

LOCATION.--Lat 38°22'47", long 119°26'57", in NE¼SE¼ sec.9, T.6 N., R.23 E., Mono County, on right bank 150 ft (50 m) downstream from Little Walker River, 60 ft (20 m) upstream from bridge on U.S. Highway 395, and 13 mi (21 km) southeast of Coleville.

DRAINAGE AREA.--180 mi² (466 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork."

GAGE --Water-stage recorder. Datum of gage is 6,591.39 ft (2,009.056 m) above mean sea level, datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft (30 m) upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft (8 m) downstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--38 years, 257 ft³/s (7.278 m³/s), 186,200 acre-ft/yr (230 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 827 ft³/s (23.4 m³/s) May 13, gage height, 3.44 ft (1.049 m); minimum, 19 ft³/s (0.54 m³/s) Feb. 24.

Period of record: Maximum discharge, 6,220 ft³/s (176 m³/s) Nov. 20, 1950, gage height, 8.10 ft (2.469 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft³/s (0.11 m³/s) Nov. 18, 1948, result of freezeup.

Maximum discharge observed prior to 1938, 5,800 ft³/s (164 m³/s) Dec. 11, 1937, by slope-area measurement.

REMARKS.--Records good except those for winter periods, which are fair. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 7 mi (11 km) upstream.

REVISED RECORDS.--WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	113	87	43	44	36	79	335	320	89	74	44
2	55	118	81	43	43	36	80	377	303	82	63	43
3	53	120	78	47	43	39	89	362	282	77	54	41
4	53	123	77	51	38	38	92	380	257	73	48	41
5	51	122	77	58	35	38	84	371	238	72	45	53
6	55	114	73	51	35	40	88	328	230	70	42	60
7	88	123	68	47	35	42	95	273	225	68	41	46
8	75	160	69	49	36	45	111	307	219	65	40	41
9	70	122	70	53	40	47	90	377	201	61	39	37
10	94	113	70	51	45	50	94	424	184	59	37	39
11	122	112	65	48	44	51	91	493	167	58	37	79
12	104	117	70	47	43	49	86	545	163	58	36	94
13	92	118	53	48	44	50	88	611	174	52	36	69
14	89	115	50	48	47	57	89	707	181	49	45	58
15	92	108	45	48	45	62	88	642	182	51	77	54
16	95	105	45	48	47	68	77	588	210	80	92	52
17	101	90	47	46	47	76	82	607	216	95	88	48
18	101	72	47	47	46	77	92	525	204	83	81	45
19	95	55	46	49	44	62	91	454	208	68	86	42
20	93	65	46	47	41	64	124	412	198	59	95	41
21	92	60	50	45	40	67	156	398	179	53	82	45
22	102	65	55	43	40	73	162	346	159	49	74	44
23	97	70	68	46	42	74	174	359	140	53	72	42
24	85	68	53	49	45	79	227	359	131	56	65	41
25	89	81	50	47	46	74	263	394	127	52	57	40
26	165	75	47	47	47	69	210	416	124	56	56	40
27	197	73	62	47	47	68	175	449	116	51	54	38
28	136	68	53	48	49	65	161	426	110	58	53	37
29	122	71	53	44	46	66	177	337	109	69	51	42
30	115	74	51	43	---	72	238	325	98	55	47	49
31	119	---	43	43	---	84	---	326	---	69	45	---
TOTAL	2953	2890	1849	1471	1244	1818	3753	13253	5655	1990	1812	1445
MEAN	95.3	96.3	59.6	47.5	42.9	58.6	125	428	189	64.2	58.5	48.2
MAX	197	160	87	58	49	84	263	707	320	95	95	94
MIN	51	55	43	43	35	36	77	273	98	49	36	37
AC-FT	5860	5730	3670	2920	2470	3610	7440	26290	11220	3950	3590	2870

CAL YR 1975 TOTAL 112693 MEAN 309 MAX 2150 MIN 37 AC-FT 223500
WTR YR 1976 TOTAL 40133 MEAN 110 MAX 707 MIN 35 AC-FT 79600

Peak discharge (base, 1,120 ft³/s).--No peak above base.

WALKER LAKE BASIN

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10296000 West Walker River below Little Walker River near Coleville, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976*

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180°C) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
APR. 27...	1215	155	6.1	2.4	3.2	31	0	2.0	38	25	58	7.2	5.5	0	10.3

* DATA FROM CALIFORNIA DEPARTMENT OF WATER RESOURCES.

WALKER LAKE BASIN

10296500 West Walker River near Coleville, Calif.

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec. 28, T.8 N., R.23 E., Mono County, on left bank 0.2 mi (0.3 km) downstream from Rock Creek and 5 mi (8 km) southeast of Coleville.

DRAINAGE AREA.--271 mi² (702 km²).

PERIOD OF RECORD.--October 1902 to July 1908 (published as West Fork of Walker River near Coleville 1903, 1905-8 and as Walker River (West Fork) near Coleville 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft (1,682 m), from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 1, 1909, to Aug. 31, 1910, nonrecording gage, and June 18, 1915, to Aug. 15, 1919, water-stage recorder near present site at different datums. Aug. 16, 1919, to Mar. 31, 1938, water-stage recorder at site 1,000 ft (300 m) upstream at different datum. May 26, 1957, to Sept. 10, 1963, water-stage recorder at site 10 ft (3 m) downstream at datum 0.38 ft (0.116 m) lower.

AVERAGE DISCHARGE.--47 years (1902-7, 1909-10, 1915-37, 1957-76), 273 ft³/s (7.731 m³/s), 197,800 acre-ft/yr (244 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 865 ft³/s (24.5 m³/s) May 14, gage height, 2.47 ft (0.753 m); minimum, 27 ft³/s (0.76 m³/s) Jan. 26.

Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 ft³/s (0.14 m³/s) Dec. 3, 1924, Aug. 27, 1931.

REMARKS.--Records good except those for winter periods, which are fair. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi (27 km) upstream.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	112	98	58	56	51	95	302	338	108	91	58
2	70	117	92	60	54	49	95	370	322	100	81	56
3	69	117	90	65	56	51	99	347	296	93	75	55
4	68	119	89	72	50	53	104	374	273	90	64	54
5	67	118	88	74	50	52	97	373	254	88	60	60
6	68	113	86	65	50	54	101	333	247	84	57	78
7	91	115	80	68	50	56	102	268	241	82	54	63
8	87	148	81	68	54	59	116	296	236	80	52	56
9	81	121	82	66	58	62	101	365	220	76	51	51
10	92	119	85	59	62	67	106	410	208	74	49	50
11	122	108	80	68	55	69	102	473	192	71	47	78
12	111	119	86	64	60	65	98	538	184	70	46	104
13	100	119	72	64	63	69	100	603	191	66	45	86
14	97	117	63	65	63	74	101	719	198	61	56	74
15	98	112	60	61	58	80	99	658	196	64	76	69
16	100	109	60	63	59	85	87	580	220	81	103	68
17	101	99	62	63	64	91	91	613	227	106	97	63
18	101	83	62	60	61	95	105	535	217	96	94	60
19	97	68	61	61	59	77	98	469	220	83	96	58
20	95	75	62	60	57	82	118	431	212	74	106	57
21	94	70	68	60	55	85	147	419	195	67	95	61
22	99	76	79	60	54	91	155	367	178	64	88	60
23	99	81	73	66	55	91	163	379	159	67	85	58
24	90	78	80	60	60	96	200	379	147	73	79	56
25	95	91	74	56	63	92	243	412	143	66	75	54
26	122	89	74	55	65	87	203	425	140	70	71	54
27	190	86	78	58	64	88	174	455	132	65	68	52
28	133	90	76	54	67	85	159	451	126	67	66	50
29	123	76	74	57	68	84	170	360	125	82	64	55
30	115	80	73	57	---	87	214	343	116	71	62	66
31	115	---	59	54	---	98	---	343	---	80	60	---
TOTAL	3062	3025	2347	1921	1690	2325	3843	13390	6153	2419	2213	1864
MEAN	98.8	101	75.7	62.0	58.3	75.0	128	432	205	78.0	71.4	62.1
MAX	190	148	98	74	68	98	243	719	338	108	106	104
MIN	67	68	59	54	50	49	87	268	116	61	45	50
AC-FT	6070	6000	4660	3810	3350	4610	7620	26560	12200	4800	4390	3700

CAL YR 1975 TOTAL 117779 MEAN 323 MAX 2040 MIN 48 AC-FT 233600
WTR YR 1976 TOTAL 44252 MEAN 121 MAX 719 MIN 45 AC-FT 87770

PEAK DISCHARGE (BASE, 1,120 FT³/S).--NO PEAK ABOVE BASE.

WALKER LAKE BASIN

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10297000 Topaz Lake near Topaz, Calif.

LOCATION.--Lat 38°41'35", long 119°31'10", in NW¼NE¼ sec.33, T.10 N., R.22 E., Douglas County, at outlet works of Topaz Lake on West Walker River, 5.5 mi (8.8 km) north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Float and nonrecording gages read once daily. Datum of gage is at mean sea level (levels by Walker River Irrigation District).

EXTREMES.--Current year: Maximum contents, 50,000 acre-ft (61.6 hm³) April 6, 7, 9-11, elevation 5,000.77 ft (1,524.235 m); minimum 5,790 acre-ft (7.14 hm³) Sept. 16, elevation, 4,976.03 ft (1,516.694 m).

Period of record: Maximum contents, 60,310 acre-ft (74.4 hm³) June 23, 1974, elevation, 5,005.38 ft (1,525.640 m); no contents Oct. 31, 1924, Sept. 22, 24-30, Oct. 1-15, 1960.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft (73.3 hm³) between elevations 4,972.3 ft (1,515.56 m) lowest practical elevation for diversion through tunnel (bottom of outlet tunnel at elevation, 4,970 ft or 1,515 m) and 5,005 ft (1,526 m), 3 ft (0.9 m) below top of levee. Usable capacity of reservoir was increased from about 45,000 acre-ft (55.5 hm³) to 59,440 acre-ft (73.3 hm³) in October 1937 by an earth-fill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft (80.1 hm³) of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

COOPERATION.--Elevations furnished by Walker River Irrigation District.

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

4,975	4,180	4,995	38,100
4,980	12,130	5,000	48,350
4,985	20,390	5,005	59,440
4,990	28,970		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22420	24210	31210	36600	41490	46520	49790	47490	39970	27610	13450	8020
2	22320	24520	31470	36690	41630	46650	49810	47370	39470	26970	13380	7730
3	22220	24800	31710	36840	41800	46770	49870	47320	38860	26350	13380	7450
4	22120	25110	31940	36900	41980	46940	49940	47180	38250	25690	13370	7210
5	22050	25360	32120	37090	42140	47070	49980	47030	37590	25040	13330	7210
6	21940	25590	32300	37260	42310	47220	50000	46880	36940	24300	13350	6780
7	21790	25840	32500	37460	42470	47390	50000	46650	36370	23550	13330	6580
8	21660	26090	32680	37610	42650	47560	49980	46270	35750	22810	13320	6370
9	21370	26360	32870	37780	42860	47710	50000	45850	35150	22050	13270	6250
10	21580	26640	33050	37960	43060	47860	50000	45590	34600	21290	13220	6060
11	21640	26880	33250	38130	43270	48000	50000	45450	34010	20590	13120	6040
12	21780	27120	33430	38270	43390	48090	49960	45380	33810	19910	13020	5930
13	21860	27380	33620	38410	43560	48220	49920	45360	33380	19200	12910	5840
14	21980	27700	33760	38560	43700	48370	49920	45550	33290	18480	12800	5820
15	22050	27890	33910	38720	43870	48470	49850	45930	33240	17880	12550	5820
16	22130	28180	34030	38880	44050	48560	49810	46100	33200	17270	12280	5790
17	22220	28390	34180	39010	44300	48670	49760	46120	33180	16790	12000	5810
18	22220	28620	34340	39210	44530	48880	49740	46100	33160	16360	11730	5820
19	22180	28780	34470	39390	44740	48970	49720	45870	33140	15960	11500	5820
20	22200	28800	34640	39550	45030	49080	49720	45490	33110	15580	11270	5820
21	22200	29180	34800	39710	45030	49160	49680	45070	32980	15180	11060	5820
22	22240	29390	34970	39850	45180	49270	49610	44630	32710	14820	10850	5840
23	22290	29600	35110	40010	45320	49270	49440	44090	32390	14500	10630	5840
24	22390	29830	35280	40200	45490	49350	49230	43600	31980	14450	10360	5840
25	22510	30040	35470	40380	45590	49550	49080	43100	31550	14330	10100	5850
26	22680	30270	35630	40530	45740	49550	48860	42690	31050	14250	9790	5870
27	22850	30450	35820	40690	45890	49590	48620	42370	30460	14130	9500	5880
28	23190	30640	35970	40830	46060	49590	48430	42060	29870	13970	9230	5880
29	23480	30870	36140	41010	46180	49640	48030	41740	29180	13770	8940	5900
30	23700	31050	36330	41170	---	49700	47710	41230	28340	13630	8670	5900
31	23960	---	36480	41330	---	49740	---	40730	---	13560	8340	---
MAX	23960	31050	36480	41330	46180	49740	50000	47490	39970	27610	13450	8020
MIN	21370	24210	31210	36600	41490	46520	47710	40730	28340	13560	8340	5790
(†)	4987.10	4991.18	4994.16	4996.63	4998.98	5000.65	4999.70	4996.33	4989.64	4980.88	4977.64	4976.10
(‡)	+1450	+7090	+5430	+4850	+4850	+3560	-2030	-6980	-12390	-14780	-5220	-2440

CAL YR 1975 MAX 59970 MIN 21370 † +5980
WTR YR 1976 MAX 50000 MIN 5790 ‡ -16610

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

WALKER LAKE BASIN

10297500 West Walker River at Hoyo Bridge, near Wellington, Nev.

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, on left bank 20 ft (6 m) upstream from Hovey Bridge, 2 mi (3 km) upstream from head of Saroni Canal, and 4 mi (6 km) southwest of Wellington.

DRAINAGE AREA.--533 mi² (1,380 km²).

PERIOD OF RECORD.--May to August 1910 (published as West Walker River near Wellington), July 1920 to September 1923, March 1924 to August 1925, October 1925 to September 1932, October 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft (1,518 m), from topographic map. May to August 1910, nonrecording gage at same site at different datum. July 1, 1920, to Sept. 30, 1923, water-stage recorder at site 3 mi (5 km) downstream, 1 mi (2 km) downstream from Saroni Canal, at different datum, and supplemental nonrecording gage at Saroni Canal 1 mi (2 km) downstream from head. Mar. 1, 1924, to Sept. 30, 1932, water-stage recorder at same site at different datum.

AVERAGE DISCHARGE.--29 years (1920-23, 1925-32, 1957-76), 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 521 ft³/s (14.8 m³/s) May 18, gage height, 4.58 ft (1.396 m); minimum, 22 ft³/s (0.62 m³/s) Jan. 22, Aug. 7.

Period of record: Maximum discharge, 2,180 ft³/s (61.7 m³/s) June 6, 1922, minimum observed, 4.8 ft³/s (0.14 m³/s) Jan. 5, 1961.

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres (42.5 km²) above station. Records include releases from Topaz Lake and all return flow from Antelope Valley.

REVISED RECORDS.--WSP 2127: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	44	29	30	27	29	26	243	499	345	67	163
2	110	32	30	28	27	29	26	280	492	321	65	152
3	109	31	30	30	26	29	26	315	489	323	51	133
4	106	32	29	30	27	28	29	335	466	335	50	127
5	90	43	30	30	26	28	39	340	451	340	34	122
6	93	44	30	29	26	27	50	377	442	381	25	116
7	143	44	30	28	27	27	52	405	438	376	23	112
8	131	45	31	27	29	27	54	404	415	374	43	106
9	121	45	31	27	28	27	53	393	418	384	45	96
10	102	45	31	27	28	27	54	399	370	373	59	93
11	96	46	31	27	28	27	54	414	303	338	64	80
12	80	46	31	27	28	27	56	448	258	339	63	64
13	79	34	31	27	28	27	90	447	150	367	64	60
14	80	33	30	27	28	27	92	448	113	344	80	33
15	96	32	30	27	28	27	91	455	114	321	134	30
16	93	27	31	28	29	27	92	487	105	294	138	29
17	88	27	31	28	29	26	76	515	89	259	144	29
18	117	27	31	28	30	25	75	519	90	232	142	29
19	120	27	32	28	28	26	73	517	137	217	140	28
20	119	27	32	28	29	27	77	510	148	198	137	28
21	108	27	32	26	29	26	91	509	154	192	134	28
22	89	27	31	26	28	26	133	500	220	176	131	28
23	85	27	31	26	28	26	178	494	226	163	133	29
24	84	27	31	26	27	25	183	491	252	102	160	29
25	73	27	32	26	27	25	211	487	266	83	149	29
26	70	27	32	26	27	26	213	482	291	80	148	29
27	70	29	33	26	26	26	218	458	315	82	158	29
28	69	29	33	26	27	26	221	457	335	105	146	28
29	51	29	33	27	27	27	237	465	389	120	155	29
30	50	29	34	27	---	26	238	473	381	100	153	38
31	50	---	33	27	---	25	---	506	---	82	170	---
TOTAL	2881	1009	966	850	802	828	3108	13573	8816	7746	3205	1926
MEAN	92.9	33.6	31.2	27.4	27.7	26.7	104	438	294	250	103	64.2
MAX	143	46	34	30	30	29	238	519	499	384	170	163
MIN	50	27	29	26	26	25	26	243	89	80	23	28
AC-FT	5710	2000	1920	1690	1590	1640	6160	26920	17490	15360	6360	3820
CAL YR 1975	TOTAL	109978	MEAN 301	MAX 1710	MIN 23	AC-FT 218100						
WTR YR 1976	TOTAL	45710	MEAN 125	MAX 519	MIN 23	AC-FT 90670						

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, on left bank 0.5 mi (0.8 km) upstream from Wilson Canyon and 3 mi (5 km) southeast of Hudson.

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year. August 1914 to May 1921 published as "at Hudson."

AVERAGE DISCHARGE.--39 years (1914-24, 1947-76), 192 ft³/s (5.437 m³/s), 139,100 acre-ft/yr (172 hm³/yr).

Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) Dec. 24, 1955, gage height, 7.42 ft (2.262 m) from floodmarks; minimum, 3.8 ft³/s (0.11 m³/s) Jan. 22, 1962, but may have been less during periods of ice effect.

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	66	60	56	51	58	57	182	330	189	66	106
2	67	64	60	54	50	53	57	207	309	176	58	103
3	62	60	58	55	48	55	58	225	310	172	64	91
4	64	61	59	54	49	55	59	229	300	177	63	79
5	66	59	59	58	48	54	61	230	297	174	59	83
6	66	63	59	58	47	52	63	253	295	204	53	90
7	77	65	58	54	48	52	61	277	299	214	49	84
8	103	67	59	53	50	52	78	283	290	212	50	80
9	105	69	59	54	50	50	79	279	291	221	58	80
10	100	70	59	54	50	49	82	282	286	215	49	83
11	92	72	59	53	49	49	83	280	248	192	53	87
12	85	71	59	52	47	48	83	301	238	176	48	74
13	78	74	59	51	49	50	89	303	193	190	49	70
14	68	67	58	52	52	52	101	292	127	189	55	60
15	67	59	58	52	51	52	98	289	107	172	86	48
16	78	57	57	52	52	54	97	310	99	167	123	45
17	72	55	57	51	57	55	92	323	82	163	115	43
18	79	55	57	52	56	55	88	328	76	156	86	41
19	91	54	57	53	54	54	91	343	69	145	70	40
20	95	56	57	51	49	55	91	336	67	141	69	41
21	95	57	58	50	47	55	104	338	68	128	64	38
22	87	55	59	50	46	56	102	333	87	123	67	36
23	77	58	58	51	46	56	120	336	110	128	67	37
24	84	59	58	53	50	57	138	333	119	107	77	38
25	83	60	58	53	49	56	154	325	142	85	74	38
26	73	59	58	52	49	56	167	319	166	65	72	38
27	70	60	59	52	50	56	175	318	199	62	70	39
28	70	62	58	52	49	57	179	313	206	73	68	42
29	73	60	57	52	52	57	179	315	229	79	76	44
30	70	59	57	52	---	57	175	317	221	74	82	43
31	69	---	57	51	---	57	---	330	---	66	93	---
TOTAL	2430	1853	1805	1637	1445	1674	3061	9139	5860	4635	2133	1821
MEAN	78.4	61.8	58.2	52.8	49.8	54.0	102	295	195	150	68.8	60.7
MAX	105	74	60	58	57	58	179	343	330	221	123	106
MIN	62	54	57	50	46	48	57	182	67	62	48	36
AC-FT	4820	3680	3580	3250	2870	3320	6070	18130	11620	9190	4230	3610
CAL YR 1975	TOTAL	83160	MEAN 228	MAX	1410	MIN 47	AC-FT	164900				
WTR YR 1976	TOTAL	37493	MEAN 102	MAX	343	MIN 36	AC-FT	74370				

WALKER LAKE BASIN

10300600 Walker River near Mason, Nev.

LOCATION.--Lat 38°55'11", long 119°11'20", in SW¼NE¼ sec.9, T.12 N., R.25 E., Lyon County, on right bank 50 ft (15 m) downstream from bridge, 2 mi (3 km) south of Mason, and 5 mi (8 km) south-southwest of Yerington.

DRAINAGE AREA.--2,400 mi² (6,200 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 326 ft³/s (9.23 m³/s) July 24, gage height, 5.48 ft (1.670 m); minimum, 51 ft³/s (1.44 m³/s) Sept. 27.

Period of record: Maximum discharge, 1,550 ft³/s (43.9 m³/s) June 9, 1975, gage height, 8.10 ft (2.469 m); minimum, 51 ft³/s (1.44 m³/s) Sept. 27, 1975.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 km³).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	94	81	88	86	86	61	130	278	172	156	136
2	98	94	84	78	87	84	60	125	255	162	152	148
3	78	84	87	74	83	82	60	130	250	152	104	123
4	72	87	88	76	82	82	56	140	255	150	95	101
5	72	87	85	86	75	82	54	150	260	150	96	96
6	76	81	80	99	77	80	60	150	262	160	89	105
7	83	73	76	98	79	80	59	140	262	180	86	108
8	88	64	73	86	79	82	65	145	264	180	82	105
9	84	64	72	82	92	84	71	150	268	195	82	93
10	84	72	73	92	96	83	71	180	281	185	79	92
11	86	81	76	90	85	82	72	216	242	164	74	110
12	88	85	79	90	90	80	72	210	230	148	71	110
13	93	93	72	90	84	80	70	204	206	158	66	105
14	98	100	66	89	90	83	76	195	136	170	60	115
15	98	84	62	89	93	82	76	187	105	168	65	105
16	108	79	67	90	92	82	80	213	102	162	85	98
17	112	76	72	90	98	83	74	235	90	170	75	86
18	111	76	70	89	98	80	71	240	89	160	79	74
19	102	73	72	89	93	75	75	262	83	132	78	71
20	96	76	77	89	87	76	75	262	78	125	96	75
21	96	75	78	86	84	78	79	281	75	108	112	70
22	85	68	93	87	83	76	82	270	78	110	123	71
23	82	68	100	87	83	75	86	273	95	107	132	67
24	80	74	110	90	87	69	104	273	83	180	132	57
25	94	74	100	90	89	67	115	268	99	98	139	54
26	110	74	120	89	87	65	132	260	118	72	117	53
27	110	77	117	87	86	61	132	255	150	63	105	51
28	103	78	110	87	82	62	134	247	170	70	102	56
29	90	72	105	89	82	67	132	250	187	86	104	58
30	80	76	100	87	---	69	134	250	200	112	115	60
31	86	---	95	86	---	65	---	265	---	105	118	---
TOTAL	2852	2359	2640	2719	2509	2382	2488	6556	5255	4354	3069	2653
MEAN	92.0	78.6	85.2	87.7	86.5	76.8	82.9	211	175	140	99.0	88.4
MAX	112	100	120	99	98	86	134	281	281	195	156	148
MIN	72	64	62	74	75	61	54	125	75	63	60	51
AC-FT	5660	4680	5240	5390	4980	4720	4930	13000	10420	8640	6090	5260

CAL YR 1975 TOTAL 108825 MEAN 298 MAX 1520 MIN 62 AC-FT 215900
WTR YR 1976 TOTAL 39836 MEAN 109 MAX 281 MIN 51 AC-FT 79010

NOTE.--No gage-height Oct. 1 to Jan. 13, Apr. 30 to May 13.

WALKER LAKE BASIN

10301500 Walker River near Wabuska, Nev.
(National stream quality accounting network and pesticide network station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE¼NW¼ sec.20, T.15 N., R.26 E., Lyon County, on left bank 600 ft (180 m) upstream from timber bridge at Julian Ranch, 1.8 mi (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 mi (7.4 km) east of Wabuska, and 16 mi (26 km) upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi² (6,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1902 to December 1904, January 1905 to July 1908 (fragmentary), January 1920 to September 1935, January 1939 to current year. Monthly discharge only for some periods published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m), from topographic map. July 22, 1902, to July 31, 1908, non-recording gage at site 2.5 mi (4.0 km) upstream at different datum. Jan. 15, 1920, to Sept. 30, 1929, nonrecording gage or water-stage recorder at several sites near present site at various datums; Oct. 1, 1929, to Sept. 30, 1935, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum. January 1939 to September 1958, nonrecording gage on bridge 300 ft (90 m) downstream at datum 1.19' ft (0.363 m) higher.

AVERAGE DISCHARGE.--51 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-76), 158 ft³/s (4.475 m³/s), 114,500 acre-ft/yr (141 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 201 ft³/s (5.7 m³/s) July 25, gage height, 4.36 ft (1.329 m); minimum, 8.5 ft³/s (0.24 m³/s) June 26.

Period of record: Maximum discharge observed, 3,280 ft³/s (92.9 m³/s) July 10, 11, 1906, gage height, 5.90 ft (1.798 m), site and datum then in use; no flow at times in 1924, 1925, 1931.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm³).

REVISED RECORDS.--WSP 1314: 1923 (M). WSP 1634: 1904.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	103	80	92	99	109	34	47	59	31	59	25
2	57	88	91	76	97	111	32	38	61	25	144	47
3	51	82	92	75	95	107	30	41	55	22	95	54
4	48	94	94	78	85	105	25	52	49	16	62	57
5	50	95	88	90	80	105	27	44	38	17	59	34
6	63	81	85	117	80	112	40	42	40	14	53	38
7	76	72	86	128	80	117	30	41	38	11	42	56
8	70	63	86	119	84	117	25	34	37	11	33	44
9	70	65	81	111	83	117	36	37	40	10	31	45
10	74	74	79	110	82	112	46	35	101	15	35	27
11	76	83	79	122	83	104	46	34	129	32	25	28
12	79	85	81	117	85	100	49	40	114	23	23	57
13	82	91	72	111	95	100	40	50	92	13	24	56
14	79	98	64	111	110	108	32	46	55	14	24	62
15	98	86	60	111	120	98	36	36	35	36	19	75
16	106	81	60	109	122	98	43	35	37	48	21	71
17	111	81	65	104	126	92	37	36	28	51	18	66
18	108	81	70	101	129	108	38	38	25	77	16	54
19	94	72	71	108	124	71	36	45	20	65	15	46
20	98	79	78	98	117	74	30	57	16	44	13	46
21	78	72	74	98	108	72	37	51	15	37	26	44
22	78	69	80	95	106	72	48	46	14	27	52	40
23	72	70	111	95	108	66	47	45	13	34	67	43
24	67	76	121	108	112	56	44	48	13	35	64	33
25	83	74	122	109	106	51	51	58	12	111	70	26
26	103	75	122	106	101	49	49	58	12	32	56	22
27	117	76	122	101	104	44	43	61	12	11	32	21
28	104	79	119	94	106	40	38	56	14	9.9	22	15
29	89	71	121	97	108	41	47	63	22	11	19	10
30	82	70	114	97	---	42	57	52	30	16	20	10
31	95	---	98	97	---	40	---	50	---	40	25	---
TOTAL	2529	2386	2766	3185	2935	2638	1173	1416	1226	938.9	1264	1252
MEAN	81.6	79.5	89.2	103	101	85.1	39.1	45.7	40.9	30.3	40.8	41.7
MAX	117	103	122	128	129	117	57	63	129	111	144	75
MIN	48	63	60	75	80	40	25	34	12	9.9	13	10
AC-FT	5020	4730	5490	6320	5820	5230	2330	2810	2430	1860	2510	2480
CAL YR 1975	TOTAL	81543.0	MEAN 223	MAX 1320	MIN 48	AC-FT 161700						
WTR YR 1976	TOTAL	23708.9	MEAN 64.8	MAX 144	MIN 9.9	AC-FT 47030						

10301500 Walker River near Wabuska, Nev.--Continued

WATER-QUALITY RECORDS

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

Water temperatures: February 1960 to current year (data prior to Oct. 1968, which were collected monthly or less frequently, are unpublished).

Biological data: October 1974 to current year.

Sediment records: October 1973 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum daily, 785 micromhos Apr. 10; minimum daily, 356 micromhos Aug. 30.

Water temperature: Maximum daily, 31.0°C July 5; minimum daily, freezing point Dec. 31, Feb. 6, 7.

Suspended-sediment concentration: Maximum, 467 mg/l Sept. 15; minimum, 34 mg/l Apr. 8.

Period of record:

Specific conductance: Maximum daily, 792 micromhos Dec. 12, 1972; minimum daily, 183 micromhos June 26, 1969.

Water temperature (1968 to current year): Maximum daily, 34.5°C July 24, 1975; minimum daily, freezing point on several days during winter months of most years.

Suspended-sediment concentration (1974 to current year): Maximum, 1,720 mg/l Mar. 27, 1975; minimum, 25 mg/l Oct. 24, 1974.

REMARKS.--Inflow from two drainage ditches enters stream less than a mile (1.6 km) above sampling site. Because inflow and stream-flow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous, either chemically or thermally. This doubtless is responsible for some variation shown by daily specific-conductance and temperature data. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev. Extremes for specific conductance and water temperature are based on daily data; extremes for sediment concentration are based on monthly data. Pesticide analyses by U.S. Environmental Protection Agency.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DTS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
03...	1330	52	--	--	--	--	--	--	--	--	--
NOV.											
04...	1125	89	--	--	--	--	--	--	--	--	--
DEC.											
10...	1350	78	24	49	12	75	5.9	262	--	78	22
JAN.											
16...	1350	104	--	--	--	--	--	--	--	--	--
FEB.											
13...	1200	100	--	--	--	--	--	--	--	--	--
MAR.											
09...	1030	114	--	--	--	--	--	--	--	--	--
APR.											
08...	1130	24	27	59	14	85	6.0	255	8	120	39
MAY											
19...	1200	41	--	--	--	--	--	--	--	--	--
JUNE											
16...	1230	37	25	48	11	68	5.6	236	0	81	26
JULY											
16...	1215	49	--	--	--	--	--	--	--	--	--
AUG.											
12...	1325	25	28	46	11	67	7.1	234	0	88	26
SEP.											
15...	1140	76	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
03...	--	.05	.00	.01	--	.82	--	.88	.19	--	--
NOV.											
04...	--	.05	.00	.01	--	.55	--	.61	.10	--	--
DEC.											
10...	.9	.27	.01	.10	.01	.67	.65	1.1	.13	.07	6.9
JAN.											
16...	--	.49	.01	.03	--	.12	--	.65	.14	--	--
FEB.											
13...	--	.56	.01	.07	--	.69	--	1.3	.18	--	--
MAR.											
09...	--	.43	.01	.09	--	.52	--	1.1	.16	--	--
APR.											
08...	.9	.14	.01	.04	.02	.29	--	.48	.11	.10	3.9
MAY											
19...	--	.09	.01	.05	--	.81	--	.96	.30	--	--
JUNE											
16...	.9	.44	.01	.05	.02	.52	.40	1.0	.14	.10	4.8
JULY											
16...	--	.04	.01	.08	--	.41	--	.54	.14	--	--
AUG.											
12...	.9	.06	.01	.02	.00	.52	.13	.61	.33	.14	5.8
SEP.											
15...	--	.18	.04	.11	--	1.1	--	1.4	.57	--	--

WALKER RIVER BASIN

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10301500 Walker River near Wabuska, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (PESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA, MG) (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 03...	--	--	--	--	--	550	--	19.0	10	84	230
NOV. 04...	--	--	--	--	--	589	--	7.5	6	--	--
DEC. 10...	403	396	84.9	170	2.5	642	--	6.0	7	1	46
JAN. 16...	--	--	--	--	--	618	8.5	5.0	15	1	56
FEB. 13...	--	--	--	--	--	608	8.5	4.0	20	1	50
MAR. 09...	--	--	--	--	--	600	8.3	6.0	17	1	16
APR. 08...	503	485	32.6	210	2.6	779	8.5	8.0	8	68	82
MAY 19...	--	--	--	--	--	543	8.6	23.0	40	80	8130
JUNE 16...	364	382	36.4	170	2.3	615	8.4	22.5	2	108	77
JULY 16...	--	--	--	--	--	381	8.2	20.5	5	49	613
AUG. 12...	362	389	24.4	160	2.3	590	8.5	28.0	80	79	124
SEP. 15...	--	--	--	--	--	416	8.4	16.0	120	8860	610

B: NON-IDEAL COLONY COUNT

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CORALIT (CO) (UG/L)	DIS-SOLVED CORALIT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
DEC. 10...	1350	25	20	<10	0	0	0	<50	0	20	2	780
APR. 08...	1130	21	21	<10	1	0	0	<50	2	10	1	780
JUNE 16...	1230	28	28	<10	0	20	0	0	0	<10	3	1100
AUG. 12...	1325	20	20	--	0	0	0	<50	0	20	2	6400

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 10...		0	<100	0	80	30	.2	.2	0	0	40	0
APR. 08...		20	<100	1	170	130	.0	.0	0	0	20	0
JUNE 16...		20	<100	0	100	20	.1	.0	1	0	40	0
AUG. 12...		20	<100	1	240	30	.1	.0	0	0	20	0

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)
DEC. 10...	1350	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUNE 16...	1230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 12...	1325	ND	--	ND	--	ND	--	ND	--	ND	--

WALKER RIVER BASIN

10301500 Walker River near Wabuska, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
DEC. 10...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUNE 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 12...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)
DEC. 10...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUNE 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 12...	--	ND	--	ND	--	ND	--	ND	--	ND	--	--

DATE	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENF (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL ATRA- ZINE (UG/L)	TOTAL SILVEX (UG/L)
DEC. 10...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUNE 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 12...	ND	--	ND	--	ND	--	ND	ND	ND	ND

2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	ATRA- ZINE IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
---	---	---	--

ND	ND	ND	ND
----	----	----	----

ND	ND	ND	ND
----	----	----	----

--	--	--	--
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ND: NOT DETECTED

10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 03	1330	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	180	7	
		Volvocales			
		Chlamydomonadaceae			
		<u>Chlamydomonas</u>	91	3	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	220	8	
		<u>Melosira</u>	91	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	450	17	
		<u>Rhoicosphenia</u>	91	3	
		Cymbellaceae			
		<u>Cymbella</u>	130	5	
		Diatomaceae			
		<u>Diatoma</u>	180	7	
		Fragilariaceae			
		<u>Fragilaria</u>	45	2	
		<u>Synedra</u>	45	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	45	2	
		Naviculaceae			
		<u>Navicula</u>	400	15	
		<u>Pinnularia</u>	45	2	
		Nitzschaceae			
		<u>Nitzschia</u>	450	17	
		Surirellaceae			
		<u>Surirella</u>	91	3	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Euglena</u>	91	3	
		TOTAL	2600		
Nov 04	1125	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Crucigenia</u>	2000	49	
		<u>Scenedesmus</u>	160	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	120	3	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	82	2	
		<u>Cocconeis</u>	41	1	
		Diatomaceae			
		<u>Diatoma</u>	160	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	120	3	
		Naviculaceae			
		<u>Navicula</u>	250	6	
		Nitzschaceae			
		<u>Nitzschia</u>	450	11	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	610	15	
		TOTAL	4000		

WALKER RIVER BASIN

10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Dec 10	1350	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	26	3	
		<u>Melosira</u>	26	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	78	8	
		<u>Rhoicosphenia</u>	26	3	
		Cymbellaceae			
		<u>Cymbella</u>	52	6	
		Diatomaceae			
		<u>Diatoma</u>	260	28	
		Naviculaceae			
		<u>Navicula</u>	260	28	
		Nitzschiaceae			
		<u>Nitzschia</u>	130	14	
		Surirellaceae			
		<u>Surirella</u>	78	8	
		TOTAL	930		
Jan 16	1300	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	84	3	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	42	1	
		<u>Cocconeis</u>	170	6	
		Cymbellaceae			
		<u>Amphora</u>	42	1	
		<u>Cymbella</u>	42	1	
		Diatomaceae			
		<u>Diatoma</u>	290	10	
		Fragilariaceae			
		<u>Synedra</u>	84	3	
		Gomphonemataceae			
		<u>Gomphonema</u>	420	14	
		Naviculaceae			
		<u>Navicula</u>	1100	39	
		Nitzschiaceae			
		<u>Nitzschia</u>	500	17	
		Surirellaceae			
		<u>Surirella</u>	42	1	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	42	1	
		TOTAL	2900		
Feb 13	1200	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Volvocales			
		Chlamydomonadaceae			
		<u>Chlamydomonas</u>	110	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	110	4	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	110	4	
		Cymbellaceae			
		<u>Amphora</u>	110	4	
		<u>Cymbella</u>	220	7	
		Diatomaceae			
		<u>Diatoma</u>	110	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	220	7	
		Naviculaceae			
		<u>Navicula</u>	1500	46	
		Nitzschiaceae			
		<u>Nitzschia</u>	560	18	
		Surirellaceae			
		<u>Surirella</u>	110	4	
		TOTAL	3100		

WALKER RIVER BASIN

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10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Mar 09	1030	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	82	2	
		<u>Melosira</u>	82	2	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	330	8	
		Cymbellaceae			
		<u>Cymbella</u>	82	2	
		Diatomaceae			
		<u>Diatoma</u>	82	2	
		Fragilariaceae			
		<u>Fragilaria</u>	82	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	330	8	
		Naviculaceae			
		<u>Anomoeoneis</u>	82	2	
		<u>Navicula</u>	1300	33	
		Nitzschiaceae			
		<u>Nitzschia</u>	1100	29	
		Surirellaceae			
		<u>Surirella</u>	250	6	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	82	2	
		TOTAL	3900		

WALKER RIVER BASIN

10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 08	1130	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	230	12	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	57	3	
		<u>Cocconeis</u>	57	3	
		Fragilariaceae			
		<u>Fragilaria</u>	57	3	
		Gomphonemataceae			
		<u>Gomphonema</u>	230	12	
		Naviculaceae			
		<u>Navicula</u>	230	12	
		Nitzschiaceae			
		<u>Nitzschia</u>	970	50	
		Surirellaceae			
		<u>Surirella</u>	110	6	
		TOTAL	1900		
May 19	1200	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	28	1	
		Occystaceae			
		<u>Ankistrodesmus</u>	14	1	
		<u>Tetraedron</u>	84	4	
		Scenedesmaceae			
		<u>Scenedesmus</u>	140	7	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	14	1	
		<u>Melosira</u>	280	15	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	14	1	
		<u>Cocconeis</u>	210	11	
		Cymbellaceae			
		<u>Cymbella</u>	42	2	
		Fragilariaceae			
		<u>Fragilaria</u>	14	1	
		<u>Synedra</u>	84	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	56	3	
		Naviculaceae			
		<u>Navicula</u>	290	15	
		<u>Pinnularia</u>	14	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	84	4	
		Surirellaceae			
		<u>Surirella</u>	110	6	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	420	22	
		TOTAL	1900		

10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jun 16	1230	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	35	1	
		<u>Tetraedron</u>	35	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	210	9	
		<u>Melosira</u>	100	4	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	70	3	
		Cymbellaceae			
		<u>Cymbella</u>	35	1	
		<u>Epithemia</u>	100	4	
		Diatomaceae			
		<u>Diatoma</u>	70	3	
		Fragilariaceae			
		<u>Fragilaria</u>	240	10	
		<u>Synedra</u>	35	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	100	4	
		Naviculaceae			
		<u>Navicula</u>	560	24	
		<u>Pinnularia</u>	70	3	
		Nitzschiaceae			
		<u>Nitzschia</u>	590	25	
		Surirellaceae			
		<u>Surirella</u>	35	1	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Euglena</u>	35	1	
		TOTAL	2300		
Jul 16	1215	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	160	1	
		<u>Oocystis</u>	640	5	
		<u>Tetraedron</u>	80	1	
		Scenedesmaceae			
		<u>Crucigenia</u>	640	5	
		<u>Scenedesmus</u>	640	5	
		Volvocales			
		Volvocaceae			
		<u>Pandorina</u>	640	5	
		Zygnematales			
		Desmidiaceae			
		<u>Staurastrum</u>	80	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	400	3	
		<u>Melosira</u>	720	6	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	160	1	
		Cymbellaceae			
		<u>Rhopalodia</u>	80	1	
		Diatomaceae			
		<u>Diatoma</u>	80	1	
		Fragilariaceae			
		<u>Fragilaria</u>	3700	29	
		Gomphonemataceae			
		<u>Gomphonema</u>	480	4	
		Naviculaceae			
		<u>Caloneis</u>	80	1	
		<u>Navicula</u>	1400	11	
		Nitzschiaceae			
		<u>Nitzschia</u>	1000	8	
		Surirellaceae			
		<u>Surirella</u>	80	1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Nostocaceae			
		<u>Anabaena</u>	320	3	
		Oscillatoriaceae			
		<u>Oscillatoria</u>	1300	10	
		TOTAL	13000		

WALKER RIVER BASIN

10301500 Walker River near Wabuska, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Aug 12	1325	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Volvocales			
		Chlamydomonadaceae			
		<u>Chlamydomonas</u>	310	7	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	1400	30	
		<u>Melosira</u>	160	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	100	2	
		Cymbellaceae			
		<u>Amphora</u>	52	1	
		<u>Cymbella</u>	100	2	
		Diatomaceae			
		<u>Diatoma</u>	52	1	
		Fragilariaceae			
		<u>Fragilaria</u>	260	5	
		<u>Synedra</u>	100	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	160	3	
		Naviculaceae			
		<u>Navicula</u>	840	18	
		Nitzschaceae			
		<u>Nitzschia</u>	780	16	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	420	9	
		TOTAL	4800		
Sep 15	1140	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Zygnematales			
		Desmidiaceae			
		<u>Staurastrum</u>	260	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	260	1	
		<u>Stephanodiscus</u>	1000	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	260	1	
		Cymbellaceae			
		<u>Cymbella</u>	260	1	
		<u>Epithemia</u>	520	1	
		Diatomaceae			
		<u>Diatoma</u>	520	1	
		Fragilariaceae			
		<u>Fragilaria</u>	2600	6	
		Gomphonemataceae			
		<u>Gomphonema</u>	1800	4	
		Naviculaceae			
		<u>Navicula</u>	2900	7	
		Nitzschaceae			
		<u>Nitzschia</u>	260	1	
		Surirellaceae			
		<u>Surirella</u>	520	1	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	260	1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Nostocaceae			
		<u>Aphanizomenon</u>	30000	72	
		TOTAL	41000		

10301500 Walker River near Wabuska, Nev.--Continued

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

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a	Chlorophyll b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
Sep 15	35	11.5	6.23	1.89	0.000	2800	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV.							
04...	1115	89	47	11	--	--	--
DEC.							
10...	1350	78	44	9.3	--	--	--
JAN.							
16...	1400	104	71	20	--	--	--
FEB.							
13...	1200	100	88	24	--	--	--
MAR.							
09...	1020	114	86	26	--	--	--
APR.							
08...	1130	24	34	2.2	--	--	--
MAY							
19...	1200	41	175	19	40	49	59
JUNE							
16...	1230	37	55	5.5	--	--	--
JULY							
16...	1215	49	52	6.9	--	--	--
AUG.							
12...	1325	25	212	14	--	--	--
SEP.							
15...	1140	76	467	96	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.							
04...	--	--	--	--	--	--	--
DEC.							
10...	--	--	--	--	--	--	--
JAN.							
16...	--	--	--	--	--	--	--
FEB.							
13...	--	--	--	--	--	--	--
MAR.							
09...	--	--	--	--	--	--	--
APR.							
08...	--	--	--	--	--	--	--
MAY							
19...	73	87	--	94	96	98	100
JUNE							
16...	--	--	--	--	--	--	--
JULY							
16...	--	--	--	--	--	--	--
AUG.							
12...	--	--	95	--	--	--	--
SEP.							
15...	--	--	91	--	--	--	--

WALKER RIVER BASIN

10301500 Walker River near Wabuska, Nev.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	562	611	627	608	628	654	634	403	488	457	400
2	523	562	607	675	600	612	662	632	546	491	473	387
3	551	575	607	632	600	603	693	564	552	544	457	369
4	528	578	605	680	607	612	723	550	548	522	495	411
5	516	594	606	644	633	612	743	549	635	527	502	417
6	505	605	578	626	608	612	693	660	588	381	502	414
7	479	612	604	621	614	621	693	514	602	679	530	420
8	490	627	605	630	635	617	712	512	586	616	547	409
9	481	612	599	594	597	612	743	552	571	482	553	424
10	475	612	613	594	595	595	785	562	452	472	547	412
11	486	612	618	595	616	610	640	558	526	461	580	414
12	493	612	614	611	617	605	648	558	498	---	522	414
13	488	612	596	611	617	605	693	531	495	375	522	441
14	490	612	658	612	615	595	700	520	595	371	530	417
15	475	612	682	612	614	606	675	510	597	372	553	430
16	484	628	658	615	617	589	682	491	626	379	550	476
17	490	630	663	612	617	612	703	443	641	388	482	498
18	479	630	673	612	643	594	717	507	654	433	583	584
19	486	650	671	612	645	619	703	507	704	445	597	545
20	490	631	663	612	655	612	712	539	676	426	568	517
21	515	642	660	626	655	598	770	547	677	438	417	565
22	539	644	639	630	651	601	748	594	690	491	418	520
23	563	651	631	630	639	629	735	562	671	495	469	527
24	595	634	620	628	617	632	707	481	677	---	461	543
25	548	627	604	626	626	626	648	489	703	646	415	532
26	542	621	606	630	622	650	610	493	646	581	495	532
27	548	625	606	630	608	667	710	546	610	589	479	535
28	551	630	609	621	626	671	689	562	546	403	441	529
29	539	650	604	596	635	650	630	520	452	405	449	560
30	548	632	605	610	---	665	627	520	455	445	356	568
31	554	---	618	598	---	650	---	484	---	453	404	---
MONTH	515	617	624	621	622	620	695	538	587	476	495	474
YEAR	MAX	785	MIN	356	MEAN	574						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	9.0	8.5	1.0	5.5	7.0	15.0	22.5	21.5	23.0	25.0	25.0
2	19.0	9.5	7.5	1.0	5.0	2.0	16.0	21.0	23.0	25.0	24.0	23.5
3	19.5	11.0	7.0	1.5	7.0	5.0	18.5	23.5	23.0	25.5	20.0	28.0
4	19.0	10.0	7.0	2.0	3.0	5.0	15.0	21.0	24.0	30.0	21.0	25.5
5	17.5	10.5	8.5	3.0	1.5	8.0	15.5	17.0	23.0	31.0	26.0	23.0
6	17.0	10.5	5.5	3.0	0.0	9.0	17.5	21.0	19.0	29.0	23.5	21.0
7	12.5	10.5	5.0	3.0	0.0	9.0	18.5	22.5	21.5	26.0	24.0	22.0
8	14.0	11.0	5.5	3.0	4.5	9.5	9.0	24.0	21.5	30.0	23.0	22.5
9	15.0	10.0	6.0	3.5	5.0	12.5	13.5	20.5	18.0	29.5	24.0	25.0
10	14.5	8.0	6.0	4.0	5.5	13.5	15.0	22.0	21.5	29.5	26.5	24.0
11	13.0	6.5	5.5	3.0	5.5	10.5	14.0	21.0	19.5	28.0	26.0	20.0
12	13.0	7.5	4.5	3.5	6.0	11.0	12.0	23.0	19.5	29.5	25.0	19.0
13	13.5	9.0	2.0	4.0	6.0	10.5	12.5	23.0	20.0	28.0	23.0	22.0
14	12.5	8.5	1.0	5.0	6.5	12.0	14.0	23.5	25.0	27.0	15.0	20.5
15	13.0	9.0	1.5	4.0	7.0	13.0	8.0	24.0	20.5	25.0	17.0	19.0
16	15.0	9.0	1.5	5.0	7.5	15.0	8.5	27.5	27.5	21.0	19.0	19.0
17	15.0	4.5	2.0	5.0	8.5	16.0	13.5	24.0	25.5	22.0	18.0	19.5
18	14.5	3.0	5.0	5.0	6.5	9.5	19.0	21.5	26.0	24.0	18.5	19.0
19	14.5	3.0	4.5	4.0	5.0	10.0	21.0	22.0	26.5	29.5	23.0	20.5
20	15.0	4.0	4.0	4.0	5.5	10.5	21.0	21.0	24.0	26.5	28.0	17.5
21	14.5	4.5	3.0	4.0	6.5	12.5	15.5	25.5	26.5	25.5	28.5	23.0
22	12.0	6.0	3.5	4.0	7.0	12.0	17.5	23.0	29.0	26.0	22.0	23.0
23	7.5	5.5	5.0	4.0	7.5	11.5	19.0	22.0	26.5	25.5	23.0	24.0
24	10.0	6.0	5.5	5.0	8.0	9.0	19.0	24.0	26.0	24.5	24.0	23.5
25	11.0	5.0	5.0	5.0	8.5	9.5	18.0	23.0	23.0	26.0	27.0	23.0
26	12.5	5.5	5.0	4.0	10.5	10.0	17.0	21.0	25.0	30.5	26.0	25.0
27	9.0	6.0	5.5	4.0	10.5	12.0	7.0	24.0	24.5	27.0	25.5	24.0
28	9.0	4.5	5.0	4.5	11.0	12.5	22.0	23.0	24.0	27.5	25.5	23.5
29	9.5	3.0	5.0	5.0	9.5	14.5	22.5	25.0	26.0	27.0	28.5	18.0
30	9.0	6.0	2.0	6.5	---	13.0	18.0	24.0	25.5	25.0	24.0	15.5
31	10.0	---	0.0	7.0	---	15.5	---	25.5	---	26.0	20.0	---
MONTH	13.0	7.0	4.5	4.0	6.0	10.5	16.0	23.0	23.5	27.0	23.5	22.0
YEAR	MAX	31.0	MIN	0.0	MEAN	15.0						

WALKER LAKE BASIN

10302010 Reese River Canyon near Schurz, Nev.

LOCATION.--Lat 38°51'00", long 118°46'55", in NE¼NW¼ sec.6, T.11 N., R.29 E., Mineral County, on left bank at abandoned culvert on former U.S. Highway 95 and 6 mi (10 km) south of Schurz.

DRAINAGE AREA.--14 mi² (36 km²), approximately.

PERIOD OF RECORD.--Water years 1963-66 (annual maximum), October 1966 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 4,080 ft (1,244 m), from topographic map. October 1962 to September 1966, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.031 ft³/s (0.0009 m³/s), 22 acre-ft/yr (27,100 m³/yr).

EXTREMES.--Current year: Maximum discharge, 140 ft³/s (3.96 m³/s) June 10, gage height, 5.21 ft (1.588 m); no flow most of the year.
Period of record: Maximum discharge, 1,870 ft³/s (53.0 m³/s) July 31, 1965, gage height, 9.25 ft (2.819 m), from high-water marks, based on indirect measurement; no flow most of the time.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0				0	0	6.4	
2					0				0	0	.10	
3					0				0	0	0	
4					0				0	0	0	
5					0				0	0	0	
6					.20				0	0	0	
7					.10				0	0	0	
8					0				0	0	0	
9					0				0	0	0	
10					0				8.6	0	0	
11					0				.30	0	0	
12					0				0	0	0	
13					0				0	0	0	
14					0				0	0	0	
15					0				0	0	0	
16					0				0	0	0	
17					0				0	0	0	
18					0				0	.10	0	
19					0				0	0	0	
20					0				0	0	0	
21					0				0	0	0	
22					0				0	0	0	
23					0				0	0	0	
24					0				0	0	0	
25					0				0	0	0	
26					0				0	0	0	
27					0				0	0	0	
28					0				0	0	0	
29					0				0	0	0	
30					---				0	0	0	
31		---			---		---		---	0	0	---
TOTAL	0	0	0	0	.30	0	0	0	8.90	.10	6.50	0
MEAN	0	0	0	0	.010	0	0	0	.30	.003	.21	0
MAX	0	0	0	0	.20	0	0	0	8.6	.10	6.4	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	.6	0	0	0	18	.2	13	0
CAL YP 1975	TOTAL 39.68	MEAN .11	MAX	36	MIN 0	AC-FT 79						
WTR YP 1976	TOTAL 15.80	MEAN .043	MAX	8.6	MIN 0	AC-FT 31						

NOTE.--No gage-height record for entire year.

CARSON RIVER BASIN

10308200 East Fork Carson River below Markleeville Creek, near Markleeville, Calif.

LOCATION.--Lat 38°42'50", long 119°45'50", in SW¼NE¼ sec.15, T.10 N., R.20 E., Alpine County, on right bank 0.5 mi (0.8 km) downstream from Markleeville Creek and 1.5 mi (2.4 km) north-northeast of Markleeville.

DRAINAGE AREA.--276 mi² (715 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m), from topographic map. Prior to Oct. 1, 1967, at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--16 years, 357 ft³/s (10.11 m³/s), 258,600 acre-ft/yr (319 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 830 ft³/s (23.5 m³/s) May 14, gage height, 4.04 ft (1.231 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 2-4.

Period of record: Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 31, 1963, gage height, 10.21 ft (3.112 m), present datum; minimum, 16 ft³/s (0.45 m³/s) Nov. 17, 1961.

REMARKS.--Records good. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	159	117	74	81	73	161	565	286	105	91	35
2	86	166	113	65	79	76	165	498	272	111	101	32
3	90	164	110	70	74	82	181	554	257	130	58	30
4	90	162	109	68	70	81	181	557	246	125	50	31
5	88	159	107	86	62	80	168	503	232	120	45	37
6	95	149	104	84	62	80	176	467	221	124	41	79
7	154	162	95	98	62	85	193	434	215	130	42	52
8	112	217	96	87	63	92	207	497	209	138	42	53
9	105	154	97	75	63	101	176	564	197	130	39	51
10	154	144	96	75	66	105	179	587	191	111	37	54
11	206	131	88	96	70	112	177	625	181	105	36	95
12	146	145	94	84	75	104	169	629	176	102	34	76
13	127	154	79	83	84	109	172	648	176	103	43	63
14	123	152	76	76	94	115	169	736	165	101	50	56
15	124	142	72	74	86	130	165	671	166	117	159	53
16	121	157	75	75	84	150	138	601	173	129	114	47
17	121	139	75	73	89	169	171	614	167	131	81	45
18	116	97	74	71	86	179	173	560	161	128	74	45
19	109	100	74	68	84	134	218	499	156	107	72	44
20	106	105	75	66	78	139	266	455	153	98	71	43
21	104	102	80	65	86	147	278	410	152	91	61	54
22	113	100	84	64	87	159	302	377	141	88	60	46
23	108	113	83	70	81	161	341	370	130	90	67	42
24	93	109	89	72	82	168	423	360	124	93	57	40
25	105	109	84	71	82	161	367	365	117	87	51	40
26	345	108	81	72	92	149	310	352	112	80	46	39
27	348	106	84	80	97	147	287	363	107	72	46	38
28	195	103	80	84	102	141	301	351	100	68	46	36
29	173	96	80	82	106	142	357	314	99	73	45	37
30	168	123	79	82	---	148	464	303	94	64	40	49
31	168	---	71	79	---	177	---	294	---	65	41	---
TOTAL	4267	4027	2721	2369	2327	3896	7035	15123	5176	3216	1840	1442
MEAN	138	134	87.8	76.4	80.2	126	235	488	173	104	59.4	48.1
MAX	348	217	117	98	106	179	464	736	286	138	159	95
MIN	74	96	71	64	62	73	138	294	94	64	34	30
AC-FT	8460	7990	5400	4700	4620	7730	13950	30000	10270	6380	3650	2860

CAL YR 1975 TOTAL 146235 MEAN 401 MAX 2660 MIN 65 AC-FT 290100
WTR YR 1976 TOTAL 53439 MEAN 146 MAX 736 MIN 30 AC-FT 106000

Peak discharge (base, 1,300 ft³/s).--No peak above base.

CARSON RIVER BASIN

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10309000 East Fork Carson River near Gardnerville, Nev.

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼NE¼ sec.2, T.11 N., R.20 E., Douglas County, on left bank 0.1 mi (0.2 km) downstream from Horseshoe Bend, 2 mi (3 km) east of Mud Lake Reservoir, 4.5 mi (7.2 km) downstream from Bryant Creek, and 7 mi (11 km) southeast of Gardnerville.

DRAINAGE AREA.--341 mi² (883 km²).

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July 1905 to December 1906), January 1908 to December 1910, June to October 1917, December 1924 to September 1928, June to September 1929, October 1935 to December 1937, May 1939 to current year. Monthly discharge only for some periods published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft (1,519.462 m) above mean sea level (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi (3 km) of present site at various datums.

AVERAGE DISCHARGE.--50 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-76), 387 ft³/s (11.0 m³/s), 280,400 acre-ft/yr (346 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 906 ft³/s (25.6 m³/s) May 14, gage height, 2.68 ft (0.817 m); minimum, 36 ft³/s (1.02 m³/s) Sept. 3, 4.

Period of record: Maximum discharge 17,600 ft³/s (498 m³/s) Dec. 23, 1955, gage height, 11.88 ft (3.621 m), from rating curve extended above 6,000 ft³/s (170 m³/s), on basis of slope-area measurements at gage heights 9.66 ft (2.944 m) and 11.88 ft (3.621 m); minimum observed, 8 ft³/s (0.23 m³/s) Dec. 4-10, 19-23, 1904.

REMARKS.--Records good. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³).

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	163	138	94	92	96	168	504	305	104	109	44
2	85	169	132	75	91	82	168	586	291	109	143	39
3	92	168	128	85	91	100	186	528	277	135	91	38
4	93	168	126	80	93	95	194	579	261	131	70	37
5	92	165	125	105	82	98	173	563	247	125	63	39
6	92	156	122	102	79	103	184	499	235	129	59	79
7	155	150	113	122	78	105	183	440	227	134	57	64
8	122	226	113	100	78	115	223	516	223	149	58	60
9	109	164	115	103	78	114	183	598	215	144	55	59
10	138	160	119	88	80	117	185	610	202	127	52	64
11	218	123	107	97	83	127	185	670	193	119	51	101
12	158	156	116	99	100	116	177	682	185	117	48	94
13	132	167	102	96	103	121	176	684	182	117	57	77
14	125	167	93	98	111	124	179	791	179	114	58	72
15	125	154	90	95	98	132	179	731	166	129	145	69
16	123	165	95	90	93	149	158	636	170	145	151	62
17	123	157	95	88	106	169	146	655	176	152	102	59
18	120	117	95	88	99	188	187	594	168	150	86	58
19	113	110	95	86	102	145	180	525	162	134	83	57
20	109	120	95	80	81	144	238	477	157	122	83	59
21	107	115	100	78	91	153	279	437	154	113	74	69
22	111	124	105	76	92	162	286	401	151	110	67	66
23	115	128	100	80	95	165	314	393	141	122	76	60
24	102	124	105	84	96	168	364	381	131	125	67	58
25	103	125	105	83	94	167	442	386	124	114	59	57
26	320	125	102	83	101	155	368	377	118	107	52	58
27	400	126	108	98	109	155	316	382	113	97	51	57
28	208	125	103	99	111	147	295	383	106	91	51	55
29	179	102	105	93	129	148	316	333	100	102	50	57
30	171	150	103	95	---	149	386	322	96	91	47	75
31	172	---	91	91	---	178	---	312	---	89	45	---
TOTAL	4391	4369	3341	2831	2736	4187	7018	15975	5455	3747	2260	1843
MEAN	142	146	108	91.3	94.3	135	234	515	182	121	72.9	61.4
MAX	400	226	138	122	129	188	442	791	305	152	151	101
MIN	79	102	90	75	78	82	146	312	96	89	45	37
AC-FT	8710	8670	6630	5620	5430	8300	13920	31690	10820	7430	4480	3660

CAL YR 1975 TOTAL 155496 MEAN 426 MAX 2660 MIN 65 AC-FT 308400
WTR YR 1976 TOTAL 58153 MEAN 159 MAX 791 MIN 37 AC-FT 115300

Peak discharge (base, 1300 ft³/s).--No peak above base.

CARSON RIVER BASIN

10309100 East Fork Carson River at Minden, Nev.

LOCATION.--Lat 38°56'48", long 119°46'45", in NE 1/4 sec. 31, T.13 N., R.20 E., Douglas County, on right bank on downstream side of bridge on State Highway 88 and 1.0 mi (1.6 km) southwest of Minden.

DRAINAGE AREA.--392 mi² (1,015 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,710 ft (1,436 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 336 ft³/s (9.5 m³/s) Oct. 27, gage height, 4.12 ft (1.256 m); minimum, 0.55 ft³/s (0.016 m³/s) Sept. 4-7.

Period of record: Maximum discharge, 2,960 ft³/s (83.8 m³/s) June 2, 1975, gage height, 10.49 ft (3.197 m); minimum 0.53 ft³/s (0.015 m³/s), Aug. 17, 22, 23, 1974.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	74	86	59	12	64	38	52	3.7	3.3	1.6	.64
2	3.4	73	88	56	13	36	19	105	3.7	2.9	1.8	.64
3	3.6	73	85	51	15	39	16	85	2.9	2.9	2.5	.64
4	4.0	74	82	80	15	40	17	122	2.5	2.5	2.9	.55
5	4.2	72	82	79	16	43	9.1	128	2.5	2.2	2.9	.55
6	4.2	70	82	66	16	45	2.4	103	2.5	2.2	2.5	.55
7	4.8	69	72	68	17	49	2.0	83	3.3	2.4	2.0	.64
8	6.2	102	69	76	17	61	10	118	4.1	2.5	1.9	.73
9	5.3	79	68	66	18	59	6.1	151	6.5	3.7	1.9	.73
10	12	76	68	61	18	57	2.5	166	4.9	4.9	1.8	.82
11	64	57	66	59	19	66	2.9	190	4.9	5.3	1.8	1.0
12	47	68	66	64	17	64	2.5	214	4.9	5.3	1.6	1.0
13	36	78	61	60	20	64	7.2	208	4.1	5.3	1.6	1.0
14	32	84	54	64	23	70	12	278	3.3	5.3	1.4	1.2
15	32	86	51	60	22	72	3.3	260	4.1	4.5	1.4	1.2
16	31	91	58	61	20	83	2.5	178	4.5	4.1	2.9	1.3
17	29	94	66	66	23	96	1.9	194	4.5	2.9	1.3	1.2
18	29	72	60	63	25	98	16	163	4.9	3.7	1.2	1.2
19	30	56	58	58	30	103	19	118	5.3	2.9	1.0	1.4
20	38	72	57	53	28	62	12	64	5.3	2.0	1.0	2.4
21	37	80	63	49	30	70	7.2	46	6.1	1.8	.91	2.4
22	35	72	57	53	39	72	3.7	32	7.8	1.8	1.2	2.0
23	36	70	58	61	39	72	19	24	7.8	1.4	1.5	1.9
24	31	72	60	54	44	61	34	16	8.4	1.3	1.2	1.9
25	29	73	66	46	45	64	54	17	6.1	1.4	1.2	1.9
26	86	73	63	37	52	54	18	6.1	6.1	1.4	1.0	1.9
27	212	78	63	28	57	43	4.5	12	5.3	1.4	.91	1.9
28	101	78	60	29	58	39	4.1	18	4.9	1.4	.91	1.9
29	86	69	61	17	73	39	4.5	4.9	4.9	1.4	.91	1.9
30	82	73	66	17	---	36	15	4.1	3.7	1.4	.82	1.9
31	80	---	64	14	---	48	---	3.7	---	1.4	.82	---
TOTAL	1234.3	2258	2060	1675	821	1869	365.4	3163.8	143.5	86.9	48.38	38.99
MEAN	39.8	75.3	66.5	54.0	28.3	60.3	12.2	102	4.78	2.80	1.56	1.30
MAX	212	102	88	80	73	103	54	278	8.4	5.3	2.9	2.4
MIN	3.4	56	51	14	12	36	1.9	3.7	2.5	1.3	.82	.55
AC-FT	2450	4480	4090	3320	1630	3710	725	6280	285	172	96	77
CAL YR 1975	TOTAL	95290.38	MEAN	261	MAX	2320	MIN	.98	AC-FT	189000		
WTR YR 1976	TOTAL	13764.27	MEAN	37.6	MAX	278	MIN	.55	AC-FT	27300		

CARSON RIVER BASIN

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10310000 West Fork Carson River at Woodfords, Calif.

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, on left bank 0.3 mi (0.5 km) downstream from bridge on State Highway 88-89, 0.6 mi (1.0 km) southwest of Woodfords, and 3.8 mi (6.1 km) downstream from Willow Creek.

DRAINAGE AREA.--65.6 mi² (169.9 km²)

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to May 1907, 1910-11 (fragmentary), October 1938 to current year. January 1890 to March 1892, June 1907 to September 1920 (except portions of 1910-11), at site 0.7 mi (1.1 km) downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,756 m), from river-profile map. Prior to Oct. 1, 1938, nonrecording gage at about the same site at different datum. Oct. 1, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft (0.311 m) lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft (46 m) downstream at datum 3.06 ft (0.933 m) lower.

AVERAGE DISCHARGE.--45 years (1900-1907, 1938-76), 113 ft³/s (3,200 m³/s), 81,870 acre-ft/yr (101 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 259 ft³/s (7.33 m³/s) Oct. 26, gage height, 2.37 ft (0.722 m); minimum daily, 9.3 ft³/s (0.26 m³/s) July 27.

Period of record: Maximum discharge, 4,890 ft³/s (138 m³/s) Feb. 1, 1963, gage height, 9.0 ft (2.74 m), on basis of slope-area measurement of peak flow; minimum, about 5 ft³/s (0.14 m³/s) Dec. 23, 1961.

Flood of Dec. 11, 1937, reached a stage of 8.0 ft (2.44 m), present datum, from floodmarks, discharge, 3,500 ft³/s (99.1 m³/s), by slope-area measurement.

REMARKS.--Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft (1.85 hm³).

REVISED RECORDS.--WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	53	36	25	27	20	65	147	62	20	18	29
2	22	54	36	23	27	29	73	153	58	19	14	26
3	22	53	37	25	27	30	79	145	54	19	15	23
4	22	50	37	25	24	30	73	150	51	18	22	17
5	22	48	38	26	22	30	71	148	49	24	32	15
6	25	45	35	26	23	31	80	139	45	43	31	16
7	42	49	34	26	23	31	85	138	47	44	21	15
8	30	67	34	28	23	31	93	141	85	49	16	14
9	27	48	34	28	24	31	71	151	88	51	15	14
10	44	42	34	27	25	32	72	146	90	35	14	14
11	57	44	31	28	26	34	72	156	87	17	15	19
12	42	48	33	28	27	32	64	153	60	15	14	18
13	39	49	28	27	28	33	65	153	37	14	13	16
14	37	50	26	27	28	34	65	168	36	16	15	19
15	37	47	25	27	26	36	67	156	34	21	30	19
16	37	60	25	28	27	42	56	137	33	24	35	18
17	36	46	24	28	28	54	60	140	32	26	32	17
18	35	32	24	27	27	54	66	129	31	25	30	16
19	34	31	24	27	23	41	72	116	30	24	29	16
20	33	31	24	26	24	43	101	105	30	28	26	16
21	33	33	25	22	25	46	112	99	35	28	21	16
22	37	36	28	23	27	55	118	95	67	27	19	15
23	37	36	27	24	27	64	127	93	66	25	17	14
24	34	36	27	27	27	76	142	89	63	14	16	14
25	35	36	29	25	27	67	142	89	59	9.9	15	14
26	144	35	29	26	28	54	117	85	40	9.6	17	14
27	106	36	31	26	29	51	100	84	25	9.3	16	14
28	62	34	32	27	32	52	93	85	23	9.6	14	14
29	53	32	32	27	31	55	103	71	22	11	14	14
30	50	37	31	28	---	65	123	66	21	12	16	15
31	51	---	26	27	---	77	---	63	---	16	29	---
TOTAL	1307	1298	936	814	762	1360	2627	3790	1460	703.4	631	501
MEAN	42.2	43.3	30.2	26.3	26.3	43.9	87.6	122	48.7	22.7	20.4	16.7
MAX	144	67	38	28	32	77	142	168	90	51	35	29
MIN	22	31	24	22	22	20	56	63	21	9.3	13	14
AC-FT	2590	2570	1860	1610	1510	2700	5210	7520	2900	1400	1250	994

CAL YR 1975 TOTAL 42400.0 MEAN 116 MAX 894 MIN 20 AC-FT 84100
WTR YR 1976 TOTAL 16189.4 MEAN 44.2 MAX 168 MIN 9.3 AC-FT 32110

Peak discharge (base, 500 ft³/s).--No peak above base.

CARSON RIVER BASIN

10310000 West Fork Carson River at Woodfords, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976*

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180°C) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
APR. 27...	1000	91	6.6	2.3	3.0	33	0	2.5	45	26	60	7.2	4.0	1	10.6

* DATA FROM CALIFORNIA DEPARTMENT OF WATER RESOURCES.

CARSON RIVER BASIN

10310400 Daggett Creek near Genoa, Nev.

LOCATION.--Lat 38°57'55", long 119°50'55", in SW 1/4 sec. 28, T.13 N., R.19 E., Douglas County, on left bank in Haines Canyon, 0.55 mi (0.88 km) upstream from Foothill Road, and 3.5 mi (5.6 km) south-southwest of Genoa.

DRAINAGE AREA.--3.82 mi² (9.89 km²).

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 1.83 ft³/s (0.0518 m³/s), 1,570 acre-ft/yr (1.94 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 11 ft³/s (0.31 m³/s) Aug. 15, gage height, 1.14 ft (0.347 m); minimum, 0.59 ft³/s (0.016 m³/s) Sept. 28.

Period of record: Maximum discharge, 63 ft³/s (1.78 m³/s) Aug. 5, 1971, gage height, 2.78 ft (0.847 m), from floodmarks, from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.50 ft³/s (0.014 m³/s) July 6, 1973.

REMARKS.--Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.1	2.5	2.4	1.9	2.3	2.3	2.8	1.1	1.1	1.3	1.3
2	1.8	1.9	2.5	2.4	1.9	2.1	2.5	2.7	1.4	1.0	1.6	1.3
3	1.8	1.7	2.4	2.3	1.9	2.1	2.6	2.7	1.2	1.0	1.2	1.3
4	1.8	1.8	2.7	2.3	2.0	2.0	2.5	2.7	1.2	1.0	1.2	1.3
5	1.8	1.7	2.8	2.3	2.1	2.0	2.6	2.7	1.1	1.0	1.1	1.5
6	2.9	1.9	2.7	2.1	2.1	2.2	2.6	2.9	1.1	1.0	1.1	1.3
7	1.3	2.1	2.6	2.3	2.1	2.3	2.6	2.5	1.1	.99	1.2	1.3
8	1.2	2.0	2.6	2.3	2.2	2.3	2.6	2.4	1.1	.98	1.2	1.3
9	1.2	1.8	2.6	2.3	2.3	2.2	2.5	2.4	1.2	.96	1.2	1.2
10	1.7	2.4	2.5	2.2	2.2	2.3	2.5	2.4	1.2	.96	1.1	2.2
11	1.8	2.1	2.3	2.2	2.1	2.3	2.5	2.5	1.2	.92	1.0	1.7
12	1.5	2.1	2.3	2.1	2.2	2.3	2.6	2.4	1.1	.96	1.0	1.3
13	1.3	2.1	2.3	2.1	2.3	2.3	2.8	2.3	1.1	.95	1.1	1.3
14	1.3	2.1	2.3	2.1	2.2	2.3	2.8	2.2	1.1	.94	1.4	1.3
15	1.3	2.3	2.3	2.1	2.1	2.3	2.8	2.1	1.1	1.1	2.8	1.3
16	1.3	3.5	2.3	2.1	2.0	2.4	2.5	2.0	1.1	1.2	1.3	1.4
17	1.2	2.3	2.3	2.1	1.9	2.3	2.5	1.9	1.1	1.2	1.2	1.3
18	1.2	2.1	2.3	2.1	1.9	2.1	2.5	1.9	1.1	1.1	1.3	1.3
19	1.2	2.1	2.3	2.2	2.0	2.0	2.6	1.7	1.0	1.1	1.3	1.3
20	1.2	2.3	2.3	2.1	1.9	1.9	2.6	1.6	1.1	1.1	1.2	1.7
21	1.1	2.3	2.3	2.1	1.9	2.0	2.6	1.6	1.2	1.0	1.2	.96
22	1.3	2.3	2.3	2.1	1.9	2.0	2.6	1.6	1.2	1.0	1.3	1.3
23	1.2	2.3	2.3	2.3	1.9	2.0	2.7	1.6	1.1	1.2	1.2	1.3
24	1.1	2.3	2.3	2.3	1.9	2.2	2.9	1.5	1.1	1.2	1.2	1.3
25	1.2	2.3	2.3	2.2	1.9	2.1	2.8	1.5	1.1	1.1	1.1	1.4
26	3.2	2.3	2.2	2.3	1.9	2.2	2.6	1.4	1.1	1.1	1.2	1.4
27	1.4	2.2	2.3	2.3	2.0	2.3	2.5	1.3	1.0	1.0	1.2	1.4
28	1.3	2.3	2.3	2.2	2.4	2.3	2.4	1.3	1.1	1.3	1.2	1.0
29	1.4	2.3	2.3	2.0	2.6	2.3	2.6	1.3	1.1	1.1	1.2	.81
30	2.2	2.5	2.5	2.0	---	2.4	2.7	1.2	1.1	1.1	1.2	.88
31	2.2	---	2.5	1.9	---	2.4	---	1.1	---	1.9	1.2	---
TOTAL	48.2	65.5	74.5	67.8	59.7	68.2	77.9	62.2	33.8	33.56	39.0	39.65
MEAN	1.55	2.18	2.40	2.19	2.06	2.20	2.60	2.01	1.13	1.08	1.26	1.32
MAX	3.2	3.5	2.8	2.4	2.6	2.4	2.9	2.9	1.4	1.9	2.8	2.2
MIN	1.1	1.7	2.2	1.9	1.9	1.9	2.3	1.1	1.0	.92	1.0	.81
AC-FT	96	130	148	134	118	135	155	123	67	67	77	79
CAL YR 1975	TOTAL 785.70		MEAN 2.15		MAX 6.0		MIN .80		AC-FT 1560			
WTR YR 1976	TOTAL 670.01		MEAN 1.83		MAX 3.5		MIN .81		AC-FT 1330			

CARSON RIVER BASIN

10310405 Carson River at Genoa, Nev.

LOCATION.--Lat 38°59'52", long 119°49'21", in SW¼SW¼ sec.11, T.13 N., R.19 E., Douglas County, on right bank just downstream from bridge on State Route 57 and 1.2 mi (1.9 km) southeast of Genoa.

DRAINAGE AREA.--570 mi² (1,480 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft (1,420 m), from topographic map.

EXTREMES.--Maximum discharge, 569 ft³/s (16.1 m³/s) Oct. 27, gage height, 5.18 ft (1.579 m); minimum, 2.0 ft³/s (0.06 m³/s) Sept. 3. Period of record: Maximum 2,350 ft³/s (66.6 m³/s) June 7, 1975, gage height, 9.45 ft (2.880 m), minimum, 2.0 ft³/s (0.06 m³/s). Sept. 3, 1976.

REMARKS.--Records good. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	173	140	77	39	136	72	48	31	5.9	7.9	3.4
2	15	165	144	66	38	100	64	109	27	6.0	10	3.4
3	14	163	140	62	41	109	46	104	28	6.6	13	3.1
4	14	159	135	84	45	115	42	112	27	7.3	12	2.2
5	15	144	130	97	47	115	39	136	26	6.7	8.6	2.2
6	14	153	130	85	39	116	32	134	31	6.0	7.9	3.1
7	22	148	121	76	37	121	28	120	24	5.4	7.3	3.4
8	47	180	117	88	47	127	35	130	25	5.0	6.7	3.4
9	45	178	117	81	56	128	35	158	25	4.5	6.1	3.4
10	53	159	117	79	60	127	27	210	23	4.1	5.6	3.1
11	132	142	109	74	49	128	27	244	22	3.7	5.6	4.6
12	138	146	108	81	46	128	28	272	26	3.5	5.1	6.7
13	118	154	108	77	52	124	26	254	29	3.5	6.7	9.4
14	109	159	90	75	56	128	25	302	22	5.1	7.3	5.6
15	106	156	70	74	60	134	26	300	21	3.4	6.7	6.7
16	121	153	79	74	58	144	27	236	23	6.7	21	10
17	114	158	88	73	74	156	27	236	17	7.9	8.6	15
18	103	138	85	75	90	161	27	206	15	10	5.6	13
19	102	120	82	73	82	144	34	173	13	13	4.6	5.1
20	94	110	77	72	77	121	28	121	13	6.1	6.1	6.7
21	91	137	78	67	74	124	26	104	11	5.6	5.6	21
22	94	127	94	67	78	126	24	86	9.4	10	6.1	32
23	99	123	91	76	85	124	27	85	9.0	8.6	3.8	32
24	102	123	93	71	84	109	32	71	8.5	13	5.1	25
25	91	126	99	62	100	116	46	51	7.2	4.2	3.4	20
26	93	123	91	55	100	104	30	43	6.4	3.8	3.4	14
27	436	125	90	48	110	88	26	54	6.2	3.1	3.4	13
28	234	125	90	49	110	80	25	62	6.1	4.2	3.8	15
29	176	120	88	42	122	82	25	52	6.0	3.8	5.1	10
30	173	110	86	41	---	80	27	45	6.0	3.4	3.8	12
31	183	---	84	40	---	77	---	39	---	6.1	3.4	---
TOTAL	3162	4297	3171	2161	1956	3672	983	4297	543.8	186.2	209.3	307.5
MEAN	102	143	102	69.7	67.4	118	32.8	139	18.1	6.01	6.75	10.3
MAX	436	180	144	97	122	161	72	302	31	13	21	32
MIN	14	110	70	40	37	77	24	39	6.0	3.1	3.4	2.2
AC-FT	6270	8520	6290	4290	3880	7280	1950	8520	1080	369	415	610
CAL YR 1975 TOTAL	104430.0			MEAN 286	MAX 2130	MIN 14	AC-FT 207100					
WTR YR 1976 TOTAL	24945.8			MEAN 68.2	MAX 436	MIN 2.2	AC-FT 49480					

CARSON RIVER BASIN

133

10311000 Carson River near Carson City, Nev.

LOCATION.--Lat 39°06'30", long 119°42'40", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.14 N., R.20 E., Carson City, on left bank 2 mi (3 km) downstream from Clear Creek, 3 mi (5 km) upstream from Lloyd Bridge on road to Mexican Dam, and 5 mi (8 km) southeast of Carson City Post Office.

DRAINAGE AREA.--876 mi² (2,269 km²).

PERIOD OF RECORD.--May 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft (1,408.322 m) above mean sea level, datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft (0.305 m) higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft (0.305 m) higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft (0.305 m) higher.

AVERAGE DISCHARGE.--37 years, 400 ft³/s (11.32 m³/s), 289,800 acre-ft/yr (357 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 823 ft³/s (23.3 m³/s) Oct. 27, gage height, 3.69 ft (1.125 m); minimum, 5.8 ft³/s (0.16 m³/s) Sept. 4.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) Dec. 24, 1955, gage height, 16.0 ft (4.88 m), present datum, from floodmarks; from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 16.0 ft (4.88 m), computation of flow over dam at gage height 12.40 ft (3.780 m), and float measurement at gage height 10.60 ft (3.231 m), all at present datum; minimum, 2.6 ft³/s (0.074 m³/s) Aug. 7, 1961.

REMARKS.--Records good. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	312	258	175	125	253	152	117	83	15	13	8.8
2	39	293	268	170	123	199	140	206	66	15	19	7.8
3	35	291	263	155	125	191	122	291	60	19	29	6.7
4	36	288	257	165	121	202	114	260	47	20	33	6.6
5	36	275	247	190	115	202	121	281	47	19	26	7.3
6	40	259	239	202	115	210	100	294	65	17	28	9.1
7	59	254	229	180	111	228	94	313	55	13	22	8.7
8	102	254	216	191	132	232	83	328	46	11	22	10
9	112	292	217	202	152	237	100	303	49	10	29	9.3
10	118	262	220	198	165	228	84	400	44	9.0	27	7.6
11	157	257	220	180	155	221	75	466	42	8.5	23	12
12	223	239	214	186	138	223	86	468	52	8.0	20	21
13	201	257	217	180	158	212	75	473	49	8.0	18	26
14	177	262	185	179	170	212	76	521	56	9.9	18	28
15	167	263	160	180	188	216	73	551	82	11	21	24
16	175	249	162	176	180	222	91	461	75	11	22	20
17	162	266	180	173	224	236	119	434	52	11	40	20
18	144	249	185	169	273	252	103	418	45	11	28	37
19	135	210	185	170	240	250	125	359	38	12	26	29
20	134	202	180	166	209	209	78	280	40	13	24	24
21	127	252	182	150	180	215	74	252	31	12	21	32
22	121	233	216	140	180	217	76	221	29	11	15	39
23	128	224	212	171	178	215	76	195	25	12	18	40
24	133	224	216	177	175	195	77	202	26	17	12	38
25	130	231	222	171	178	197	92	184	20	15	12	35
26	141	226	209	145	172	192	90	132	17	14	11	33
27	532	230	212	137	178	166	92	105	17	15	13	30
28	470	230	207	139	177	161	91	169	17	13	14	34
29	326	210	200	131	192	151	104	138	17	14	9.7	36
30	312	203	198	130	---	154	96	119	18	13	9.1	28
31	331	---	192	125	---	141	---	127	---	12	10	---
TOTAL	5049	7497	6568	5203	4829	6439	2879	9068	1310	399.4	632.8	667.9
MEAN	163	250	212	168	167	208	96.0	293	43.7	12.9	20.4	22.3
MAX	532	312	268	202	273	253	152	551	83	20	40	40
MIN	35	202	160	125	111	141	73	105	17	8.0	9.1	6.6
AC-FT	10010	14870	13030	10320	9580	12770	5710	17990	2600	792	1260	1320

CAL YR 1975 TOTAL 170794.0 MEAN 468 MAX 3240 MIN 15 AC-FT 338800
WTR YR 1976 TOTAL 50542.1 MEAN 138 MAX 551 MIN 6.6 AC-FT 100300

Peak discharge (base, 1,600 ft³/s).--No peak above base.

CARSON RIVER BASIN

10311100 Kings Canyon Creek near Carson City, Nev.

LOCATION.--Lat 39°09'14", long 119°48'24", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.15 N., R.19 E., Carson City, 2 mi (3.2 km) west of Carson Street off King Canyon Road.

DRAINAGE AREA.--4.06 mi² (10.52 km²).

PERIOD OF RECORD.--June to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,580 m), from topographic map.

EXTREMES.--Maximum discharge during period, 4.9 ft³/s (0.112 m³/s) Sept. 20, gage height, 4.22 ft (1.286 m); minimum, 0.29 ft³/s (0.008 m³/s) July 11.

REMARKS.--Records good. Diversions above station for irrigation and municipal use.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.88	.86	.77	.77
2									.88	.86	.69	.69
3									.88	.69	.55	.69
4									.88	.55	.55	.62
5									.88	.55	.55	.77
6									.88	.69	.55	.77
7									.88	.69	.55	.69
8									.86	.69	.49	.62
9									.95	.69	.62	.62
10									.86	.55	.62	.69
11									.86	.44	.62	.95
12									.86	.55	.62	.86
13									.77	.44	.62	.77
14									.86	.49	.86	.69
15									1.0	.49	1.2	.55
16									1.0	.62	.86	.55
17									1.0	.55	.86	.55
18									.95	.49	.77	.62
19									.86	.49	.77	.62
20									.77	.49	.69	.77
21									.95	.55	.69	.77
22									.86	.62	.77	.62
23									.95	.77	.69	.55
24									1.0	.69	.62	.55
25									.95	.55	.62	.55
26									.86	.62	.62	.44
27									.77	.55	.62	.55
28									.86	.55	.62	.55
29									.95	.55	.55	.44
30									.86	.55	.55	.55
31									---	.86	.69	---
TOTAL									26.77	18.73	20.85	19.43
MEAN	-	-	-	-	-	-	-	-	.89	.60	.67	.65
MAX	-	-	-	-	-	-	-	-	1.0	.86	1.2	.95
MIN	-	-	-	-	-	-	-	-	.77	.44	.49	.44
AC-FT	-	-	-	-	-	-	-	-	53	37	41	39

CARSON RIVER BASIN

10311200 Ash Canyon Creek near Carson City, Nev.

LOCATION.--Lat 39°10'35", long 119°48'16", in NW¼ SW¼ sec.12, T.15 N., R.19 E., Carson City, on left bank 2 mi (3.2 km) west of intersection Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi² (13.47 km²).

PERIOD OF RECORD.--July to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft (1548 m), from topographic map.

EXTREMES.--Maximum discharge during period, 5.5 ft³/s (1.56 m³/s) Aug. 15, gage height, 1.24 ft (0.378 m); minimum, 0.95 ft³/s (0.290 m³/s), Aug. 15.

REMARKS.--Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										1.7	2.1	1.2
2										1.6	1.9	1.2
3										1.6	1.8	1.2
4										1.5	1.7	1.2
5										1.4	1.6	1.4
6										1.4	1.6	1.4
7										1.5	1.6	1.4
8										1.4	1.5	1.4
9										1.4	1.4	1.4
10										1.3	1.4	1.6
11										1.2	1.4	2.6
12										1.2	1.4	1.8
13										1.4	1.4	1.7
14										1.3	2.0	1.6
15										1.4	3.1	1.7
16										1.5	1.9	1.7
17										1.7	1.8	1.6
18										1.6	1.9	1.6
19										1.5	1.8	1.5
20										1.4	1.6	1.7
21										1.4	1.5	1.6
22										1.4	1.9	1.5
23										1.9	1.7	1.5
24										1.8	1.6	1.5
25										1.6	1.5	1.5
26										1.4	1.5	1.5
27										1.3	1.4	1.5
28										1.4	1.4	1.5
29										1.4	1.3	1.6
30										1.4	1.3	1.6
31										2.3	1.3	---
TOTAL	-	-	-	-	-	-	-	-	-	46.3	51.3	46.2
MEAN	-	-	-	-	-	-	-	-	-	1.49	1.65	1.54
MAX	-	-	-	-	-	-	-	-	-	2.3	3.1	2.6
MIN	-	-	-	-	-	-	-	-	-	1.2	1.3	1.2
AC-FT	-	-	-	-	-	-	-	-	-	92	102	92

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.
(National stream-quality accounting network station)

LOCATION.--Lat 39°17'30", long 119°18'40', in SW¼SE¼ sec.32, T.17 N., R.24 E., Lyon County, on right bank 400 ft (122 m) downstream from Buckland ditch, 2 mi (3 km) west of Fort Churchill, and 4.5 mi (7.2 km) upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,214.70 ft (1,284.641 m) above mean sea level. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi (12.6 km) upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi (13 km) upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft (0.414 m) higher (levels by Truckee-Carson Irrigation District).

AVERAGE DISCHARGE.--65 years, 364 ft³/s (10.31 m³/s), 263,700 acre-ft/yr (325 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 627 ft³/s (17.8 m³/s) Oct. 28, gage height, 3.36 ft (1.024 m); minimum, 0.08 ft³/s (0.002 m³/s) Sept. 4, 8-10.

Period of record: Maximum discharge, 15,300 ft³/s (433 m³/s) Feb. 2, 1963, gage height, 10.83 ft (3.301 m); maximum gage height, about 11 ft (3.35 m) in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

REMARKS.--Records good. Many diversions for irrigation above station, including diversions for irrigation of 720 acres (2.91 km) between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft (122 m) upstream for irrigation below station.

REVISED RECORDS.--WSP 1514: 1917.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	292	195	160	141	213	118	32	37	1.6	.49	.14
2	25	274	239	150	140	257	118	42	37	1.8	.52	.14
3	18	260	250	150	140	209	107	60	32	1.7	.52	.12
4	11	258	253	150	135	198	90	122	29	1.4	.51	.10
5	7.4	253	252	170	133	203	84	124	24	1.3	.40	.10
6	7.6	233	241	220	131	203	77	139	20	1.3	.28	.12
7	8.5	226	233	214	130	209	62	158	17	1.1	.26	.11
8	9.8	220	225	195	130	217	53	169	18	.97	.23	.09
9	41	236	214	211	148	221	53	179	16	.90	.22	.08
10	71	256	215	218	153	222	52	201	20	.77	.29	.09
11	84	242	220	213	168	211	45	254	22	.70	.29	.17
12	120	229	220	198	160	207	40	274	21	.71	.45	.18
13	182	220	216	203	152	203	30	323	19	.77	.58	.15
14	185	230	214	198	167	193	28	341	16	.75	.37	.13
15	170	236	190	190	180	183	24	279	13	.68	.45	.11
16	162	231	190	190	193	188	31	274	12	.66	.35	.16
17	170	222	200	185	190	190	33	261	8.8	.67	.25	.27
18	164	235	210	180	234	194	49	226	7.6	.60	.31	.14
19	154	210	210	180	281	214	51	171	6.1	.69	.29	.22
20	143	176	200	175	260	222	37	141	2.4	.61	.21	.33
21	143	180	200	170	220	177	27	128	2.3	.59	.20	.16
22	132	211	218	166	193	180	24	125	2.1	.45	.29	.12
23	137	198	222	166	189	178	22	89	1.9	.48	.27	.16
24	153	192	222	180	186	175	20	48	1.8	.60	.20	.13
25	159	196	228	190	178	159	22	48	1.9	.57	.17	.12
26	159	204	230	190	178	162	25	55	1.8	.42	.14	.12
27	184	204	223	166	173	162	21	42	1.8	.35	.26	.15
28	553	209	225	159	175	145	21	40	1.8	.36	.24	.16
29	377	203	218	156	179	137	20	38	1.7	.37	.19	.15
30	292	186	218	146	---	123	22	38	1.7	.35	.19	.12
31	277	---	200	143	---	124	---	38	---	.42	.16	---
TOTAL	4323.3	6722	6791	5582	5037	5879	1406	4459	396.7	24.64	9.58	4.34
MEAN	139	224	219	180	174	190	46.9	144	13.2	.79	.31	.14
MAX	553	292	253	220	281	257	118	341	37	1.8	.58	.33
MIN	7.4	176	190	143	130	123	20	32	1.7	.35	.14	.08
AC-FT	8580	13330	13470	11070	9990	11660	2790	8840	787	49	19	8.6

CAL YR 1975 TOTAL 168142.20 MEAN 461 MAX 3210 MIN 5.2 AC-FT 333500
WTR YR 1976 TOTAL 40634.56 MEAN 111 MAX 553 MIN .08 AC-FT 80600

Peak discharge (base, 1,400 ft³/s).--No peak above base.

10312000 Carson River near Fort Churchill, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1962 to current year. (Period of record for daily specific conductance, Oct. 1962 to June 1970, Feb. 1972 to current year; intervening measurements were monthly. Published as Carson River near Silver Springs, sta. no. 10312020, Oct. 1962 to Sept. 1970.)

Water temperatures: April 1960 to current year. (Data prior to Oct. 1962, which were collected monthly or less frequently, are unpublished. Period of record for daily measurements, Oct. 1962 to June 1970, Feb. 1972 to current year; intervening measurements were monthly. Published as Carson River near Silver Springs, Oct. 1962 to Sept. 1970.)

Biological data: January 1975 to current year.

Sediment records: January 1974 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 707 micromhos July 7; minimum, 183 micromhos Oct. 29.

Water temperature: Maximum, 28.0°C July 15; minimum, freezing point on several days during November to February.

Suspended-sediment concentration: Maximum, 59 mg/l Aug. 3; minimum, 6 mg/l Feb. 2.

Period of record:

Specific conductance: Maximum, 840 micromhos Sept. 13, 1973; minimum, 81 micromhos July 3, 1967.

Water temperature (1962 to current year): Maximum, 29.0°C Aug. 7, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Monthly water-quality data are collected from Buckland Ditch, which leaves river 400 ft (120 m) upstream from gage, or from river at gage, depending on discharge (more detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev.). Discharge data do not include ditch flow. Daily water-quality data are collected from Buckland Ditch, in SE $\frac{1}{4}$ sec. 34, T.17 N., R.24 E., about 2 mi (3 km) downstream from gaging station. Extremes for specific conductance and water temperature are based on daily data for October 1962 to June 1970 and February 1972 to current year, and monthly data for July 1970 to January 1972; extremes for sediment concentration are based on monthly data.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPT 1976

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
03...	1230	18	25	48	10	46	5.5	181	0	100	11
NOV.											
03...	1510	259	--	--	--	--	--	--	--	--	--
DEC.											
01...	1255	193	--	--	--	--	--	--	--	--	--
JAN.											
02...	1445	150	23	33	7.1	29	3.6	121	0	60	9.8
FEB.											
02...	1400	142	--	--	--	--	--	--	--	--	--
MAR.											
02...	1320	274	--	--	--	--	--	--	--	--	--
APR.											
01...	1225	118	--	--	--	--	--	--	--	--	--
MAY											
03...	1435	46	24	46	11	48	6.0	180	0	110	15
JUNE											
03...	1415	36	--	--	--	--	--	--	--	--	--
JULY											
01...	1435	1.7	30	57	14	58	5.4	195	0	150	15
AUG.											
03...	1355	.50	--	--	--	--	--	--	--	--	--
SEPT.											
01...	1345	.10	28	63	15	63	6.3	191	0	170	15

E: ESTIMATED

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
03...	.5	.00	.00	.02	.00	.56	.38	.58	.24	.21	3.9
NOV.											
03...	--	.10	.01	.01	--	.58	--	.70	.18	--	--
DEC.											
01...	--	.26	.01	.02	--	.36	--	.65	.23	--	--
JAN.											
02...	.4	.92	.01	.19	.14	1.1	.43	2.2	.28	.25	6.0
FEB.											
02...	--	.49	.01	.03	--	.55	--	1.1	.26	--	--
MAR.											
02...	--	.76	.03	.05	--	.85	--	1.7	.37	--	--
APR.											
01...	--	.34	.00	.10	--	.19	--	.63	.31	--	--
MAY											
03...	.6	.01	.00	.02	.02	1.7	.75	1.7	.26	.26	7.4
JUNE											
03...	--	.03	.01	.08	--	.51	--	.63	.24	--	--
JULY											
01...	.6	.01	.00	.07	.00	.23	.11	.31	.10	.06	1.8
AUG.											
03...	--	.02	.00	.06	--	.58	--	.66	.11	--	--
SEPT.											
01...	.5	.00	.00	.19	.00	.23	.00	.42	.16	.09	4.6

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SOPP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.											
03...	351	335	17.1	160	1.6	527	--	15.5	6	--	--
NOV.											
03...	--	--	--	--	--	275	--	10.0	6	87	20
DEC.											
01...	--	--	--	--	--	328	--	5.0	4	0	12
JAN.											
02...	228	226	86.2	110	1.2	364	8.3	0.0	3	1	7
FEB.											
02...	--	--	--	--	--	392	8.5	6.5	4	0	6
MAR.											
02...	--	--	--	--	--	337	8.1	3.0	10	15	14
APR.											
01...	--	--	--	--	--	366	8.8	10.5	7	17	23
MAY											
03...	351	350	43.6	160	1.7	537	8.4	22.0	9	110	260
JUNE											
03...	--	--	--	--	--	525	8.5	20.0	5	10	40
JULY											
01...	436	426	2.00	200	1.8	659	8.4	18.0	2	0	14
AUG.											
03...	--	--	--	--	--	675	8.2	19.0	5	8	53
SEP.											
01...	452	455	.12	220	1.9	661	8.2	22.5	1	4	8

B: NON-IDEAL COLONY COUNT

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CORALT (CO) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT.												
02...	1230	11	10	0	0	10	10	<50	0	0	3	350
JAN.												
02...	1445	4	4	<10	0	0	0	<50	0	10	2	1600
MAY												
03...	1435	13	13	<10	0	0	0	<50	0	20	4	910
JULY												
01...	1435	7	6	0	0	20	0	0	0	0	3	320
SEP.												
01...	1345	8	2	<10	1	10	0	<50	0	10	1	1100

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELF- NIUM (SE) (UG/L)	DIS- SOLVED SELF- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT.											
02...	20	<100	5	40	10	.7	.1	0	0	10	10
JAN.											
02...	20	<100	0	50	30	.2	.2	0	0	20	0
MAY											
03...	70	<100	2	110	70	1.5	.0	0	0	20	0
JULY											
01...	20	<100	0	60	30	.4	.0	0	0	20	20
SEP.											
01...	30	<100	2	240	--	1.7	.0	1	0	10	10

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 02	1230	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	370	15	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	74	3	
		<u>Rhoicosphenia</u>	74	3	
		Cymbellaceae			
		<u>Amphora</u>	74	3	
		Fragilariaceae			
		<u>Fragilaria</u>	440	18	
		<u>Synedra</u>	74	3	
		Gomphonemataceae			
		<u>Gomphonema</u>	74	3	
		Naviculaceae			
		<u>Navicula</u>	290	12	
		<u>Pinnularia</u>	74	3	
		Nitzschiaceae			
		<u>Nitzschia</u>	960	38	
		TOTAL	2500		
Nov 03	1510	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	190	7	
		<u>Melosira</u>	97	3	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	190	7	
		<u>Cocconeis</u>	97	3	
		Cymbellaceae			
		<u>Cymbella</u>	97	3	
		Naviculaceae			
		<u>Navicula</u>	1900	7	
		Nitzschiaceae			
		<u>Nitzschia</u>	190	7	
		Surirellaceae			
		<u>Cymatopleura</u>	97	3	
		TOTAL	2900		
Dec 01	1255	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	110	3	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Diatomaceae			
		<u>Diatoma</u>	1700	53	
		Gomphonemataceae			
		<u>Gomphonema</u>	53	2	
		Naviculaceae			
		<u>Navicula</u>	690	22	
		Nitzschiaceae			
		<u>Nitzschia</u>	640	20	
		TOTAL	3100		

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jan 02	1445	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Hydrodictyaceae			
		<u>Pediastrum</u>	130	15	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	64	7	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	16	2	
		Cymbellaceae			
		<u>Cymbella</u>	16	2	
		Diatomaceae			
		<u>Diatoma</u>	160	19	
		Fragilariaceae			
		<u>Fragilaria</u>	48	6	
		<u>Synedra</u>	48	6	
		Naviculaceae			
		<u>Navicula</u>	350	41	
		Nitzschiaceae			
		<u>Nitzschia</u>	32	4	
		TOTAL	870		
Feb 02	1400	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	31	2	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	31	2	
		Diatomaceae			
		<u>Diatoma</u>	120	6	
		Fragilariaceae			
		<u>Fragilaria</u>	31	2	
		<u>Synedra</u>	31	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	220	11	
		Naviculaceae			
		<u>Navicula</u>	1000	49	
		Nitzschiaceae			
		<u>Nitzschia</u>	470	23	
		Surirellaceae			
		<u>Surirella</u>	93	5	
		TOTAL	2000		
Mar 02	1320	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	950	7	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	240	2	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	480	4	
		Diatomaceae			
		<u>Diatoma</u>	240	2	
		Fragilariaceae			
		<u>Fragilaria</u>	480	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	1200	9	
		Naviculaceae			
		<u>Navicula</u>	4300	33	
		Nitzschiaceae			
		<u>Nitzschia</u>	4800	37	
		Surirellaceae			
		<u>Surirella</u>	240	2	
		TOTAL	13000		

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PHYTOPLANKTON					
Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 01	1225	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	30	1	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	30	1	
		<u>Cocconeis</u>	120	2	
		Cymbellaceae			
		<u>Cymbella</u>	30	1	
		Diatomaceae			
		<u>Diatoma</u>	940	16	
		Fragilariaceae			
		<u>Fragilaria</u>	180	3	
		<u>Synedra</u>	120	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	390	7	
		Naviculaceae			
		<u>Caloneis</u>	91	2	
		<u>Navicula</u>	2900	49	
		<u>Stauroneis</u>	30	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	760	13	
		Surirellaceae			
		<u>Cymatopleura</u>	30	1	
		<u>Surirella</u>	180	3	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	120	2	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Euglena</u>	30	1	
		TOTAL	6000		
May 03	1435	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	110	1	
		Scenedesmaceae			
		<u>Scenedesmus</u>	1100	6	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	3800	21	
		<u>Melosira</u>	4800	27	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	220	1	
		<u>Cocconeis</u>	110	1	
		Cymbellaceae			
		<u>Amphora</u>	110	1	
		Diatomaceae			
		<u>Diatoma</u>	550	3	
		Fragilariaceae			
		<u>Fragilaria</u>	220	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	670	4	
		Naviculaceae			
		<u>Navicula</u>	3800	21	
		<u>Pinnularia</u>	220	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	2100	12	
		TOTAL	18000		

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jun 03	1415	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Micractiniaceae			
		<u>Micractinium</u>	350	11	
		Occystaceae			
		<u>Ankistrodesmus</u>	87	3	
		<u>Westella</u>	700	21	
		Scenedesmaceae			
		<u>Scenedesmus</u>	170	5	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	260	8	
		Pennales			
		Cymbellaceae			
		<u>Cymbella</u>	170	5	
		Gomphonemataceae			
		<u>Gomphonema</u>	87	3	
		Naviculaceae			
		<u>Navicula</u>	1200	37	
		Nitzschiaceae			
		<u>Nitzschia</u>	260	8	
		TOTAL	3300		
Jul 01	1435	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	72	1	
		Scenedesmaceae			
		<u>Scenedesmus</u>	72	1	
		Volvocales			
		Chlamydomonadaceae			
		<u>Chlamydomonas</u>	72	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	1700	26	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	72	1	
		Diatomaceae			
		<u>Diatoma</u>	1300	20	
		Fragilariaceae			
		<u>Fragilaria</u>	360	6	
		<u>Synedra</u>	360	6	
		Gomphonemataceae			
		<u>Gomphonema</u>	290	4	
		Naviculaceae			
		<u>Caloneis</u>	72	1	
		<u>Navicula</u>	790	12	
		Nitzschiaceae			
		<u>Nitzschia</u>	1100	17	
		Surirellaceae			
		<u>Surirella</u>	72	1	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	72	1	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Trachelomonas</u>	72	1	
		TOTAL	6400		

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Aug 03	1255	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	270	8	
		<u>Melosira</u>	170	5	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	240	7	
		Cymbellaceae			
		<u>Amphora</u>	34	1	
		<u>Cymbella</u>	34	1	
		Diatomaceae			
		<u>Diatoma</u>	170	5	
		Fragilariaceae			
		<u>Fragilaria</u>	210	6	
		<u>Synedra</u>	34	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	480	14	
		Naviculaceae			
		<u>Caloneis</u>	34	1	
		<u>Diploneis</u>	34	1	
		<u>Navicula</u>	1200	35	
		<u>Neidium</u>	69	2	
		Nitzschiaceae			
		<u>Nitzschia</u>	210	6	
		Surirellaceae			
		<u>Surirella</u>	210	6	
		Achnanthaceae			
		<u>Rhoicosphenia</u>	34	1	
		TOTAL	3400		
Sep 01	1345	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	120	5	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	340	15	
		Pennales			
		Diatomaceae			
		<u>Diatoma</u>	120	5	
		Fragilariaceae			
		<u>Asterionella</u>	92	4	
		Gomphonemataceae			
		<u>Gomphoneis</u>	92	4	
		Naviculaceae			
		<u>Navicula</u>	980	43	
		<u>Pinnularia</u>	61	3	
		Nitzschiaceae			
		<u>Nitzschia</u>	31	1	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	61	3	
		Oscillatoriales			
		Rivulariaceae			
		<u>Raphidiopsis</u>	310	14	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Trachelomonas</u>	61	3	
		TOTAL	2300		

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.--Continued

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

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Feb 02	31	100	97	4.7	0.2	630	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.				
03...	1000	25	11	.74
NOV.				
03...	1505	259	22	15
DEC.				
01...	1255	193	12	6.3
JAN.				
02...	1445	150	9	3.4
FEB.				
02...	1400	142	6	2.3
MAR.				
02...	1320	274	35	26
APR.				
01...	1225	118	14	4.5
MAY				
03...	1435	46	39	4.8
JUNE				
03...	1415	36	20	1.9
JULY				
01...	1440	1.7	9	.04
AUG.				
03...	1355	.50	59	.08
SEP.				
01...	1345	.10	24	.01

E: ESTIMATED

10312000 Carson River near Fort Churchill, Nev.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	247	323	331	393	360	395	575	502	663	589	686
2	540	263	320	349	396	365	392	575	515	663	627	675
3	532	269	296	358	400	337	386	571	526	663	667	684
4	552	271	296	369	398	376	383	435	543	663	662	679
5	581	263	311	368	403	362	407	353	568	663	679	679
6	606	270	311	351	400	386	427	373	578	671	675	667
7	586	273	316	317	406	371	429	341	593	707	662	653
8	592	282	312	321	406	365	442	325	608	684	665	674
9	559	284	310	323	398	363	472	335	592	675	662	675
10	438	276	312	324	392	358	475	349	568	686	654	671
11	407	262	313	318	376	349	454	327	597	667	677	635
12	392	266	311	321	375	349	491	278	599	679	677	645
13	339	284	311	331	388	338	520	267	608	671	677	636
14	295	300	325	330	400	328	533	252	617	663	677	663
15	301	290	332	332	393	330	542	257	621	662	679	667
16	307	282	350	332	385	329	553	226	623	662	644	655
17	311	282	377	333	376	328	545	230	625	633	641	655
18	308	283	375	337	398	318	534	259	621	624	635	663
19	311	283	337	338	403	317	498	261	610	633	624	667
20	319	298	332	341	414	314	507	274	635	644	627	675
21	320	319	333	352	422	315	520	298	643	654	635	675
22	324	317	322	355	419	328	544	338	645	662	642	671
23	327	302	322	366	414	328	563	356	651	662	620	669
24	328	304	300	362	396	317	563	388	641	606	633	675
25	321	309	302	340	383	328	578	397	649	604	633	671
26	312	301	304	342	385	324	588	402	649	663	642	663
27	316	311	304	351	380	318	577	456	629	663	642	671
28	283	308	311	366	381	323	564	500	625	662	643	667
29	183	313	---	381	366	338	566	542	643	667	654	673
30	227	320	---	317	384	---	361	571	500	656	665	661
31	247	---	327	391	---	370	---	491	---	660	679	---
MONTH	388	288	320	346	395	342	501	372	606	659	651	667
YEAR	MAX	707	MIN	183	MEAN	461						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	5.5	3.5	0.0	2.0	3.0	7.0	14.0	14.0	17.0	18.0	17.5
2	15.0	5.5	3.5	0.0	2.0	1.5	7.5	13.0	16.0	19.0	17.0	18.0
3	15.5	7.0	4.0	0.5	2.0	2.0	8.5	14.0	15.0	19.0	18.0	18.0
4	14.5	7.0	4.0	0.0	1.0	0.5	9.0	14.5	14.0	19.5	16.0	19.0
5	14.5	6.5	6.5	1.0	0.0	0.5	9.0	15.0	15.0	19.5	18.5	17.0
6	15.0	6.5	4.5	0.5	0.0	1.5	9.5	14.5	15.0	20.0	18.0	17.0
7	11.0	9.5	2.0	0.5	0.0	3.0	12.0	13.0	16.0	20.0	16.0	14.5
8	10.0	7.0	1.5	0.5	0.0	5.0	10.5	15.0	14.0	20.0	18.0	13.5
9	11.0	4.0	2.0	1.0	2.0	5.0	8.0	17.0	14.5	20.5	20.0	14.0
10	11.0	5.0	2.5	0.5	0.0	5.0	10.0	20.0	12.5	22.0	20.0	16.5
11	10.0	3.0	1.0	1.0	0.0	5.0	9.0	15.0	14.0	21.0	21.0	17.5
12	10.0	2.0	2.5	0.0	1.0	3.5	9.0	15.5	15.0	19.0	20.0	14.5
13	10.0	2.5	2.0	0.5	2.5	5.0	9.5	16.5	15.0	20.0	18.0	15.0
14	7.5	4.0	0.0	1.0	4.0	6.0	9.5	17.0	16.0	22.0	17.0	15.0
15	9.0	5.0	0.0	1.0	3.0	6.0	10.0	16.0	17.0	28.0	14.0	15.0
16	9.0	7.5	0.0	1.0	3.5	9.0	3.5	16.0	17.5	21.5	14.5	13.0
17	9.5	5.0	0.5	1.0	5.0	10.0	6.5	16.5	20.0	19.5	14.5	14.0
18	11.5	2.0	0.5	0.0	6.5	10.5	10.0	15.5	21.0	17.5	15.0	14.5
19	9.0	0.0	0.5	0.5	4.0	7.0	10.5	16.0	19.0	19.0	16.0	15.0
20	9.0	0.0	0.0	1.5	1.5	6.0	18.0	15.0	19.0	21.0	17.5	16.0
21	10.0	0.0	0.5	0.5	1.5	6.5	13.0	16.5	15.5	19.0	18.5	15.0
22	9.0	0.0	1.5	0.0	2.5	8.0	12.5	16.5	18.0	21.0	20.0	15.0
23	6.5	1.5	1.0	0.5	3.0	10.0	10.5	16.0	19.5	21.0	15.0	15.5
24	5.0	1.0	1.0	2.5	3.5	10.0	15.0	15.5	20.5	18.5	17.5	17.0
25	6.0	3.0	0.5	1.0	4.5	7.0	9.5	18.0	17.5	22.0	18.0	16.5
26	9.0	3.5	2.0	1.0	6.5	6.0	7.5	18.0	19.0	19.5	17.0	16.0
27	7.0	3.5	4.0	1.0	8.0	5.0	8.0	20.0	21.0	23.0	17.0	16.0
28	6.0	2.0	2.5	1.0	8.0	8.0	9.0	16.0	19.5	18.5	17.5	16.0
29	4.5	0.0	2.5	1.5	8.0	7.0	11.0	14.5	19.0	22.0	20.0	16.0
30	6.5	1.0	3.0	3.5	---	8.0	13.0	14.5	17.5	21.0	17.0	17.0
31	5.5	---	3.0	2.5	---	10.0	---	---	---	21.0	17.0	---
MONTH	9.5	3.5	2.0	1.0	3.0	6.0	10.0	16.0	17.0	20.5	17.5	16.0
YEAR	MAX	28.0	MIN	0.0	MEAN	10.0						

CARSON RIVER BASIN

10312100 Lahontan Reservoir near Fallon, Nev.

LOCATION.--Lat 39°27'45", long 119°04'00", in SW¼SE¼ sec.33, T.19 N., R.26 E., Churchill County, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi (29 km) west of Fallon.

DRAINAGE AREA.--1,950 mi² (5,050 km²), approximately (not counting inflow from Truckee Canal).

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734.

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is at mean sea level, Bureau of Reclamation datum, which is 3.73 ft (1.137 m) lower than datum of 1929, supplementary adjustment of 1956, according to levels by Bureau of Reclamation during 1966.

EXTREMES.--Current year: Maximum contents observed, 224,000 acre-ft (276 hm³) Apr. 22, elevation, 4,154.81 ft (1,266.386 m); minimum observed, 72,080 acre-ft (88.9 hm³) Sept. 30, elevation 4,127.06 ft (1,257.928 m).

Period of record: Maximum contents observed (20-inch flashboard on weir), *328,600 acre-ft (405 hm³) June 16, 1942, elevation 4,164.43 ft (1,269.318 m); minimum observed, *91 acre-ft (112,000 m³) Sept. 7-9, 1929, elevation, 4,070.0 ft (1,240.54 m).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft (364 hm³) between elevations, 4,060.0 ft (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m³) of dead storage below elevation 4,070.0 ft (1,240.54 m). Surface area at spillway elevation, 12,120 acres (49.0 km²). Water is used for irrigation of 87,500 acres (354 km²) in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

COOPERATION.--Records of daily elevations furnished by Truckee-Carson Irrigation District.

Capacity table (elevation, in feet, contents, in acre-ft)

4,125	65,300	4,140	127,800
4,130	82,700	4,150	187,200
4,135	103,500	4,160	272,600

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166800	172000	180800	194000	205300	215400	221000	219700	187300	147400	110000	86900
2	166100	173100	181300	194300	205700	215800	221300	218100	185500	145500	110200	85410
3	165300	174100	181700	194700	206000	216000	221500	220600	184100	143800	110500	84160
4	164700	175100	182400	195000	206200	216700	221800	216700	182300	142100	110900	82240
5	163900	175800	182900	195400	206300	217200	222100	215800	180800	140500	111400	80550
6	163400	176700	183300	195700	206600	217800	222200	214100	179400	139300	111600	79430
7	163000	176700	183800	196000	206900	218200	222100	213200	177700	138200	111700	78550
8	162500	176200	184200	196600	207000	218400	222100	212000	176300	136400	111500	77640
9	162200	175800	184900	196800	207400	218800	221800	211400	174700	134600	111200	76700
10	161600	175800	185400	197400	208200	219300	221700	210700	173800	133000	110600	75660
11	161600	175400	185800	197900	208500	219700	221600	210000	172700	131300	109400	74040
12	161600	174900	186200	198300	208900	220100	221500	209400	172400	129600	108800	74080
13	161600	174600	186500	198700	209200	220400	221600	208900	172200	128400	107500	73660
14	161900	174200	186900	199200	209600	220800	221600	208300	171900	126700	105900	74710
15	161900	173800	187200	199400	209800	221200	222100	207500	171800	124100	104900	73000
16	162800	174500	187700	199700	210000	221500	222100	207200	171200	123500	103700	73140
17	163300	174600	188100	200000	210200	222000	222400	206600	170500	122300	102600	73110
18	163800	174900	188400	200500	210900	222400	222700	206100	169500	121400	101400	73310
19	164300	175800	188600	201000	211700	222700	223100	204800	168100	120400	100300	73420
20	164700	175800	189000	201300	211800	223000	223400	204600	167200	119600	99380	73490
21	165100	176100	189200	201700	212100	223300	223800	203500	165300	118600	98420	73590
22	165300	176600	189600	202100	212600	223300	224000	202300	163900	117800	97730	73590
23	165700	177300	190200	202400	212900	222700	223900	200800	162100	116400	96610	73520
24	166200	177700	190700	202800	213200	223100	223800	199800	160500	115500	95750	73450
25	166800	178200	191200	203100	213800	222500	223500	198400	158600	114200	94860	73280
26	167400	178600	191800	203600	214100	222000	223200	197100	156600	114100	93810	73040
27	167700	179100	192200	203900	214400	221400	223000	195600	154800	113500	92680	72760
28	168500	179500	192700	204300	214700	221200	222500	193700	153200	112800	91680	72590
29	169500	180100	193100	204500	215000	221100	221900	192200	151300	112000	90700	72280
30	170400	180400	---	204700	---	221100	221300	190500	149100	111200	89800	72080
31	171200	---	g193500	205000	---	221000	---	188800	---	g110600	88420	---
MAX	171200	180400	---	205000	215000	223300	224000	220600	187300	147400	111700	86900
MIN	161600	172000	---	194000	205300	215400	221000	188800	149100	110600	88420	72080
(†)	4147.60	4149.01	g4150.90	4152.44	4153.72	4154.45	4154.49	4150.23	4143.91	g4136.53	4131.46	4127.06
(‡)	+3700	+9200	+13100	+11500	+10000	+6000	+300	-32500	-39700	-38500	-22180	-16340

CAL YR 1975 MAX 314100 MIN 167500 ‡ -100
WTR YR 1976 MAX 224000 MIN 72080 ‡ -95420

g INTERPOLATED

* COMPUTED ON BASIS OF CAPACITY TABLE DATED 1972

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FT.

CARSON RIVER BASIN

10312150 Carson River below Lahontan Reservoir, near Fallon, Nev.

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, on left bank 1.1 mi (1.8 km) downstream from Lahontan Dam, and 15 mi (24 km) west of Fallon.

DRAINAGE AREA.--1,950 mi² (5,050 km²), approximately (not counting inflow from Truckee Canal).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,040 ft (1,231 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 394 ft³/s (11.16 m³/s), 390,500 acre-ft/yr (481 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 968 ft³/s (27.4 m³/s) June 24, 25, gage height, 4.34 ft (1.323 m); maximum gage height, 4.37 ft (1.332 m) June 1; minimum daily discharge 4.7 ft³/s (0.133 m³/s) Feb. 27 to Mar. 20.

Period of record: Maximum discharge, 2,300 ft³/s (65.1 m³/s) July 5, 6, 1967, gage height, 7.71 ft (2.350 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Dec. 28, 1971.

REMARKS.--Records good. Flow regulated by Lahontan Reservoir, capacity 295,100 acre-ft (364 hm³) and other upstream regulations. One diversion, approximately 2,500 acre-ft per year (3.08 hm³) between gage and Lahontan Reservoir.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	317	5.8	5.2	5.2	4.7	436	659	889	952	343	899
2	651	289	5.8	5.2	5.2	4.7	404	670	910	957	231	894
3	645	287	5.8	5.2	5.2	4.7	409	701	913	922	166	894
4	594	329	5.7	5.2	5.2	4.7	409	777	913	780	169	888
5	570	345	5.7	5.2	5.2	4.7	475	828	910	750	169	866
6	569	388	5.7	5.2	5.2	4.7	555	867	911	745	268	714
7	550	414	5.7	5.2	5.1	4.7	554	836	908	833	375	645
8	513	412	5.7	5.2	5.1	4.7	540	809	903	924	379	645
9	513	412	5.6	5.2	5.1	4.7	531	805	902	920	510	639
10	513	413	5.6	5.2	5.1	4.7	534	767	686	920	672	642
11	513	416	5.6	5.2	5.1	4.7	533	745	432	885	698	545
12	512	413	5.6	5.2	5.0	4.7	487	745	353	841	717	438
13	512	413	5.6	5.2	5.0	4.7	441	770	352	878	787	374
14	467	413	5.5	5.2	5.0	4.7	444	780	352	856	787	335
15	425	156	5.5	5.2	5.0	4.7	408	786	397	816	786	334
16	424	5.8	5.5	5.2	5.0	4.7	371	785	488	770	790	339
17	424	5.8	5.5	5.2	4.9	4.7	376	782	619	676	769	335
18	425	5.8	5.5	5.2	4.9	4.7	380	784	731	601	685	337
19	425	5.8	5.4	5.2	4.9	4.7	380	859	822	598	621	339
20	425	5.8	5.4	5.2	4.9	4.7	383	895	820	594	614	340
21	418	5.8	5.4	5.2	4.9	131	379	899	854	608	612	370
22	403	5.8	5.4	5.2	4.8	270	456	898	919	684	616	405
23	391	5.8	5.4	5.2	4.8	270	559	902	922	763	625	405
24	364	5.8	5.3	5.2	4.8	287	559	902	930	622	618	409
25	348	5.8	5.3	5.2	4.8	315	555	903	960	475	643	408
26	347	5.8	5.3	5.2	4.8	427	556	904	959	474	702	396
27	352	5.8	5.3	5.2	4.7	440	605	902	958	476	696	386
28	367	5.8	5.3	5.2	4.7	427	641	901	957	512	682	400
29	376	5.8	5.2	5.2	4.7	468	640	899	956	596	676	408
30	371	5.8	5.2	5.2	---	511	639	894	955	600	780	431
31	340	---	5.2	5.2	---	504	---	896	---	530	894	---
TOTAL	14393	5504.0	170.5	161.2	144.3	4144.0	14639	25550	23581	22558	18080	15460
MEAN	464	183	5.50	5.20	4.98	134	488	824	786	728	583	515
MAX	651	416	5.8	5.2	5.2	511	641	904	960	957	894	899
MIN	340	5.8	5.2	5.2	4.7	4.7	371	659	352	474	166	334
AC-FT	28550	10920	338	320	286	8220	29040	50680	46770	44740	35860	30660
CAL YR 1975 TOTAL	197558.5		MEAN 541	MAX 1490	MIN 2.9	AC-FT 391900						
WTR YR 1976 TOTAL	144385.0		MEAN 394	MAX 960	MIN 4.7	AC-FT 286400						

CARSON RIVER BASIN

Outfall from Newlands Project into Stillwater National Wildlife Refuge, near Fallon, Nev.

The following four canals, which are equipped with water stage recorders, combined with 10312280 Carson River below Fallon (see next page), measure the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Records are poor.

10312210 Stillwater Diversion Canal near Fallon, Nev.--Lat 39°28'25", long 118°35'50", in NE¼ sec.34, T.19 N., R.30 E., on right bank 0.2 mi (0.6 km) downstream from a channel to Stillwater Slough and 10 mi (16 km) east of Fallon.

10312220 Stillwater Slough Cutoff Drain near Stillwater, Nev.--Lat 39°33'05", long 118°31'40", in SE¼ sec.32, T.20 N., R.31 E., on left bank 0.9 mi (1.4 km) downstream from Stillwater Slough and 2.3 mi (3.7 km) north-northeast of Stillwater.

10312240 Paiute Diversion Drain near Stillwater, Nev.--Lat 39°33'30", long 118°34'20", in SW¼ sec.36, T.20 N., R.30 E., on right bank 0.1 mi (0.2 km) downstream from diversion out of Paiute Drain and 3 mi (5 km) northwest of Stillwater.

10312260 Indian Lakes Canal near Fallon, Nev.--Lat 39°34'30", long 118°41'30", in NW¼ sec.26, T.20 N., R.29 E., on right bank between 2 lakes 8 mi (13 km) northeast of Fallon.

Records of monthly discharge of these canals, published as a group, are available from October 1966 to current year.

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

Month	Stillwater Diversion Canal	Stillwater Slough Cutoff Drain	Paiute Diversion Drain	Indian Lakes Canal	Total
October	3,310	1,920	70	1,790	7,090
November	2,370	1,540	504	1,800	6,210
December	1,230	471	77	1,610	3,390
CAL YR 1975	36,530	20,230	5,480	17,060	79,300
January	918	347	64	195	1,520
February	663	219	43	181	1,110
March	666	523	45	372	1,610
April	1,490	1,000	233	1,280	4,000
May	2,210	1,700	530	698	5,140
June	2,460	1,700	1,400	754	6,310
July	2,140	1,690	1,230	556	5,620
August	1,760	1,370	430	684	4,240
September	1,960	1,530	320	191	4,000
WTR YR 1975-76	21,180	14,000	4,950	10,120	50,250

CARSON RIVER BASIN

10312280 Carson River below Fallon, Nev.

LOCATION.--Lat 39°40'10", long 118°39'20", in SE¼SW¼ sec.19, T.21 N., R.30 E., Churchill County, on right bank 15 mi (24 km) north-northeast of Fallon.

PERIOD OF RECORD.--October 1966 to June 1967 (monthly discharge only), July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,880 ft (1,183 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 45.2 ft³/s (1.280 m³/s), 32,750 acre-ft/yr (40.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 36 ft³/s (1.02 m³/s) Nov. 20, gage height, 1.72 ft (0.524 m); no flow for many days in July and August.

Period of record: Maximum discharge, 1,030 ft³/s (29.2 m³/s) July 9, 1967, gage height, 6.60 ft (2.012 m); no flow for many days in some years.

REMARKS.--Records good. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity, 295,100 acre ft (364 hm³). Records for this station together with the canals on preceding page represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	11	6.0	14	16	4.0	.51	1.1	3.7	1.2	5.7	7.7
2	7.0	9.1	5.4	13	16	3.4	.61	.59	2.0	3.8	2.5	12
3	5.7	9.3	5.1	13	16	3.0	.74	.71	.30	4.4	.10	12
4	7.5	6.9	4.7	13	17	2.8	.53	1.4	.11	2.5	.02	21
5	5.9	8.5	4.5	13	17	2.6	.44	.96	.04	8.0	0	23
6	5.4	15	4.2	14	22	2.4	.36	1.8	.04	8.9	0	30
7	4.2	15	3.9	15	23	2.1	.35	3.2	.20	2.9	0	11
8	4.8	13	3.7	14	20	2.0	.37	1.6	.69	.92	0	6.4
9	4.8	8.8	3.6	14	19	1.8	.36	.92	.29	.60	0	3.0
10	7.1	7.2	3.5	14	20	1.6	.61	1.6	1.7	.60	0	2.2
11	8.7	5.3	3.3	14	20	1.4	2.9	2.6	2.7	.20	0	3.9
12	9.2	5.7	4.1	14	19	1.2	1.5	3.8	2.7	.20	0	4.1
13	7.0	6.2	11	14	18	1.1	.90	2.2	.58	.16	0	3.1
14	12	23	11	14	18	.99	.60	.69	.22	.04	.02	4.0
15	7.3	19	12	14	17	1.0	.56	.28	.99	.04	.02	4.0
16	6.0	21	15	13	17	1.1	.54	.12	.56	.02	.02	4.2
17	6.3	19	15	13	17	1.0	.54	.08	.24	.02	.04	6.7
18	8.0	14	15	13	17	.93	1.8	.49	.29	0	.04	7.4
19	9.4	13	15	13	17	.91	1.8	1.3	.14	0	.65	7.2
20	11	20	15	13	15	.88	1.2	.75	.08	0	3.3	9.5
21	9.1	13	15	13	11	.77	1.1	.76	2.1	0	1.6	8.2
22	8.6	8.6	15	13	9.0	.72	1.1	.79	1.3	.54	1.4	4.1
23	10	9.2	15	14	8.2	.70	.57	3.3	.21	2.1	.99	2.1
24	14	9.2	15	15	7.4	.97	.48	1.3	.84	3.1	.65	1.7
25	19	8.0	15	16	6.6	.78	.36	.58	1.3	4.8	.25	1.5
26	19	7.4	15	17	5.6	.66	1.5	.89	.64	1.9	.20	1.6
27	18	7.4	15	17	5.1	.50	2.5	1.3	1.2	1.6	.20	1.1
28	13	7.5	15	17	4.7	1.1	1.5	1.1	4.1	.60	.36	1.9
29	11	7.0	15	17	4.2	.65	1.3	.49	2.0	.08	.25	2.9
30	8.6	6.4	15	16	---	.49	1.3	.22	1.2	0	.28	2.6
31	10	---	15	16	---	.46	---	3.2	---	0	1.1	---
TOTAL	283.8	333.7	326.0	443	422.8	44.01	28.93	40.12	32.46	49.22	19.69	210.1
MEAN	9.15	11.1	10.5	14.3	14.6	1.42	.96	1.29	1.08	1.59	.64	7.00
MAX	19	23	15	17	23	4.0	2.9	3.8	4.1	8.9	5.7	30
MIN	4.2	5.3	3.3	13	4.2	.46	.35	.08	.04	0	0	1.1
AC-FT	563	662	647	879	839	87	57	80	64	98	39	417
CAL YR 1975 TOTAL	6870.06			MEAN 18.8	MAX 339	MIN .65	AC-FT 13630					
WTR YR 1976 TOTAL	2233.93			MEAN 6.10	MAX 30	MIN 0	AC-FT 4430					

HUMBOLDT RIVER BASIN

10315500 Marys River above Hot Springs Creek, near Deeth, Nev.

LOCATION.--Lat 41°15'10", long 115°15'20", in NE¼SE¼ sec.24, T.39 N., R.59 E., Elko County, on right bank 1 mi (2 km) upstream from Hot Springs Creek, 7 mi (11 km) north of Cross Ranch, and 13 mi (21 km) north of Deeth.

DRAINAGE AREA.--415 mi² (1,075 km²).

PERIOD OF RECORD.--October 1943 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi (1.9 km) downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--33 years, 63.0 ft³/s (1.784 m³/s), 45,640 acre-ft/yr (56.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 290 ft³/s (8.21 m³/s) May 16, 17, gage height, 4.15 ft (1.265 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 31, Sept. 2, 3, 6, 8.

Period of record: Maximum discharge, 4,210 ft³/s (119 m³/s) Feb. 12, 1962, gage height, 7.63 ft (2.326 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

REMARKS.--Records excellent. Several diversions for irrigation of 7,150 acres (28.9 km²), Humboldt Decree, above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	22	22	17	22	215	86	140	135	13	5.8	1.5
2	3.0	22	24	15	23	117	114	150	124	13	4.2	1.4
3	3.2	22	25	15	23	85	97	155	116	14	3.3	1.4
4	4.5	21	27	16	24	78	102	170	106	14	2.7	1.5
5	5.1	21	31	17	24	77	134	185	93	13	2.6	1.5
6	6.1	21	35	18	26	65	177	200	83	14	3.6	1.4
7	7.7	21	33	17	27	59	181	225	80	11	4.2	1.5
8	8.0	22	35	18	30	61	165	245	68	11	4.2	1.5
9	8.6	22	34	20	35	63	181	240	66	9.6	4.2	1.5
10	11	23	33	19	40	84	179	245	65	8.7	4.2	1.5
11	13	24	30	20	43	110	179	242	66	8.1	4.5	2.0
12	15	22	33	20	50	92	191	255	65	7.4	4.0	2.0
13	17	21	28	20	43	76	198	264	61	9.8	3.1	2.0
14	18	21	22	21	38	75	192	261	58	10	3.1	2.2
15	19	22	18	21	35	77	182	263	57	10	3.5	2.9
16	19	24	18	21	40	73	182	279	49	9.9	3.6	3.3
17	19	25	19	20	36	78	170	288	43	10	3.5	3.1
18	19	22	19	20	36	99	161	269	38	10	3.3	3.1
19	20	19	20	20	35	115	152	258	34	9.8	2.9	4.5
20	20	20	21	21	36	107	144	244	33	9.1	2.7	5.5
21	21	23	21	20	43	84	143	235	32	8.7	2.2	5.8
22	18	21	20	21	45	78	157	227	33	8.0	2.4	7.4
23	17	21	21	21	31	79	166	219	32	7.7	2.6	7.0
24	18	23	22	22	36	85	165	211	28	7.1	2.4	8.3
25	22	24	23	21	42	84	170	201	24	6.7	2.1	8.3
26	19	22	23	20	73	94	180	189	21	6.3	2.0	8.3
27	20	21	22	20	71	84	175	178	18	5.6	1.8	11
28	26	22	22	21	96	83	160	169	16	5.1	1.8	9.6
29	30	19	22	20	159	76	150	158	14	4.9	1.5	11
30	27	20	23	21	---	71	140	148	13	5.2	1.5	10
31	24	---	20	21	---	69	---	141	---	5.5	1.5	---
TOTAL	480.8	653	766	604	1262	2693	4773	6654	1671	286.2	95.0	132.0
MEAN	15.5	21.8	24.7	19.5	43.5	86.9	159	215	55.7	9.23	3.06	4.40
MAX	30	25	35	22	159	215	198	288	135	14	5.8	11
MIN	2.6	19	18	15	22	59	86	140	13	4.9	1.5	1.4
AC-FT	954	1300	1520	1200	2500	5340	9470	13200	3310	568	185	262
CAL YR 1975	TOTAL	39662.4	MEAN	109	MAX	845	MIN	1.2	AC-FT	78670		
WTR YR 1976	TOTAL	20070.0	MEAN	54.8	MAX	288	MIN	1.4	AC-FT	39810		

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-1	1900	3.70	227	5-16	2400	4.15	290
4-13	0600	3.61	202				

NOTE.--No gage-height record Oct. 23 to Dec. 2, Jan. 25 to Feb. 11, Apr. 23 to May 11.

HUMBOLDT RIVER BASIN

10316500 Lamoille Creek near Lamoille, Nev.

LOCATION.--Lat 40°41'30", long 115°28'30", in NE¼ sec.6, T.32 N., R.58 E., Elko County, on left bank 600 ft (180 m) upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermitt ditch, and 3 mi (5 km) south of Lamoille.

DRAINAGE AREA.--25 mi² (65 km²), approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Concrete control since Oct. 30, 1950. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums. Oct. 1 to Jan. 16, 1975, water-stage recorder at site 600 ft (183 m) downstream at datum 4.28 ft (1.305 m) lower.

AVERAGE DISCHARGE.--40 years (1915-22, 1943-76) 43.9 ft³/s (1.243 m³/s), 31,810 acre-ft/yr (39.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 291 ft³/s (8.24 m³/s) May 17, gage height, 4.44 ft (1.353 m); minimum, 6.5 ft³/s (0.18 m³/s) Jan. 19, Sept. 3.

Period of record: Maximum discharge recorded, 794 ft³/s (22.5 m³/s) June 4, 1957, caused by failure of diversion dam 200 ft (61 m) upstream, but may have been exceeded in June 1917 when gage washed out; minimum, 0.10 ft³/s (0.003 m³/s) Feb. 24, 1969.

REMARKS.--Records good except those for winter months, which are fair. Records are now obtained upstream from McDermitt ditch and therefore include that flow, which was previously combined with these figures to give total flow.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	9.4	8.0	7.0	7.2	7.3	8.4	33	209	106	28	6.9
2	7.1	9.3	8.2	6.8	7.2	7.2	8.9	42	210	89	24	6.7
3	7.1	9.1	8.0	7.0	7.2	7.1	8.7	51	209	86	22	6.6
4	7.1	9.1	8.0	7.2	7.4	7.1	8.8	65	213	86	20	6.6
5	7.0	9.1	8.2	7.5	7.0	7.1	9.2	79	219	86	18	6.6
6	7.0	9.1	8.2	7.3	7.2	7.2	9.4	76	219	83	16	6.8
7	7.6	11	8.3	7.7	7.4	7.4	9.7	80	205	77	14	7.0
8	7.4	10	8.3	7.6	7.3	7.5	10	89	188	72	14	6.8
9	7.4	9.4	8.3	7.6	7.4	7.5	11	102	186	68	13	6.8
10	7.3	9.5	8.3	7.4	7.0	7.4	11	131	179	66	12	6.7
11	7.8	9.6	8.3	7.5	7.2	7.4	11	162	154	63	11	29
12	7.6	9.6	8.3	7.4	7.4	7.6	11	165	131	58	11	21
13	7.6	9.5	8.0	7.4	7.4	7.8	11	188	121	52	10	13
14	7.6	9.4	7.6	7.4	7.5	7.6	12	221	105	47	9.8	11
15	7.6	9.3	7.6	7.4	7.5	7.6	13	229	101	45	11	15
16	7.6	9.3	7.8	7.4	7.4	7.6	12	225	101	44	12	31
17	7.6	9.5	8.0	7.4	7.3	7.6	13	240	101	49	11	24
18	7.8	9.0	8.0	7.4	7.4	7.7	13	253	110	46	9.8	20
19	7.7	9.0	8.0	7.2	7.3	7.6	13	249	137	41	9.7	18
20	7.5	9.2	8.2	7.0	7.2	7.9	14	234	160	36	9.0	16
21	7.5	9.2	8.2	7.2	7.2	8.0	16	214	158	33	8.6	15
22	8.0	9.2	8.0	7.5	7.4	8.0	17	196	150	31	8.8	15
23	7.8	8.9	8.0	7.2	7.5	8.0	18	192	119	29	9.6	14
24	7.6	8.8	7.9	7.2	7.5	8.0	21	191	115	28	8.5	13
25	7.7	8.7	7.9	7.3	7.5	8.0	26	199	121	27	8.0	12
26	13	9.1	7.9	7.3	7.4	8.2	23	206	119	25	7.8	12
27	13	8.9	7.9	7.3	7.4	8.3	24	225	117	23	7.5	12
28	10	8.4	7.7	7.2	7.4	8.2	24	245	121	23	7.5	11
29	9.9	8.0	7.6	7.2	7.5	8.2	25	238	125	25	7.3	11
30	9.7	7.8	7.6	7.2	---	8.3	28	222	126	36	7.2	11
31	9.6	---	7.4	7.2	---	8.4	---	208	---	31	6.9	---
TOTAL	252.4	275.4	247.7	226.4	212.7	238.8	440.1	5250	4529	1611	373.0	391.5
MEAN	8.14	9.18	7.99	7.30	7.33	7.70	14.7	169	151	52.0	12.0	13.1
MAX	13	11	8.3	7.7	7.5	8.4	28	253	219	106	28	31
MIN	7.0	7.8	7.4	6.8	7.0	7.1	8.4	33	101	23	6.9	6.6
AC-FT	501	546	491	449	422	474	873	10410	8980	3200	740	777

CAL YR 1975 TOTAL 20278.6 MEAN 55.6 MAX 465 MIN 2.8 AC-FT 40220
WTR YR 1976 TOTAL 14048.0 MEAN 38.4 MAX 253 MIN 6.6 AC-FT 27860

Peak discharge (base, 310 ft³/s).--No peak above base.

HUMBOLDT RIVER BASIN

10317400 North Fork Humboldt River near North Fork, Nev.

LOCATION.--Lat 41 34'30", long 115 54'40", in NW 1/4 sec. 32, T.43 N., R.54 E., Elko County, on right bank above all diversions, 0.7 mi (1.1 km) downstream from Fry Canyon, 1 mi (2 km) upstream from Doheny Ranch, and 9 mi (14 km) northwest of North Fork.

DRAINAGE AREA.--11 mi² (28 km²), approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1965, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 11.6 ft³/s (0.328 m³/s), 8,400 acre-ft/yr (10.4 km³/yr).

EXTREMES.--Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) May 10, gage height, 3.43 ft (1.045 m); minimum, 0.50 ft³/s (0.014 m³/s) Sept. 5.

Period of record: Maximum discharge, 170 ft³/s (4.81 m³/s) June 7, 1975, gage height, 4.10 ft (1.250 m) maximum gage height, 4.43 ft (1.350 m) Jan. 22, 1970; minimum discharge, 0.20 ft³/s (0.006 m³/s) Dec. 17, Jan. 6, 7, 1970, Sept. 26, 1974.

REMARKS.--Records good except those for winter months, which are fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	3.8	3.0	2.0	2.7	3.1	9.9	41	30	5.7	1.9	.62
2	.73	3.6	3.8	1.9	3.1	3.1	9.3	55	28	5.4	1.6	.58
3	.76	3.4	4.1	1.9	3.5	3.1	12	68	27	5.1	1.5	.57
4	.74	3.2	4.4	1.9	3.0	3.1	21	76	26	4.8	1.5	.56
5	.75	3.0	4.9	1.9	2.6	3.1	31	70	24	4.6	1.4	.55
6	.74	2.8	8.0	1.9	2.9	3.1	31	60	23	4.4	1.3	.64
7	1.1	4.9	7.4	1.9	2.8	3.1	28	67	22	4.2	1.3	.66
8	1.1	5.0	7.3	1.9	2.7	3.2	32	79	21	4.0	1.3	.64
9	1.1	4.0	7.3	1.9	2.6	3.6	30	76	20	3.8	1.2	.63
10	1.1	3.7	7.1	1.7	2.4	4.4	30	84	21	3.6	1.1	.61
11	1.3	3.4	6.5	1.7	2.6	5.0	32	88	19	3.5	1.0	1.5
12	1.2	3.0	5.6	1.7	2.6	5.4	30	77	15	3.3	.99	1.1
13	1.4	3.1	3.5	1.7	2.6	5.0	25	77	13	3.1	.97	.85
14	1.3	3.1	3.0	1.8	2.5	4.8	25	85	12	2.9	.93	.83
15	1.3	3.2	3.0	1.9	2.3	4.5	26	77	12	2.7	1.6	2.8
16	1.3	3.8	3.5	1.9	2.0	4.5	21	67	12	2.6	1.3	7.9
17	1.3	3.5	3.2	1.8	2.5	5.0	18	65	12	3.1	1.3	7.5
18	1.2	2.9	3.1	1.8	2.0	6.4	16	64	11	3.1	1.1	6.2
19	1.2	2.7	2.9	1.8	1.9	6.1	16	61	11	2.6	1.1	4.4
20	1.2	2.7	2.9	2.0	1.9	6.4	24	55	11	2.6	.94	3.4
21	1.2	2.6	2.8	2.0	2.0	6.0	33	49	11	2.5	.82	2.8
22	1.4	2.5	2.7	2.0	2.3	6.2	38	44	10	2.2	1.3	2.5
23	1.4	2.7	2.7	2.0	2.6	6.0	38	42	9.1	2.1	1.4	2.1
24	1.2	2.7	2.7	2.0	2.8	6.0	45	41	8.5	2.1	.99	1.9
25	1.8	2.5	2.7	2.0	2.9	6.0	45	41	7.8	1.9	.89	1.7
26	1.4	2.5	2.6	2.0	3.0	5.9	32	39	7.5	1.8	.84	1.6
27	8.2	2.7	2.4	2.0	3.5	5.8	25	40	6.9	1.7	.81	1.6
28	5.3	2.3	2.4	2.0	3.8	5.5	22	41	6.4	1.7	.76	1.5
29	4.6	2.0	2.5	2.1	3.9	5.5	23	38	6.2	1.7	.73	1.4
30	4.7	2.3	2.3	2.3	---	5.6	30	34	5.8	1.7	.68	1.3
31	4.1	---	2.2	2.5	---	7.6	---	31	---	2.0	.66	---
TOTAL	69.47	93.6	122.5	59.9	78.0	152.1	798.2	1832	449.2	96.5	35.21	60.94
MEAN	2.24	3.12	3.95	1.93	2.69	4.91	26.6	59.1	15.0	3.11	1.14	2.03
MAX	14	5.0	8.0	2.5	3.9	7.6	45	88	30	5.7	1.9	7.9
MIN	.73	2.0	2.2	1.7	1.9	3.1	9.3	31	5.8	1.7	.66	.55
AC-FT	138	186	243	119	155	302	1580	3630	891	191	70	121
CAL YR 1975 TOTAL	5712.51											
WTR YR 1976 TOTAL	3847.62											
MEAN 15.7												
MAX 138												
MIN .73												
AC-FT 11330												
MEAN 10.5												
MAX 88												
MIN .55												
AC-FT 7630												

Peak discharge (base, 65 ft³/s).--May 10 (1700) 103 ft³/s (3.43 ft).

10317500 North Fork Humboldt River at Devils Gate, near Halleck, Nev.

LOCATION.--Lat 41°10'50", long 115°29'35", in SE¼ sec.13, T.38 N., R.57 E., Elko County, on right bank 500 ft (150 m) downstream from Devils Gate Canyon, 16 mi (26 km) north of Halleck, and 26 mi (42 km) upstream from mouth. Prior to Aug. 8, 1975, at site 500 ft (150 m) downstream.

DRAINAGE AREA.--830 mi² (2,150 km²), approximately.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,370 ft (1,636.8 m) above mean sea level (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.1 mi (0.2 km) upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower. Mar. 21 1970, to Oct. 11, 1973, at site 250 ft (80 m) downstream at datum 2.00 ft (0.610 m) lower. Oct. 12, 1973 to Aug. 7, 1975 at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.--41 years, 74.8 ft³/s (2.118 m³/s), 54,190 acre-ft/yr (66.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 736 ft³/s (20.8 m³/s) Feb 29, gage height, 5.63 ft (1.716 m), minimum, 3.4 ft³/s (0.096 m³/s) July 29, 30.

Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) Feb. 11, 1962, gage height, 16.12 ft (4.913 m), from high-water mark in well, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) July 26, 1960.

REMARKS.--Records poor. Many diversions for irrigation of 16,600 acres (67.2 km²), Humboldt Decree, above station.

REVISED RECORDS.--WSP 1314: 1913 (M), 1946.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	27	30	21	24	399	147	124	102	9.3	5.0	4.7
2	13	26	33	17	25	157	131	144	93	8.4	4.2	4.7
3	11	26	38	18	26	85	109	142	92	8.1	4.4	4.5
4	12	25	41	19	27	72	130	159	74	7.8	4.0	4.5
5	12	25	44	21	23	55	162	177	68	7.8	3.9	4.4
6	11	25	47	22	21	53	171	220	72	7.2	3.7	4.4
7	13	25	53	21	24	55	164	243	70	6.8	3.7	4.6
8	18	25	51	23	26	55	167	236	59	6.3	3.8	4.5
9	20	25	48	25	23	76	177	240	48	5.8	3.9	4.5
10	19	27	46	24	21	142	174	264	45	5.5	4.0	4.5
11	20	27	46	22	22	212	170	231	50	5.5	4.0	6.5
12	23	25	44	21	23	119	168	219	56	5.3	4.0	7.5
13	20	23	35	21	24	99	184	218	61	5.1	4.1	8.0
14	17	24	27	21	27	104	178	209	60	5.1	4.0	7.3
15	17	25	21	22	27	106	168	208	55	4.7	5.7	8.2
16	16	29	22	23	34	95	154	231	49	4.6	5.9	11
17	17	29	23	22	34	112	148	210	39	5.0	4.7	24
18	17	24	23	22	32	185	152	192	34	5.3	4.5	32
19	15	21	24	23	32	229	142	180	32	5.1	4.5	24
20	15	26	25	23	33	140	137	183	26	4.9	4.4	20
21	16	28	24	22	29	101	133	178	22	4.7	4.3	19
22	16	24	24	22	28	112	133	171	21	4.4	4.5	19
23	16	28	25	22	37	122	138	162	19	4.3	5.4	17
24	24	28	26	22	37	126	155	158	18	4.2	5.9	16
25	17	29	26	21	47	129	143	150	16	4.0	6.8	16
26	19	26	27	20	153	125	150	152	13	3.9	7.2	15
27	26	27	26	21	358	107	159	132	12	3.9	6.9	16
28	44	25	26	21	395	103	159	128	12	3.8	6.4	16
29	39	20	26	22	550	89	144	124	11	3.6	5.8	15
30	32	24	27	22	---	91	129	127	10	5.0	5.0	15
31	29	---	25	23	---	101	---	113	---	6.2	4.7	---
TOTAL	595	768	1003	669	2162	3756	4576	5625	1339	171.6	149.3	357.8
MEAN	19.2	25.6	32.4	21.6	74.6	121	153	181	44.6	5.54	4.82	11.9
MAX	44	29	53	25	550	399	184	264	102	9.3	7.2	32
MIN	11	20	21	17	21	53	109	113	10	3.6	3.7	4.4
AC-FT	1180	1520	1990	1330	4290	7450	9080	11160	2660	340	296	710
CAL YR 1975	TOTAL	46438.0	MEAN 127	MAX 940	MIN 7.0	AC-FT 92110						
WTR YR 1976	TOTAL	21171.7	MEAN 57.8	MAX 550	MIN 3.6	AC-FT 41990						

PEAK DISCHARGE (BASE, 170 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-29	0600	5.63	736	4-13	1600	4.17	208
3-11	0600	4.62	312	5-10	1500	4.61	328
3-19	0600	4.42	270				

HUMBOLDT RIVER BASIN

10318500 Humboldt River near Elko, Nev.

LOCATION.--Lat 40°56'00", long 115°38'00", in SE¼NE¼ sec.11, T.35 N., R.56 E., Elko County, on right bank 1 mi (2 km) southwest of Ryndon, 1.5 mi (2.4 km) upstream from Jackson Creek, 5 mi (8 km) downstream from North Fork, and 10 mi (16 km) northeast of Elko.

DRAINAGE AREA.--2,800 mi² (7,252 km²), approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft (1,567.379 m) above mean sea level, datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi (18 km) downstream at different datum.

AVERAGE DISCHARGE.--39 years, 241 ft³/s (6.825 m³/s), 174,600 acre-ft/yr (215 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 993 ft³/s (28.1 m³/s) Mar. 1, gage height, 5.53 ft (1.686 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 1-5, 7-9.

Period of record: Maximum discharge, 7,070 ft³/s (200 m³/s) Feb. 13, 1962, gage height, 12.3 ft (3.75 m); no flow for many days in August and September 1948.

REMARKS.--Records good. Diversions for irrigation of 95,800 acres (388 km²), Humboldt Decree, above station.

REVISED RECORDS.--WSP 1714: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	78	110	94	135	958	288	318	454	95	6.7	1.4
2	11	75	128	86	140	759	327	295	429	93	6.8	1.4
3	11	74	159	80	152	518	313	293	415	73	8.0	1.4
4	11	73	172	77	140	420	303	300	400	63	7.1	1.4
5	10	72	202	80	115	385	318	303	382	55	6.4	1.4
6	11	73	203	88	106	365	342	377	352	46	6.1	1.5
7	14	75	204	102	146	368	349	449	339	46	5.2	1.4
8	18	80	199	112	131	344	354	457	330	52	4.2	1.4
9	21	97	191	111	130	337	374	442	313	50	3.7	1.5
10	22	102	187	108	125	362	397	449	288	48	3.1	1.6
11	25	116	176	105	130	424	402	449	295	45	2.8	2.9
12	44	96	177	101	150	429	395	444	339	42	2.5	2.4
13	58	91	140	102	165	363	390	452	374	37	2.2	2.0
14	64	93	119	105	171	341	390	462	344	33	2.0	1.9
15	64	97	110	100	194	349	397	447	290	26	2.9	2.4
16	56	102	112	109	223	333	390	459	261	23	2.6	3.4
17	51	107	114	112	195	327	379	498	216	20	2.4	5.3
18	47	103	120	113	208	353	390	508	190	20	2.2	9.5
19	44	84	127	111	244	410	382	508	164	20	2.2	28
20	43	87	133	110	250	415	365	503	133	20	2.8	29
21	43	100	129	108	201	344	372	514	133	19	2.6	26
22	42	83	124	104	188	325	342	514	127	20	3.1	23
23	43	102	113	100	194	327	318	527	139	18	2.8	21
24	47	94	117	92	220	335	320	540	152	15	2.5	21
25	51	111	122	100	251	311	327	514	137	14	2.2	21
26	61	85	137	102	315	307	344	485	116	12	2.0	19
27	76	107	135	102	452	307	364	449	102	9.7	1.8	18
28	98	101	146	109	676	301	362	439	93	9.0	1.8	17
29	101	93	130	117	810	300	342	439	85	8.1	1.6	18
30	93	97	120	124	---	285	339	449	87	8.0	1.6	17
31	84	---	104	134	---	280	---	472	---	7.9	1.5	---
TOTAL	1375	2748	4460	3198	6557	11982	10675	13755	7479	1047.7	105.4	302.2
MEAN	44.4	91.6	144	103	226	387	356	444	249	33.8	3.40	10.1
MAX	101	116	204	134	810	958	402	540	454	95	8.0	29
MIN	10	72	104	77	106	280	288	293	85	7.9	1.5	1.4
AC-FT	2730	5450	8850	6340	13010	23770	21170	27280	14830	2080	209	599
CAL YR 1975 TOTAL	164936.0			MEAN 452	MAX 2590	MIN 10	AC-FT 327200					
WTR YR 1976 TOTAL	63684.3			MEAN 174	MAX 958	MIN 1.4	AC-FT 126300					

HUMBOLDT RIVER BASIN

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10320000 South Fork Humboldt River above Dixie Creek, near Elko, Nev.

LOCATION.--Lat 40°41'05", long 115°48'45", in NW¼SW¼ sec.5, T.32 N., R.55 E., Elko County, on left bank 1.5 mi (2.4 km) upstream from Dixie Creek and 10.5 mi (16.9 km) south of Elko.

DRAINAGE AREA.--1,150 mi² (2,978 km²), approximately.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft (1,567 m), from topographic map.

AVERAGE DISCHARGE.--28 years, 118 ft³/s (3.342 m³/s), 85,490 acre-ft/yr (105 km³/yr).

EXTREMES.--Current year: Maximum discharge, 466 ft³/s (13.2 m³/s) May 19, 20, gage height, 3.82 ft (1.164 m); maximum gage height, 4.72 ft (1.439 m) Feb. 16 (backwater from ice); minimum discharge, 8.4 ft³/s (0.24 m³/s) Sept. 5.
Period of record: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Feb. 11, 1962, gage height, 7.2 ft (2.19 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 9, 1959.

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of 36,200 acres (147 km²), Humboldt Decree, above station.

REVISED RECORDS.--WSP 1284: 1952 (M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	40	32	46	49	175	79	93	369	111	36	11
2	16	38	38	42	48	139	75	100	365	104	32	10
3	16	40	45	40	47	124	75	114	356	97	30	9.8
4	16	42	50	38	47	101	77	132	343	88	24	9.4
5	16	44	65	38	50	96	79	161	337	84	23	9.1
6	16	44	76	38	54	96	85	204	329	77	21	12
7	21	47	76	38	60	98	89	196	322	71	20	12
8	25	57	74	39	64	100	89	194	298	68	20	12
9	24	55	74	41	62	104	96	190	273	55	18	11
10	23	52	73	43	60	108	99	203	273	50	16	11
11	27	50	73	42	62	109	97	221	284	50	13	18
12	38	48	70	41	66	89	99	245	282	48	13	23
13	40	47	61	40	70	88	106	267	255	46	14	21
14	42	47	52	40	87	93	121	307	217	44	15	18
15	41	48	47	41	92	90	150	347	192	41	20	21
16	37	50	47	47	94	88	146	364	174	38	23	31
17	35	53	48	49	92	88	149	395	165	41	20	31
18	33	50	51	49	88	93	141	428	153	47	19	26
19	32	43	53	46	86	94	134	443	145	41	20	24
20	33	38	52	43	88	82	121	442	167	39	18	25
21	32	35	50	41	96	81	114	440	183	37	17	25
22	32	36	48	40	105	84	111	415	219	38	19	23
23	30	34	47	41	117	84	106	405	185	36	23	20
24	29	34	46	43	202	80	100	390	159	29	19	20
25	30	35	48	45	219	80	106	393	151	24	17	20
26	36	36	50	46	227	75	104	387	145	23	15	20
27	41	35	52	48	221	80	105	395	132	20	14	21
28	45	33	53	49	209	81	105	417	122	20	13	22
29	44	31	53	51	202	79	102	426	117	18	12	20
30	42	26	51	52	---	78	98	415	114	26	11	20
31	40	---	49	51	---	79	---	388	---	32	11	---
TOTAL	948	1268	1704	1348	2964	2936	3158	9517	6826	1543	586	556.3
MEAN	30.6	42.3	55.0	43.5	102	94.7	105	307	228	49.8	18.9	18.5
MAX	45	57	76	52	227	175	150	443	369	111	36	31
MIN	16	26	32	38	47	75	75	93	114	18	11	9.1
AC-FT	1880	2520	3380	2670	5880	5820	6260	18880	13540	3060	1160	1100
CAL YR 1975 TOTAL	85490.0											
MEAN	234											
MAX	1510											
MIN	14											
WTR YR 1976 TOTAL	33354.3											
MEAN	91.1											
MAX	443											
MIN	9.1											
AC-FT	66160											

Peak discharge (base, 400 ft³/s).--May 19 (0900) 466 ft³/s (3.82 ft); May 29 (1000) 448 ft³/s (3.79 ft).

HUMBOLDT RIVER BASIN

10322500 Humboldt River at Palisade, Nev.

LOCATION.--Lat°40 36'25", long 116°12'05", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.32 N., R.51 E., Eureka County, on right bank 0.2 mi (0.3 km) downstream from Southern Pacific Railroad bridge, 0.5 mi (0.8 km) downstream from Palisade, and 0.8 mi (1.3 km) upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi² (12,980 km²), approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft (1,470.828 m) above mean sea level, datum of 1929. Prior to Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

AVERAGE DISCHARGE.--69 years (1902-6, 1911-76) 372 ft³/s (10.54 m³/s), 269,500 acre-ft/yr (332 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 940 ft³/s (26.6 m³/s) March 3, gage height, 4.10 ft (1.250 m); minimum, 13 ft³/s (0.37 m³/s) July 19.

Period of record: Maximum discharge, 6,610 ft³/s (187 m³/s) Feb. 12, 1962, gage height, 10.0 ft (3.05 m); minimum, 2 ft³/s (0.057 m³/s) Aug. 25-28, 1931.

Maximum stage known, about 17 ft (5.2 m), present datum, about Feb. 28, 1910, from old photographs and written statements of resident witnesses, discharge, about 17,000 ft³/s (481 m³/s), from rating curve extended above 7,000 ft³/s (200 m³/s), by logarithmic plotting.

REMARKS.--Records good. Diversions for irrigation of 148,000 acres (599 km²), Humboldt Decree, of hay and pasture land above station.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	176	184	155	194	874	381	427	750	191	39	32
2	56	169	197	140	197	892	381	423	745	184	35	32
3	55	167	213	130	202	928	403	411	720	174	40	31
4	53	169	229	125	215	808	431	407	695	167	48	28
5	53	164	250	125	224	610	403	423	680	155	42	26
6	55	167	268	140	180	556	407	493	650	144	32	28
7	64	174	286	179	181	534	419	547	625	133	28	28
8	71	176	295	199	207	511	451	578	606	127	28	29
9	70	179	298	207	250	502	493	625	578	123	28	29
10	70	181	295	197	259	498	498	630	574	111	29	31
11	76	184	289	171	260	506	511	640	583	106	26	37
12	89	184	289	176	268	529	538	650	583	98	22	45
13	96	194	286	175	286	560	552	665	565	92	20	47
14	102	184	247	174	295	529	552	675	560	87	18	48
15	119	186	174	189	415	488	570	710	547	75	20	50
16	125	191	184	189	455	480	596	745	493	68	20	56
17	129	194	185	194	384	480	588	735	439	78	20	66
18	127	194	190	194	378	484	583	778	399	75	18	78
19	123	189	204	191	439	493	565	838	346	75	22	70
20	121	169	202	181	435	511	560	856	304	76	18	63
21	123	157	204	181	395	542	529	856	301	71	17	58
22	125	167	197	179	374	516	511	862	313	66	18	59
23	125	164	207	179	360	471	475	856	336	68	23	61
24	127	167	221	186	395	459	443	862	304	64	24	61
25	129	176	215	176	488	451	419	856	286	61	24	56
26	139	181	221	164	538	447	427	838	277	59	28	56
27	150	184	215	181	606	431	447	838	265	53	23	56
28	157	160	213	176	640	431	463	826	247	50	22	56
29	164	145	215	184	796	427	484	808	221	40	29	58
30	176	148	195	189	---	419	455	796	207	37	32	56
31	179	---	175	197	---	403	---	766	---	39	32	---
TOTAL	3303	5240	7043	5423	10316	16770	14535	21420	14199	2947	825	1431
MEAN	107	175	227	175	356	541	485	691	473	95.1	26.6	47.7
MAX	179	194	298	207	796	928	596	862	750	191	48	78
MIN	53	145	174	125	180	403	381	407	207	37	17	26
AC-FT	6550	10390	13970	10760	20460	33260	28830	42490	28160	5850	1640	2840

CAL YR 1975 TOTAL 300978 MEAN 825 MAX 3650 MIN 53 AC-FT 597000
WTR YR 1976 TOTAL 103452 MEAN 283 MAX 928 MIN 17 AC-FT 205200

LOCATION.--Lat 40°40'45", long 116°38'45", in SE NW sec.2, T.32 N., R.47 E., Lander County, on left bank 3 mi (5 km) east of Argenta and 15.5 mi (24.9 km) east of Battle Mountain.

DRAINAGE AREA.--7,490 mi² (19,400 km²), approximately.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (1,396 m), from topographic map.

AVERAGE DISCHARGE.--30 years, 336 ft³/s (9.516 m³/s), 243,400 acre-ft/yr (300 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 862 ft³/s (24.4 m³/s) Mar. 4, gage height, 6.05 ft (1.844 m); minimum 0.86 ft³/s (0.024 m³/s) Sept. 30.

Period of record: Maximum discharge, 6,000 ft³/s (170 m³/s) Feb. 15, 1962, gage height, 10.78 ft (3.286 m) on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft (3.377 m) May 2, 1952; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Sept. 15 to Oct. 17, 1955.

REMARKS.--Records good. Many diversions above station for irrigation. Records do not include flow in secondary channels or ditches, much of which is used for irrigation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	141	170	160	195	743	357	370	596	153	14	2.7
2	20	142	190	149	195	797	343	357	581	147	12	2.6
3	21	141	199	137	200	827	337	347	567	141	11	2.4
4	20	139	209	130	202	853	353	337	549	133	10	2.3
5	19	139	219	130	200	746	367	334	528	129	9.9	2.2
6	18	141	232	145	208	620	350	357	514	121	9.6	2.2
7	21	143	245	180	205	567	343	409	493	116	8.8	2.0
8	21	149	262	220	212	538	353	439	476	106	8.0	2.0
9	22	154	274	235	220	517	377	466	453	101	7.5	2.0
10	24	154	276	234	228	507	395	490	446	90	7.1	1.9
11	30	159	279	225	230	500	398	496	450	84	6.3	2.4
12	31	163	278	192	248	507	420	500	442	79	5.5	1.9
13	37	163	279	190	262	521	439	514	439	69	4.9	1.8
14	42	171	286	190	280	538	450	528	416	62	4.6	1.7
15	47	171	242	190	308	514	450	535	409	57	6.3	3.0
16	53	172	197	195	416	483	460	567	391	53	5.6	2.6
17	60	176	198	198	435	476	473	593	353	52	4.7	2.2
18	65	181	205	208	377	473	473	585	321	51	4.4	1.9
19	67	188	210	198	391	473	470	607	302	47	4.3	1.6
20	70	177	227	200	446	476	476	640	272	39	4.1	1.6
21	74	175	239	190	427	490	466	658	242	31	3.9	1.4
22	79	187	239	193	391	514	424	668	230	27	4.6	1.4
23	81	173	205	190	377	490	409	671	233	25	4.9	1.3
24	83	169	213	190	370	463	405	675	239	23	5.0	1.3
25	86	173	238	195	405	442	367	671	222	22	4.4	1.3
26	92	180	229	186	483	431	350	664	210	21	4.2	1.2
27	100	188	223	181	521	424	360	635	202	19	3.8	1.2
28	109	170	217	185	585	413	374	637	192	18	3.6	1.1
29	120	155	215	185	620	409	388	630	178	16	3.3	1.1
30	130	160	218	187	---	374	395	620	164	14	3.2	.96
31	136	---	190	190	---	367	---	617	---	14	3.0	---
TOTAL	1800	4894	7103	5778	9637	16493	12022	16617	11110	2060	192.5	55.26
MEAN	58.1	163	229	186	332	532	401	536	370	66.5	6.21	1.84
MAX	136	188	286	235	620	853	476	675	596	153	14	3.0
MIN	18	139	170	130	195	367	337	334	164	14	3.0	.96
AC-FT	3570	9710	14090	11460	19110	32710	23850	32960	22040	4090	382	110
CAL YR 1975 TOTAL	306821.00			MEAN 841	MAX 3880	MIN 18		AC-FT 608600				
WTR YR 1976 TOTAL	87761.76			MEAN 240	MAX 853	MIN .96		AC-FT 174100				

10324500 Rock Creek near Battle Mountain, Nev.

LOCATION.--Lat 40°49'30", long 116°34'45", in SW¼SE¼ sec.17, T.34 N., R.48 E., Eureka County, on left bank at mouth of canyon, 22 mi (35 km) northeast of Battle Mountain.

DRAINAGE AREA.--875 mi² (2,266 km²), approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi (17.7 km) upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi (0.6 km) upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946, at datum 9.45 ft (2.880 m) higher Jan. 4, 1946, to July 23, 1964, at datum 7.35 ft (2.240 m) higher July 23, 1964, to Oct. 31, 1968, and at datum 6.34 ft (1.932 m) higher Nov. 1, 1968, to Oct. 28, 1970.

AVERAGE DISCHARGE.--36 years (1918-23, 1945-76), 34.0 ft³/s (0.963 m³/s), 24,630 acre-ft/yr (30.4 km³/yr).

EXTREMES.--Current year: Maximum discharge, 130 ft³/s (3.68 m³/s) Mar. 1, gage height, 3.43 ft (1.045 m); No flow July 13-16, 25, 28-30.

Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Feb. 11, 1962, gage height, 6.89 ft (2.100 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement of peak flow; no flow at times in July, August, September, and October nearly every year.

REVISIONS.--The figures of maximum discharge for water years 1971 and 1974 have been revised to 434 ft³/s (12.3 m³/s) Jan. 18, 1971, gage height, 4.51 ft (1.375 m), and 750 ft³/s (21.2 m³/s) Jan. 18, 1974, gage height unknown, superseding figures published in WRD 1971 and 1974.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation of 4,380 acres (17.7 km²), Humboldt Decree, in valleys upstream. Station is above all diversions in Boulder Flat and below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi (48 km) upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 km³).

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959.

REVISIONS.--The figures of peak discharge for water years 1971 and 1974 have been revised as follows (superseding figures published in WRD 1971 and 1974):

1971: Jan. 18 (2400) 434 ft³/s (4.51 ft); Mar. 24 (1300) 329 ft³/s (4.23 ft).

1974: Jan. 18 (time unk.) 750 ft³/s (gage height unk.); Mar. 2 (1230) 515 ft³/s (4.60 ft); Mar. 13 (1300) 282 ft³/s (4.02 ft); Apr. 3 (1000) 285 ft³/s (4.03 ft).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	6.2	7.4	4.3	9.6	109	39	33	1.1	.77	3.7	.37
2	4.2	5.8	7.7	4.9	11	72	53	33	.92	.67	1.7	.33
3	4.4	5.8	6.7	5.8	14	41	41	35	1.4	.55	.90	.30
4	4.0	5.7	7.0	6.5	13	39	45	36	1.7	.44	.56	.31
5	2.9	5.4	7.7	6.7	8.8	28	36	32	1.9	.36	.44	.34
6	2.6	5.3	8.4	6.3	12	28	39	41	1.9	.32	.33	.51
7	3.7	5.5	9.5	6.8	13	29	43	57	1.8	.23	.24	.44
8	3.3	5.7	9.6	6.8	14	29	43	63	1.8	.20	.19	.41
9	3.2	5.4	9.0	6.8	13	28	46	56	1.8	.17	.17	.39
10	3.6	5.4	9.0	6.9	13	33	45	47	2.0	.09	.15	.47
11	4.3	5.2	8.6	6.4	14	38	41	35	2.5	.06	.17	1.7
12	4.3	4.7	8.8	6.2	16	40	41	25	1.9	.02	.79	1.4
13	4.0	5.0	7.0	6.4	19	31	41	22	7.7	0	.79	1.1
14	3.8	5.7	5.6	6.8	23	32	38	19	10	0	.92	.86
15	3.7	5.4	5.0	7.2	22	33	37	16	9.8	0	1.5	3.9
16	3.6	5.8	5.0	7.4	20	29	38	14	10	0	1.6	4.9
17	3.6	5.7	5.2	7.4	20	32	33	14	9.7	.22	1.6	2.8
18	3.6	4.8	5.4	7.4	19	34	33	15	10	.66	1.7	5.0
19	3.6	4.4	5.8	7.2	18	52	34	15	11	.71	1.9	2.9
20	3.7	4.9	6.2	6.4	18	47	32	14	9.9	.46	1.3	2.3
21	3.9	5.2	6.4	5.9	19	35	30	13	9.1	.26	.82	1.9
22	4.3	4.8	6.1	5.7	20	35	31	10	8.8	.15	1.1	2.2
23	4.6	5.2	6.0	5.6	20	36	30	6.0	7.9	.07	1.9	1.7
24	4.4	5.2	6.2	5.8	19	37	31	5.2	5.5	.01	1.7	1.9
25	5.6	5.0	6.4	6.2	23	37	31	5.0	4.3	0	1.7	1.7
26	7.6	4.7	6.4	6.6	33	41	33	3.7	3.0	.01	1.1	1.6
27	8.6	4.6	6.6	7.4	76	39	42	2.9	2.3	.01	.69	1.6
28	8.3	4.5	6.6	7.7	71	40	47	2.5	1.6	0	.56	1.7
29	7.4	4.4	6.7	7.9	66	37	42	2.2	1.3	0	.50	1.8
30	6.8	5.3	5.8	8.1	---	33	39	1.7	1.2	0	.43	1.8
31	6.6	---	5.2	8.6	---	33	---	1.4	---	1.4	.38	---
TOTAL	142.2	156.7	213.0	206.1	657.4	1207	1154	675.6	143.82	7.84	31.53	48.63
MEAN	4.59	5.22	6.87	6.65	22.7	38.9	38.5	21.8	4.79	.25	1.02	1.62
MAX	8.6	6.2	9.6	8.6	76	109	53	63	11	1.4	3.7	5.0
MIN	2.6	4.4	5.0	4.3	8.8	28	30	1.4	.92	0	.15	.30
AC-FT	282	311	422	409	1300	2390	2290	1340	285	16	63	96

CAL YR 1975 TOTAL 33100.45 MEAN 90.7 MAX 994 MIN .42 AC-FT 65650
WTR YR 1976 TOTAL 4643.82 MEAN 12.7 MAX 109 MIN 0 AC-FT 9210

Peak discharge (base, 75 ft³/s).--Mar. 1 (1800) 130 ft³/s (3.43 ft).

NOTE.--No gage-height record Oct. 2 to Nov. 21.

LOCATION.--Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, 30 ft (9 m) downstream from bridge on State Highway 18A, on left bank 2 mi (3 km) north of Battle Mountain. Reese River enters Humboldt River several miles below station.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

AVERAGE DISCHARGE.--34 years (1896-97, 1921-23, 1945-76), 347 ft³/s (9.827 m³/s), 251,400 acre-ft/yr (310 hm³/yr).

Period of record: Maximum daily discharge, 5,800 ft³/s (164 m³/s) May 3, 4, 1952 (includes flow bypassing gage outside of main channel); no flow Sept. 8 to Oct. 22, 1948, Sept. 21-26, 1949, Sept. 21-27, 1959.

REVISED RECORDS.--WSP 1564: 1897-98, 1923.

[illegible]

HUMBOLDT RIVER BASIN

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10325500 Reese River near Ione, Nev.

LOCATION.--Lat 38°51'00", long 117°28'00", in NW¼ sec.3, T.11 N., R.40 E., Nye County, on right bank 2.5 mi (4.0 km) upstream from Indian Creek, 8 mi (13 km) southeast of Ione, and 58 mi (93 km) southwest of Austin.

DRAINAGE AREA.--53 mi² (137 km²), approximately.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Concrete control since Oct. 3, 1956. Altitude of gage is 7,100 ft (2,164 m), from topographic map. Prior to Sept. 9, 1955, at site 200 ft (61 m) upstream at datum 2.85 ft (0.869 m) higher.

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

EXTREMES.--Current year: Maximum discharge, 28 ft³/s (0.79 m³/s) May 18, 19, gage height, 0.98 ft (0.299 m); minimum, 0.55 ft³/s (0.016 m³/s) Nov. 17.

Period of record: Maximum discharge, 512 ft³/s (14.5 m³/s) July 27, 1956, gage height, 4.86 ft (1.481 m), from rating curve extended above 45 ft³/s (1.27 m³/s) on basis of slope-area measurement of peak flow; no flow at times in some years.

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

REVISED RECORDS.--WSP 1927: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.2	5.2	3.7	3.6	3.3	5.8	15	16	4.7	8.9	1.4
2	4.1	5.4	5.2	3.5	3.4	2.5	5.7	16	15	4.7	6.8	1.3
3	4.0	5.2	5.5	4.0	3.2	2.3	6.7	18	15	4.2	5.5	1.3
4	3.9	5.0	4.7	4.2	2.8	2.5	6.6	18	14	3.7	4.6	1.3
5	4.0	4.9	3.9	4.3	2.6	2.8	6.8	18	13	3.5	4.0	1.6
6	4.0	4.7	4.4	3.8	2.2	3.5	6.3	20	13	3.3	3.5	2.1
7	5.3	4.7	4.7	3.9	2.4	4.1	6.7	18	12	3.2	3.2	2.5
8	5.8	4.7	4.1	4.3	3.2	4.1	7.4	18	12	3.0	3.0	2.1
9	5.0	3.5	3.7	4.2	3.8	4.3	6.0	18	11	2.8	3.0	1.9
10	5.0	3.7	3.3	4.2	3.7	4.4	7.3	17	12	2.8	2.7	1.9
11	5.2	2.6	2.1	4.4	3.7	3.7	7.3	18	12	2.6	2.5	7.8
12	6.0	3.9	2.5	4.2	3.5	3.0	6.8	19	11	2.5	2.3	8.7
13	6.2	4.7	3.5	3.9	3.8	3.9	7.0	19	10	2.4	2.2	6.5
14	6.3	4.7	3.0	4.5	4.4	4.4	6.2	22	9.7	2.1	2.4	5.8
15	5.3	4.7	3.2	4.2	3.9	4.8	6.4	24	9.3	2.2	2.9	11
16	5.5	4.7	4.0	4.2	3.6	6.1	4.2	25	8.7	3.0	2.8	11
17	5.5	2.4	4.4	4.3	3.7	7.0	6.1	25	8.4	3.5	2.5	7.0
18	5.5	2.0	4.3	3.7	3.8	6.9	8.2	26	7.8	3.9	2.5	6.4
19	5.4	2.0	4.4	3.4	3.4	4.9	7.3	26	7.5	3.3	2.7	6.1
20	5.3	2.8	4.6	3.4	3.1	4.7	9.1	25	7.5	3.0	2.3	5.5
21	5.1	3.2	4.4	3.7	3.2	5.4	11	24	7.5	2.4	1.9	5.3
22	5.1	3.7	4.3	3.6	3.6	6.0	12	23	7.5	2.3	5.9	5.2
23	5.4	3.5	4.2	3.9	4.0	5.9	13	22	6.8	2.3	3.8	4.9
24	4.5	3.5	4.4	3.8	3.9	6.4	14	22	6.4	2.6	2.8	4.7
25	3.9	3.5	3.8	3.5	4.2	5.4	15	20	6.8	3.3	2.4	4.5
26	5.0	4.0	4.2	4.1	3.7	4.5	13	20	6.1	3.1	2.3	4.2
27	5.0	4.0	4.4	4.2	3.6	5.5	13	19	5.8	3.7	2.1	4.0
28	5.1	3.1	4.0	4.3	4.2	4.3	12	19	5.3	3.8	1.9	4.3
29	4.6	3.1	4.5	3.7	4.2	4.3	12	18	5.0	3.9	1.7	5.5
30	4.7	3.5	3.4	3.4	---	4.6	13	17	4.7	3.9	1.6	4.4
31	5.4	---	2.6	3.2	---	6.1	---	17	---	8.9	1.5	---
TOTAL	155.4	116.6	124.9	121.7	102.4	141.6	261.9	626	286.8	104.6	98.2	140.2
MEAN	5.01	3.89	4.03	3.93	3.53	4.57	8.73	20.2	9.56	3.37	3.17	4.67
MAX	6.3	5.4	5.5	4.5	4.4	7.0	15	26	16	8.9	8.9	11
MIN	3.9	2.0	2.1	3.2	2.2	2.3	4.2	15	4.7	2.1	1.5	1.3
AC-FT	308	231	248	241	203	281	519	1240	569	207	195	278

CAL YR 1975 TOTAL 10180.1 MEAN 27.9 MAX 230 MIN 1.5 AC-FT 20190
WTR YR 1976 TOTAL 2280.3 MEAN 6.23 MAX 26 MIN 1.3 AC-FT 4520

Peak discharge (base, 130 ft³/s).--No peak above base.

HUMBOLDT RIVER BASIN

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10328450 North Fork Little Humboldt River near Paradise Valley, Nev.

LOCATION.--Lat 41°29'30", long 117°07'30", in SW¼ sec.28, T.42 N., R.43 E., Humboldt County, on left bank 0.7 mi (1.1 km) upstream from concrete diversion dam, 7.5 mi (12.1 km) north-northeast of Chimney Dam, and 21 mi (34 km) east of Paradise Valley.

DRAINAGE AREA.--210 mi² (544 km²).

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 4,670 ft (1,420 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 179 ft³/s (5.07 m³/s) Feb. 29, gage height 3.06 ft (0.933 m); minimum, 0.40 ft³/s (0.011 m³/s) July 29, 30, 31.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	8.0	6.0	4.3	5.8	35	55	56	16	2.9	1.6	1.0
2	2.6	7.3	6.9	4.0	5.5	18	35	64	15	2.7	2.7	1.0
3	2.6	7.4	6.3	4.7	5.3	18	35	73	14	2.6	2.1	.99
4	2.6	7.4	6.2	5.5	5.2	16	41	78	13	2.4	1.6	.99
5	2.6	7.3	6.6	6.0	5.0	14	75	78	12	2.1	1.3	.99
6	2.7	6.8	7.1	5.6	5.5	14	79	83	11	1.8	1.3	.92
7	3.3	6.8	7.7	6.0	6.0	13	71	77	11	1.6	1.2	.99
8	3.2	6.8	8.3	6.2	7.1	13	91	74	10	1.4	1.1	1.0
9	3.1	6.6	8.4	6.2	8.0	16	74	77	10	1.2	.99	1.0
10	3.4	7.3	8.1	6.2	8.2	17	62	87	10	1.0	.99	1.1
11	4.2	5.4	8.0	6.1	6.8	57	64	86	14	.92	.92	3.2
12	4.0	4.1	8.0	5.7	6.8	20	59	79	14	.80	.92	3.8
13	3.8	5.2	7.1	5.5	7.5	19	52	71	11	.70	.86	3.4
14	3.7	6.2	6.1	5.5	14	16	45	66	9.1	.70	.92	2.7
15	3.5	6.0	5.4	5.5	12	19	44	66	8.2	.65	1.2	7.1
16	3.4	6.2	4.9	5.6	10	24	37	60	7.7	.70	1.4	7.3
17	3.4	5.8	4.8	5.6	9.0	47	38	52	7.3	8.0	2.1	5.4
18	3.4	3.2	4.9	5.5	8.4	91	37	47	7.1	2.2	1.8	5.0
19	3.4	4.8	5.2	5.2	8.4	45	34	43	6.7	1.3	1.8	4.3
20	3.4	4.8	5.5	4.6	8.8	23	34	38	6.1	1.2	1.6	3.8
21	3.7	4.6	5.6	4.6	8.0	24	41	35	5.6	1.1	1.6	3.5
22	4.5	4.5	5.7	4.9	8.0	26	49	32	5.3	.99	1.8	3.4
23	4.6	4.6	5.4	5.1	8.0	40	52	29	5.6	.86	2.1	3.2
24	3.8	4.7	5.5	5.1	8.0	31	50	28	5.4	.70	2.1	3.2
25	4.0	4.6	5.5	5.3	8.6	35	52	26	5.1	.65	2.3	2.9
26	5.2	4.5	5.7	5.5	9.1	33	52	24	4.7	.60	1.8	2.9
27	14	4.3	5.9	5.6	52	28	48	23	4.5	.54	1.4	2.8
28	19	4.2	6.0	5.8	40	25	44	21	4.4	.49	1.4	2.8
29	13	4.1	6.0	6.0	79	21	46	20	4.0	.44	1.3	2.7
30	10	4.7	5.5	6.0	---	20	50	19	3.4	.40	1.3	2.7
31	8.8	---	5.1	6.0	---	24	---	17	---	.49	1.1	---
TOTAL	155.5	168.2	193.4	169.4	374.0	842	1546	1629	261.2	44.13	46.60	86.08
MEAN	5.02	5.61	6.24	5.46	12.9	27.2	51.5	52.5	8.71	1.42	1.50	2.87
MAX	19	8.0	8.4	6.2	79	91	91	87	16	8.0	2.7	7.3
MIN	2.6	3.2	4.8	4.0	5.0	13	34	17	3.4	.40	.86	.92
AC-FT	308	334	384	336	742	1670	3070	3230	518	88	92	171

WTR YR 1976 TOTAL 5515.51 MEAN 15.1 MAX 91 MIN .40 AC-FT 10940

NOTE.--No gage-height record Oct. 1-21; Nov. 2-5; Nov. 20 to Feb. 11; Feb. 16; Apr. 25 to May 4.

HUMBOLDT RIVER BASIN

10328475 South Fork Little Humboldt River near Paradise Valley, Nev.

LOCATION.--Lat 41°27'00", long 117°06'00", in NE¼ sec.10, T.41 N., R.43 E., Humboldt County, on left bank 5.8 mi (9.3 km) northeast of Chimney Dam, and 23 mi (37 km) east of Paradise Valley.

DRAINAGE AREA.--431 mi² (1,116 km²).

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,420 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 56 ft³/s (1.59 m³/s) Mar. 1, gage height 2.47 ft (0.753 m); no flow many days during July to September.

REMARKS.--Records fair except those for periods of no gage-height record which are poor. Diversions for irrigation of 865 acres (3.50 km²), Little Humboldt Decree, above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.9	3.4	.50	2.9	42	24	23	4.8	1.2	0	0
2	1.4	3.6	4.4	.50	3.0	13	19	23	3.8	1.4	.38	0
3	1.4	3.5	3.1	.50	2.9	9.0	18	26	3.6	1.4	.59	0
4	1.5	3.5	2.8	.50	2.8	7.6	20	28	2.9	1.2	.33	.05
5	1.5	3.5	2.6	.50	2.8	6.6	29	30	2.7	1.2	.28	0
6	1.6	3.4	3.0	.50	3.0	6.2	33	33	2.4	1.0	.15	0
7	1.9	3.4	2.6	.50	3.2	6.0	24	31	2.5	.97	.05	0
8	1.8	3.3	2.5	.40	3.6	6.2	30	27	2.4	.97	.10	0
9	1.8	3.2	2.6	.40	4.1	7.1	27	28	2.5	.90	.10	0
10	1.8	3.1	2.6	.50	4.0	8.5	22	30	4.3	.51	.10	0
11	2.4	2.8	3.0	.70	3.4	16	21	29	6.9	.23	0	1.8
12	2.2	2.1	2.6	1.1	3.7	10	23	29	4.5	.24	0	3.2
13	2.1	2.7	3.0	1.5	4.0	8.4	21	22	3.2	.15	0	2.2
14	2.0	3.2	2.2	2.3	6.7	7.7	19	25	2.7	.10	0	1.8
15	1.9	3.6	1.5	2.9	5.8	8.4	19	24	2.4	.05	.15	4.5
16	1.9	3.5	1.0	3.1	5.0	14	16	22	2.0	0	.44	2.6
17	1.9	3.2	.80	3.1	4.4	21	17	20	1.8	0	.78	11
18	1.9	2.1	.80	3.0	4.0	22	18	19	1.6	.44	.59	5.3
19	1.9	2.4	.50	2.7	3.9	17	17	18	1.5	.51	.59	4.0
20	1.9	2.3	.50	2.5	3.9	11	16	17	1.3	.38	.44	3.4
21	2.0	2.2	.50	2.6	4.3	11	18	17	1.2	.33	.28	2.9
22	2.5	2.1	.70	2.7	4.6	12	19	16	2.9	.28	.33	2.7
23	2.6	2.2	.90	2.7	4.8	14	20	14	2.9	.15	.68	2.5
24	2.4	2.2	.80	2.8	4.5	15	20	13	2.5	0	.59	2.4
25	2.4	2.2	1.0	2.8	4.3	14	23	11	2.2	0	.51	2.2
26	2.9	2.1	.90	2.8	4.0	9.7	24	10	2.1	0	.33	2.2
27	7.0	2.0	.80	2.8	16	9.7	24	8.8	2.1	0	.28	2.2
28	8.4	2.0	.70	2.8	17	9.2	23	7.3	2.0	0	.20	2.2
29	6.0	1.9	.70	2.8	24	7.0	24	6.9	1.7	0	.10	2.1
30	4.8	2.2	.60	2.9	---	9.1	23	6.2	1.4	0	.05	2.0
31	4.4	---	.50	2.9	---	10	---	5.3	---	0	.05	---
TOTAL	81.6	83.4	53.60	58.30	160.6	368.4	651	619.5	80.8	13.61	8.47	86.65
MEAN	2.63	2.78	1.73	1.88	5.54	11.9	21.7	20.0	2.69	.44	.27	2.89
MAX	8.4	3.9	4.4	3.1	24	42	33	33	6.9	1.4	.78	26
MIN	1.4	1.9	.50	.40	2.8	6.0	16	5.3	1.2	0	0	0
AC-FT	162	165	106	116	319	731	1290	1230	160	27	17	172

WTR YR 1976 TOTAL 2265.93 MEAN 6.19 MAX 42 MIN 0 AC-FT. 4490

NOTE.--No gage-height record Oct. 1 to Nov. 19, Mar. 2-24.

HUMBOLDT RIVER BASIN

165

10328500 Little Humboldt River below Chimney Dam, near Paradise Valley, Nev.
(Formerly published as Little Humboldt River at Chimney Dam site, near Paradise Valley)

LOCATION.--Lat 41°23'25", long 117°11'00", in NW¼ sec.36, T.41 N., R.42 E., Humboldt County, on left bank 20 miles (32 km) east-southeast of Paradise Valley.

DRAINAGE AREA.--780 mi² (2,020 km²), approximately.

PERIOD OF RECORD.--October 1941 to September 1950, April 1975 to current year. Prior to April 1975, published as "at Chimney Dam site".

GAGE.--Water-stage recorder. Altitude of gage is 4,560 ft (1,390 m), from topographic map.

EXTREMES.--Maximum discharge, 104 ft³/s (2.94 m³/s) May 10, gage height, 3.30 ft (1.006 m); no flow Oct. 1 to Mar. 24, June 29 to Sept. 30.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm³). Diversions for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	25	61	99			
2						0	37	88	99			
3						0	39	88	99			
4						0	38	89	99			
5						0	59	95	98			
6						0	90	101	98			
7						0	90	103	99			
8						0	90	103	99			
9						0	90	102	51			
10						0	90	103	4.3			
11						0	90	103	4.3			
12						0	90	102	4.3			
13						0	90	101	4.3			
14						0	90	102	4.3			
15						0	90	102	4.3			
16						0	89	103	4.3			
17						0	89	102	4.3			
18						0	89	101	4.3			
19						0	89	100	4.3			
20						0	89	100	4.3			
21						0	89	100	4.3			
22						0	89	101	2.0			
23						0	70	100	.10			
24						0	35	100	.10			
25						8.0	35	100	.10			
26						17	35	101	.10			
27						18	35	101	.10			
28						17	35	100	.10			
29						18	35	101	0			
30					---	17	35	101	0			
31		---			---	16	---	100	---			---
TOTAL	0	0	0	0	0	111.0	2036	3054	895.20	0	0	0
MEAN	0	0	0	0	0	3.58	67.9	98.5	29.8	0	0	0
MAX	0	0	0	0	0	.18	90	103	99	0	0	0
MIN	0	0	0	0	0	0	25	61	0	0	0	0
AC-FT	0	0	0	0	0	220	4040	6060	1780	0	0	0
WTR YR 1976	TOTAL	6096.20	MEAN	16.7	MAX	103	MIN	0	AC-FT	12090		

HUMBOLDT RIVER BASIN

10329000 Little Humboldt River near Paradise Valley, Nev.

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¼SE¼ sec.20, T.41 N., R.41 E., Humboldt County, on right bank 3.5 mi (5.6 km) downstream from Bullshead Ranch and 9.5 mi (15.3 km) southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi² (2,670 km²), approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m), from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi (1.6 km) downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft (76 m) upstream at datum 2.21 ft (0.674 m) higher.

AVERAGE DISCHARGE.--38 years (1921-23, 1924-27, 1943-76), 25.3 ft³/s (0.716 m³/s), 18,330 acre-ft/yr (22.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 94 ft³/s (2.66 m³/s) May 9, 10, gage height, 2.66 ft (0.811 m); minimum daily, 6.6 ft³/s (0.187 m³/s) Oct. 6-9.

Period of record: Maximum discharge, 2,380 ft³/s (67.4 m³/s) Jan. 21, 1969, gage height, 8.40 ft (2.560 m); minimum, 0.46 ft³/s (0.013 m³/s) Aug. 25, 1973, probably result of temporary blockage upstream.

REMARKS.--Records good. Flow regulated by Chimney Dam (capacity, 35,000 acre-ft), 10 mi (16 km) upstream, since 1974. Diversions for irrigation of 4,450 acres (18.0 km²) Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.3	7.9	7.3	8.0	8.3	11	55	72	7.2	7.4	7.4
2	7.0	7.3	7.8	7.3	8.0	8.3	12	69	71	7.2	7.4	7.3
3	6.9	7.3	7.7	7.3	8.0	8.3	13	72	71	7.1	7.4	7.3
4	6.8	7.3	7.7	7.7	8.0	8.4	14	76	67	7.4	7.4	7.3
5	6.7	7.3	8.0	7.7	8.0	8.4	15	78	70	7.4	7.4	7.4
6	6.6	7.3	8.0	7.7	8.0	8.4	15	89	72	7.4	7.4	7.3
7	6.6	7.4	7.7	7.7	8.0	8.4	18	87	72	7.4	7.4	7.3
8	6.6	7.3	7.7	7.9	8.0	8.4	24	86	72	7.7	7.4	7.3
9	6.6	7.3	7.7	7.7	8.0	8.5	32	89	72	7.6	7.2	7.3
10	6.7	7.7	7.8	7.7	8.0	8.5	41	85	62	7.6	7.2	7.4
11	7.3	7.5	7.7	7.7	8.0	8.5	50	66	26	7.6	7.1	9.1
12	6.7	7.3	9.0	7.7	8.0	8.5	58	71	13	7.9	7.2	8.0
13	6.8	7.7	7.7	7.7	8.0	8.5	55	83	10	7.9	7.1	7.7
14	6.7	7.8	7.7	7.7	8.0	8.6	57	81	9.0	7.6	7.3	7.7
15	6.7	8.0	7.7	7.7	8.1	8.6	57	82	8.2	7.8	7.7	8.5
16	6.9	8.0	7.6	7.8	8.1	8.6	58	82	8.2	8.6	7.6	8.3
17	7.0	7.9	7.4	7.8	8.1	8.6	61	79	7.9	8.2	7.6	8.0
18	7.0	7.7	7.3	7.8	8.1	8.6	60	79	7.7	7.8	7.6	7.8
19	6.9	7.7	7.3	7.8	8.1	8.6	61	77	7.4	7.8	7.4	7.7
20	7.0	7.8	7.3	7.8	8.1	8.6	61	77	7.4	7.8	7.3	7.7
21	6.9	7.7	7.4	7.8	8.1	8.7	62	78	7.3	7.8	7.3	7.7
22	7.6	7.7	7.4	7.9	8.1	8.7	62	78	7.3	7.8	7.6	7.7
23	7.0	7.7	7.4	7.9	8.2	8.7	47	74	7.0	7.8	7.6	7.7
24	7.0	7.7	7.7	7.9	8.2	8.7	34	58	6.9	7.8	7.3	7.7
25	7.2	7.7	7.7	7.9	8.2	8.8	34	66	7.0	7.8	7.3	7.5
26	7.4	7.7	7.7	7.9	8.3	9.0	35	75	7.0	7.4	7.3	7.3
27	7.4	7.7	7.7	7.9	8.3	9.5	33	76	7.0	7.8	7.3	7.3
28	7.0	7.7	7.7	7.9	8.3	10	32	74	6.9	7.4	7.3	7.4
29	7.0	7.7	7.7	7.9	8.3	11	31	74	7.2	7.4	7.3	7.3
30	7.4	7.7	7.7	7.9	---	11	32	75	7.2	7.8	7.3	7.3
31	7.3	---	7.5	7.9	---	11	---	73	---	7.4	7.3	---
TOTAL	215.9	227.9	237.3	240.3	234.6	274.7	1175	2364	876.6	237.2	228.4	228.7
MEAN	6.96	7.60	7.65	7.75	8.09	8.86	39.2	76.3	29.2	7.65	7.37	7.62
MAX	7.6	8.0	8.0	7.9	8.3	11	62	89	72	8.6	7.7	9.1
MIN	6.6	7.3	7.3	7.3	8.0	8.3	11	55	6.9	7.1	7.1	7.3
AC-FT	428	452	471	477	465	545	2330	4690	1740	470	453	454

CAL YR 1975 TOTAL 8854.3 MEAN 24.3 MAX 139 MIN 5.5 AC-FT 17560
WTR YR 1976 TOTAL 6540.6 MEAN 17.9 MAX 89 MIN 6.6 AC-FT 12970

NOTE.--No gage-height record Jan. 14 to Apr. 6.

HUMBOLDT RIVER BASIN

167

10329500 Martin Creek near Paradise Valley, Nev.

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, on left bank 0.6 mi (1.0 km) upstream from Humboldt County Recreation Park and 7 mi (11 km) northeast of Paradise Valley.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft (122 m) of present site at different datums.

AVERAGE DISCHARGE.--55 years, 31.7 ft³/s (0.898 m³/s), 22,970 acre-ft/yr (28.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 150 ft³/s (4.25 m³/s) Mar. 17, gage height, 1.92 ft (0.585 m); minimum, 4.3 ft³/s (0.12 m³/s) July 28.

Period of record: Maximum discharge, 9,000 ft³/s (255 m³/s) Jan. 21, 1943, gage height, 11.1 ft (3.38 m) site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft³/s (0.051 m³/s) Feb. 6, 1945.

REMARKS.--Records good. Diversion for irrigation of 40 acres (162,000 m²), Little Humboldt Decree, above station.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	14	15	6.0	11	42	57	73	41	8.9	8.1	5.7
2	6.2	13	14	6.9	12	19	35	90	38	9.3	7.2	5.5
3	6.2	13	13	8.7	13	18	40	101	35	8.9	6.3	5.5
4	6.2	13	13	11	11	14	52	103	33	8.2	6.2	5.5
5	6.2	12	13	11	6.5	15	74	110	32	7.9	6.1	5.5
6	6.1	12	15	10	8.3	15	76	110	30	7.5	5.9	5.5
7	8.3	12	17	11	14	15	76	101	28	6.9	5.7	5.6
8	7.8	13	16	11	15	15	91	108	26	6.9	5.5	5.8
9	7.5	12	15	11	16	16	77	114	25	6.5	5.5	5.7
10	7.3	12	15	8.6	11	32	67	130	31	6.0	5.4	5.8
11	11	12	14	7.7	12	38	72	139	34	6.2	5.3	8.2
12	9.4	10	15	11	14	19	67	130	28	6.0	5.3	11
13	8.9	11	12	8.5	15	21	58	130	25	5.8	5.3	8.6
14	8.6	13	8.2	9.4	28	22	53	139	23	5.8	5.5	7.9
15	8.2	12	9.1	9.9	16	27	55	134	21	5.5	7.3	9.6
16	8.2	13	12	10	15	34	46	122	20	5.5	8.0	25
17	8.2	13	12	10	15	62	43	116	20	5.7	7.3	14
18	8.2	10	11	10	14	61	43	108	19	7.3	6.9	12
19	8.2	8.3	11	9.2	13	37	42	99	17	7.0	6.8	11
20	8.2	12	10	7.8	11	25	48	88	16	6.4	6.4	10
21	8.2	12	12	8.0	11	25	63	82	15	5.9	5.9	9.6
22	10	10	12	8.9	12	31	69	76	16	5.5	6.4	10
23	11	13	13	12	13	39	65	73	15	5.3	9.0	9.5
24	9.9	12	12	12	13	32	72	68	14	5.2	8.2	8.8
25	9.9	12	12	8.0	12	39	83	65	13	5.3	7.2	8.5
26	28	11	12	9.8	30	31	68	61	12	5.3	6.5	8.2
27	32	12	12	11	41	31	62	59	12	5.3	6.2	8.2
28	20	9.7	11	12	48	28	55	55	11	4.6	6.2	8.2
29	16	7.1	11	12	75	24	59	53	10	4.6	5.9	8.2
30	15	12	11	12	---	24	63	50	9.3	4.8	5.8	7.9
31	15	---	8.2	11	---	40	---	45	---	5.0	5.8	---
TOTAL	330.1	351.1	386.5	305.4	525.8	891	1831	2932	669.3	195.0	199.1	260.5
MEAN	10.6	11.7	12.5	9.85	18.1	28.7	61.0	94.6	22.3	6.29	6.42	8.68
MAX	32	14	17	12	75	62	91	139	41	9.3	9.0	25
MIN	6.1	7.1	8.2	6.0	6.5	14	35	45	9.3	4.6	5.3	5.5
AC-FT	655	696	767	606	1040	1770	3630	5820	1330	387	395	517

CAL YR 1975 TOTAL 17116.5 MEAN 46.9 MAX 311 MIN 5.7 AC-FT 33950
WTR YR 1976 TOTAL 8876.8 MEAN 24.3 MAX 139 MIN 4.6 AC-FT 17610

Peak discharge (base, 200 ft³/s).--No peak above base.

HUMBOLDT RIVER BASIN

10332500 Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Imlay, Nev.

LOCATION.--Lat 40°40'05", long 118°11'55", in SE¼NE¼ sec.1, T.32 N., R.33 E., Pershing County, on left bank 3 mi (5 km) northwest of Imlay and 9 mi (14 km) downstream from headgates.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,170 ft (1,271 m), from topographic map.

AVERAGE DISCHARGE.--30 years, 18.5 ft³/s (0.524 m³/s), 13,400 acre-ft/yr (16.5 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 260 ft³/s (7.36 m³/s) July 7, 1970; no flow much of the time, in most years.

REMARKS.--Records good except those for winter periods, which are fair. This canal diverts water during some years from Humboldt River in NW¼ sec.29, T.33 N., R.35 E., for storage in Pitt-Taylor Reservoirs near Humboldt, and is completely controlled at the headgate. During irrigation season, water is released to Rye Patch Reservoir (capacity, 157,200 acre-ft), from which it is later released and carried in natural river channel to Lovelock district for irrigation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	1.3	1.3	.20	.30	23	0	16	17		0	
2	4.9	1.3	1.3	0	.60	18	0	16	23		0	
3	4.7	1.3	1.7	0	.80	17	0	17	21		0	
4	4.3	1.3	1.9	.10	.72	17	0	17	22		0	
5	3.7	1.4	1.4	.20	.70	15	0	18	23		0	
6	3.7	1.6	1.2	.30	.72	14	0	19	25		0	
7	4.3	1.6	1.2	.30	.78	13	0	19	28		0	
8	2.4	1.6	1.0	.40	.82	12	0	20	28		0	
9	2.4	1.5	1.1	1.2	.78	11	0	21	27		0	
10	2.7	1.5	1.5	1.0	.76	10	0	22	28		0	
11	2.8	1.4	1.3	.90	.84	9.8	0	22	26		0	
12	2.5	1.5	1.0	1.0	.86	8.3	0	21	17		0	
13	2.4	1.6	.60	1.0	.91	7.8	0	22	17		0	
14	2.1	1.5	.40	1.0	.96	7.5	0	23	17		0	
15	2.1	1.4	.30	1.0	.97	5.8	0	19	14		0	
16	2.0	1.3	.20	.90	101	5.1	0	15	.50		0	
17	2.0	1.2	.10	.80	101	4.5	0	15	0		0	
18	1.9	1.1	.10	.80	103	4.1	0	15	0		0	
19	1.8	1.1	1.0	.80	107	3.4	0	16	0		0	
20	1.8	1.1	2.2	.60	105	2.8	0	15	0		0	
21	1.8	1.2	2.0	.20	108	2.4	0	15	0		0	
22	1.8	1.7	1.9	.20	110	2.1	0	15	0		.10	
23	1.8	1.4	1.8	.20	110	2.0	0	15	0		0	
24	1.7	1.3	1.6	.30	113	1.5	0	15	0		0	
25	1.8	1.9	1.1	.30	115	1.1	0	15	0		0	
26	1.8	2.0	1.0	.30	.88	.80	0	17	0		0	
27	1.9	1.6	1.0	.30	.28	.70	0	21	0		0	
28	1.5	1.3	.80	.30	.28	.30	0	21	0		0	
29	1.5	1.0	.90	.30	.25	.10	0	18	0		0	
30	1.4	1.1	.70	.30	---	0	.40	13	0		0	
31	1.3	---	.40	.30	---	0	---	13	---		0	---
TOTAL	77.5	42.1	34.00	15.50	2304.90	220.10	.40	546	333.50	0	.10	0
MEAN	2.50	1.40	1.10	.50	79.5	7.10	.013	17.6	11.1	0	.003	0
MAX	4.9	2.0	2.2	1.2	115	23	.40	23	28	0	.10	0
MIN	1.3	1.0	.10	0	.30	0	0	13	0	0	0	0
AC-FT	154	84	67	31	4570	437	.8	1080	661	0	.2	0
CAL YR 1975 TOTAL	24937.30			MEAN 68.3	MAX 226	MIN .10	AC-FT 49460					
WTR YR 1976 TOTAL	3574.10			MEAN 9.77	MAX 115	MIN 0	AC-FT 7090					

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¹/₄ sec.25, T.33 N., R.33 E., Pershing County, on right bank 1 mi (2 km) upstream from Callahan bridge and 4 mi (6 km) northwest of Imlay.

WATER-DISCHARGE RECORDS

Period of record: Maximum discharge, 6,080 ft³/s (172 m³/s) May 9, 1952, gage height, 12.15 ft (3.703 m); no flow at times in many years.

REVISED RECORDS.--WSP 1714: Drainage area.

CAL YR 1975	TOTAL	213413	MEAN	585	MAX	2550	MIN	39	AC-FT	423300
WTR YR 1976	TOTAL	67684	MEAN	185	MAX	504	MIN	20	AC-FT	134300

HUMBOLDT RIVER BASIN

10333000 Humboldt River near Imlay, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Specific conductance: October 1975 to September 1976.

Water temperatures: July 1949 to October 1952, February 1960 to current year (data prior to Jan. 1974, which were collected monthly or less frequently, are unpublished).

Sediment records: January 1974 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 846 micromhos Aug. 27; minimum, 589 micromhos Mar. 26.

Water temperature: Maximum, 23.0°C July 16; minimum, freezing point Nov. 20.

Suspended-sediment concentration: Maximum, 421 mg/l Mar. 26; minimum, 83 mg/l Sept. 23.

Period of record:

Water temperature (1962-67, 1969 to current year): Maximum, 25.5°C June 16, 1966; minimum, freezing point on several days during period of record.

REMARKS.--Extremes are based on monthly data.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.						
23...	0735	80	827	7.0	160	35
NOV.						
20...	1050	228	660	.0	94	58
DEC.						
31...	0730	240	650	.5	164	106
JAN.						
21...	1040	240	632	.5	92	60
FEB.						
20...	0820	178	--	2.0	186	89
MAR.						
26...	0905	393	589	6.0	421	447
APR.						
22...	0825	274	641	11.0	213	158
MAY						
18...	0920	135	734	16.0	134	49
JUNF						
18...	0840	341	--	18.0	404	372
JULY						
23...	0730	74	743	21.0	214	43
AUG.						
27...	0735	33	846	16.0	204	18
SEPT.						
23...	0910	30	800	14.5	83	6.7

HUMBOLDT RIVER BASIN

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10334500 Rye Patch Reservoir near Rye Patch, Nev.

LOCATION.--Lat 40°28'15", long 118°18'30", in NW¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi (3 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (4,170 km²), approximately.

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

GAGE.--Staff gage on dam read daily. Datum of gage is at mean sea level (Southern Pacific Railroad datum).

EXTREMES.--Current year: Maximum contents, 170,800 acre-ft (211 hm³) Mar. 7 to Apr. 3, elevation, 4,134.00 ft (1,260.043 m); minimum, 107,000 acre-ft (132 hm³) Sept. 28-30, elevation, 4,128.20 ft (1,258.275 m).

Period of record: Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, elevation, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft (240 hm³) between elevations 4,072.5 ft (1,241.30 m), sill of trashrack structure, and 4,136.0 ft (1,260.65 m), top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft (1,255.5 m). Figures given herein represent usable contents, and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

REVISED RECORDS.--WSP 1714: Drainage area.

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

4,128	105,300	4,132	144,200
4,129	113,900	4,133	157,200
4,130	123,200	4,134	170,800
4,131	133,200		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143100	130200	131200	142000	154600	164000	170800	162600	134300	132200	123200	119500
2	142000	130200	132200	143100	154600	165300	170800	162600	134300	132200	124200	118600
3	142000	130200	133200	143100	155900	165300	170800	161300	134300	132200	124200	118600
4	142000	129200	133200	143100	155900	166700	169400	159900	134300	130200	124200	117600
5	140900	129200	133200	143100	157200	168000	169400	158600	134300	128200	124200	116700
6	140900	129200	133200	143100	157200	169400	168000	158600	133200	128200	124200	115800
7	140900	129200	134300	143100	157200	170800	168000	157200	133200	127200	124200	114800
8	139800	129200	134300	144200	157200	170800	166700	157200	133200	126200	124200	113900
9	138700	129200	135400	144200	157200	170800	166700	157200	133200	125200	124200	113000
10	138700	128200	135400	144200	157200	170800	166700	157200	133200	124200	124200	112200
11	137600	128200	135400	145500	158600	170800	166700	157200	133200	123200	124200	111300
12	137600	128200	136500	145500	158600	170800	166700	155900	133200	123200	124200	111300
13	137600	128200	136500	145500	158600	170800	166700	155900	133200	123200	124200	111300
14	136500	129200	136500	145500	159900	170800	168000	154600	133200	122300	124200	110500
15	136500	129200	137600	146800	159900	170800	168000	154600	133200	122300	124200	110500
16	136500	129200	137600	146800	159900	170800	168000	153300	133200	121300	124200	110500
17	135400	129200	137600	148100	159900	170800	166700	152000	133200	121300	123200	109600
18	135400	130200	138700	148100	159900	170800	166700	150700	133200	121300	123200	109600
19	135400	130200	138700	149400	159900	170800	166700	149400	133200	121300	123200	109600
20	135400	130200	138700	149400	161300	170800	166700	148100	133200	121300	123200	109600
21	134300	130200	138700	149400	161300	170800	165300	146800	133200	120400	123200	109600
22	133200	130200	138700	150700	161300	170800	165300	145500	133200	120400	123200	109600
23	133200	131200	139800	150700	161300	170800	165300	144200	133200	120400	122300	108700
24	132200	131200	139800	150700	161300	170800	164000	143100	133200	120400	122300	108700
25	131200	131200	139800	150700	161300	170800	164000	142000	133200	120400	122300	108700
26	131200	131200	140900	152000	161300	170800	164000	140900	133200	120400	122300	107900
27	131200	131200	140900	152000	161300	170800	164000	139800	133200	120400	121300	107900
28	131200	131200	140900	152000	162600	170800	164000	138700	133200	121300	121300	107000
29	131200	131200	140900	152000	164000	170800	164000	137600	132200	122300	121300	107000
30	131200	131200	140900	153300	---	170800	162600	136500	132200	122300	120400	107000
31	130200	---	142000	153300	---	170800	---	135400	---	123200	119500	---
MAX	143100	131200	142000	153300	164000	170800	170800	162600	134300	132200	124200	119500
MIN	130200	128200	131200	142000	154600	164000	162600	135400	132200	120400	119500	107000
(†)	4130.70	4130.80	4131.80	4132.70	4133.50	4134.00	4133.40	4131.20	4130.90	4130.00	4129.60	4128.20
(‡)	-12900	+1000	+10800	+11300	+10700	+6800	-8200	-27200	-3200	-9000	-3700	-12500

CAL YR 1975 MAX 171900 MIN 95800 ‡ +46200

WTR YR 1976 MAX 170800 MIN 107000 ‡ -36100

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET

HUMBOLDT RIVER BASIN

10335000 Humboldt River near Rye Patch, Nev.
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, on left bank 1,000 ft (300 m) downstream from Rye Patch Dam and 1.5 mi (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (41,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana".

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft (1,240.088 m) above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi (11 km) downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--62 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-76), 206 ft³/s (5.834 m³/s), 149,200 acre-ft/yr (184 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 618 ft³/s (17.5 m³/s) July 7, 8, gage height, 3.51 ft (1.070 m); maximum gage height, 4.44 ft (1.353 m) Mar. 10 (backwater from temporary culverts); minimum daily discharge, 10 ft³/s (0.28 m³/s) Mar. 4, 5.
Period of record: Maximum discharge, 4,720 ft³/s (134 m³/s) May 11, 12, 1952, gage height, 10.26 ft (3.127 m); no flow at times in some years.

REMARKS.--Records good. Flow completely regulated by Rye Patch Reservoir, capacity 157,200 acre-ft/yr (194 hm³) since Feb. 20, 1936. Many diversions above station for irrigation: Humboldt Decree, 226,000 acres (915 km²); additional acreage not covered by decree.

REVISED RECORDS.--WSP 1714: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	173	36	38	13	12	438	434	359	478	50	282
2	196	172	36	39	13	12	439	466	336	503	41	307
3	216	173	36	38	13	11	439	503	307	550	70	337
4	240	152	36	39	13	10	439	552	276	569	21	348
5	316	129	36	39	13	10	438	547	250	568	12	308
6	370	129	36	39	12	11	353	498	223	577	21	261
7	358	128	37	38	12	13	301	430	211	606	73	236
8	326	118	37	38	11	17	333	412	193	594	97	263
9	326	86	37	39	11	54	309	396	193	523	120	289
10	323	109	37	41	11	223	243	395	182	472	147	315
11	277	134	38	41	11	321	250	392	177	427	168	281
12	244	144	38	38	11	392	264	391	196	401	204	213
13	242	135	39	37	11	390	300	434	183	394	233	202
14	243	117	39	37	11	393	317	513	146	341	264	249
15	243	73	39	37	11	392	326	513	122	326	277	260
16	242	37	39	37	11	390	324	481	101	291	276	217
17	204	37	39	37	11	388	303	509	117	241	276	148
18	174	36	41	38	12	425	304	528	162	197	255	99
19	211	36	41	39	12	480	304	527	249	183	254	89
20	256	36	41	39	12	472	304	485	316	164	289	103
21	255	36	41	38	12	468	305	446	416	148	316	157
22	285	36	41	39	11	505	331	452	454	148	292	182
23	317	37	39	49	11	546	391	486	417	148	243	190
24	289	37	39	51	14	547	388	560	429	147	224	230
25	235	37	39	49	13	518	316	575	483	107	202	262
26	234	37	39	48	13	559	282	579	497	78	162	242
27	234	36	39	27	12	574	283	569	480	77	161	215
28	201	36	39	14	12	479	282	505	479	77	190	178
29	174	36	39	13	12	417	375	447	479	77	230	130
30	174	36	39	13	---	396	433	388	478	89	268	175
31	173	---	38	13	---	438	---	358	---	94	268	---
TOTAL	7798	2518	1190	1122	345	9863	10114	14771	8911	9595	5704	6768
MEAN	252	83.9	38.4	36.2	11.9	318	337	476	297	310	184	226
MAX	370	173	41	51	14	574	439	579	497	606	316	348
MIN	173	36	36	13	11	10	243	358	101	77	12	89
AC-FT	15470	4990	2360	2230	684	19560	20060	29300	17670	19030	11310	13420
CAL YR 1975 TOTAL	163613				1690	MIN 13	AC-FT 324500					
WTR YR 1976 TOTAL	78699				606	MIN 10	AC-FT 156100					

10335000 Humboldt River near Rye Patch, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, May 1962 to current year.
 Water temperatures: July 1949 to September 1954, May to August 1955, April 1956 to September 1958, April 1960 to July 1961, May 1962 to current year. (Data prior to Dec. 1951, which were collected monthly or less frequently, are unpublished. Period of record for daily measurements is the same as that indicated above for chemical analyses; intervening temperature measurements, which were made monthly or less frequently, are unpublished.)
 Biological and sediment data: October 1974 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum daily, 1,230 micromhos Sept. 26; minimum daily, 714 micromhos June 17.
 Water temperature: Maximum daily, 19.0°C July 31 to Sept. 7; minimum daily, 4.0°C on several days in January.
 Suspended-sediment concentration: Maximum, 88 mg/l June 18; minimum, 19 mg/l Nov. 20.

Period of record:

Specific conductance: Maximum daily, 4,010 micromhos Sept. 2, 1954; minimum daily, 384 micromhos June 24, 1956.
 Water temperature: Maximum daily, 25.5°C Sept. 21, 1958; minimum daily, 0.5°C on many days during winter months of some years.
 Suspended-sediment concentration: Maximum, 88 mg/l June 18, 1976; minimum, 14 mg/l Dec. 13, 1974.

REMARKS.--Extremes for specific conductance and water temperature are based on daily data; extremes for sediment concentration are based on monthly data. Pesticide analyses by U.S. Environmental Protection Agency.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
23...	0920	318	28	41	15	110	17	323	--	63	62
NOV.											
20...	1200	36	--	--	--	--	--	--	--	--	--
DEC.											
31...	0855	38	--	--	--	--	--	--	--	--	--
JAN.											
22...	0920	39	29	43	15	110	16	308	10	51	67
FEB.											
20...	1010	12	--	--	--	--	--	--	--	--	--
MAR.											
26...	1105	546	--	--	--	--	--	--	--	--	--
APR.											
22...	1015	302	28	44	16	110	14	311	9	66	68
MAY											
18...	1035	528	--	--	--	--	--	--	--	--	--
JUNE											
18...	1000	127	--	--	--	--	--	--	--	--	--
JULY											
23...	0900	149	33	43	18	150	17	303	6	77	130
AUG.											
27...	1140	160	--	--	--	--	--	--	--	--	--
SEP.											
23...	1055	182	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
23...	--	.01	.01	.10	.02	1.1	1.1	1.2	.07	.04	4.6
NOV.											
20...	--	.01	.02	.03	--	.97	--	1.0	--	--	--
DEC.											
31...	--	.02	.02	.03	--	.92	--	.99	.07	--	--
JAN.											
22...	.8	.03	.01	.04	.03	.81	.93	.89	.05	.02	8.7
FEB.											
20...	--	.01	.01	.02	--	.75	--	.79	.07	--	--
MAR.											
26...	--	.04	.00	.04	--	.81	--	.89	.08	--	--
APR.											
22...	.7	.01	.00	.01	.00	.75	.86	.77	.06	.04	8.1
MAY											
18...	--	.00	.01	.01	--	.49	--	.51	.06	--	--
JUNE											
18...	--	.00	.00	.01	--	.52	--	.53	.17	--	--
JULY											
23...	.8	.03	.00	.01	.01	.13	.16	.17	.09	.03	--
AUG.											
27...	--	.01	.01	.00	--	.08	--	.10	.08	--	--
SEP.											
23...	--	.00	.01	.01	--	.40	--	.42	.06	--	--

HUMBOLDT RIVER BASIN

10335000 Humboldt River near Rye Patch, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 100 C) (MG/L)	DIS- SOLVED SOLIDS (SOLIM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	SUS- PENDED SOLI- DUE (MG/L)	SUS- PENDED SOLI- DUE (T/DAY)
OCT. 23...	490	495	421	160	3.7	787	--	12.5	10	0	4	29	24
NOV. 20...	--	--	--	--	--	809	8.6	6.5	10	0	3	19	1.8
DEC. 31...	--	--	--	--	--	816	8.9	2.5	15	0	2	20	2.1
JAN. 22...	511	494	53.8	170	3.7	812	9.3	2.5	15	0	6	24	2.5
FEB. 20...	--	--	--	--	--	829	8.8	3.5	15	0	35	26	84
MAR. 26...	--	--	--	--	--	818	8.2	5.5	16	0	47	47	69
APR. 22...	523	509	426	180	3.6	837	8.7	7.5	11	0	2	50	41
MAY 18...	--	--	--	--	--	832	8.8	14.0	10	0	32	40	57
JUNE 18...	--	--	--	--	--	836	8.7	16.5	10	7	23	88	30
JULY 23...	620	624	249	180	4.8	1010	8.5	19.0	15	0	3	68	27
AUG. 27...	--	--	--	--	--	1140	8.6	19.5	20	5	38	66	29
SEP. 23...	--	--	--	--	--	1170	8.6	17.5	10	0	9	33	16

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CORAL (CO) (UG/L)	DIS- SOLVED CORAL (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FF) (UG/L)
OCT. 23...	0920	38	33	10	0	30	0	<50	0	10	3	660
JAN. 22...	0920	32	32	<10	0	0	0	<50	0	10	4	730
APR. 22...	1015	31	30	<10	0	0	0	<50	0	20	3	740
JULY 23...	0900	45	40	<10	0	0	0	<50	0	10	1	870

DATE	DIS- SOLVED IRON (FF) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SIL- NIUM (SF) (UG/L)	DIS- SOLVED SIL- NIUM (SF) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 23...	10	100	1	20	0	.0	.0	1	1	10	0
JAN. 22...	10	<100	1	20	0	.0	.0	1	1	60	0
APR. 22...	20	<100	1	20	10	.0	.0	1	1	30	0
JULY 23...	20	<100	0	30	0	.0	.0	1	1	10	0

HUMBOLDT RIVER BASIN

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10335000 Humboldt River near Rye Patch, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLORO- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)
OCT. 23...	0920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN. 22...	0920	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 18...	1035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 27...	1140	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TIME	TOTAL DIF- AZINON (UG/L)	DIF- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DIF- EORIN (UG/L)	DIF- EORIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRI- N (UG/L)	ENDRI- N IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
OCT. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN. 22...	--	--	--	ND	--	ND	--	--	--	ND	--	ND
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 27...	ND	--	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	TIME	TOTAL HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHOXY- CHLOR (UG/L)	METHOXY- CHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)
OCT. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN. 22...	--	--	--	ND	--	--	--	ND	--	--	--	--	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 27...	--	--	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TIME	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOT- TOM MA- TERIAL (UG/L)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOT- TOM MA- TERIAL (UG/L)	TOTAL ATRA- ZINE (UG/L)	ATRA- ZINE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
OCT. 23...	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
JAN. 22...	--	--	--	ND	--	--	--	ND	ND	ND	ND	--	--	--	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 27...	ND	--	--	ND	--	ND	--	ND	ND	ND	ND	--	--	--	--

ND: NOT DETECTED

HUMBOLDT RIVER BASIN

10335000 Humboldt River near Rye Patch, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 23	0920	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	510	7	
		Occystaceae			
		<u>Nephrocytium</u>	510	7	
		Scenedesmaceae			
		<u>Tetrastrum</u>	180	3	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	2200	32	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	46	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	140	2	
Nov 20	1200	CYANOPHYTA			Sediment sampler
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Gomphosphaeria</u>	750	11	
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	2600	38	
		TOTAL	7000		
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	95	31	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	24	8	
		Diatomaceae			
		<u>Diatoma</u>	120	38	
		Naviculaceae			
		<u>Navicula</u>	24	8	
		Nitzschiaceae			
		<u>Nitzschia</u>	48	15	
		TOTAL	310		

10335000 Humboldt River near Rye Patch, Nev.--Continued

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

PHYTOPLANKTON					
Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Dec 31	0855	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	18	5	
		Occystaceae			
		<u>Ankistrodesmus</u>	6	2	
		Volvocales			
		Phacotaceae			
		<u>Phacotus</u>	62	16	
		Zygnematales			
		Desmidiaceae			
		<u>Closterium</u>	6	2	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	12	3	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	6	2	
		<u>Cocconeis</u>	6	2	
		Diatomaceae			
		<u>Diatoma</u>	49	13	
		Fragilariaceae			
		<u>Synedra</u>	6	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	25	6	
		Naviculaceae			
		<u>Navicula</u>	18	5	
		Nitzschaceae			
		<u>Nitzschia</u>	6	2	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	98	26	
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	62	16	
		TOTAL	380		
Jan 22	0920	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	210	63	
		<u>Oocystis</u>	45	13	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	11	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	11	3	
		Naviculaceae			
		<u>Navicula</u>	22	7	
		Nitzschaceae			
		<u>Nitzschia</u>	34	10	
		TOTAL	340		
Feb 20	1010	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Ankistrodesmus</u>	280	73	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Fragilariaceae			
		<u>Fragilaria</u>	50	13	
		Naviculaceae			
		<u>Navicula</u>	50	13	
		TOTAL	380		

HUMBOLDT RIVER BASIN

10335000 Humboldt River near Rye Patch, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Mar 26	1105	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Volvocales			
		Phacotaceae			
		<u>Phacotus</u>	4	50	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	4	50	
		TOTAL	8		
Apr 22	1015	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	10	6	
		Volvocales			
		Phacotaceae			
		<u>Phacotus</u>	7	4	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	3	2	
		<u>Melosira</u>	3	2	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	7	4	
		Cymbellaceae			
		<u>Cymbella</u>	3	2	
		<u>Rhopalodia</u>	3	2	
		Fragilariaceae			
		<u>Synedra</u>	3	2	
		Naviculaceae			
		<u>Navicula</u>	3	2	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	16	10	
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	99	62	
		TOTAL	160		

HUMBOLDT RIVER BASIN

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10335000 Humboldt River near Rye Patch, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
May 18	1035	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	90	11	
		Occystaceae			
		<u>Oocystis</u>	290	35	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	340	41	
		Pennales			
		Cymbellaceae			
		<u>Cymbella</u>	18	2	
		<u>Epithemia</u>	18	2	
		<u>Rhopalodia</u>	18	2	
		Nitzschiaceae			
		<u>Nitzschia</u>	54	7	
		TOTAL	830		
Jun 18	1000	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		<u>Schroederia</u>	100	12	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	51	6	
		<u>Melosira</u>	410	50	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	51	6	
		Cymbellaceae			
		<u>Rhopalodia</u>	17	2	
		Fragilariaceae			
		<u>Fragilaria</u>	17	2	
		Nitzschiaceae			
		<u>Nitzschia</u>	17	2	
		Surirellaceae			
		<u>Surirella</u>	17	2	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	140	17	
		TOTAL	820		

HUMBOLDT RIVER BASIN

10335000 Humboldt River near Rye Patch, Nev.--Continued

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

PHYTOPLANKTON												
Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method							
Jul 23	0900	CHLOROPHYTA			Sediment sampler							
		Chlorophyceae										
		Chlorococcales										
		Occystaceae										
		<u>Dictyosphaerium</u>	19	8								
		Volvocales										
		Phacotaceae										
		<u>Phacotus</u>	130	60								
		CHRYSOPHYTA										
		Bacillariophyceae										
		Centrales										
		Coscinodiscaceae										
		<u>Melosira</u>	35	15								
		CYANOPHYTA										
		Myxophyceae										
		Oscillatoriales										
		Oscillatoriaceae										
		<u>Oscillatoria</u>	37	16								
		TOTAL	230									
Aug 27	1140	CHLOROPHYTA			Sediment sampler							
		Chlorophyceae										
		Chlorococcales										
		Characiaceae										
		<u>Schroederia</u>	27	3								
		Scenedesmaceae										
		<u>Crucigenia</u>	430	46								
		Volvocales										
		Phacotaceae										
		<u>Phacotus</u>	290	31								
		CHRYSOPHYTA										
		Bacillariophyceae										
		Centrales										
		Coscinodiscaceae										
		<u>Melosira</u>	110	11								
		Pennales										
		Achnanthaceae										
		<u>Cocconeis</u>	27	3								
		Gomphonemataceae										
		<u>Gomphonema</u>	53	6								
		TOTAL	930									
		Sep 23	1055	CHLOROPHYTA						Sediment sampler		
				Chlorophyceae								
Chlorococcales												
Characiaceae												
<u>Schroederia</u>	34			3								
Occystaceae												
<u>Nephrocytium</u>	68			5								
<u>Quadrigula</u>	68			5								
Scenedesmaceae												
<u>Crucigenia</u>	820			61								
CHRYSOPHYTA												
Bacillariophyceae												
Centrales												
Coscinodiscaceae												
<u>Cyclotella</u>	17			1								
<u>Melosira</u>	190			14								
Pennales												
Achnanthaceae												
<u>Achnanthes</u>	17			1								
Cymbellaceae												
<u>Epithemia</u>	17			1								
Diatomaceae												
<u>Diatoma</u>	17			1								
Naviculaceae												
<u>Navicula</u>	51			4								
Nitzschiaceae												
<u>Nitzschia</u>	34			3								
EUGLENOPHYTA												
Cryptophyceae												
Cryptomonadales												
Cryptochrysidaceae												
<u>Chroomonas</u>	17			1								
TOTAL	1300											
PERIPHYTON												
Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method					
		Dry weight	Ash weight									
Nov 20	28	38	24	51	2.8	290	Polyethylene strip					
Feb 20	29	18	16	5.1	0.5	330	Polyethylene strip					
Aug 27	35	29.0	25.8	18.0	4.26	180	Polyethylene strip					

HUMBOLDT RIVER BASIN

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10335000 Humboldt River near Rye Patch, Nev.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	808	824	825	830	845	837	825	830	784	951	1000	1160
2	795	802	825	833	826	824	832	840	746	951	955	1160
3	792	805	822	833	822	830	835	833	741	951	1010	1190
4	792	805	807	833	816	814	835	843	733	930	977	1190
5	795	805	819	830	819	833	832	840	738	947	955	1190
6	795	820	810	820	832	875	835	824	730	951	998	1200
7	792	805	813	808	822	820	832	833	730	968	1030	1210
8	798	798	861	811	819	826	835	840	763	977	1030	1210
9	792	805	868	817	816	830	835	837	735	926	956	1220
10	792	798	822	814	819	824	832	833	725	982	977	1220
11	792	802	825	824	822	830	897	840	735	991	1050	1200
12	792	805	816	830	816	817	839	824	727	982	1050	1210
13	795	805	813	808	819	814	842	820	717	1000	1050	1210
14	792	802	813	824	819	827	839	840	717	1010	1070	1220
15	792	802	807	811	822	820	839	840	746	1000	1050	1220
16	792	817	819	820	819	814	842	840	741	1010	1090	1220
17	792	811	838	820	819	824	835	830	714	1010	1090	1210
18	792	811	828	814	819	824	842	837	733	1010	1090	1210
19	798	824	828	814	816	827	835	840	741	1010	1090	1210
20	795	808	831	817	826	830	839	840	741	1020	1090	1190
21	798	805	828	820	816	827	839	830	746	1010	1090	1210
22	789	808	828	827	816	827	835	837	760	1010	1120	1220
23	789	811	828	820	816	833	839	840	775	1010	1120	1190
24	798	808	819	811	822	827	839	837	794	1030	1120	1210
25	792	811	816	814	819	830	839	843	816	1020	1130	1220
26	795	820	825	808	819	833	839	833	840	1030	1120	1230
27	792	817	822	830	819	827	849	837	862	1030	1130	1220
28	798	808	819	827	826	837	842	837	870	1020	1140	1200
29	795	808	825	820	822	824	839	840	870	1040	1160	1190
30	789	808	825	814	---	824	835	840	877	1040	1170	1190
31	792	---	---	820	---	820	---	843	---	1050	1170	---
MONTH	794	799	824	820	821	827	839	836	765	996	1070	1200
YEAR	MAX	1230	MIN	714	MEAN	883						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	11.0	6.0	4.5	4.5	5.0	5.5	9.5	15.0	16.5	19.0	19.0
2	17.0	11.0	6.0	4.5	4.5	5.0	5.5	9.5	15.0	16.5	19.0	19.0
3	17.0	11.0	5.5	4.5	4.5	5.0	5.5	10.0	15.0	16.5	19.0	19.0
4	17.0	11.0	5.5	4.5	4.5	5.0	6.0	10.0	15.0	16.5	19.0	19.0
5	17.0	11.0	5.5	4.5	4.5	5.0	6.0	10.0	15.5	17.0	19.0	19.0
6	17.0	11.0	5.5	4.5	4.5	5.0	6.0	10.5	15.5	17.0	19.0	19.0
7	17.0	10.5	5.5	4.5	4.5	5.0	6.0	10.5	15.5	17.0	19.0	19.0
8	17.0	10.5	5.5	4.5	4.5	5.0	6.5	11.0	15.5	17.0	19.0	18.5
9	16.5	10.5	5.5	4.5	4.5	5.0	6.5	11.0	15.5	17.0	19.0	18.5
10	16.5	10.5	5.0	4.5	4.5	5.0	6.5	11.0	15.5	17.0	19.0	18.5
11	16.5	10.0	5.0	4.5	4.5	5.0	7.0	11.5	16.0	17.5	19.0	18.5
12	16.0	10.0	5.0	4.5	4.5	5.0	7.0	11.5	16.0	17.5	19.0	18.0
13	16.0	10.0	5.0	4.5	4.5	5.0	7.0	11.5	16.0	17.5	19.0	18.0
14	15.5	9.5	5.0	4.5	4.5	5.0	7.0	12.0	16.0	17.5	19.0	17.5
15	15.5	9.5	5.0	4.5	4.5	5.0	7.0	12.0	16.0	17.5	19.0	17.5
16	15.0	9.5	5.0	4.5	5.0	5.0	7.0	12.0	16.0	17.5	19.0	17.5
17	15.0	9.0	4.5	4.5	5.0	5.0	7.0	12.0	16.0	17.5	19.0	17.0
18	14.5	9.0	4.5	4.0	5.0	5.0	7.0	12.5	16.0	18.0	19.0	17.0
19	14.5	8.5	4.5	4.0	5.0	5.0	7.5	12.5	16.0	18.0	19.0	17.0
20	14.5	8.5	4.5	4.0	5.0	5.0	7.5	13.0	16.5	18.0	19.0	17.0
21	14.0	7.0	4.5	4.0	5.0	5.0	7.5	13.0	16.5	18.0	19.0	17.0
22	14.0	7.0	4.5	4.0	5.0	5.0	8.0	13.0	16.5	18.0	19.0	17.0
23	13.5	7.0	4.5	4.0	5.0	5.0	8.0	13.5	16.5	18.0	19.0	17.0
24	13.5	6.5	4.5	4.0	5.0	5.0	8.0	13.5	16.5	18.0	19.0	16.5
25	13.0	6.5	4.5	4.0	5.0	5.5	8.5	13.5	17.0	18.5	19.0	16.5
26	13.5	6.5	4.5	4.0	5.0	5.5	8.5	14.0	17.0	18.5	19.0	16.5
27	12.0	6.5	4.5	4.0	5.0	5.5	8.5	14.0	17.0	18.5	19.0	16.5
28	11.5	6.0	4.5	4.0	5.0	5.5	9.0	14.0	17.0	18.5	19.0	16.5
29	11.5	6.0	4.5	4.5	5.0	5.5	9.0	14.5	17.0	18.5	19.0	16.5
30	11.0	6.0	4.5	4.5	---	5.5	9.5	14.5	17.0	19.0	19.0	16.5
31	11.0	---	---	4.5	---	5.5	---	14.5	---	---	19.0	---
MONTH	15.0	9.0	5.0	4.5	4.5	5.0	7.0	12.0	16.0	17.5	19.0	17.5
YEAR	MAX	19.0	MIN	4.0	MEAN	11.0						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336500 Pyramid Lake near Nixon, Nev.

LOCATION.--Lat 39°59'05", long 119°30'00", in NE¼NW¼ sec.3, T.24 N., R.22 E., Washoe County, 0.25 mi (0.40 km) north of the Pyramid, 1.6 mi (2.6 km) northeast of Anaho Island, and 13 mi (21 km) northwest of Nixon.

DRAINAGE AREA.--2,720 mi² (7,040 km²).

PERIOD OF RECORD.--1867-1925 (occasional elevations in some years), June 1926 to current year (occasional elevations in each year).

GAGE.--Nonrecording gage. Datum of gage is at mean sea level, U.S. Coast & Geodetic Survey Bench Mark N-21, elevation, 3,940.29 ft (1,201.000 m) datum of 1929, supplementary adjustment of 1956. Prior to January 1934, elevations were determined from Bench Mark No. 1 of General Land Office using elevation of 3,882.26 ft (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevation of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

EXTREMES.--Period of record: Maximum elevation observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WRD 1967 Nev.: 1966.

MONTH-END ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept. 30	3,797.3	21,420,000	--
Oct. 31	3,797.2	21,410,000	-10,000
Nov. 30	3,797.0	21,390,000	-20,000
Dec. 31	3,797.1	21,400,000	+10,000
CAL YR 1975	--	--	+200,000
Jan. 31	3,797.1	21,400,000	0
Feb. 29	3,797.3	21,420,000	+20,000
Mar. 31	3,797.5	21,440,000	+20,000
Apr. 30	3,797.5	21,440,000	0
May 31	3,797.4	21,430,000	-10,000
June 30	3,797.4	21,430,000	0
July 31	3,797.5	21,440,000	+10,000
Aug. 31	3,796.9	21,380,000	-60,000
Sept. 30	3,796.5	21,340,000	-40,000
WTR YR 1975-76	--	--	-80,000

NOTE.--Month-end elevations are interpolated from readings made during the month.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336600 Upper Truckee River near Meyers, Calif.

LOCATION.--Lat 38°50'35", long 120°01'25", in NE¼SE¼ sec.31, T.12 N., R.18 E., El Dorado County, on left bank 0.4 mi (0.6 km) upstream from mouth of Echo Lake outlet, 1.1 mi (1.8 km) southwest of Meyers, and 2.5 mi (4.0 km) upstream from Angora Creek.

DRAINAGE AREA.--33.1 mi² (85.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,325 ft (1,928 m), from topographic map.

AVERAGE DISCHARGE.--16 years, 65.2 ft³/s (1,846 m³/s), 47,240 acre-ft/yr (58.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 425 ft³/s (12.0 m³/s) Oct. 26, gage height, 7.37 ft (2.246 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Sept. 2, 3.
Period of record: Maximum discharge, 2,550 ft³/s (72.2 m³/s) Feb. 1, 1963, gage height, 12.41 ft (3.783 m); minimum, 2.0 ft³/s (0.057 m³/s) Jan. 13, 1961.

REMARKS.--Records good except those for the winter period and period of no gage height record, which are fair. No regulation. Some small diversions above station for domestic use.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	36	18	15	12	16	28	132	50	8.8	5.0	2.9
2	5.8	37	20	15	12	16	30	134	47	8.7	4.5	2.8
3	5.8	38	20	15	12	16	36	137	43	9.3	3.8	2.8
4	5.6	37	20	15	12	16	37	156	40	7.4	3.8	2.9
5	5.4	36	20	15	12	16	35	146	37	6.9	3.8	3.0
6	8.3	33	19	15	12	16	39	119	35	6.8	3.6	3.2
7	18	75	19	13	12	15	43	105	34	7.4	3.6	3.1
8	9.7	74	18	13	12	15	50	131	32	6.3	3.6	3.0
9	8.8	41	18	13	12	15	40	137	32	5.8	3.6	3.1
10	16	33	18	13	12	14	39	137	32	5.4	3.6	3.3
11	25	30	17	13	12	15	39	158	32	5.2	3.5	5.4
12	20	31	17	13	12	14	35	170	29	5.0	3.5	5.0
13	17	30	17	13	12	15	33	193	28	4.8	3.3	4.0
14	17	30	15	13	12	15	32	207	26	4.8	4.9	3.8
15	19	29	14	13	12	16	33	167	24	4.7	28	3.5
16	20	57	14	13	12	19	29	157	24	4.8	15	3.9
17	21	45	14	13	12	25	28	147	22	4.8	9.8	4.0
18	19	33	14	14	12	28	30	124	21	4.6	7.8	3.9
19	16	30	14	14	12	23	35	107	20	4.4	7.3	4.0
20	15	27	14	14	12	22	54	94	18	4.2	6.5	3.9
21	14	26	14	13	12	22	67	92	17	4.1	5.2	4.6
22	22	24	14	13	12	26	76	91	16	4.0	5.2	4.3
23	18	22	14	13	12	28	84	83	15	4.4	6.1	3.8
24	15	22	14	13	12	29	96	78	14	4.6	5.0	3.7
25	15	21	15	12	12	27	97	78	12	4.0	4.9	3.8
26	202	21	15	12	12	24	75	74	12	3.8	4.0	3.4
27	92	21	15	12	13	23	63	75	11	3.7	3.8	3.7
28	54	21	15	12	14	23	61	68	9.9	3.7	3.5	3.9
29	43	21	15	12	16	24	72	58	9.3	3.6	3.4	4.1
30	40	20	15	12	---	26	100	55	9.1	3.6	3.3	4.7
31	35	---	15	12	---	31	---	54	---	3.8	3.3	---
TOTAL	828.4	1001	501	411	355	630	1516	3664	751.3	163.4	176.2	111.5
MEAN	26.7	33.4	16.2	13.3	12.2	20.3	50.5	118	25.0	5.27	5.68	3.72
MAX	202	75	20	15	16	31	100	207	50	9.3	28	5.4
MTN	5.4	20	14	12	12	14	28	54	9.1	3.6	3.3	2.8
AC-FT	1640	1990	994	815	704	1250	3010	7270	1490	324	349	221
CAL YR 1975	TOTAL	26723.4	MEAN	73.2	MAX	558	MTN	5.4	AC-FT	53010		
WTR YR 1976	TOTAL	10108.8	MEAN	27.6	MAX	207	MTN	2.8	AC-FT	20050		

Peak discharge (base, 200 ft³/s)
Date Time G.H. Discharge Date Time G.H. Discharge
10-26 1615 7.37 425 5-13 2230 6.63 301
5-4 2230 5.95 204

NOTE.--No gage height record July 8 to Aug. 9.

LOCATION.--Lat 38°54'00", long 120°04'14", in NE¼SW¼ sec.11, T.12 N., R.17 E., El Dorado County, Eldorado National Forest, on left bank near center of lake, 200 ft (61 m) north of Cathedral Creek, 1.5 mi (2.4 km) south of Fallen Leaf Dam, 2.9 mi (4.7 km) southwest of Camp Richardson, and 3.7 mi (6.0 km) west of South Lake Tahoe Post Office.

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

EXTREMES.--Current year: Maximum gage height, 4.07 ft (1.241 m) May 13, 14; minimum, 2.18 ft (0.664 m) Feb. 3.
Period of record: Maximum gage height, 5.51 ft (1.679 m) Jan. 22, 1970; minimum, 1.84 ft (0.561 m) Nov. 10, 1971.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

CAL YR 1975	Max 4.39	Min 2.08
WTR YR 1976	Max 4.07	Min 2.18

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336626 Taylor Creek near Camp Richardson, Calif.

LOCATION.--Lat 38°55'18", long 120°03'37" (revised), in NE¼NW¼ sec.2, T.12 N., R.17 E., El Dorado County, Eldorado National Forest, on left bank 0.1 mi (0.2 km) downstream from Fallen Leaf Lake outlet, and 1.4 mi (2.3 km) southwest of Camp Richardson

DRAINAGE AREA.--16.7 mi² (43.3 km²).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft (1,938.857 m) above mean sea level.

AVERAGE DISCHARGE (unadjusted).--8 years, 47.2 ft³/s (1.337 m³/s), 34,200 acre-ft/yr (42.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 151 ft³/s (4.28 m³/s) Oct. 27, gage height, 4.22 ft (1.286 m); minimum daily, 1.5 ft /s (0.042 m³/s) June 29, 30.

Period of record: Maximum discharge, 1,180 ft³/s (33.4 m³/s) Nov. 12, 1973, gage height 5.72 ft (1.743 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 4-7, 1970.

REMARKS.--Records good. Flow regulated by Fallen Leaf Lake Dam (see sta.10336625).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	63	20	9.0	8.0	8.9	1.8	41	25	2.1	3.0	3.8
2	12	56	19	8.9	7.9	8.9	3.0	44	17	3.2	4.2	4.1
3	12	50	19	8.8	8.6	8.9	3.8	53	20	3.0	3.8	3.6
4	11	46	19	8.2	8.9	8.6	3.8	61	15	3.1	3.8	3.1
5	10	42	18	9.3	8.2	8.6	3.9	74	11	3.0	3.6	3.3
6	13	38	17	9.1	8.1	8.6	4.0	99	11	3.0	3.9	3.6
7	16	39	17	8.9	8.0	8.6	4.0	94	9.5	3.1	3.8	3.4
8	15	44	16	10	8.2	8.6	4.2	89	5.7	2.9	3.8	3.6
9	15	47	16	10	9.0	8.4	4.3	83	5.5	2.9	3.8	3.5
10	30	51	15	10	9.8	8.1	4.6	86	5.6	2.9	3.9	3.8
11	49	43	15	10	9.6	5.4	5.0	91	5.6	3.0	4.0	4.1
12	44	37	16	10	9.4	3.6	5.3	96	5.5	3.0	3.8	4.1
13	39	45	16	9.4	9.5	3.5	5.9	117	5.3	3.0	3.8	3.9
14	34	42	14	9.6	11	3.1	6.9	137	5.4	3.1	3.8	4.0
15	31	39	14	9.5	11	3.0	9.0	141	6.1	3.0	4.0	7.2
16	28	42	14	9.2	11	3.0	9.4	129	6.0	2.7	3.9	14
17	27	45	13	9.0	11	3.0	10	124	5.9	2.7	4.1	11
18	25	42	13	8.5	11	3.2	11	108	4.3	3.0	4.3	11
19	24	39	13	8.4	12	3.2	12	93	2.2	3.2	4.3	10
20	23	37	12	8.2	12	3.3	13	87	3.1	3.4	4.4	10
21	23	33	12	8.2	11	2.9	16	64	3.2	3.4	4.5	10
22	35	31	12	8.2	11	2.3	19	52	3.2	3.2	4.6	10
23	39	29	12	8.2	11	2.2	22	51	2.4	2.8	4.7	10
24	35	27	12	8.4	10	2.2	25	33	2.3	2.6	4.3	10
25	34	26	12	8.3	7.9	2.1	29	23	1.8	2.9	3.9	10
26	83	25	11	8.0	7.8	2.1	32	25	1.7	2.9	3.9	11
27	146	23	11	8.0	8.1	2.1	33	32	1.9	2.9	3.8	11
28	122	23	11	8.0	8.0	2.1	34	43	1.7	2.2	4.1	11
29	102	22	11	7.7	8.5	2.1	34	36	1.5	2.0	5.1	11
30	86	21	12	7.7	---	2.0	37	33	1.5	2.1	4.2	11
31	74	---	9.6	8.0	---	1.7	---	32	---	2.1	3.9	---
TOTAL	1250	1147	441.6	272.7	275.5	144.3	405.9	2271	195.9	88.4	125.0	220.1
MEAN	40.3	38.2	14.2	8.80	9.50	4.65	13.5	73.3	6.53	2.85	4.03	7.34
MAX	146	63	20	10	12	8.9	37	141	25	3.4	5.1	14
MIN	10	21	9.6	7.7	7.8	1.7	1.8	23	1.5	2.0	3.0	3.1
AC-FT	2480	2280	876	541	546	286	805	4500	389	175	248	437
CAL YR 1975	TOTAL	16601.5	MEAN 45.5	MAX 292	MIN 4.0	AC-FT 32930						
WTR YR 1976	TOTAL	6837.4	MEAN 18.7	MAX 146	MIN 1.5	AC-FT 13560						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 Blackwood Creek near Tahoe City, Calif.

LOCATION.--Lat 39°06'27", long 120°09'40", in NE¼NW¼ sec.36, T.15 N., R.16 E., Placer County, on right bank 300 ft (91 m) upstream from bridge on State Highway 89, 1,000 ft (305 m) upstream from Lake Tahoe, and 4.6 mi (7.4 km) south of Tahoe City.

DRAINAGE AREA.--11.2 mi² (29.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Oct. 1, 1964, to Aug. 27, 1970, at site 400 ft (122 m) downstream at datum 12 ft (3.658 m) lower. Prior to Oct. 1, 1964, at site 400 ft (122 m) downstream at datum 10.25 ft (3.124 m) lower.

AVERAGE DISCHARGE.--16 years, 37.4 ft³/s (1.059 m³/s), 27,100 acre-ft (33.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 274 ft³/s (7.76 m³/s) Oct. 26, gage height, 2.28 ft (0.695 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Aug. 13, Sept. 4, 5, 7-9.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 22 or 24, 1964, from indirect measurement of peak flow; maximum gage height, 9.90 ft (3.018 m) Dec. 22, 1964; minimum discharge, 0.30 ft³/s (0.008 m³/s) Sept. 19, 1968.

REMARKS.--Records good except those for the winter months, which are fair. No known diversion or regulation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	19	13	7.6	6.5	10	19	73	27	5.3	3.3	2.4
2	2.7	18	12	7.6	6.4	9.5	20	72	25	5.2	2.8	2.3
3	2.7	17	12	7.6	6.2	9.4	22	76	23	5.1	2.5	2.3
4	2.7	17	12	7.6	6.0	9.5	24	79	21	4.9	2.5	2.2
5	2.7	16	12	7.6	6.0	9.5	24	73	20	4.4	2.5	2.2
6	5.4	15	12	7.3	6.1	9.6	22	64	19	4.3	2.4	2.3
7	7.2	34	11	7.0	6.4	9.7	23	75	18	4.2	2.4	2.2
8	4.1	31	11	6.9	6.4	10	26	85	17	4.0	2.4	2.2
9	3.7	22	11	6.9	6.4	10	23	81	18	3.7	2.4	2.2
10	9.7	19	11	6.9	6.2	11	23	81	17	3.6	2.4	2.3
11	12	19	10	6.9	6.1	11	22	85	17	3.4	2.3	3.0
12	8.2	18	10	6.9	6.2	11	21	84	16	3.3	2.3	2.5
13	7.2	18	9.3	6.9	6.3	11	20	92	15	3.2	2.2	2.4
14	7.2	18	9.0	6.9	6.4	12	20	96	14	3.1	3.2	2.4
15	8.5	18	9.0	6.9	6.4	12	20	79	13	3.1	17	2.4
16	8.8	45	9.0	6.9	6.7	14	19	76	12	3.2	7.1	2.4
17	9.1	28	9.0	7.0	6.7	18	19	72	11	3.2	4.7	2.4
18	8.7	20	9.0	7.0	6.7	19	20	64	11	3.0	4.7	2.4
19	8.1	19	9.0	7.1	6.7	18	25	56	10	2.9	4.6	2.4
20	7.9	18	9.0	7.0	6.7	17	34	51	9.8	2.7	4.1	2.4
21	7.4	17	8.9	6.8	6.7	17	40	48	9.5	2.7	3.6	2.4
22	13	16	8.9	6.8	6.7	19	46	46	9.0	2.6	3.6	2.4
23	9.3	15	8.6	6.8	6.7	20	50	45	8.3	2.9	3.6	2.3
24	7.7	15	8.6	6.8	7.0	21	57	42	7.8	3.0	3.2	2.3
25	7.5	15	8.6	6.7	7.0	18	58	40	7.2	2.7	3.0	2.3
26	137	14	8.3	6.6	7.0	17	49	38	6.6	2.5	2.9	2.3
27	46	14	8.2	6.6	7.2	17	43	38	6.3	2.5	2.8	2.3
28	27	13	8.4	6.5	9.1	16	43	35	5.9	2.5	2.8	2.3
29	21	12	8.7	6.4	12	17	49	31	5.7	2.4	2.5	2.3
30	21	13	8.4	6.5	---	19	60	29	5.4	2.4	2.5	2.3
31	19	---	7.6	6.4	---	20	---	28	---	2.4	2.4	---
TOTAL	445.3	573	302.5	215.4	196.9	442.2	941	1934	405.5	104.4	110.7	70.5
MEAN	14.4	19.1	9.76	6.95	6.79	14.3	31.4	62.4	13.5	3.37	3.57	2.35
MAX	137	45	13	7.6	12	21	60	96	27	5.3	17	3.0
MIN	2.7	12	7.6	6.4	6.0	9.4	19	28	5.4	2.4	2.2	2.2
AC-FT	883	1140	600	427	391	877	1870	3840	804	207	220	140

CAL YR 1975 TOTAL 14462.9 MEAN 39.6 MAX 336 MIN 2.7 AC-FT 28690
WTR YR 1976 TOTAL 5741.4 MEAN 15.7 MAX 137 MIN 2.2 AC-FT 11390

Peak discharge (base, 200 ft³/s).--Oct. 26 (1300) 274 ft³/s (2.28 ft).

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 Blackwood Creek near Tahoe City, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water temperatures and sediment records: October 1974 to current year.

EXTREMES.--1975-76:

Sediment concentrations: Maximum daily, 247 mg/l Oct. 26; minimum daily, 0 mg/l on many days during October and January.

Sediment discharge: Maximum daily, 133 tons (121 tonnes) Oct. 26; minimum daily, 0 tons (0 tonnes) on many days during October and January.

Period of record:

Sediment concentrations: Maximum daily, 247 mg/l Oct. 26, 1975; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 172 tons (156 tonnes) May 31, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Selected sediment samples and water-temperature readings furnished by University of California at Davis.

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
26...	0945	3.0	206	897	499	33	--	--	--	--
APR.										
30...	1820	8.5	81	95	21	56	74	92	99	100
MAY										
03...	1730	9.5	92	64	16	47	67	86	96	100
07...	1700	10.0	102	88	24	42	61	82	96	100
13...	1610	12.0	105	54	15	34	--	--	--	--

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

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	2.9	1	.01	19	2	.10	13	1	.04
2	2.7	1	.01	18	2	.10	12	1	.03
3	2.7	1	.01	17	2	.09	12	1	.03
4	2.7	1	.01	17	2	.09	12	1	.03
5	2.7	1	.01	16	2	.09	12	1	.03
6	5.4	5	.15	15	2	.08	12	1	.03
7	7.2	2	.05	34	20	2.6	11	1	.03
8	4.1	1	.01	31	3	.25	11	2	.06
9	3.7	1	.01	22	1	.06	11	2	.06
10	9.7	8	.31	19	1	.05	11	2	.06
11	12	1	.06	19	1	.05	10	2	.05
12	8.2	1	.02	18	1	.05	10	2	.05
13	7.2	1	.02	18	1	.05	9.3	2	.05
14	7.2	1	.02	18	1	.05	9.0	1	.02
15	8.5	1	.02	18	2	.10	9.0	1	.02
16	8.8	1	.02	45	16	2.1	9.0	1	.02
17	9.1	1	.02	28	3	.23	9.0	1	.02
18	8.7	1	.02	20	3	.16	9.0	2	.05
19	8.1	0	0	19	2	.10	9.0	3	.07
20	7.9	0	0	18	2	.10	9.0	4	.10
21	7.4	0	0	17	1	.05	8.9	2	.05
22	13	3	.11	16	1	.04	8.9	1	.02
23	9.3	0	0	15	1	.04	8.6	1	.02
24	7.7	0	0	15	1	.04	8.6	1	.02
25	7.5	1	.02	15	1	.04	8.6	1	.02
26	137	247	133	14	1	.04	8.3	1	.02
27	46	10	1.5	14	1	.04	8.2	1	.02
28	27	2	.15	13	1	.04	8.4	1	.02
29	21	2	.11	12	1	.03	8.7	1	.02
30	21	2	.11	13	1	.04	8.4	1	.02
31	19	2	.10	---	---	---	7.6	1	.02
MONTH	445.3	---	135.88	573	---	6.90	302.5	---	1.10

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 Blackwood Creek near Tahoe City, Calif.--Continued

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

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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.6	1	.02	6.5	2	.04	10	2	.05			
2	7.6	1	.02	6.4	2	.03	9.5	2	.05			
3	7.6	1	.02	6.2	2	.03	9.4	2	.05			
4	7.6	1	.02	6.0	2	.03	9.5	2	.05			
5	7.6	1	.02	6.0	2	.03	9.5	2	.05			
6	7.3	1	.02	6.1	2	.03	9.6	2	.05			
7	7.0	1	.02	6.4	2	.03	9.7	2	.05			
8	6.9	1	.02	6.4	2	.03	10	2	.05			
9	6.9	1	.02	6.4	2	.03	10	2	.05			
10	6.9	1	.02	6.2	2	.03	11	2	.06			
11	6.9	1	.02	6.1	2	.03	11	2	.06			
12	6.9	1	.02	6.2	2	.03	11	2	.06			
13	6.9	0	0	6.3	2	.03	11	2	.06			
14	6.9	0	0	6.4	2	.03	12	2	.06			
15	6.9	0	0	6.4	1	.02	12	2	.06			
16	6.9	0	0	6.7	1	.02	14	2	.08			
17	7.0	0	0	6.7	1	.02	18	2	.10			
18	7.0	1	.02	6.7	1	.02	19	2	.10			
19	7.1	1	.02	6.7	1	.02	18	3	.15			
20	7.0	2	.04	6.7	2	.04	17	3	.14			
21	6.8	2	.04	6.7	2	.04	17	3	.14			
22	6.8	2	.04	6.7	2	.04	19	3	.15			
23	6.8	2	.04	6.7	2	.04	20	3	.16			
24	6.8	2	.04	7.0	2	.04	21	3	.17			
25	6.7	2	.04	7.0	2	.04	18	3	.15			
26	6.6	2	.04	7.0	2	.04	17	3	.14			
27	6.6	2	.04	7.2	2	.04	17	3	.14			
28	6.5	2	.04	9.1	2	.05	16	3	.13			
29	6.4	1	.02	12	2	.06	17	3	.14			
30	6.5	1	.02	---	---	---	19	3	.15			
31	6.4	1	.02	---	---	---	20	3	.16			
MONTH	215.4	---	.70	196.9	---	.96	442.2	---	3.01			
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	2	.10	73	86	20	27	5	.36			
2	20	2	.11	72	41	8.4	25	3	.20			
3	22	2	.12	76	39	9.5	23	2	.12			
4	24	2	.13	79	38	9.2	21	2	.11			
5	24	2	.13	73	20	3.9	20	2	.11			
6	22	2	.12	64	9	1.6	19	2	.10			
7	23	2	.12	75	43	11	18	2	.10			
8	26	2	.14	85	49	13	17	2	.09			
9	23	2	.12	81	22	4.8	18	3	.15			
10	23	2	.12	81	25	6.0	17	2	.09			
11	22	2	.12	85	29	7.4	17	3	.14			
12	21	1	.06	84	26	6.4	16	2	.09			
13	20	1	.05	92	50	15	15	2	.08			
14	20	1	.05	96	39	11	14	2	.08			
15	20	1	.05	79	22	4.7	13	2	.07			
16	19	1	.05	76	16	3.3	12	2	.06			
17	19	2	.10	72	12	2.3	11	2	.06			
18	20	2	.11	64	11	1.9	11	2	.06			
19	25	6	.43	56	9	1.4	10	2	.05			
20	34	11	1.2	51	9	1.2	9.8	2	.05			
21	40	15	1.8	48	7	.91	9.5	1	.03			
22	46	27	3.7	46	5	.62	9.0	1	.02			
23	50	29	4.3	45	6	.73	8.3	1	.02			
24	57	35	6.1	42	6	.68	7.8	1	.02			
25	58	13	2.0	40	9	.97	7.2	1	.02			
26	49	9	1.2	38	5	.51	6.6	1	.02			
27	43	7	.81	38	5	.51	6.3	1	.02			
28	43	7	.81	35	4	.38	5.9	1	.02			
29	49	14	2.1	31	4	.33	5.7	1	.02			
30	60	34	6.6	29	4	.31	5.4	1	.01			
31	---	---	---	28	4	.30	---	---	---			
MONTH	941	---	32.85	1934	---	148.25	405.5	---	2.37			

10336660 Blackwood Creek near Tahoe City, Calif.--Continued

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

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.3	1	.01	3.3	2	.02	2.4	1	.01
2	5.2	1	.01	2.8	1	.01	2.3	1	.01
3	5.1	1	.01	2.5	1	.01	2.3	1	.01
4	4.9	1	.01	2.5	1	.01	2.2	1	.01
5	4.4	1	.01	2.5	1	.01	2.2	1	.01
6	4.3	1	.01	2.4	1	.01	2.3	2	.01
7	4.2	1	.01	2.4	1	.01	2.2	2	.01
8	4.0	1	.01	2.4	1	.01	2.2	2	.01
9	3.7	1	.01	2.4	1	.01	2.2	2	.01
10	3.6	1	.01	2.4	1	.01	2.3	2	.01
11	3.4	1	.01	2.3	1	.01	3.0	2	.02
12	3.3	1	.01	2.3	1	.01	2.5	2	.01
13	3.2	1	.01	2.2	1	.01	2.4	3	.02
14	3.1	1	.01	3.2	3	.03	2.4	3	.02
15	3.1	1	.01	17	51	2.8	2.4	3	.02
16	3.2	2	.02	7.1	2	.04	2.4	2	.01
17	3.2	1	.01	4.7	1	.01	2.4	2	.01
18	3.0	1	.01	4.7	1	.01	2.4	2	.01
19	2.9	1	.01	4.6	1	.01	2.4	1	.01
20	2.7	1	.01	4.1	1	.01	2.4	1	.01
21	2.7	1	.01	3.6	1	.01	2.4	1	.01
22	2.6	1	.01	3.6	1	.01	2.4	1	.01
23	2.9	1	.01	3.6	1	.01	2.3	1	.01
24	3.0	1	.01	3.2	1	.01	2.3	1	.01
25	2.7	1	.01	3.0	1	.01	2.3	1	.01
26	2.5	1	.01	2.9	1	.01	2.3	1	.01
27	2.5	1	.01	2.8	1	.01	2.3	1	.01
28	2.5	1	.01	2.8	1	.01	2.3	1	.01
29	2.4	1	.01	2.5	1	.01	2.3	1	.01
30	2.4	1	.01	2.5	1	.01	2.3	1	.01
31	2.4	1	.01	2.4	1	.01	---	---	---
MONTH	104.4	---	.32	110.7	---	3.16	70.5	---	.34

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	---	2.5	---	3.0	---	---	6.5	13.5	---	---	---
2	---	---	---	---	---	---	7.5	6.0	---	---	---	---
3	---	---	---	---	---	---	---	9.5	11.0	---	---	---
4	---	---	---	---	---	---	---	10.0	---	---	---	---
5	---	---	5.0	---	---	---	---	7.0	---	---	---	---
6	8.0	---	---	---	---	---	---	6.5	---	---	---	---
7	---	---	---	---	---	---	7.0	10.0	---	---	---	---
8	---	---	---	2.0	---	---	---	8.5	---	12.5	---	---
9	---	1.0	---	---	---	2.0	---	5.5	8.5	---	16.0	---
10	---	---	---	---	2.5	---	7.5	9.5	---	---	---	14.0
11	---	---	---	---	---	---	---	10.0	---	---	---	---
12	---	---	---	---	---	---	7.0	11.5	---	---	---	---
13	---	---	---	---	---	---	---	12.0	---	---	---	---
14	7.0	4.0	---	2.5	---	---	7.0	9.0	---	---	11.0	13.0
15	8.5	---	---	---	---	---	---	11.5	---	---	10.0	---
16	---	3.0	---	---	---	3.0	---	12.5	---	16.0	---	---
17	---	---	1.5	---	---	---	6.5	11.5	17.5	---	---	---
18	---	---	---	---	3.0	---	---	10.0	---	---	---	---
19	---	---	---	---	---	---	10.0	5.5	---	---	---	---
20	---	---	0.0	---	---	---	10.0	12.0	---	---	---	---
21	---	---	---	---	---	---	9.5	9.5	---	---	---	---
22	---	---	---	---	---	---	3.0	---	---	---	---	---
23	---	---	---	---	---	2.5	7.0	6.5	18.0	13.0	---	---
24	5.5	2.0	---	---	---	---	5.0	12.0	---	---	---	13.5
25	---	---	---	---	---	---	6.5	5.5	---	---	---	---
26	3.0	---	---	2.0	2.0	---	4.0	9.0	---	---	---	---
27	4.0	---	---	---	---	---	5.0	14.0	---	---	---	---
28	---	---	---	---	---	---	8.0	---	---	---	---	---
29	---	---	3.0	---	---	---	10.0	---	---	---	---	---
30	---	---	---	3.5	---	7.5	10.0	---	---	---	9.5	---
31	5.0	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	9.5	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336670 Ward Creek near Tahoe Pines, Calif.

LOCATION.--Lat 39°08'09", long 120°13'11", in SE 1/4 sec. 21, T.15 N., R.16 E., Placer County, Tahoe National Forest, on right bank 0.5 mi (0.8 km) upstream from confluence with tributary, 3.9 mi (6.3 km) northwest of Tahoe Pines, and 4.8 mi (7.7 km) southwest of Tahoe City.

DRAINAGE AREA.--2.03 mi² (5.26 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,740 ft (2,054 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 54 ft³/s (1.53 m³/s) Oct. 26, gage height, 2.58 ft (0.786 m); maximum gage height, 2.90 ft (0.884 m) Mar. 2 (backwater from ice); minimum daily discharge, 0.36 ft³/s (0.010 m³/s) Sept. 26-29.

Period of record: Maximum discharge, 199 ft³/s (5.63 m³/s) Nov. 12, 1973, gage height, 3.12 ft (0.951 m); maximum gage height, 6.01 ft (1.832 m) Mar. 25, 1975 (backwater from ice); minimum daily discharge, 0.34 ft³/s (0.010 m³/s) Sept. 7-19, 27-30, Oct. 1-4, 1973.

REMARKS.--Records good except those for the winter period, which are fair. No regulation or diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	4.0	2.2	1.1	.78	1.2	2.6	17	9.9	1.9	.76	.56
2	.71	3.8	2.3	1.1	.85	1.2	3.1	15	9.1	1.9	.69	.50
3	.71	3.5	2.3	1.1	.85	1.2	3.8	18	8.7	1.8	.62	.50
4	.71	3.5	2.2	1.1	.78	1.2	4.0	18	7.9	1.6	.62	.50
5	.71	3.3	2.2	1.1	.78	1.2	3.8	16	7.5	1.4	.56	.50
6	3.8	3.3	2.2	1.1	.78	1.3	3.3	13	6.9	1.3	.56	.50
7	1.6	9.9	2.0	1.1	.78	1.4	4.0	19	6.6	1.3	.50	.50
8	1.1	6.0	2.0	1.1	.78	1.5	3.5	20	6.3	1.2	.45	.45
9	1.1	4.5	1.9	1.1	.78	1.5	3.1	20	6.6	1.2	.45	.45
10	2.7	4.1	1.9	1.0	.78	1.7	3.1	21	6.6	1.1	.45	.56
11	2.2	3.9	1.9	1.0	.80	1.7	2.9	22	6.6	1.0	.45	3.2
12	1.7	3.7	1.9	1.0	.82	1.7	2.6	22	6.0	.92	.45	.92
13	2.0	3.7	1.8	1.0	.85	1.9	2.4	26	5.7	.84	.45	.84
14	2.2	3.5	1.7	1.0	.85	2.2	2.4	28	5.2	.84	4.0	.45
15	2.2	3.5	1.6	1.0	.85	2.3	2.3	22	5.2	.76	7.9	.40
16	2.2	9.4	1.6	1.0	.85	2.8	2.3	23	4.9	.84	1.9	.40
17	1.9	4.5	1.6	1.1	.85	3.2	2.5	22	4.9	.84	1.3	.40
18	1.7	3.5	1.6	1.1	.85	2.7	2.7	19	4.9	.76	1.4	.45
19	1.5	3.1	1.6	1.0	.86	2.4	4.7	17	4.6	.76	1.2	.45
20	1.5	2.8	1.6	1.0	.90	2.4	7.4	16	4.4	.69	1.0	.45
21	1.5	2.8	1.6	1.0	.92	2.8	8.0	14	4.2	.62	.84	.40
22	2.3	2.8	1.6	1.0	.92	3.1	9.2	14	3.9	.62	1.2	.40
23	1.7	2.8	1.6	1.0	.92	3.3	11	14	3.7	.84	.92	.40
24	1.5	2.8	1.6	.92	.92	2.9	13	13	3.5	.76	.84	.40
25	1.5	2.6	1.5	.92	.92	2.4	11	13	3.1	.69	.76	.40
26	25	2.4	1.4	.92	.85	2.3	8.3	13	2.9	.62	.60	.36
27	6.6	2.2	1.4	.92	.85	2.2	6.9	13	2.7	.62	.69	.36
28	4.8	2.1	1.4	.92	1.4	2.0	6.6	12	2.5	.56	.69	.36
29	4.0	2.1	1.4	.92	1.3	2.3	9.6	11	2.3	.56	.62	.36
30	3.9	2.1	1.3	.85	---	2.7	13	10	2.1	.50	.62	.40
31	3.8	---	1.2	.85	---	2.8	---	10	---	.56	.56	---
TOTAL	89.55	112.2	54.1	31.32	25.42	65.5	163.1	531	159.4	29.90	34.05	16.82
MEAN	2.89	3.74	1.75	1.01	.88	2.11	5.44	17.1	5.31	.96	1.10	.56
MAX	25	9.9	2.3	1.1	1.4	3.3	13	28	9.9	1.9	7.9	3.2
MIN	.71	2.1	1.2	.85	.78	1.2	2.3	10	2.1	.50	.45	.36
AC-FT	178	223	107	62	50	130	324	1050	316	59	68	33

CAL YR 1975 TOTAL 3127.76 MEAN 8.57 MAX 75 MIN .54 AC-FT 6200
WTR YR 1976 TOTAL 1312.36 MEAN 3.59 MAX 28 MIN .36 AC-FT 2600

Peak discharge (base, 20 ft³/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
10-26	0800	2.58	54	5-3	1600	2.34	27
11-7	1430	2.25	20	5-13	1700	2.47	40

10336670 Ward Creek near Tahoe Pines, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water temperatures and sediment records: October 1972 to September 1976 (discontinued).

EXTREMES.--1975-76:

Sediment concentrations: Maximum daily, 269 mg/l Aug. 14; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 15 tons (14 tonnes) Oct. 26; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 815 mg/l July 9, 1974; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 219 tons (199 tonnes) July 9, 1974; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Selected sediment samples and water-temperature readings furnished by University of California at Davis.

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	
OCT.										
26...	0820	1.5	49	516	68	69	--	--	--	
APR.										
20...	1620	1.0	13	85	3.0	76	--	--	--	
23...	1415	2.5	14	76	2.9	90	96	98	100	
30...	1430	3.5	19	159	9.2	88	--	--	--	
MAY										
04...	1535	4.5	26	32	2.2	70	85	96	100	
08...	1630	9.0	24	29	1.9	60	80	95	100	
13...	1310	7.0	28	45	3.4	53	--	--	--	
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
AUG.										
14...	1900	7.5	6.3	1170	20	38	54	75	95	100

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

DAY	OCTOBER				NOVEMBER				DECEMBER			
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.71	1	0	4.0	2	.02	2.2	3	.02			
2	.71	1	0	3.8	1	.01	2.3	2	.01			
3	.71	1	0	3.5	1	.01	2.3	2	.01			
4	.71	1	0	3.5	1	.01	2.2	1	.01			
5	.71	1	0	3.3	2	.02	2.2	1	.01			
6	3.8	158	3.6	3.3	2	.02	2.2	1	.01			
7	1.6	10	.04	9.9	15	.55	2.0	1	.01			
8	1.1	1	0	6.0	3	.05	2.0	1	.01			
9	1.1	1	0	4.5	2	.02	1.9	1	.01			
10	2.7	2	.02	4.1	2	.02	1.9	1	.01			
11	2.2	1	.01	3.9	2	.02	1.9	1	.01			
12	1.7	1	0	3.7	2	.02	1.9	1	.01			
13	2.0	2	.01	3.7	2	.02	1.8	1	0			
14	2.2	3	.02	3.5	2	.02	1.7	1	0			
15	2.2	3	.02	3.5	2	.02	1.6	1	0			
16	2.2	3	.02	9.4	10	.25	1.6	1	0			
17	1.9	2	.01	4.5	2	.02	1.6	1	0			
18	1.7	1	0	3.5	2	.02	1.6	1	0			
19	1.5	1	0	3.1	2	.02	1.6	1	0			
20	1.5	1	0	2.8	2	.02	1.6	1	0			
21	1.5	2	.01	2.8	2	.02	1.6	1	0			
22	2.3	3	.02	2.8	2	.02	1.6	1	0			
23	1.7	2	.01	2.8	2	.02	1.6	2	.01			
24	1.5	3	.01	2.8	2	.02	1.6	2	.01			
25	1.5	2	.01	2.6	2	.01	1.5	2	.01			
26	25	139	15	2.4	2	.01	1.4	2	.01			
27	6.6	4	.07	2.2	2	.01	1.4	2	.01			
28	4.8	1	.01	2.1	3	.02	1.4	2	.01			
29	4.0	2	.02	2.1	3	.02	1.4	2	.01			
30	3.9	1	.01	2.1	3	.02	1.3	2	.01			
31	3.8	2	.02	---	---	---	1.2	1	0			
MONTH	89.55	---	18.94	112.2	---	1.33	54.1	---	.21			

10336670 Ward Creek near Tahoe Pines, Calif.--Continued

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

JANUARY							FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)			
1	1.1	1	0	.78	1	0	1.2	1	0			
2	1.1	1	0	.85	1	0	1.2	1	0			
3	1.1	1	0	.85	1	0	1.2	1	0			
4	1.1	1	0	.78	1	0	1.2	1	0			
5	1.1	1	0	.78	1	0	1.2	1	0			
6	1.1	1	0	.78	1	0	1.3	1	0			
7	1.1	1	0	.78	2	0	1.4	1	0			
8	1.1	2	.01	.78	2	0	1.5	1	0			
9	1.1	1	0	.78	2	0	1.5	2	.01			
10	1.0	1	0	.78	2	0	1.7	2	.01			
11	1.0	2	.01	.80	2	0	1.7	2	.01			
12	1.0	3	.01	.82	2	0	1.7	2	.01			
13	1.0	4	.01	.85	2	0	1.9	3	.02			
14	1.0	5	.01	.85	3	.01	2.2	3	.02			
15	1.0	6	.02	.85	3	.01	2.3	3	.02			
16	1.0	6	.02	.85	3	.01	2.8	3	.02			
17	1.1	5	.01	.85	3	.01	3.2	3	.03			
18	1.1	5	.01	.85	3	.01	2.7	2	.01			
19	1.0	4	.01	.86	3	.01	2.4	2	.01			
20	1.0	4	.01	.90	2	0	2.4	2	.01			
21	1.0	4	.01	.92	2	.01	2.8	2	.02			
22	1.0	3	.01	.92	2	.01	3.1	1	.01			
23	1.0	3	.01	.92	1	0	3.3	1	.01			
24	.92	3	.01	.92	1	0	2.9	1	.01			
25	.92	3	.01	.92	1	0	2.4	1	.01			
26	.92	2	.01	.85	1	0	2.3	1	.01			
27	.92	2	.01	.85	1	0	2.2	1	.01			
28	.92	2	.01	1.4	1	0	2.0	1	.01			
29	.92	2	.01	1.3	1	0	2.3	1	.01			
30	.85	2	0	---	---	---	2.7	2	.01			
31	.85	1	0	---	---	---	2.8	1	.01			
MONTH	31.32	---	.22	25.42	---	.08	65.5	---	.30			
APRIL							MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)			
1	2.6	2	.01	17	37	2.3	9.9	5	.13			
2	3.1	3	.03	15	13	.60	9.1	4	.10			
3	3.8	3	.03	18	19	1.2	8.7	4	.09			
4	4.0	3	.03	18	13	.76	7.9	4	.09			
5	3.8	2	.02	16	10	.45	7.5	3	.06			
6	3.3	2	.02	13	4	.14	6.9	3	.06			
7	4.0	4	.04	19	35	2.4	6.6	3	.05			
8	3.5	2	.02	20	16	1.1	6.3	3	.05			
9	3.1	1	.01	20	11	.67	6.6	3	.05			
10	3.1	1	.01	21	14	.95	6.6	3	.05			
11	2.9	1	.01	22	16	1.1	6.6	3	.05			
12	2.6	1	.01	22	14	.93	6.0	3	.05			
13	2.4	0	0	26	35	3.2	5.7	2	.03			
14	2.4	1	.01	28	19	1.6	5.2	2	.03			
15	2.3	2	.01	22	14	.83	5.2	2	.03			
16	2.3	4	.02	23	12	.84	4.9	2	.03			
17	2.5	2	.01	22	11	.65	4.9	2	.03			
18	2.7	2	.01	19	9	.46	4.9	2	.03			
19	4.7	15	.29	17	6	.28	4.6	2	.02			
20	7.4	28	.81	16	6	.26	4.4	2	.02			
21	8.0	11	.30	14	5	.19	4.2	2	.02			
22	9.2	13	.42	14	5	.19	3.9	1	.01			
23	11	16	.65	14	6	.23	3.7	1	.01			
24	13	15	.61	13	6	.21	3.5	1	.01			
25	11	6	.18	13	5	.18	3.1	1	.01			
26	8.3	4	.09	13	6	.21	2.9	1	.01			
27	6.9	3	.06	13	5	.18	2.7	1	.01			
28	6.6	4	.07	12	3	.10	2.5	1	.01			
29	9.6	17	.59	11	3	.09	2.3	1	.01			
30	13	35	1.7	10	4	.11	2.1	1	.01			
31	---	---	---	10	4	.11	---	---	---			
MONTH	163.1	---	6.07	531	---	22.52	159.4	---	1.16			

10336670 Ward Creek near Tahoe Pines, Calif.--Continued

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

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	1	.01	.76	2	0	.56	2	0
2	1.9	1	.01	.69	1	0	.50	2	0
3	1.8	1	0	.62	1	0	.50	2	0
4	1.6	2	.01	.62	1	0	.50	2	0
5	1.4	3	.01	.56	1	0	.50	1	0
6	1.3	4	.01	.56	1	0	.50	1	0
7	1.3	5	.02	.50	1	0	.50	1	0
8	1.2	6	.02	.45	1	0	.45	1	0
9	1.2	7	.02	.45	1	0	.45	1	0
10	1.1	5	.01	.45	1	0	.56	3	0
11	1.0	4	.01	.45	1	0	3.2	113	1.6
12	.92	3	.01	.45	1	0	.92	9	.02
13	.84	2	0	.45	1	0	.84	8	.02
14	.84	1	0	4.0	269	4.9	.45	6	.01
15	.76	1	0	7.9	110	3.1	.40	4	0
16	.84	1	0	1.9	4	.02	.40	2	0
17	.84	1	0	1.3	2	.01	.40	2	0
18	.76	1	0	1.4	2	.01	.45	2	0
19	.76	1	0	1.2	2	.01	.45	2	0
20	.69	1	0	1.0	2	.01	.45	2	0
21	.62	1	0	.84	2	0	.40	2	0
22	.62	1	0	1.2	3	.01	.40	2	0
23	.84	1	0	.92	2	.01	.40	2	0
24	.76	1	0	.84	2	0	.40	2	0
25	.69	1	0	.76	2	0	.40	2	0
26	.62	1	0	.76	2	0	.36	2	0
27	.62	1	0	.69	2	0	.36	2	0
28	.56	1	0	.69	2	0	.36	2	0
29	.56	1	0	.62	2	0	.36	2	0
30	.50	1	0	.62	2	0	.40	2	0
31	.56	1	0	.56	2	0	---	---	---
MONTH	29.90	---	.14	34.21	---	8.08	16.82	---	1.65
YEAR	1312.52		60.70						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.5	---	---	---	---	2.0	11.0	---	---	---
2	11.0	---	---	0.5	0.0	---	3.0	2.5	---	---	---	---
3	---	1.5	---	---	---	---	---	3.0	5.5	16.0	---	---
4	---	---	2.5	---	---	---	---	4.5	---	---	---	---
5	---	---	---	---	---	---	---	4.0	---	---	---	---
6	5.5	4.0	---	---	---	0.0	---	3.0	---	---	---	---
7	---	---	---	---	---	---	---	4.0	---	---	---	---
8	---	---	---	1.0	---	---	---	9.0	---	---	---	---
9	---	---	---	---	---	---	3.5	2.5	4.5	10.0	---	---
10	---	---	1.0	---	---	---	---	4.5	---	---	16.5	9.5
11	---	---	---	---	---	---	---	4.0	---	---	---	---
12	---	---	---	---	---	---	---	5.0	---	---	---	---
13	---	---	---	---	---	---	3.0	5.5	---	---	---	---
14	0.5	1.5	---	---	---	---	---	4.0	---	20.0	7.5	10.0
15	---	---	---	0.5	---	2.5	---	7.0	---	---	5.5	---
16	---	---	---	---	---	---	---	7.0	8.5	---	---	---
17	6.5	---	0.0	---	---	---	---	6.0	---	---	---	---
18	---	---	---	---	0.5	---	---	9.0	---	---	---	---
19	---	---	---	---	---	---	---	4.0	---	---	---	---
20	---	---	---	---	---	---	0.5	8.0	---	---	---	---
21	---	---	---	---	---	---	4.0	5.5	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	4.5
23	---	---	---	1.0	---	---	2.5	---	---	---	---	---
24	1.0	0.0	---	---	1.5	---	1.5	8.0	---	---	---	---
25	---	---	---	---	---	2.5	1.5	10.0	---	---	---	---
26	2.0	---	---	---	---	---	2.0	6.5	14.0	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	3.0	8.0	---	---	---	---
29	---	---	---	---	---	---	6.0	---	---	---	---	---
30	---	---	---	---	---	---	3.0	---	---	---	7.5	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	5.5	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336672 Ward Creek Tributary near Tahoe Pines, Calif.

LOCATION.--Lat 39°08'29", long 120°13'06", in SE¼SW¼ sec.16, T.15 N., R.16 E., Placer County, on left bank 0.3 mi (0.5 km) upstream from confluence with Ward Creek, 4.0 mi (6.4 km) northwest of Tahoe Pines, and 4.5 mi (7.2 km) southwest of Tahoe City.

DRAINAGE AREA.--0.91 mi² (2.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,710 ft (2,045 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 36 ft³/s (1.02 m³/s) Oct. 26, gage height, 2.60 ft (0.792 m); no flow many days in October, July through September.

Period of record: Maximum discharge, 116 ft³/s (3.29 m³/s) Nov. 12, 1973, gage height, 3.30 ft (1.006 m), from rating curve extended above 50 ft³/s (1.416 m³/s); no flow at times each year.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.6	1.2	.76	.54	.88	2.3	11	3.4	.14	.01	0
2	0	2.8	1.2	.75	.54	.86	2.6	11	3.1	.14	0	0
3	0	2.8	1.2	.73	.54	.86	3.1	11	2.8	.10	0	0
4	0	2.8	1.2	.72	.54	.86	3.6	12	2.6	.09	0	0
5	0	2.6	1.2	.65	.54	.86	3.6	10	2.2	.08	0	0
6	.14	2.3	1.1	.59	.65	.79	3.3	8.5	2.0	.06	0	0
7	.07	6.5	1.1	.59	.65	.79	3.3	10	1.9	.05	0	0
8	.03	4.7	1.1	.59	.65	.79	3.3	11	1.8	.04	0	0
9	.02	3.3	1.1	.54	.65	.79	3.0	11	1.9	.03	0	0
10	.24	2.6	1.1	.54	.65	.79	2.8	12	1.8	.03	0	0
11	.22	2.5	1.1	.54	.65	.86	2.5	11	1.7	.02	0	.07
12	.16	2.5	1.0	.54	.72	.86	2.3	11	1.5	.02	0	.01
13	.18	2.6	1.0	.54	.72	.86	2.0	12	1.4	.02	0	.01
14	.24	2.5	1.0	.54	.72	.93	2.0	13	1.2	.01	.04	.01
15	.33	2.5	1.0	.54	.72	1.1	1.9	10	1.2	.01	.80	0
16	.36	6.6	1.0	.54	.72	1.4	1.8	10	1.2	.01	.12	0
17	.44	3.6	1.0	.54	.72	2.0	1.8	9.4	1.1	.01	.07	0
18	.36	2.5	1.0	.54	.72	2.0	1.8	7.9	1.0	0	.07	0
19	.36	2.3	.93	.54	.72	1.6	2.7	7.0	1.0	0	.06	.01
20	.33	2.2	.93	.54	.72	1.8	4.7	6.4	.86	0	.03	.01
21	.36	1.9	.86	.54	.72	1.9	6.2	5.6	.72	0	.02	0
22	.72	1.7	.86	.54	.72	2.2	7.5	5.6	.59	0	.02	0
23	.44	1.6	.86	.54	.72	2.5	8.1	5.4	.44	.01	.03	0
24	.36	1.6	.79	.54	.72	2.5	10	5.1	.40	0	.02	0
25	.36	1.5	.79	.54	.72	2.2	9.8	5.1	.33	0	.01	0
26	18	1.4	.79	.44	.72	2.0	7.0	4.9	.27	0	.01	0
27	5.4	1.3	.79	.44	.72	1.9	7.0	5.4	.24	0	.01	0
28	3.6	1.3	.79	.49	1.0	1.9	6.0	4.7	.20	0	0	0
29	3.0	1.2	.86	.54	1.0	1.9	7.4	3.8	.18	0	0	0
30	2.6	1.2	.79	.54	---	2.5	9.4	3.4	.16	0	0	0
31	2.5	---	.76	.54	---	2.6	---	3.8	---	0	0	---
TOTAL	40.82	77.5	30.40	17.55	20.12	45.78	132.8	258.0	39.19	.87	1.32	.12
MEAN	1.32	2.58	.98	.57	.69	1.48	4.43	8.32	1.31	.028	.043	.004
MAX	18	6.6	1.2	.76	1.0	2.6	10	13	3.4	.14	.80	.07
MIN	0	1.2	.76	.44	.54	.79	1.8	3.4	.16	0	0	0
AC-FT	81	154	60	35	40	91	263	512	78	1.7	2.6	.2

CAL YR 1975 TOTAL 1537.75 MEAN 4.21 MAX 37 MIN 0 AC-FT 3050
WTR YR 1976 TOTAL 664.47 MEAN 1.82 MAX 18 MIN 0 AC-FT 1320

Peak discharge (base, 10 ft³/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
10-26	0830	2.60	36	4-24	1800	2.16	14
11-7	1500	2.08	11	5-1	2000	2.23	17
11-16	0400	2.09	11	5-13	1600	2.25	18

10336672 Ward Creek tributary near Tahoe Pines, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water temperatures and sediment records: October 1972 to September 1976 (discontinued).

EXTREMES.--1975-76:

Sediment concentrations: Maximum daily, 78 mg/l Oct. 26; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 5.2 tons (4.7 tonnes) Oct. 26; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 411 mg/l Nov. 11, 1973; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 74 tons (64 tonnes) Nov. 11, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Selected sediment samples and water-temperature readings furnished by University of California at Davis.

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT. 26...	0835	1.5	36	292	28	46	--	--	--
APR. 20...	1555	3.0	6.4	47	.81	66	--	--	--
MAY 04...	1645	4.0	16	10	.43	84	91	97	100
15...	1510	8.0	12	6	.19	45	--	--	--

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

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	2.6	0	0	1.2	1	0
2	0	0	0	2.8	0	0	1.2	1	0
3	0	0	0	2.8	0	0	1.2	1	0
4	0	0	0	2.8	0	0	1.2	1	0
5	0	0	0	2.6	0	0	1.2	1	0
6	.14	1	0	2.3	0	0	1.1	1	0
7	.07	0	0	6.5	6	.14	1.1	1	0
8	.03	0	0	4.7	2	.03	1.1	1	0
9	.02	0	0	3.3	2	.02	1.1	1	0
10	.24	2	0	2.6	2	.01	1.1	1	0
11	.22	0	0	2.5	2	.01	1.1	1	0
12	.16	0	0	2.5	2	.01	1.0	1	0
13	.18	0	0	2.6	2	.01	1.0	1	0
14	.24	0	0	2.5	2	.01	1.0	0	0
15	.33	0	0	2.5	2	.01	1.0	0	0
16	.36	0	0	6.6	4	.10	1.0	0	0
17	.44	0	0	3.6	1	.01	1.0	0	0
18	.36	0	0	2.5	2	.01	1.0	0	0
19	.36	0	0	2.3	2	.01	.93	0	0
20	.33	0	0	2.2	1	.01	.93	0	0
21	.36	0	0	1.9	1	.01	.86	0	0
22	.72	0	0	1.7	1	0	.86	0	0
23	.44	0	0	1.6	1	0	.86	0	0
24	.36	0	0	1.6	1	0	.79	0	0
25	.36	1	0	1.5	1	0	.79	0	0
26	1.0	78	5.2	1.4	1	0	.79	0	0
27	5.4	6	.09	1.3	1	0	.79	0	0
28	3.6	1	.01	1.3	1	0	.79	0	0
29	3.0	0	0	1.2	1	0	.86	0	0
30	2.6	0	0	1.2	1	0	.79	0	0
31	2.5	0	0	---	---	---	.76	0	0
MONTH	40.82	---	5.30	77.5	---	.40	30.40	---	0

10336672 Ward Creek tributary near Tahoe Pines, Calif.--Continued

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

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.76	0	0	.54	0	0	.88	1	0
2	.75	0	0	.54	0	0	.86	1	0
3	.73	0	0	.54	0	0	.86	1	0
4	.72	0	0	.54	0	0	.86	1	0
5	.65	0	0	.54	0	0	.86	1	0
6	.59	1	0	.65	0	0	.79	1	0
7	.59	1	0	.65	0	0	.79	1	0
8	.59	1	0	.65	0	0	.79	1	0
9	.54	1	0	.65	0	0	.79	1	0
10	.54	1	0	.65	0	0	.79	1	0
11	.54	1	0	.65	0	0	.86	0	0
12	.54	2	0	.72	0	0	.86	0	0
13	.54	2	0	.72	0	0	.86	0	0
14	.54	2	0	.72	0	0	.93	0	0
15	.54	2	0	.72	0	0	1.1	0	0
16	.54	2	0	.72	0	0	1.4	0	0
17	.54	2	0	.72	0	0	2.0	0	0
18	.54	2	0	.72	0	0	2.0	1	.01
19	.54	2	0	.72	0	0	1.6	1	0
20	.54	2	0	.72	0	0	1.8	1	0
21	.54	2	0	.72	0	0	1.9	1	.01
22	.54	2	0	.72	0	0	2.2	2	.01
23	.54	2	0	.72	0	0	2.5	2	.01
24	.54	2	0	.72	0	0	2.5	2	.01
25	.54	2	0	.72	0	0	2.2	2	.01
26	.44	2	0	.72	0	0	2.0	2	.01
27	.44	1	0	.72	0	0	1.9	2	.01
28	.49	1	0	1.0	1	0	1.9	2	.01
29	.54	1	0	1.0	1	0	1.9	2	.01
30	.54	0	0	---	---	---	2.5	1	.01
31	.54	0	0	---	---	---	2.6	1	.01
MONTH	17.55	---	0	20.12	---	0	45.78	---	.12

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	2.3	1	.01	11	15	.57	3.4	2	.02
2	2.6	1	.01	11	8	.22	3.1	2	.02
3	3.1	1	.01	11	9	.32	2.8	1	.01
4	3.6	1	.01	12	8	.27	2.6	1	.01
5	3.6	1	.01	10	3	.08	2.2	1	.01
6	3.3	1	.01	8.5	2	.05	2.0	1	.01
7	3.3	1	.01	10	6	.20	1.9	1	.01
8	3.3	1	.01	11	4	.13	1.8	1	0
9	3.0	1	.01	11	7	.24	1.9	1	.01
10	2.8	1	.01	12	7	.26	1.8	1	0
11	2.5	1	.01	11	7	.24	1.7	1	0
12	2.3	1	.01	11	6	.20	1.5	1	0
13	2.0	1	.01	12	14	.61	1.4	1	0
14	2.0	1	.01	13	7	.29	1.2	1	0
15	1.9	1	.01	10	4	.11	1.2	1	0
16	1.8	1	0	10	5	.15	1.2	1	0
17	1.8	1	0	9.4	4	.10	1.1	1	0
18	1.8	1	0	7.9	5	.11	1.0	1	0
19	2.7	3	.03	7.0	5	.09	1.0	1	0
20	4.7	9	.14	6.4	4	.07	.86	1	0
21	6.2	6	.11	5.6	3	.05	.72	1	0
22	7.5	7	.16	5.6	3	.05	.59	0	0
23	8.1	7	.18	5.4	3	.04	.44	0	0
24	10	9	.29	5.1	3	.04	.40	0	0
25	9.8	3	.08	5.1	3	.04	.33	0	0
26	7.0	3	.06	4.9	3	.04	.27	0	0
27	7.0	1	.02	5.4	3	.04	.24	0	0
28	6.0	4	.07	4.7	2	.03	.20	0	0
29	7.4	5	.13	3.8	2	.02	.18	0	0
30	9.4	7	.24	3.4	2	.02	.16	0	0
31	---	---	---	3.8	2	.02	---	---	---
MONTH	132.8	---	1.66	258.0	---	4.70	39.19	---	.10

10336672 Ward Creek tributary near Tahoe Pines, Calif.--Continued

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

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.14	1	0	.01	1	0	0	0	0
2	.14	1	0	0	0	0	0	0	0
3	.10	1	0	0	0	0	0	0	0
4	.09	1	0	0	0	0	0	0	0
5	.08	1	0	0	0	0	0	0	0
6	.06	1	0	0	0	0	0	0	0
7	.05	1	0	0	0	0	0	0	0
8	.04	1	0	0	0	0	0	0	0
9	.03	1	0	0	0	0	0	0	0
10	.03	1	0	0	0	0	0	0	0
11	.02	1	0	0	0	0	.07	1	0
12	.02	1	0	0	0	0	.01	0	0
13	.02	1	0	0	0	0	.01	0	0
14	.01	1	0	.04	1	0	.01	0	0
15	.01	1	0	.80	3	.01	0	0	0
16	.01	1	0	.12	1	0	0	0	0
17	.01	1	0	.07	0	0	0	0	0
18	0	0	0	.07	0	0	0	0	0
19	0	0	0	.06	0	0	.01	0	0
20	0	0	0	.03	0	0	.01	0	0
21	0	0	0	.02	0	0	0	0	0
22	0	0	0	.02	0	0	0	0	0
23	.01	1	0	.03	0	0	0	0	0
24	0	0	0	.02	0	0	0	0	0
25	0	0	0	.01	0	0	0	0	0
26	0	0	0	.01	0	0	0	0	0
27	0	0	0	.01	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	---	---	---
MONTH	.87	---	0	1.32	---	.01	.12	---	0
YEAR	664.47		12.29						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1.5	---	---	---	---	3.0	11.5	---	---	---
2	---	---	---	0.5	0.5	---	4.0	4.0	---	---	---	---
3	---	4.5	---	---	---	0.0	---	4.0	8.0	16.5	---	---
4	---	---	2.5	---	---	---	---	4.0	---	---	---	---
5	---	---	---	---	---	---	---	4.0	---	---	---	---
6	8.0	4.0	---	---	---	0.0	---	4.5	---	---	---	---
7	---	---	---	---	---	---	---	5.5	---	---	---	---
8	---	---	---	0.5	---	---	---	5.0	---	---	---	---
9	---	---	---	---	---	---	3.5	3.5	5.5	13.5	---	---
10	---	---	1.5	---	---	---	---	5.5	---	---	---	---
11	---	---	---	---	---	---	---	5.5	---	---	---	---
12	---	---	---	---	---	---	---	7.0	---	---	---	---
13	---	---	---	---	---	---	3.0	5.0	---	---	---	---
14	3.0	2.5	---	---	---	---	---	5.0	---	---	10.0	---
15	---	---	---	0.5	---	3.0	---	8.0	---	---	8.0	---
16	---	---	---	---	---	---	---	9.0	10.5	---	---	---
17	5.0	---	0.5	---	---	---	---	8.0	---	---	---	---
18	---	---	---	---	0.5	---	---	7.0	---	---	---	---
19	---	---	---	---	---	---	---	5.5	---	---	---	---
20	---	---	---	---	---	---	3.0	8.0	---	---	---	---
21	---	---	---	---	---	---	3.5	7.5	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	1.5	---	---	4.5	---	---	---	---	---
24	1.0	1.0	---	---	1.0	---	2.0	10.5	---	---	---	---
25	---	---	---	---	---	2.0	3.0	11.5	---	---	---	---
26	2.0	---	---	---	---	---	2.0	8.0	15.0	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	4.5	9.5	---	---	---	---
29	---	---	---	---	---	---	7.0	---	---	---	---	---
30	---	---	---	---	---	---	4.5	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	6.5	---	---	---	---

10336676 Ward Creek at State Highway 89, near Tahoe Pines, Calif.

LOCATION.--Lat 39°07'56", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Tahoe National Forest, on right bank 165 ft (50 m) downstream from State Highway 89 bridge, 2.1 mi (3.4 km) north of Tahoe Pines, and 2.6 mi (4.2 km) southwest of Tahoe City.

DRAINAGE AREA.--9.70 mi² (25.1 km²).

WATER-DISCHARGE RECORDS •

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (1,899 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 178 ft³/s (5.04 m³/s) Oct. 26, gage height, 5.51 ft (1.679 m); maximum gage height, 5.81 ft (1.771 m) Mar. 1 (backwater from ice); minimum daily discharge, 0.47 ft³/s (0.013 m³/s) Aug. 13.

Period of record: Maximum discharge, 800 ft³/s (22.7 m³/s) Nov. 12, 1973, gage height, 6.65 ft (2.027 m), from rating extended above 310 ft³/s (8.78 m³/s); maximum gage height, 7.18 ft (2.188 m) Dec. 17, 1972 (backwater from ice); minimum daily discharge, 0.47 ft³/s (0.013 m³/s) Aug. 13, 1976.

REMARKS.--Records good except those for the winter periods, which are fair. Minor diversion for local water supply.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	14	8.8	5.8	4.6	7.0	14	61	22	4.2	2.5	.64
2	1.4	13	8.8	5.8	4.6	6.5	15	56	20	3.9	1.7	.64
3	1.4	13	8.8	5.8	4.6	6.3	18	58	18	3.4	1.1	.58
4	1.2	12	8.8	5.8	4.4	6.2	19	61	17	3.2	1.0	.58
5	1.2	12	8.8	5.8	4.4	6.2	20	53	16	2.9	1.0	.58
6	5.6	12	8.5	5.8	4.4	6.2	19	48	15	2.6	.92	.58
7	6.7	25	8.5	5.5	4.4	6.2	20	55	14	2.4	.92	.58
8	3.6	20	8.2	5.2	4.4	6.2	21	58	14	1.9	.77	.58
9	3.2	15	8.5	4.9	4.4	6.1	19	61	14	1.9	.70	.58
10	7.8	14	8.2	5.2	4.4	6.2	19	59	14	1.7	.64	.70
11	8.2	14	7.7	4.6	4.2	6.4	18	62	13	1.4	.58	4.8
12	5.8	13	7.2	4.6	4.3	6.5	17	59	12	1.4	.52	2.2
13	5.2	13	7.0	4.6	4.3	6.7	16	65	12	1.2	.47	1.4
14	6.1	13	7.0	4.6	4.4	7.3	16	68	11	1.1	4.2	1.2
15	6.4	14	6.8	4.6	4.6	8.5	16	57	10	1.1	16	1.1
16	6.4	37	6.8	4.9	4.6	9.6	15	54	10	1.6	5.8	1.1
17	6.1	20	6.8	4.9	4.6	12	15	50	9.6	1.6	3.9	1.1
18	5.5	16	6.8	4.9	4.6	12	16	45	9.2	1.2	3.4	1.1
19	5.2	13	6.8	4.9	4.4	10	22	40	8.8	1.1	3.4	1.1
20	4.9	12	6.8	4.7	4.3	9.0	32	36	8.5	.92	2.4	1.0
21	4.9	11	6.6	4.6	4.4	9.5	37	34	7.9	.78	1.9	.92
22	6.7	11	6.6	4.5	4.4	13	43	34	7.6	.70	2.4	.92
23	5.5	10	6.4	4.4	4.4	13	46	32	7.0	1.4	2.2	.92
24	4.9	10	6.4	4.4	4.4	13	54	30	6.4	1.2	1.6	.92
25	5.2	10	6.4	4.4	4.4	12	51	30	6.1	.92	1.4	.92
26	97	10	6.4	4.4	4.4	12	39	29	5.5	.77	1.2	.84
27	28	10	6.4	4.6	4.6	12	34	29	5.2	.77	1.0	.84
28	17	9.2	6.4	4.6	6.0	12	32	27	4.9	.77	.92	.84
29	15	8.8	6.4	4.6	7.8	12	39	25	4.6	.70	.84	.84
30	14	8.8	6.1	4.6	---	14	49	23	4.4	.58	.77	.84
31	14	---	5.8	4.6	---	15	---	23	---	.64	.70	---
TOTAL	305.5	413.8	225.5	152.6	133.7	288.6	791	1422	327.7	49.95	66.85	30.94
MEAN	9.85	13.8	7.27	4.92	4.61	9.31	26.4	45.9	10.9	1.61	2.16	1.03
MAX	97	37	8.8	5.8	7.8	15	54	68	22	4.2	16	4.8
MIN	1.2	8.8	5.8	4.4	4.2	6.1	14	23	4.4	.58	.47	.58
AC-FT	606	821	447	303	265	572	1570	2820	650	99	133	61

CAL YR 1975 TOTAL 10892.00 MEAN 29.8 MAX 303 MIN 1.2 AC-FT 21600
WTR YR 1976 TOTAL 4208.14 MEAN 11.5 MAX 97 MIN .47 AC-FT 8350

Peak discharge (base, 100 ft³/s).--Oct. 26 (1200) 178 ft³/s (5.51 ft).

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336676 Ward Creek at State Highway 89, near Tahoe Pines, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water temperatures and sediment records: October 1972 to current year.

EXTREMES.--1975-76:

Sediment concentrations: Maximum daily, 96 mg/l Oct. 26; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 34 tons (31 tonnes) Oct. 26; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 481 mg/l Nov. 12, 1973; minimum, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 646 tons (586 tonnes) Nov. 12, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Selected sediment samples and water-temperature readings furnished by University of California at Davis.

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUSPENDED SEDIMENT % FINER THAN .062 MM	SUSPENDED SEDIMENT % FINER THAN .125 MM	SUSPENDED SEDIMENT % FINER THAN .250 MM	SUSPENDED SEDIMENT % FINER THAN .500 MM	SUSPENDED SEDIMENT % FINER THAN 1.00 MM
OCT.										
26...	0925	3.0	175	334	158	51	--	--	--	--
26...	1650	3.0	129	49	17	48	--	--	--	--
APR.										
29...	1600	10.0	51	11	1.5	88	94	97	100	--
30...	1845	6.5	74	30	6.0	82	89	96	100	--
MAY										
07...	1715	9.5	81	28	6.1	82	88	93	98	100
15...	1605	12.0	56	5	.76	52	--	--	--	--

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

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	5	.02	14	2	.08	8.8	1	.02
2	1.4	5	.02	13	2	.07	8.8	1	.02
3	1.4	5	.02	13	2	.07	8.8	1	.02
4	1.2	5	.02	12	2	.06	8.8	1	.02
5	1.2	5	.02	12	1	.03	8.8	1	.02
6	5.6	11	.37	12	1	.03	8.5	1	.02
7	4.7	4	.12	25	9	.83	8.5	1	.02
8	3.6	1	.01	20	3	.16	8.2	1	.02
9	3.2	1	.01	15	2	.08	8.5	1	.02
10	7.8	4	.09	14	3	.11	8.2	1	.02
11	8.2	1	.02	14	4	.15	7.7	1	.02
12	5.8	1	.02	13	3	.11	7.2	1	.02
13	5.2	1	.01	13	2	.07	7.0	1	.02
14	6.1	1	.02	13	1	.04	7.0	0	0
15	6.4	0	0	14	1	.04	6.8	0	0
16	6.4	0	0	37	8	1.1	6.8	0	0
17	6.1	0	0	20	3	.16	6.8	0	0
18	5.5	0	0	16	3	.13	6.8	0	0
19	5.2	1	.01	13	2	.07	6.8	0	0
20	4.9	1	.01	12	2	.06	6.8	0	0
21	4.9	1	.01	11	2	.06	6.6	0	0
22	6.7	3	.05	11	1	.03	6.6	0	0
23	5.5	1	.01	10	1	.03	6.4	0	0
24	4.9	1	.01	10	1	.03	6.4	0	0
25	5.2	2	.03	10	1	.03	6.4	1	.02
26	97	96	34	10	1	.03	6.4	1	.02
27	28	4	.38	10	1	.03	6.4	1	.02
28	17	2	.09	9.2	1	.02	6.4	1	.02
29	15	2	.08	8.8	1	.02	6.4	1	.02
30	14	2	.08	8.8	1	.02	6.1	1	.02
31	14	2	.08	---	---	---	5.8	1	.02
MONTH	305.5	---	35.61	413.8	---	3.75	225.5	---	.40

10336676 Ward Creek at State Highway 89, near Tahoe Pines, Calif.--Continued

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

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.8	1	.02	4.6	1	.01	7.0	2	.04
2	5.8	1	.02	4.6	1	.01	6.5	2	.04
3	5.8	1	.02	4.6	1	.01	6.3	2	.03
4	5.8	1	.02	4.4	1	.01	6.2	2	.03
5	5.8	1	.02	4.4	1	.01	6.2	2	.03
6	5.8	1	.02	4.4	1	.01	6.2	2	.03
7	5.5	1	.01	4.4	1	.01	6.2	2	.03
8	5.2	1	.01	4.4	1	.01	6.2	2	.03
9	4.9	1	.01	4.4	1	.01	6.1	2	.03
10	5.2	1	.01	4.4	1	.01	6.2	2	.03
11	4.6	1	.01	4.2	1	.01	6.4	2	.03
12	4.6	1	.01	4.3	1	.01	6.5	2	.04
13	4.6	1	.01	4.3	1	.01	6.7	2	.04
14	4.6	1	.01	4.4	1	.01	7.3	2	.04
15	4.6	1	.01	4.6	1	.01	8.5	2	.05
16	4.9	1	.01	4.6	1	.01	9.6	2	.05
17	4.9	1	.01	4.6	1	.01	12	2	.06
18	4.9	1	.01	4.6	1	.01	12	2	.06
19	4.9	1	.01	4.4	1	.01	10	2	.05
20	4.7	1	.01	4.3	1	.01	9.0	2	.05
21	4.6	1	.01	4.4	1	.01	9.5	2	.05
22	4.5	1	.01	4.4	1	.01	13	2	.07
23	4.4	1	.01	4.4	1	.01	13	2	.07
24	4.4	1	.01	4.4	1	.01	13	2	.07
25	4.4	1	.01	4.4	1	.01	12	2	.06
26	4.4	1	.01	4.4	1	.01	12	2	.06
27	4.6	1	.01	4.6	1	.01	12	2	.06
28	4.6	1	.01	6.0	1	.02	12	2	.06
29	4.6	1	.01	7.8	1	.02	12	2	.06
30	4.6	1	.01	---	---	---	14	4	.15
31	4.6	1	.01	---	---	---	15	3	.12
MONTH	152.6	---	.37	133.7	---	.31	288.6	---	1.62

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14	2	.08	61	12	2.3	22	3	.18
2	15	3	.12	56	7	1.1	20	3	.16
3	18	4	.19	58	10	1.9	18	2	.10
4	19	4	.21	61	9	1.6	17	1	.05
5	20	2	.11	53	5	.72	16	1	.04
6	19	2	.10	48	3	.39	15	1	.04
7	20	4	.22	55	9	1.7	14	2	.08
8	21	3	.17	58	8	1.3	14	2	.08
9	19	3	.15	61	6	.99	14	4	.15
10	19	2	.10	59	7	1.1	14	3	.11
11	18	2	.10	62	8	1.3	13	3	.11
12	17	1	.05	59	6	.96	12	3	.10
13	16	1	.04	65	12	2.5	12	3	.10
14	16	1	.04	68	10	2.0	11	3	.09
15	16	1	.04	57	6	.92	10	3	.08
16	15	1	.04	54	4	.58	10	3	.08
17	15	1	.04	50	3	.41	9.6	3	.08
18	16	2	.09	45	2	.24	9.2	3	.07
19	22	5	.37	40	3	.32	8.8	3	.07
20	32	16	1.8	36	3	.29	8.5	3	.07
21	37	9	1.1	34	2	.18	7.9	3	.06
22	43	12	1.7	34	2	.18	7.6	3	.06
23	46	13	2.0	32	2	.17	7.0	3	.06
24	54	15	2.7	30	2	.16	6.4	3	.05
25	51	5	.69	30	2	.16	6.1	3	.05
26	39	3	.32	29	3	.23	5.5	3	.04
27	34	2	.18	29	3	.23	5.2	3	.04
28	32	3	.26	27	3	.22	4.9	3	.04
29	39	8	1.0	25	3	.20	4.6	3	.04
30	49	11	1.8	23	3	.19	4.4	3	.04
31	---	---	---	23	3	.19	---	---	---
MONTH	791	---	15.81	1422	---	24.73	327.7	---	2.32

10336676 Ward Creek at State Highway 89, near Tahoe Pines, Calif.--Continued

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

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.2	2	.02	2.5	7	.08	.64	2	0
2	3.9	2	.02	1.7	2	.01	.64	2	0
3	3.4	2	.02	1.1	1	0	.58	2	0
4	3.2	2	.02	1.0	1	0	.58	2	0
5	2.9	2	.02	1.0	1	0	.58	2	0
6	2.6	2	.01	.92	1	0	.58	2	0
7	2.4	2	.01	.92	1	0	.58	2	0
8	1.9	2	.01	.77	1	0	.58	2	0
9	1.9	2	.01	.70	1	0	.58	2	0
10	1.7	2	.01	.64	1	0	.70	4	.01
11	1.4	2	.01	.58	1	0	4.8	13	.18
12	1.4	2	.01	.52	1	0	2.2	3	.02
13	1.2	2	.01	.47	1	0	1.4	3	.01
14	1.1	2	.01	4.2	6	.12	1.2	3	.01
15	1.1	2	.01	16	42	2.3	1.1	3	.01
16	1.6	2	.01	5.8	3	.05	1.1	3	.01
17	1.6	2	.01	3.9	2	.02	1.1	3	.01
18	1.2	2	.01	3.4	2	.02	1.1	3	.01
19	1.1	1	0	3.4	2	.02	1.1	2	.01
20	.92	1	0	2.4	2	.01	1.0	2	.01
21	.78	1	0	1.9	2	.01	.92	2	.01
22	.70	1	0	2.4	2	.01	.92	2	.01
23	1.4	1	0	2.2	2	.01	.92	2	.01
24	1.2	1	0	1.6	2	.01	.92	2	.01
25	.92	1	0	1.4	2	.01	.92	2	.01
26	.77	1	0	1.2	2	.01	.84	2	0
27	.77	1	0	1.0	2	.01	.84	2	0
28	.77	1	0	.92	2	.01	.84	2	0
29	.70	1	0	.84	2	0	.84	2	0
30	.58	1	0	.77	2	0	.84	2	0
31	.64	1	0	.70	2	0	---	---	---
MONTH	40.95	---	.23	66.85	---	2.71	30.94	---	.34
YEAR	4208.14		88.20						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.5	---	0.5	---	---	1.5	---	---	---	---
2	---	---	---	---	---	---	7.0	6.0	12.0	---	19.0	---
3	---	---	---	---	---	---	---	9.0	13.0	---	---	---
4	---	---	---	---	---	---	---	8.5	9.0	---	---	---
5	---	---	3.0	---	---	0.0	---	7.0	---	---	---	---
6	7.5	---	---	---	---	---	---	7.5	---	---	---	---
7	7.0	---	---	---	---	---	6.5	9.0	---	---	---	---
8	---	---	---	0.0	---	1.0	---	8.0	---	16.0	---	---
9	---	---	0.5	---	---	---	7.0	6.0	7.5	16.0	18.5	---
10	---	---	---	---	0.0	---	---	9.5	---	---	---	14.5
11	---	0.0	---	---	---	---	---	10.0	---	---	---	---
12	---	---	---	---	---	---	6.0	11.0	---	---	---	---
13	---	---	---	---	---	---	---	9.5	---	---	14.5	---
14	6.0	3.0	---	1.0	---	---	8.0	8.0	---	21.5	12.0	15.0
15	6.5	---	---	---	---	---	---	12.0	---	---	10.0	---
16	---	2.5	---	---	---	1.5	---	12.5	13.0	---	---	---
17	---	---	0.0	---	---	---	4.0	11.5	---	---	---	---
18	---	---	---	---	1.0	---	---	9.0	---	---	---	---
19	---	---	---	---	---	---	10.0	5.0	---	---	---	---
20	---	---	0.0	---	---	---	8.5	12.0	---	---	---	---
21	---	---	---	---	---	---	8.0	10.5	---	---	---	---
22	---	---	---	---	---	---	2.0	---	---	---	---	---
23	---	---	---	---	---	2.0	7.0	6.0	17.0	14.5	---	---
24	3.0	0.0	---	---	---	---	3.0	12.5	---	---	---	14.5
25	---	---	---	---	---	---	5.0	5.5	---	---	---	---
26	3.0	---	---	0.0	1.0	---	4.0	8.5	---	---	---	---
27	3.0	---	---	---	---	---	5.5	14.5	---	---	---	---
28	---	---	---	---	---	---	6.5	---	---	---	---	---
29	---	---	0.5	---	---	---	9.0	---	---	---	---	---
30	---	---	---	1.0	---	6.0	10.5	---	---	---	10.5	---
31	4.0	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	9.0	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336710 Marlette Lake near Carson City, Nev.

LOCATION.--Lat 39°10'22", long 119°54'15", in SW¼SE¼ sec.12, T.15 N., R.18 E., Washoe County, on west shore, about 1,000 ft (300 m) upstream from left side of dam, and 7.5 mi (12.1 km) west of Carson City.

DRAINAGE AREA.--2.91 mi² (7.54 km²).

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

GAGE.--Water-stage recorder and LANDSAT data collection platform. Datum of gage is at mean sea level (spillway elevation furnished in written communication from Walter Reid, 1971).

EXTREMES.--Current year: Maximum contents, 11,800 acre-ft (14.5 hm³) Dec. 10-14, elevation, 7,838.0 ft (2,389.02 m); minimum, 10,980 acre-ft (13.5 hm³) for many days, elevation, 7,835.9 ft (2,388.38 m).

Period of record: Maximum contents, 11,800 acre-ft (14.5 hm³) Dec. 10-14, 1975, elevation, 7,838.0 ft (2,389.02 m); minimum, 10,980 acre-ft (13.5 hm³) for many days in 1976, elevation, 7,835.9 ft (2,388.38 m).

REMARKS.--Lake is formed by earthfill dam across the outlet of a small natural lake (at one time called Goodwin lake) on Marlette Creek, built in 1873 to provide water for fluming lumber from Spooner Summit to Carson City. The dam was built higher in 1876 and used to divert water by flume and siphon to Virginia City, until the flume was abandoned prior to 1963. The dam was raised to its present elevation in 1959. Present capacity, 11,790 acre-ft (14.5 hm³) at spillway elevation 7,838.0 ft (2,389.02 m). Figures given herein represent total contents. Stored water is used for spawning fish for Pyramid and Walker Lakes and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

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

7,835	10,650	7,837	11,410
7,836	11,030	7,838	11,790

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11680	11630	11740	11620	11400	11330	11080	11080	11140	11080	10990	10980
2	11680	11630	11750	11610	11390	11340	11060	11090	11140	11080	10990	10980
3	11680	11630	11760	11600	11380	11340	11060	11100	11140	11070	10990	10980
4	11670	11630	11760	11600	11410	11330	11050	11110	11140	11070	10990	10980
5	11670	11630	11770	11600	11410	11320	11040	11120	11140	11060	10990	10980
6	11690	11630	11770	11580	11420	11320	11020	11120	11130	11060	10990	10980
7	11690	11630	11780	11570	11410	11310	11010	11130	11130	11060	10990	10980
8	11690	11640	11790	11570	11400	11300	11000	11140	11130	11050	10990	10980
9	11690	11640	11790	11570	11420	11290	11000	11140	11140	11050	10990	10980
10	11700	11680	11800	11570	11410	11280	10990	11140	11140	11050	10980	10980
11	11710	11680	11800	11570	11390	11260	10980	11150	11140	11030	10980	10980
12	11710	11680	11800	11570	11390	11260	10980	11160	11140	11030	10980	10980
13	11710	11680	11800	11550	11380	11250	10980	11150	11130	11030	10980	10980
14	11710	11680	11800	11540	11380	11240	10980	11150	11130	11030	10980	10980
15	11710	11700	11790	11530	11380	11230	10980	11160	11130	11030	10980	10980
16	11710	11700	11790	11520	11370	11220	10990	11160	11130	11020	10980	11000
17	11710	11700	11790	11520	11360	11200	11000	11160	11130	11020	10980	11000
18	11660	11700	11760	11510	11340	11210	11000	11160	11130	11020	10980	11000
19	11660	11710	11750	11510	11370	11210	11010	11160	11130	11020	10980	11000
20	11660	11710	11730	11500	11360	11200	11020	11160	11110	11010	10980	11000
21	11630	11710	11710	11490	11350	11190	11020	11160	11120	11010	10980	11000
22	11630	11720	11710	11490	11340	11180	11030	11160	11120	11010	10980	10990
23	11630	11720	11700	11480	11330	11170	11040	11160	11120	11010	10980	10990
24	11630	11720	11700	11480	11320	11170	11050	11160	11120	11010	10980	10990
25	11630	11720	11700	11480	11310	11160	11050	11170	11110	11010	10980	10990
26	11630	11730	11680	11460	11300	11140	11060	11170	11110	11010	10980	10990
27	11630	11730	11680	11450	11290	11130	11060	11160	11110	11010	10980	10980
28	11630	11730	11650	11440	11280	11120	11070	11160	11100	11000	10980	10980
29	11630	11740	11650	11430	11330	11110	11080	11160	11090	11000	10980	10980
30	11630	11740	11650	11420	---	11100	11080	11150	11080	10990	10980	10980
31	11630	---	11620	11420	---	11080	---	11140	---	10990	10980	---
MAX	11710	11740	11800	11620	11420	11340	11080	11170	11140	11080	10990	11000
MIN	11630	11630	11620	11420	11280	11090	10980	11080	11080	10990	10980	10980
(†)	7837.57	7837.88	7837.55	7837.02	7836.79	7836.13	7836.14	7836.30	7836.13	7835.90	7835.88	7835.87
(‡)	-40	+110	-120	-200	-90	-250	0	+60	-60	-90	-10	0

CAL YR 1975 MAX 11800 MIN 11300 ‡ +250
WTR YR 1976 MAX 11800 MIN 10980 ‡ -690

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336715 Marlette Creek near Carson City, Nev.

LOCATION.--Lat 39°10'20", long 119°54'25", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.15 N., R.18 E., Washoe County, on left bank about 300 ft (90 m) below dam on Marlette Lake, 0.7 mi (1.1 km) upstream from Marlette Reservoir, and 7 mi (11 km) west of Carson City.

DRAINAGE AREA.--2.91 mi² (7.54 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 6.8 ft³/s (0.19 m³/s) Apr. 12, 13, gage height, 1.94 ft (0.601 m); minimum daily, 0.02 ft³/s (0.0006 m³/s) Oct. 1-20, June 25.

Period of Record: Maximum discharge, 8.5 ft³/s (0.24 m³/s) June 8, 9, 10, 1975, gage height, 2.23 ft (0.679 m); no flow July 12-15, 1975.

REMARKS.--Records good. Flow regulated by Marlette Lake.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.04	.07	5.0	5.0	5.2	6.7	.25	.07	.05	.04	.04
2	.02	.04	.07	5.0	4.9	4.7	6.6	.22	.06	.04	.05	.04
3	.02	.04	.07	5.0	4.9	4.6	6.6	.23	.05	.03	.05	.03
4	.02	.04	.07	5.0	4.9	4.5	6.7	.25	.05	.04	.05	.03
5	.02	.04	.07	5.2	4.9	4.4	6.7	.23	.06	.04	.05	.04
6	.02	.04	.07	5.2	4.9	4.3	6.7	.22	.05	.03	.05	.04
7	.02	.04	.07	5.4	5.0	4.3	6.6	.22	.04	.04	.05	.04
8	.02	.04	.07	5.5	5.0	4.3	6.7	.23	.03	.05	.05	.04
9	.02	.05	.15	5.5	5.3	4.3	6.7	.25	.03	.04	.04	.04
10	.02	.05	3.5	5.5	5.4	4.3	6.7	.22	.03	.04	.04	.04
11	.02	.05	5.2	5.5	5.4	4.6	6.7	.35	.03	.04	.04	.05
12	.02	.05	5.2	5.5	5.4	4.7	6.8	.46	.03	.04	.04	.04
13	.02	.05	5.2	5.4	5.3	4.9	2.8	.30	.03	.04	.04	.04
14	.02	.05	5.2	5.4	5.3	5.1	.28	.22	.03	.04	.04	.04
15	.02	.05	5.2	5.4	5.3	5.3	.28	.19	.03	.04	.04	.04
16	.02	.05	5.2	5.4	5.3	5.6	.28	.17	.03	.05	.05	.04
17	.02	.06	5.3	5.4	5.3	5.6	.25	.16	.03	.05	.05	.04
18	.02	.06	5.3	5.5	5.3	5.6	.25	.15	.03	.06	.05	.04
19	.02	.06	5.3	5.5	5.4	5.5	.26	.14	.03	.05	.05	.04
20	.02	.06	5.3	5.5	5.2	5.5	.28	.14	.04	.06	.05	.04
21	.04	.06	5.3	5.5	5.0	5.9	.28	.14	.05	.05	.05	.04
22	.04	.06	5.3	5.4	5.0	6.5	.28	.14	.04	.05	.05	.04
23	.04	.06	5.4	5.4	5.2	6.5	.29	.14	.05	.05	.05	.04
24	.04	.07	5.3	5.4	5.4	6.5	.29	.13	.04	.05	.05	.04
25	.04	.07	5.3	5.4	5.4	6.5	.22	.12	.02	.05	.04	.04
26	.04	.07	5.2	5.4	5.4	6.5	.22	.11	.03	.05	.04	.04
27	.04	.07	5.3	5.3	5.4	6.6	.24	.10	.04	.04	.04	.04
28	.04	.07	5.2	5.3	5.4	6.6	.25	.10	.04	.04	.04	.04
29	.04	.07	5.3	5.3	5.4	6.6	.25	.10	.05	.04	.04	.05
30	.04	.07	5.3	5.2	---	6.6	.25	.09	.05	.04	.04	.05
31	.04	---	5.2	5.0	---	6.7	---	.08	---	.04	.04	---
TOTAL	.84	1.63	114.71	165.4	151.0	168.8	87.45	5.85	1.19	1.37	1.40	1.21
MEAN	.027	.054	3.70	5.34	5.21	5.45	2.92	.19	.040	.044	.045	.040
MAX	.04	.07	5.4	5.5	5.4	6.7	6.8	.46	.07	.06	.05	.05
MIN	.02	.04	.07	5.0	4.9	4.3	.22	.08	.02	.03	.04	.03
AC-FT	1.7	3.2	228	328	300	335	173	12	2.4	2.7	2.8	2.4

CAL YR 1975 TOTAL 1087.87 MEAN 2.98 MAX 8.5 MIN 0 AC-FT 2160
WTR YP 1976 TOTAL 700.85 MEAN 1.91 MAX 6.8 MIN .02 AC-FT 1390

NOTE.--No gage-height record Oct. 1 to Dec. 9, Apr. 14 to May 11, May 14 to June 16.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 Trout Creek near Tahoe Valley, Calif.

LOCATION.--Lat 38°55'12", long 119°58'17", in NW¼SE¼ sec.3, T.12 N., R.18 E., El Dorado County, on left bank 5 ft (1.52 m) upstream from Martin Avenue Bridge, 500 ft (152 m) upstream from Heavenly Valley Creek, and 1.8 mi (2.9 km) east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi² (95.05 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (1,905 m), from topographic map.

AVERAGE DISCHARGE.--16 years, 36.9 ft³/s (1.045 m³/s), 26,730 acre-ft/yr (33.0 hm³/s).

EXTREMES.--Current year: Maximum discharge, 97 ft³/s (2.75 m³/s) Oct. 26, gage height, 7.42 ft (2.262 m); maximum gage height 7.69 ft (2.344 m) Mar. 8, backwater from ice; minimum daily, 6.1 ft³/s (0.17 m³/s) July 19-23, 26-30.

Period of record: Maximum discharge, 535 ft³/s (15.2 m³/s) Feb. 1, 1963, gage height, 11.14 ft (3.395 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of computation of peak flow (weir formula); no flow for part of Sept. 11, 1966.

REMARKS.--Records good except those for the winter period, which are fair. Minor diversion for local water supply.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	26	24	20	18	18	22	33	23	9.4	14	7.4
2	19	25	24	20	18	21	22	34	22	9.8	10	6.3
3	18	25	23	20	17	20	23	32	22	9.8	8.6	6.8
4	18	25	22	20	16	19	22	36	22	9.4	7.4	7.1
5	18	25	23	20	16	18	23	40	22	9.4	7.0	7.6
6	22	24	22	20	16	18	23	40	22	8.7	6.8	9.0
7	30	25	22	20	16	18	25	39	21	8.7	6.8	7.4
8	23	24	21	19	16	18	26	33	21	8.7	6.8	7.1
9	22	20	22	19	17	18	23	36	21	9.0	6.8	6.8
10	29	21	22	19	16	18	23	35	22	8.6	6.8	7.4
11	32	22	21	19	16	18	23	33	21	8.1	6.8	14
12	27	25	20	19	16	18	23	34	19	7.8	6.3	9.0
13	26	25	19	19	16	18	23	36	17	7.5	6.3	8.5
14	26	24	18	19	16	18	24	38	15	7.2	8.5	8.2
15	26	23	18	19	15	20	24	37	16	6.9	30	7.9
16	25	31	18	19	16	22	22	33	15	6.8	15	8.7
17	25	24	18	19	16	24	24	34	14	6.4	11	8.5
18	24	23	19	20	16	23	25	33	14	6.2	9.4	8.5
19	23	23	19	22	16	21	25	32	14	6.1	9.8	8.5
20	23	22	19	22	15	20	30	32	14	6.1	8.5	9.4
21	23	22	19	21	15	20	31	31	14	6.1	7.6	14
22	25	22	19	21	15	21	32	30	13	6.1	9.4	9.8
23	24	22	19	20	15	22	31	29	12	6.1	8.7	8.2
24	23	22	20	20	16	23	33	28	11	6.6	7.9	8.7
25	24	22	20	20	16	22	32	28	11	6.2	7.4	7.9
26	62	22	20	19	16	20	29	27	11	6.1	7.1	7.9
27	40	22	20	19	16	20	26	26	10	6.1	6.8	7.9
28	28	22	20	19	17	19	26	25	10	6.1	6.8	7.9
29	26	22	20	18	15	20	28	25	9.8	6.1	6.6	8.2
30	28	22	20	18	---	22	30	24	9.8	6.1	6.3	10
31	27	---	20	18	---	23	---	23	---	8.5	6.3	---
TOTAL	805	702	631	607	465	620	773	996	488.6	230.7	273.5	254.6
MEAN	26.0	23.4	20.4	19.6	16.0	20.0	25.8	32.1	16.3	7.44	8.82	8.49
MAX	62	31	24	22	18	24	33	40	23	9.8	30	14
MIN	18	20	18	18	15	18	22	23	9.8	6.1	6.3	6.3
AC-FT	1600	1390	1250	1200	922	1230	1530	1980	969	458	542	505
CAL YR 1975 TOTAL	15230.0											
WTR YR 1976 TOTAL	6846.4											
MEAN	41.7											
MAX	182											
MIN	62											
AC-FT	30210											
WTR YR 1976 AC-FT	13580											

Peak discharge (base 100 ft³/s).--No peaks above base.

10337000 Lake Tahoe at Tahoe City, Calif.

LOCATION.--Lat 39°10'51", long 120°07'06", in NE¼NE¼ (revised) sec.5, T.15 N., R.17 E., Placer County, on U.S. Coast Guard pier at Lake Forest, 1.1 mi (1.8 km) northeast of Tahoe City, and 1.8 mi (2.9 km) northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--503 mi² (1,303 km²), at lake outlet (revised).

PERIOD OF RECORD.--April 1900 to current year. Month-end elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft (1,895.856 m) above mean sea level, datum of Bureau of Reclamation, 6,218.86 ft (1,895.508 m), supplementary adjustment of 1959. Prior to Oct. 1, 1957, non-recording gages at several sites near outlet of lake at same datum. Oct. 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to Sept. 30, 1968, water-stage recorder on pier, 1,000 ft (300 m) east of dam at lake outlet.

EXTREMES.--Current year: Maximum elevation, 6,227.81 ft (1,898.236 m) Oct. 1; minimum, 6,225.53 ft (1,897.542 m) Sept. 30.
Period of record: Maximum elevation, 6,231.26 ft (1,899.288 m) July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft (1,896.386 m) Dec. 26, 1934.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given herein represent usable contents. Usable capacity, 744,600 acre-ft (918 hm³) between elevations 6,223 ft (1,896.8 m), natural rim of lake and 6,229.1 ft (1,898.63 m), maximum permissible elevation by Federal Court decree. Lake elevations are referred to Bureau of Reclamation datum because that datum is used as the official reference point by all local, State and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power.

REVISED RECORDS.--WRD 1967: Drainage area.

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

6,225	243,000	6,228	609,300
6,226	364,800	6,229	732,300
6,227	486,800		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.81	7.73	7.48	7.24	7.09	7.11	6.95	6.86	6.94	6.59	6.27	5.85
2	7.79	7.71	7.47	7.25	7.08	7.11	6.95	6.88	6.93	6.58	6.26	5.85
3	7.77	7.70	7.47	7.23	7.06	7.10	6.96	6.89	6.92	6.58	6.20	5.83
4	7.77	7.70	7.42	7.22	7.07	7.08	6.95	6.88	6.93	6.57	6.20	5.82
5	7.74	7.67	7.45	7.23	7.06	7.07	6.93	6.90	6.91	6.56	6.17	5.81
6	7.78	7.67	7.44	7.21	7.05	7.06	6.93	6.91	6.89	6.54	6.15	5.78
7	7.72	7.65	7.43	7.20	7.05	7.05	6.92	6.93	6.87	6.51	6.10	5.76
8	7.74	7.62	7.43	7.17	7.06	7.04	6.92	6.94	6.88	6.50	6.10	5.75
9	7.71	7.63	7.42	7.21	7.07	7.03	6.92	6.95	6.87	6.49	6.07	5.73
10	7.80	7.67	7.41	7.20	7.07	7.02	6.90	6.95	6.85	6.47	6.07	5.76
11	7.78	7.65	7.40	7.19	7.06	7.01	6.89	6.96	6.84	6.45	6.03	5.77
12	7.80	7.64	7.41	7.18	7.05	7.00	6.91	6.98	6.83	6.45	6.01	5.73
13	7.78	7.65	7.41	7.18	7.05	6.99	6.91	6.98	6.82	6.43	5.98	5.75
14	7.77	7.62	7.40	7.17	7.04	6.98	6.90	6.98	6.81	6.44	6.03	5.72
15	7.77	7.62	7.38	7.17	7.03	6.98	6.90	7.00	6.78	6.43	6.05	5.71
16	7.77	7.64	7.38	7.16	7.03	7.00	6.89	7.01	6.80	6.44	6.00	5.68
17	7.74	7.63	7.37	7.15	7.02	6.96	6.88	7.00	6.78	6.40	5.98	5.67
18	7.74	7.61	7.37	7.15	7.01	7.03	6.88	7.01	6.78	6.40	5.97	5.64
19	7.73	7.58	7.37	7.15	7.05	7.02	6.88	7.01	6.76	6.38	5.96	5.65
20	7.72	7.58	7.36	7.15	7.05	7.02	6.88	7.03	6.73	6.37	5.95	5.64
21	7.68	7.57	7.36	7.14	7.05	7.03	6.88	7.02	6.75	6.35	5.95	5.60
22	7.70	7.55	7.34	7.13	7.03	7.02	6.88	7.02	6.73	6.35	5.97	5.61
23	7.66	7.54	7.34	7.15	7.03	7.00	6.88	7.02	6.72	6.36	5.96	5.58
24	7.65	7.55	7.33	7.14	7.00	7.00	6.87	7.02	6.72	6.35	5.94	5.58
25	7.61	7.53	7.33	7.13	6.99	7.00	6.87	7.03	6.68	6.34	5.92	5.56
26	7.74	7.48	7.30	7.13	6.98	6.99	6.86	7.02	6.68	6.32	5.91	5.56
27	7.72	7.52	7.29	7.12	6.97	6.98	6.85	6.99	6.67	6.31	5.90	5.55
28	7.71	7.51	7.31	7.11	6.98	6.98	6.85	7.00	6.65	6.30	5.89	5.55
29	7.75	7.47	7.28	7.10	7.09	6.98	6.86	6.98	6.62	6.27	5.88	5.54
30	7.76	7.46	7.27	7.09	---	6.96	6.86	6.95	6.58	6.25	5.88	5.53
31	7.71	---	7.25	7.09	---	6.94	---	6.95	---	6.27	5.87	---
MEAN	7.74	7.61	7.38	7.17	7.04	7.02	6.90	6.97	6.79	6.42	6.02	5.69
MAX	7.81	7.73	7.48	7.25	7.09	7.11	6.96	7.03	6.94	6.59	6.27	5.85
MIN	7.61	7.46	7.25	7.09	6.97	6.94	6.85	6.86	6.58	6.25	5.87	5.53
(†)	573800	543100	517400	497800	497800	479500	469700	480700	435600	397700	348900	307600
(‡)	-15900	-30700	-25700	-19600	0	-18300	-9800	+11000	-45100	-37900	-48800	-41300
CAL YR 1975	MAX 683100	MIN 458700	‡ +53800									
WTR YR 1976	MAX 586000	MIN 307600	‡ -282100									

† CONTENTS, IN ACRE-FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

NOTE.--Add 6,220 ft to obtain elevation above mean sea level, Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

10337500 Truckee River at Tahoe City, Calif.

LOCATION.--Lat 39°09'59", long 120°08'36", in NE¼NW¼ sec.7, T.15 N., R.17 E., Placer County, on left bank 510 ft (155 m) downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--506 mi² (1,311 km²).

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

GAGE.--Water-stage recorder. Datum of gage is 6,216.75 ft (1,894.865 m) above mean sea level. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft (113 m) upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft (0.689 m) higher and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft (0.738 m) higher; all at site 270 ft (82 m) upstream.

AVERAGE DISCHARGE (unadjusted).--76 years (1900-76), 249 ft³/s (7.052 m³/s), 180,400 acre-ft/yr (222 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 616 ft³/s (17.4 m³/s) Aug. 1, gage height, 5.02 ft (1.530 m); minimum daily, 10 ft³/s (0.28 m³/s) Sept. 30.

Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) June 19, 1969, gage height, 9.32 ft (2.841 m); no flow for parts of many years.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft (918 hm³). There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin.

REVISED RECORDS.--WSP 2127: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	213	278	325	312	357	226	128	272	412	610	412
2	106	213	278	323	309	374	268	128	312	409	613	412
3	105	213	278	323	309	389	274	100	343	409	613	422
4	105	213	278	323	309	391	274	81	355	409	610	433
5	106	213	278	325	309	391	256	81	355	409	607	433
6	137	213	278	323	312	396	187	81	355	417	601	433
7	158	204	278	323	309	402	167	81	357	417	601	430
8	156	199	278	323	309	402	167	81	379	417	601	430
9	156	199	278	323	309	399	166	81	386	415	601	428
10	158	199	278	323	309	399	162	81	386	415	601	430
11	158	199	278	320	309	402	160	84	386	415	577	430
12	156	199	278	320	312	391	195	87	386	415	520	430
13	156	199	278	320	314	381	226	85	386	415	489	430
14	156	199	278	320	314	381	228	84	386	420	484	428
15	134	199	303	320	316	360	228	84	389	443	486	428
16	123	201	325	318	314	298	228	84	389	438	470	430
17	123	197	325	318	314	208	228	84	389	438	441	430
18	123	197	325	318	316	166	228	84	389	438	435	430
19	123	197	325	323	316	170	246	83	389	438	433	430
20	123	195	325	325	314	170	274	83	386	441	430	428
21	123	195	325	323	314	170	242	83	386	443	430	360
22	123	195	325	323	314	172	202	83	386	443	433	238
23	123	195	325	323	314	170	210	83	404	443	430	182
24	121	195	325	323	316	169	211	88	415	443	430	143
25	121	195	325	323	331	167	210	130	415	443	428	124
26	130	240	325	320	343	167	178	199	412	467	428	87
27	123	280	325	320	343	167	161	264	412	514	425	14
28	121	280	325	323	345	169	138	264	412	559	412	12
29	130	278	325	320	352	169	128	264	412	604	412	12
30	170	278	325	314	---	164	128	264	412	607	412	10
31	208	---	325	312	---	180	---	264	---	607	412	---
TOTAL	4162	6392	9395	9960	9207	8691	6196	3751	11441	14003	15475	9739
MEAN	134	213	303	321	317	280	207	121	381	452	499	325
MAX	208	280	325	325	352	402	274	264	415	607	613	433
MIN	105	195	278	312	309	164	128	81	272	409	412	10
AC-FT	8260	12680	18630	19760	18260	17240	12290	7440	22690	27770	30690	19320
CAL YR 1975	TOTAL	113315	MEAN 310	MAX 946	MIN 62	AC-FT 224800						
WTR YR 1976	TOTAL	108412	MEAN 296	MAX 613	MIN 10	AC-FT 215000						

PYRAMID AND WINNEMUCCA LAKES BASIN

207

10338500 Donner Creek at Donner Lake, near Truckee, Calif.

LOCATION.--Lat 39°19'25", long 120°14'00", in SW¼NW¼ sec.17, T.17 N., R.16 E., Nevada County, on left bank 10 ft (3 m) downstream from bridge on Donner Memorial State Park road, 0.2 mi (0.3 km) downstream from outlet of Donner Lake, 0.7 mi (1.1 km) upstream from Cold Creek, and 2.5 mi (4.0 km) west of Truckee.

DRAINAGE AREA.--14.6 mi² (37.8 km²).

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Altitude of gage is 5,930 ft (1,807 m), from topographic map. Nov. 1, 1909, to Aug. 31, 1910, non-recording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

AVERAGE DISCHARGE.--39 years (1929-35, 1936-37, 1939-42, 1943-52, 1955-57, 1958-76), 33.8 ft³/s (0.957 m³/s), 24,490 acre-ft/yr (30.2 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 131 ft³/s (3.71 m³/s) Oct. 6, 7, gage height, 3.12 ft (0.951 m); no flow, July 8.
Period of record: Maximum daily discharge, 700 ft³/s (19.8 m³/s) (estimated) Nov. 21, 1950; maximum gage height observed, 4.55 ft (1.387 m) Dec. 25, 1964; no flow at times in most years.

REMARKS.--Records good. Flow regulated by dam at outlet of Donner Lake, usable capacity, 9,500 acre-ft (11.7 hm³).

REVISED RECORDS.--WSP 2127: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	39	17	10	8.8	25	30	1.3	.78	.73	.78	2.4
2	121	36	17	9.7	8.8	27	30	1.2	.56	.90	1.5	2.2
3	119	33	17	9.5	9.0	28	30	1.0	.56	.34	1.9	2.4
4	115	33	16	9.2	8.2	26	31	1.2	.61	.58	1.1	2.9
5	108	32	17	9.8	11	25	32	1.1	.57	1.2	1.1	2.8
6	118	30	17	10	11	23	32	.91	.44	1.0	1.3	2.6
7	126	30	17	9.2	11	22	31	.90	.45	.25	1.3	2.5
8	124	31	16	9.4	11	21	34	.65	.72	0	1.3	2.7
9	123	30	16	10	11	20	34	.45	.94	.53	1.1	2.5
10	126	31	16	10	12	20	34	1.1	.85	1.2	1.1	2.4
11	122	29	15	10	12	20	34	1.1	.78	.27	.96	2.4
12	106	27	17	9.5	12	19	35	.93	.28	.88	.77	2.4
13	113	26	16	9.2	12	20	34	1.0	.08	2.7	1.2	3.2
14	115	25	15	9.2	13	20	33	.91	.68	2.1	.49	4.0
15	101	24	14	9.2	14	21	25	.69	.98	1.4	.27	4.0
16	87	32	14	9.1	13	22	8.1	.61	.90	1.1	.92	4.0
17	76	34	13	9.0	13	24	5.8	.70	.82	.87	1.6	3.7
18	65	32	13	8.8	13	28	5.8	.66	.63	.69	1.7	3.5
19	57	32	13	8.8	15	30	4.8	.83	.46	.73	1.6	3.4
20	50	30	12	8.8	15	30	3.8	.95	.35	1.2	1.5	3.3
21	45	28	12	8.7	14	29	3.1	.85	.16	1.5	1.4	3.3
22	40	26	13	8.3	14	31	2.8	.79	.55	1.3	1.3	3.3
23	35	24	13	8.5	13	32	2.2	.69	1.2	1.0	.52	3.3
24	32	23	13	8.8	13	33	1.9	.71	.97	.77	1.3	3.3
25	28	22	13	8.8	13	33	1.0	.76	.90	.53	.87	3.1
26	43	21	12	8.8	12	32	1.0	.72	.88	1.1	.92	2.9
27	53	20	12	9.2	12	31	1.5	.65	.59	1.8	1.3	2.7
28	50	20	12	8.8	12	30	1.9	.64	.84	1.3	1.3	2.8
29	47	19	12	8.8	19	29	2.2	.56	.95	.96	.30	2.9
30	44	17	12	8.8	---	28	1.9	.46	.47	.79	1.3	3.0
31	42	---	11	8.8	---	31	---	.47	---	.97	2.7	---
TOTAL	2554	836	443	284.7	355.8	810	526.8	25.49	19.95	30.69	36.70	89.9
MEAN	82.4	27.9	14.3	9.18	12.3	26.1	17.6	.82	.67	.99	1.18	3.00
MAX	126	39	17	10	19	33	35	1.3	1.2	2.7	2.7	4.0
MIN	28	17	11	8.3	8.2	19	1.0	.45	.08	0	.27	2.2
AC-FT	5070	1660	879	565	706	1610	1040	51	40	61	73	178
CAL YR 1975 TOTAL	15319.70			MEAN 42.0	MAX 274	MIN 1.1	AC-FT 30390					
WTR YR 1976 TOTAL	6013.03			MEAN 16.4	MAX 126	MIN 0	AC-FT 11930					

PYRAMID AND WINNEMUCCA LAKES BASIN

10339250 Martis Creek at Highway 267 near Truckee, Calif.

LOCATION.--Lat 39°18'08", long 120°07'13", in SW¼SW¼ sec.20, T.17 N., R.17 E., Placer County, 4.0 mi (6.4 km) southwest of Truckee. Water-quality samples are collected about 150 ft (50 m) downstream from State Highway 267. Thermograph records are obtained about 300 ft (90 m) upstream from highway, off north bank immediately downstream from confluence of main stem and Middle Martis Creek.

DRAINAGE AREA.--25.8 mi² (66.8 km²).

PERIOD OF RECORD.--Chemical analyses and sediment records: August 1973 to current year (data prior to Oct. 1974 are unpublished). Water temperatures: July 1973 to current year. (Data prior to Oct. 1974 are unpublished. Period of record for continuous-recording thermograph, July 1973 to Nov. 1974, Aug. 1975 to current year; intervening measurements were monthly.)

EXTREMES.--1975-76:

Water temperature: Maximum daily, 26.0°C July 10, 13; minimum daily, freezing point on many days during October to January.

Period of record:

Water temperature: Maximum daily, 26.0°C July 10, 13, 1976; minimum daily, freezing point on many days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.													
01...	1410	6.5	.01	.00	.01	.11	.13	.03	.02	14.5	1	5	.09
MAY													
05...	0940	7.5	.03	.00	.09	.31	.43	.02	--	7.0	3	12	.24
SEP.													
02...	0940	2.7	.01	.00	.02	.21	.24	.02	.01	9.5	2	4	.03

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT.											
01...	1410	0	0	250	90	<100	0	30	10	10	10
MAY											
05...	0940	<10	0	330	110	0	0	30	20	20	0
SEP.											
02...	0940	<10	0	290	170	<100	3	30	10	10	0

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

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 Martis Creek Lake near Truckee, Calif.

LOCATION.--Lat 39°19'38", long 120°06'48", in NE 1/4 sec. 17, T.17 N., R.17 E., Nevada County, in control house at Martis Creek Dam, 2.0 mi (3.2 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--March to May, 1972 (Occasional readings only) June 1972 to current year.

GAGE.--Water-stage recorder and a precipitation recorder. Datum of gage is at mean sea level (Corps of Engineers Project datum).

EXTREMES.--Current year: Maximum contents, 881 acre-ft (1.09 hm³) Mar. 17, elevation, 5,780.88 ft (1,762.012 m); minimum, 810 acre-ft (999,000 m³) on June 24, elevation, 5,779.91 ft (1,761.717 m).

Period of record: Maximum contents, 4,450 acre-ft (5.49 hm³) Apr. 2, 1974, elevation, 5,805.14 ft (1,769.407 m); minimum (after storage began), 810 acre-ft (999,000 m³) June 24, 1976, elevation, 5,779.91 ft (1,761.717 m).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-ft (25.2 hm³) between elevations 5,745 ft (1,751.1 m), streambed elevation at dam, and 5,838 ft (1,779.4 m), elevation of spillway crest. Figures given herein represent total contents, which include 817 acre-ft (1.01 hm³) of inactive storage below elevation 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

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

5,779	747	5,781	890
5,780	817		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	831	838	835	830	832	837	844	840	819	817	824	820
2	829	837	835	829	832	836	845	837	819	817	824	819
3	829	837	835	832	832	835	846	836	819	817	822	819
4	828	837	834	832	832	835	845	835	819	817	822	819
5	828	835	835	832	832	834	846	835	819	817	822	819
6	844	835	835	832	832	834	845	821	820	817	820	818
7	837	836	834	832	832	835	846	821	821	817	820	819
8	834	835	834	832	833	837	845	822	822	817	821	819
9	834	836	835	832	833	837	843	817	824	817	821	819
10	846	837	834	832	832	839	843	816	822	817	821	822
11	848	836	835	832	833	837	843	814	822	816	820	828
12	840	836	833	832	832	837	843	814	821	817	820	825
13	837	837	832	832	834	838	843	813	820	817	819	824
14	836	836	830	832	832	846	842	813	820	817	822	823
15	835	836	832	832	832	852	843	814	822	818	829	823
16	835	842	833	832	833	862	841	813	822	819	827	824
17	835	837	832	832	835	876	840	814	822	819	824	824
18	835	835	832	832	839	855	841	814	822	819	825	824
19	834	835	832	831	832	848	842	816	820	819	825	823
20	834	835	832	832	833	852	844	816	812	818	824	823
21	834	835	832	832	834	855	845	816	812	819	823	822
22	835	835	833	832	833	858	845	816	812	819	825	822
23	835	835	833	833	834	853	845	816	812	820	824	822
24	835	835	833	832	832	853	845	816	813	821	824	822
25	835	834	832	832	832	848	845	815	813	821	822	821
26	860	835	833	832	836	845	843	816	812	821	822	822
27	846	835	833	832	837	843	842	817	812	820	822	822
28	840	832	833	832	847	843	840	817	813	820	821	822
29	835	832	833	832	844	843	840	817	814	820	820	822
30	844	835	831	832	---	846	840	818	815	819	820	822
31	840	---	830	832	---	845	---	818	---	823	820	---
MAX	860	842	835	833	847	876	846	840	824	823	829	828
MIN	828	832	830	829	832	834	840	813	812	816	819	818
(†)	5,780.33	5,780.26	5,780.19	5,780.22	5,780.38	5,780.41	5,780.33	5,780.02	5,779.98	5,780.09	5,780.05	5,780.07
(‡)	+5	-5	-5	+2	+12	+1	-5	-22	-3	+8	-3	+2

CAL YR 1975 MAX 881 MIN 810 † -4
WTR YR 1976 MAX 876 MIN 812 † -13

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339380 Martis Creek Lake near Truckee, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1973 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDED SEDIM- ENT (MG/L)
OCT. 01...	1235	14	.01	.00	.12	.24	.37	.06	.00	15.0	10	30
MAY 05...	1125	14	.00	.00	.02	.15	.17	.02	--	11.5	3	5
SEP. 02...	1300	15	.00	.00	.04	.26	.30	.04	.02	17.5	3	2

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 01...	1235	0	0	1100	100	<100	0	240	30	--	10
MAY 05...	1125	<10	--	260	60	0	0	10	0	30	0
SEP. 02...	1300	<10	0	390	240	<100	3	40	20	20	0

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 Martis Creek near Truckee, Calif.

LOCATION.--Lat 39°19'44", long 120°07'00", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, on left bank 0.2 mi (0.3 km) downstream from Martis Creek Lake Dam, 1.8 mi (2.9 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (1,747 m), from topographic map. Prior to July 10, 1972, at site 1.0 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--18 years, 24.0 ft³/s (0.680 m³/s), 17,390 acre-ft/yr (21.4 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 55 ft³/s (1.56 m³/s) Mar. 17, gage height, 2.79 ft (0.850 m); minimum, 0.44 ft³/s (0.012 m³/s) Aug. 26, result of regulation at Martis Creek Lake Dam.

Period of record: Maximum discharge, 1,880 ft³/s (53.2 m³/s) Feb. 1, 1963, gage height, 6.16 ft (1.878 m); minimum, 0.44 ft³/s (0.012 m³/s) Aug. 26, 1976, result of regulation at Martis Creek Lake Dam.

REMARKS.--Records excellent. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

REVISED RECORDS.--WSP-2127: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	14	13	9.3	11	15	20	17	6.5	4.7	6.9	4.8
2	9.2	13	13	8.9	11	13	19	15	6.4	4.6	7.1	4.8
3	8.8	13	13	9.6	11	14	20	14	6.2	4.8	6.6	4.8
4	8.7	13	12	10	11	13	21	13	6.0	4.7	6.0	4.6
5	8.6	12	12	10	11	12	20	13	6.2	4.8	5.7	4.8
6	10	12	12	11	11	12	21	13	6.1	4.9	5.4	4.8
7	16	12	12	10	11	13	21	13	6.2	4.6	5.1	4.9
8	12	13	12	11	11	14	21	12	6.0	4.5	5.1	4.8
9	10	12	12	11	11	14	19	12	7.4	4.3	5.2	4.8
10	15	14	12	11	11	15	18	12	8.1	4.2	5.2	5.1
11	21	13	11	11	11	16	18	11	7.6	4.3	5.1	9.0
12	17	12	12	11	11	14	18	11	7.3	4.0	5.1	7.8
13	14	13	11	11	11	15	18	9.9	6.9	4.0	5.0	6.8
14	13	13	9.9	11	12	17	18	9.4	6.6	4.3	5.4	6.4
15	12	13	9.9	10	12	22	18	8.8	6.4	4.4	8.8	6.2
16	12	16	11	10	11	27	17	8.6	6.3	4.5	8.7	6.7
17	11	15	11	10	12	37	16	8.3	6.2	4.8	7.3	6.9
18	11	12	11	10	14	37	17	8.0	6.1	5.0	7.2	6.5
19	11	11	11	10	13	24	17	7.8	5.8	4.9	7.6	6.2
20	11	13	10	9.8	11	21	19	7.6	5.9	4.6	6.9	6.1
21	11	12	11	9.7	11	24	20	7.6	5.8	4.5	6.4	5.8
22	11	12	11	9.8	12	27	21	8.1	5.4	4.5	7.3	5.7
23	11	12	11	11	12	27	21	8.0	5.6	4.7	7.0	5.6
24	11	12	11	11	12	25	21	7.8	5.8	5.8	6.1	5.6
25	11	12	11	10	11	24	21	7.5	5.7	5.8	6.2	5.4
26	22	12	11	10	12	20	19	7.2	5.5	5.4	4.9	5.5
27	24	12	11	10	14	19	18	7.0	5.6	5.1	5.7	5.6
28	17	13	11	11	17	17	17	6.7	5.6	4.9	5.6	5.5
29	14	11	11	11	25	17	16	6.7	5.3	4.8	5.4	5.6
30	16	12	11	11	---	18	16	6.8	5.1	4.7	5.1	5.7
31	16	---	9.7	11	---	21	---	6.7	---	5.5	4.9	---
TOTAL	404.4	379	350.5	321.1	354	604	566	304.5	185.6	146.6	190.0	172.8
MEAN	13.0	12.6	11.3	10.4	12.2	19.5	18.9	9.82	6.19	4.73	6.13	5.76
MAX	24	16	13	11	25	37	21	17	8.1	5.8	8.8	9.0
MIN	8.6	11	9.7	8.9	11	12	16	6.7	5.1	4.0	4.9	4.6
AC-FT	802	752	695	637	702	1200	1120	604	368	291	377	343
CAL YR 1975	TOTAL	11275.6	MEAN	30.9	MAX	127	MIN	8.6	AC-FT	22370		
WTR YR 1976	TOTAL	3978.5	MEAN	10.9	MAX	37	MIN	4.0	AC-FT	7890		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339400 Martis Creek near Truckee, Calif.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses and sediment records: August 1973 to current year (data prior to Oct. 1974 are unpublished).
 Water temperatures: March 1960 to current year (unpublished data prior to Oct. 1974 include measurements made monthly of less frequently during March 1960 to June 1973, and thermograph measurements since June 1973).

EXTREMES.--1975-76:

Water temperature: Maximum daily, 22.0°C July 10, 12-15, 22, 24, 27; minimum daily, 1.0°C March 6, 8, 9, 14 (temperature may have been lower during periods of missing record in Dec. to Feb.).

Period of record (1973 to current year):

Water temperature: Maximum daily, 22.0°C July 10, 12-15, 22, 24, 27, 1976; minimum daily, 0.5°C on several days in January 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 01...	1135	8.9	.04	.00	.12	.38	.54	.05	.00	14.0	4	.19
MAY 05...	1230	13	.02	.00	.15	.26	.43	.05	--	13.0	3	.21
SFP. 02...	1105	4.8	.04	.00	.10	.32	.46	.06	.02	17.0	5	.06

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 01...	1135	0	0	570	90	<100	0	120	10	10	10
MAY 05...	1230	<10	0	340	50	0	0	20	0	20	0
SFP. 02...	1105	<10	0	510	220	<100	2	100	70	0	0

10339400 Martis Creek near Truckee, Calif.--Continued

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

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	12.5	7.5	5.5	5.0	3.5	5.0	3.5	5.0	3.0	3.5	1.5
2	16.0	13.0	7.5	5.5	5.0	3.5	5.0	3.0	5.0	3.0	3.0	1.5
3	15.5	13.0	8.0	5.5	5.5	3.5	4.5	3.5	5.5	3.0	3.5	1.5
4	16.0	13.0	8.0	6.0	5.5	3.5	5.0	3.0	4.0	3.0	3.5	1.5
5	15.5	12.5	8.0	6.0	5.5	4.0	4.5	3.5	4.5	2.5	3.5	1.5
6	14.0	12.5	8.0	6.0	4.5	3.5	5.0	3.0	4.0	3.0	4.0	1.0
7	13.5	11.5	7.5	6.0	5.0	3.5	5.0	3.0	4.5	3.0	3.5	1.5
8	13.5	11.0	7.5	5.5	5.0	3.5	5.0	3.0	4.0	3.0	4.0	1.0
9	13.0	11.0	7.0	5.0	5.0	3.5	4.5	3.0	3.5	2.5	3.5	1.0
10	12.5	10.5	6.0	5.0	5.0	3.5	4.5	3.0	4.5	2.0	3.5	1.5
11	11.5	10.0	6.0	4.5	5.0	3.5	5.0	3.0	4.5	2.5	3.5	1.5
12	10.5	9.5	6.0	4.0	5.0	3.5	4.5	2.5	4.5	2.5	4.0	1.5
13	11.0	9.0	6.5	4.5	4.0	3.0	5.0	3.0	3.5	2.0	4.0	1.5
14	10.5	8.5	6.0	4.5	3.5	2.5	5.0	3.0	4.0	2.5	4.0	1.0
15	11.0	8.5	5.5	4.5	---	---	5.0	2.5	4.0	2.5	4.0	2.0
16	11.0	8.5	5.5	4.5	---	---	5.0	3.0	4.5	2.5	4.0	2.0
17	11.0	8.5	5.0	3.5	---	---	3.5	3.0	4.5	2.5	4.0	2.0
18	11.0	8.5	5.0	3.0	---	---	---	---	3.5	3.5	3.5	2.0
19	11.0	8.0	4.5	2.5	---	---	---	---	---	---	3.5	2.5
20	11.0	8.5	4.5	3.0	---	---	---	---	---	---	4.0	2.0
21	11.5	8.5	4.5	2.5	---	---	---	---	---	---	4.0	2.0
22	10.5	8.0	5.0	3.0	---	---	---	---	---	---	4.0	2.0
23	9.5	7.5	5.0	3.0	---	---	---	---	---	---	4.0	2.5
24	9.0	7.0	5.0	3.5	---	---	---	---	---	---	4.0	2.5
25	9.0	6.5	5.0	3.5	---	---	---	---	---	---	4.5	2.0
26	8.0	6.5	5.0	3.5	---	---	---	---	---	---	5.0	2.0
27	8.0	6.5	4.5	3.5	---	---	---	---	---	---	4.0	4.0
28	8.0	6.0	4.5	3.0	---	---	---	---	---	---	---	---
29	8.0	6.0	4.0	2.5	---	---	---	---	---	---	---	---
30	7.0	5.5	4.5	3.5	---	---	5.0	3.5	---	---	7.5	5.5
31	7.5	5.5	---	---	5.0	3.5	5.0	3.0	---	---	7.0	5.0
MONTH	16.0	5.5	8.0	2.5	---	---	---	---	---	---	7.5	1.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	5.5	---	---	18.5	14.0	21.0	14.5	20.5	17.0	20.5	14.5
2	11.0	6.0	---	---	19.0	14.0	21.0	14.5	21.0	16.5	20.5	14.0
3	---	---	---	---	18.5	14.0	21.0	14.5	20.0	16.5	20.5	14.5
4	---	---	---	---	18.5	13.5	21.0	15.5	20.0	15.5	21.0	14.5
5	---	---	---	---	18.0	13.5	21.5	15.0	20.0	15.0	19.5	15.0
6	---	---	---	---	19.0	14.0	21.5	15.0	20.0	15.0	20.5	15.5
7	---	---	---	---	18.5	14.0	20.0	15.0	20.0	15.0	20.5	14.5
8	---	---	---	---	16.5	14.0	21.5	15.5	19.5	14.5	20.0	14.0
9	---	---	---	---	15.5	14.0	21.5	15.5	20.5	14.5	19.5	14.0
10	---	---	---	---	15.5	13.5	22.0	15.5	20.5	14.5	18.0	14.5
11	---	---	---	---	16.5	13.0	21.5	16.0	19.5	15.0	18.0	15.5
12	---	---	---	---	17.5	13.0	22.0	16.0	20.0	14.5	19.0	15.0
13	---	---	---	---	17.5	13.0	22.0	16.0	18.5	14.5	19.0	14.5
14	---	---	---	---	18.0	12.5	22.0	15.5	17.5	15.0	18.0	14.0
15	---	---	---	---	18.5	13.5	22.0	16.0	17.5	14.5	16.5	14.0
16	---	---	---	---	19.5	14.0	20.5	17.5	17.5	14.5	16.0	13.5
17	---	---	---	---	20.0	14.0	20.5	16.5	16.5	14.0	17.5	14.0
18	---	---	---	---	20.0	15.0	20.5	16.0	16.0	14.0	17.5	13.0
19	---	---	---	---	20.5	15.0	21.5	16.0	16.5	14.0	18.0	13.0
20	---	---	---	---	20.0	14.5	21.5	16.0	18.0	13.5	17.5	13.0
21	---	---	---	---	21.0	15.0	21.5	15.5	18.5	13.0	18.0	13.0
22	---	---	---	---	21.0	15.0	22.0	15.5	17.5	14.0	17.5	13.0
23	---	---	---	---	20.5	15.0	18.5	16.5	19.0	14.0	17.5	13.0
24	---	---	---	---	21.0	14.5	22.0	17.0	20.5	14.0	17.5	13.0
25	---	---	19.0	14.0	21.0	15.0	21.5	16.0	19.0	14.0	17.5	13.0
26	---	---	19.0	13.5	21.0	15.0	21.0	16.5	21.0	14.5	18.0	12.5
27	---	---	19.0	14.5	21.5	15.0	22.0	16.0	19.5	14.0	17.0	12.5
28	---	---	19.0	15.0	21.0	15.0	20.5	16.0	20.0	14.0	17.0	12.5
29	---	---	18.5	14.5	21.5	15.5	21.0	16.0	20.0	14.0	15.5	13.0
30	---	---	17.5	14.5	21.0	15.5	21.0	16.0	20.5	14.0	17.0	13.0
31	---	---	18.5	14.0	---	---	19.5	16.5	20.5	14.5	---	---
MONTH	---	---	---	---	21.5	12.5	22.0	14.5	21.0	13.0	21.0	12.5
YEAR	22.0	1.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

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10340300 Prosser Creek Reservoir near Boca, Calif.

LOCATION.--Lat 39°22'45", long 120°08'25", in NW¼SW¼ sec.30, T.18 N., R.17 E., Nevada County, in control house at Prosser Creek Dam on Prosser Creek, 1.5 mi (2.4 km) upstream from mouth, and 3 mi (5 km) west of Boca.

DRAINAGE AREA.--50.5 mi² (130.8 km²).

PERIOD OF RECORD.--January 1963 to current year.

GAGE.--Water-stage recorder with surface follower and telemark. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 11,530 acre-ft (14.2 hm³) May 21, elevation 5,711.4 ft (1,740.83 m); no usable contents Aug. 18 to Sept. 30; minimum elevation observed, 5,637.1 ft (1,718.19 m) Sept. 6-20.

Period of record: Maximum contents observed, 31,070 acre-ft (38.3 hm³) June 1, 1973, elevation 5,744.33 ft (1,750.872 m); no usable contents Aug. 18 to Sept. 30, 1976; minimum elevation observed, 5,637.1 ft (1,718.19 m) Sept. 6-20, 1976.

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft (35.3 hm³) between elevations, 5,660.6 ft (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm³), includes 83 acre-ft (102,000 m³) dead storage, below elevation 5,660.6 ft (1,725.35 m). Elevation of streambed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--Revised figures of contents and change of contents, in acre-ft, superseding figures published in WRD 1975, are given below:

MONTH-END ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet)	Contents (acre-ft)	Change in Contents (acre-ft)
Sept.30	5,718.2	14,560	--
Oct. 31	5,704.0	8,720	-5,840
Nov. 30	5,702.1	8,110	-610
Dec. 31	5,703.0	8,400	+290
CAL YR 1974	--	--	+200
Jan. 1	5,700.8	7,690	-710
Feb. 28	5,701.4	7,860	+170
Mar. 31	5,703.0	8,400	+540
Apr. 30	5,697.1	6,580	-1,820
May 31	5,711.1	11,400	+4,820
June 30	5,733.6	23,340	+11,940
July 31	5,730.6	21,370	-1,970
Aug. 31	5,727.0	19,210	-2,160
Sept.30	5,707.9	10,140	-9,070
WTR YR 1975	--	--	-4,420

MONTH-END ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in Contents (acre-ft)
Sept.30	5,707.9	10,140	--
Oct. 31	5,703.2	8,460	-1,680
Nov. 30	5,701.3	7,850	-610
Dec. 31	5,701.8	8,010	+160
CAL YR 1975	--	--	-390
Jan. 31	5,701.7	7,980	-30
Feb. 29	5,702.9	8,360	+380
Mar. 31	5,703.6	8,610	+250
Apr. 30	5,704.4	8,880	+270
May 31	5,711.2	11,450	+2,570
June 30	5,710.6	11,200	-250
July 31	5,679.8	2,560	-8,640
Aug. 31	5,639.1	0	-2,560
Sept.30	5,641.3	0	0
WTR YR 1976	--	--	-10,140

PYRAMID AND WINNEMUCCA LAKES BASIN

10340500 Prosser Creek near Boca, Calif.

LOCATION.--Lat 39°22'24", long 120°07'50", in NW¼NW¼ sec.31, T.18 N., R.17 E., Nevada County, on left bank 1.0 mi (1.6 km) upstream from mouth, 0.2 mi (0.3 km) downstream from Prosser Creek Dam, and 2.6 mi (4.2 km) southwest of Boca.

DRAINAGE AREA.--53.2 mi² (137.8 km²).

PERIOD OF RECORD.--October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Monthly discharge only for October 1942 to December 1950, published in WSP 1734. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Pt. 2, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 5,602.31 ft (1,707.584 m) above mean sea level (Bureau of Reclamation datum). April 1889 to November 1890 and October 1902 to June 1903, nonrecording gages at site 0.8 mi (1.3 km) downstream. October 1942 to December 1950, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum. June 1951 to September 1956, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 27.69 ft (8.440 m) lower. October 1956 to May 1976, water stage recorder at site 0.8 mi (1.3 km) downstream at datum 29.69 ft (9.050 m) lower.

AVERAGE DISCHARGE.--33 years (1942-50, 1951-76), 87.0 ft³/s (2.464 m³/s), 63,030 acre-ft/yr (77.7 hm³/yr). Adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 206 ft³/s (5.83 m³/s) July 19, gage height, 4.00 ft (1.219 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Sept. 22-30, result of draining of reservoir for fish regulation by Bureau of Reclamation in cooperation with California Department of Fish and Game.

Period of record: Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 23, 1955, gage height, 10.13 ft (3.088 m) present datum, from rating curve extended above 910 ft³/s (25.8 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft (3.35 m), from floodmarks (present datum), Nov. 20, 1950, discharge, 4,320 ft³/s (122 m³/s), by slope-area measurement; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Jan. 2, 1975, result of temporary closing of Prosser Creek Dam, for spillway maintenance by Bureau of Reclamation in Cooperation with California Department of Fish and Game.

REMARKS.--Records excellent. Flow regulated by Prosser Creek dam since Jan. 31, 1963.

REVISED RECORDS.--WSP 2127: Drainage area. See also PERIOD OF RECORD.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	113	21	31	10	12	60	100	78	9.6	115	6.8
2	119	113	31	31	10	17	60	101	54	9.2	90	2.4
3	116	101	31	31	10	26	60	67	38	9.2	75	12
4	116	90	31	31	11	39	60	37	38	9.2	75	9.2
5	115	56	31	31	10	38	84	51	38	28	75	8.8
6	67	30	31	31	10	38	101	63	38	59	73	8.8
7	32	19	31	19	10	38	101	70	38	104	72	8.4
8	32	10	31	10	10	38	101	76	37	152	71	8.0
9	32	10	31	10	25	39	87	77	37	175	71	8.0
10	32	33	31	10	35	39	76	58	36	196	70	8.4
11	32	56	31	10	35	39	76	39	36	193	69	19
12	32	56	31	10	35	39	76	59	36	193	68	17
13	31	56	31	10	36	38	76	80	36	193	66	12
14	31	56	31	24	36	39	76	80	37	177	64	11
15	53	56	31	35	36	39	76	81	37	167	64	11
16	68	57	31	35	36	40	76	81	37	177	63	11
17	67	56	31	35	36	56	76	55	36	185	62	10
18	67	56	31	35	37	65	76	39	36	183	61	10
19	67	56	31	35	37	98	76	40	36	193	60	9.6
20	67	56	31	35	36	123	76	40	36	200	31	8.8
21	67	56	31	35	36	123	55	79	36	171	17	3.0
22	46	56	31	35	37	86	37	107	36	152	18	.40
23	31	56	31	35	36	60	58	107	36	150	17	.40
24	31	56	19	35	36	60	76	92	36	148	17	.40
25	31	56	10	35	23	60	76	83	36	146	39	.40
26	32	41	10	21	11	60	91	83	36	144	54	.40
27	52	30	10	10	11	60	101	83	36	142	52	.40
28	68	19	10	10	13	60	81	58	36	141	49	.40
29	68	12	22	10	13	60	62	40	15	139	46	.40
30	69	10	31	10	---	60	84	40	9.6	125	41	.40
31	94	---	31	10	---	60	---	65	---	117	18	---
TOTAL	1895	1528	846	745	717	1649	2271	2131	1107.6	4187.2	1763	206.80
MEAN	61.1	50.9	27.3	24.0	24.7	53.2	75.7	68.7	36.9	135	56.9	6.89
MAX	130	113	31	35	37	123	101	107	78	200	115	19
MIN	31	10	10	10	10	12	37	37	9.6	9.2	17	.40
AC-FT	3760	3030	1680	1480	1420	3270	4500	4230	2200	8310	3500	410
CAL YR 1975 TOTAL	37017.02											
WTR YR 1976 TOTAL	19046.60											
MEAN	101											
MAX	720											
MIN	.02											
AC-FT	73420											
MEAN	52.0											
MAX	200											
MIN	.40											
AC-FT	37780											

	OBSERVED				ADJUSTED	
CAL YR 1975	MAX 720	MIN .02	MEAN 101	AC-FT 73420	MEAN 101	AC-FT 73030
WTR YR 1975-76	MAX 200	MIN .40	MEAN 52.0	AC-FT 37780	MEAN 38.1	AC-FT 27640

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LOCATION.--Lat 39°27'20", long 120°17'15", in NW¼ sec.35, T.19 N., R.15 E., Sierra County, on left bank 0.3 mi (0.5 km) downstream from Independence Lake outlet, 6.5 mi (10.5 km) northwest of Hobart Mills, and 10 mi (16 km) north-northwest of Truckee.

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,115 m), from topographic map. July 1, 1904, to June 30, 1910, water-stage recorder 75 ft (25 m) downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft (180 m) downstream at approximately same datum.

Period of record: Maximum discharge observed, 286 ft³/s (8.10 m³/s) June 23, 1907, gage height, 3.9 ft (1.19 m) site and then in use; no flow Sept. 28 to Nov. 10, 1905 and June 1, 1906.

REVISED RECORDS.-- WSP 2127: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	11	10	9.8	9.8	10	10	9.7	7.1	8.5	3.0	1.6
2	43	11	10	9.9	9.8	10	11	9.6	7.0	8.1	3.6	1.6
3	54	11	10	10	9.8	10	11	9.5	7.4	8.1	2.2	1.6
4	63	11	10	10	9.8	10	11	9.5	8.0	8.1	2.4	1.6
5	63	11	10	10	9.8	10	11	9.4	8.1	8.0	2.3	1.5
6	63	11	10	10	9.8	10	11	9.3	8.1	7.9	2.2	1.5
7	63	11	10	10	9.8	11	11	9.2	8.1	8.1	2.2	1.5
8	63	11	10	10	9.8	11	10	9.0	8.1	7.8	2.2	1.4
9	62	11	10	10	9.8	11	10	8.2	8.1	7.6	2.2	1.4
10	62	10	10	10	9.8	11	11	8.1	8.0	7.4	2.2	1.6
11	62	11	10	10	9.8	11	11	8.2	7.9	5.6	2.2	1.7
12	61	11	10	10	9.8	11	11	8.3	7.7	3.6	2.2	1.5
13	60	10	10	10	9.8	11	11	8.1	7.8	4.0	2.2	1.5
14	60	10	10	9.8	9.8	11	11	8.1	7.8	3.8	2.1	1.5
15	60	10	10	9.8	9.8	11	11	8.1	7.8	3.8	2.0	1.5
16	59	11	10	9.8	10	11	10	8.1	7.7	3.7	1.9	1.5
17	59	10	10	9.8	10	11	10	7.9	7.6	3.8	1.9	1.5
18	58	10	10	9.8	10	11	10	7.9	7.6	3.8	1.9	1.5
19	58	10	10	9.8	10	11	10	7.7	7.8	3.7	1.9	1.5
20	57	10	10	9.8	10	11	11	7.6	7.8	3.6	1.9	1.5
21	57	10	10	9.8	10	11	11	7.6	7.9	3.7	1.9	1.7
22	57	10	10	9.8	10	11	11	7.6	8.0	3.5	1.9	1.6
23	34	10	10	9.8	10	11	11	7.6	8.1	3.5	1.8	1.5
24	14	10	10	9.8	10	11	12	7.8	8.0	3.5	1.8	1.5
25	13	10	10	9.8	10	11	11	7.7	8.3	3.4	1.7	1.5
26	14	10	10	9.8	10	11	11	7.3	8.4	3.4	1.7	1.5
27	13	10	10	9.8	10	11	10	7.9	8.4	3.3	1.6	1.7
28	12	10	10	9.8	10	10	9.8	7.5	8.6	3.2	1.6	1.6
29	12	10	10	9.8	10	10	9.4	7.4	8.6	3.1	1.6	1.6
30	11	9.9	10	9.8	---	11	9.6	7.3	8.3	3.0	1.7	1.6
31	11	---	9.8	9.8	---	11	---	7.1	---	3.0	1.7	---
TOTAL	1421	311.9	309.8	306.1	287.0	333	318.8	254.3	238.1	155.6	63.7	46.3
MEAN	45.8	10.4	9.99	9.87	9.90	10.7	10.6	8.20	7.94	5.02	2.05	1.54
MAX	63	11	10	10	10	11	12	9.7	8.6	8.5	3.6	1.7
MIN	11	9.9	9.8	9.8	9.8	10	9.4	7.1	7.0	3.0	1.6	1.4
AC-FT	2820	619	614	607	569	661	632	504	472	309	126	92
WAL YR 1975	TOTAL	9102.0	MEAN 24.9	MAX 167	MIN 5.2	AC-FT 18050						
CAL YR 1976	TOTAL	4045.6	MEAN 11.1	MAX 63	MIN 1.4	AC-FT 8020						

10343500 Sagehen Creek near Truckee, Calif.

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T.18 N., R.16 E., Nevada County, on left bank 2.2 mi (3.5 km) upstream from bridge on State Highway 89, and 7.5 mi (12.1 km) north of Truckee.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft (30 m) upstream at different datum.

AVERAGE DISCHARGE.--23 years, 12.5 ft³/s (0.354 m³/s), 9,060 acre-ft/yr (11.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 42 ft³/s (1.19 m³/s) Oct. 26, gage height, 2.51 ft (0.765 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Sept. 1-9.

Period of record: Maximum discharge, 765 ft³/s (21.7 m³/s) Feb. 1, 1963, gage height, 4.64 ft (1.414 m), from floodmarks, from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement at gage height 4.28 ft (1.305 m); minimum, 0.6 ft³/s (0.017 m³/s) Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	5.4	4.1	3.1	3.6	4.4	6.9	18	4.5	2.4	2.5	1.7
2	2.8	5.3	4.1	3.2	3.6	4.3	7.8	17	4.3	2.3	2.3	1.7
3	2.8	5.2	4.1	3.3	3.6	4.2	8.9	17	4.1	2.3	2.1	1.7
4	2.8	5.0	4.0	3.3	3.6	4.1	9.8	16	4.0	2.3	2.0	1.7
5	2.8	4.8	4.4	3.4	3.6	4.2	11	16	3.9	2.2	2.0	1.7
6	7.2	4.6	4.2	3.4	3.6	4.0	10	14	3.8	2.1	1.9	1.7
7	5.3	5.1	4.0	3.3	3.6	4.1	11	14	3.8	2.1	1.9	1.7
8	3.6	4.6	3.9	3.4	3.6	4.2	10	14	3.7	2.0	1.9	1.7
9	3.4	4.1	3.8	3.5	3.7	4.3	9.6	14	5.2	2.0	1.9	1.7
10	8.4	4.4	3.8	3.5	3.5	4.6	11	13	4.5	2.0	1.9	1.8
11	7.0	4.3	3.8	3.5	3.5	4.5	10	12	4.1	2.0	1.9	3.6
12	5.1	4.3	3.8	3.4	3.7	4.3	9.2	11	3.9	1.9	1.8	2.2
13	4.5	4.6	3.9	3.4	3.7	4.3	8.5	11	3.7	1.9	1.8	2.1
14	4.2	4.7	3.7	3.5	3.8	4.7	9.1	11	3.4	1.9	3.2	2.0
15	4.1	5.8	3.7	3.5	3.8	5.1	8.6	9.6	3.3	1.9	6.1	1.9
16	3.9	12	3.7	3.5	3.8	6.2	7.5	9.1	3.1	2.1	2.7	2.0
17	3.7	5.9	3.6	3.5	3.8	7.6	7.7	8.5	3.0	2.1	2.5	2.0
18	3.6	4.7	3.5	3.3	3.8	6.6	9.0	7.9	3.0	2.0	3.2	1.9
19	3.5	4.3	3.5	3.2	3.7	5.7	12	7.4	2.9	1.9	3.0	1.9
20	3.4	4.3	3.5	3.2	3.6	5.5	15	7.0	2.8	1.9	2.4	1.8
21	3.4	4.0	3.5	3.2	3.7	5.9	15	6.7	2.8	1.8	2.2	1.8
22	3.9	4.0	3.7	3.2	3.8	7.1	16	6.5	2.8	1.8	2.8	1.8
23	3.7	4.0	3.7	3.4	3.8	7.1	17	6.1	2.7	2.3	2.3	1.8
24	3.6	4.0	3.8	3.4	3.8	7.3	19	5.9	2.6	2.2	2.2	1.8
25	3.8	4.0	3.7	3.4	3.8	6.6	17	5.6	2.6	2.0	2.0	1.8
26	24	4.0	3.7	3.3	3.8	5.9	14	5.3	2.5	1.9	2.0	1.8
27	8.7	4.1	3.8	3.4	4.0	5.8	12	5.1	2.5	1.8	1.9	1.8
28	6.1	3.9	3.8	3.5	4.8	5.9	12	4.9	2.4	1.8	1.9	1.8
29	5.2	3.9	3.8	3.6	5.4	6.3	14	4.8	2.3	1.8	1.9	1.8
30	5.8	4.0	3.7	3.6	---	7.7	16	4.7	2.3	1.8	1.8	1.9
31	5.6	---	3.3	3.5	---	7.5	---	5.0	---	2.1	1.8	---
TOTAL	158.7	143.3	117.6	104.9	110.1	170.0	344.6	308.1	100.5	62.6	71.8	56.6
MEAN	5.12	4.78	3.79	3.38	3.80	5.48	11.5	9.94	3.35	2.02	2.32	1.89
MAX	24	12	4.4	3.6	5.4	7.7	19	18	5.2	2.4	6.1	3.6
MIN	2.8	3.9	3.3	3.1	3.5	4.0	6.9	4.7	2.3	1.8	1.8	1.7
AC-FT	315	284	233	208	218	337	684	611	199	124	142	112

CAL YR 1975 TOTAL 5040.5 MEAN 13.8 MAX 105 MIN 2.8 AC-FT 10000
WTR YR 1976 TOTAL 1748.8 MEAN 4.78 MAX 24 MIN 1.7 AC-FT 3470

Peak discharge (base, 50 ft³/s).--No peaks above base.

PYRAMID AND WINNEMUCCA LAKES BASIN

219

10344300 Stampede Reservoir near Boca, Calif.

LOCATION.--Lat 39°28'24", long 120°06'06", in SW¼NW¼ sec.28, T.19 N., R.17 E., Sierra County, in control house on Stampede Dam on Little Truckee River, just downstream from mouth of Davies Creek and 6.2 mi (10.0 km) north of Boca.

DRAINAGE AREA.--136 mi² (352 km²).

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

GAGE.--Water-stage recorder with mercury-column manometer. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents, 148,300 acre-ft (183 hm³) Oct. 1, 2, elevation, 5,923.1 ft (1,805.36 m); minimum, 58,440 acre-ft (72.1 hm³) Sept. 30, elevation, 5,878.8 ft (1,791.86 m).

Period of record: Maximum contents, 226,500 acre-ft (279 hm³) June 19, 21, 1974, elevation, 5,948.7 ft (1,813.16 m); minimum, (since July, 1971), 58,440 acre-ft (72.1 hm³) Sept. 30, 1976, elevation, 5,878.8 ft (1,791.86 m).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft (279 hm³) at elevation 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm³), includes 660 acre-ft (814,000 m³) dead storage, below elevation 5,798.3 ft (1,767.32 m). Elevation of streambed at dam axis, 5,737.0 ft (1,748.64 m). Figures given herein represent total contents. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by the Bureau of Reclamation.

MONTH-END ELEVATIONS AND TOTAL CONTENTS AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in Contents (acre-ft)
Sept.30	5,923.3	148,800	--
Oct. 31	5,921.8	144,800	-4,000
Nov. 30	5,922.4	146,400	+1,600
Dec. 31	5,922.6	147,000	+600
CAL YR 1975	--	--	-32,600
Jan. 31	5,922.8	147,500	+500
Feb. 29	5,923.0	147,900	+400
Mar. 31	5,922.0	145,300	-2,600
Apr. 30	5,913.6	124,200	-21,100
May 31	5,904.5	103,700	-20,500
June 30	5,898.8	92,250	-11,450
July 31	5,892.7	80,780	-11,470
Aug. 31	5,884.2	66,550	-14,230
Sept.30	5,878.8	58,440	-8,110
WTR YR 1975-76	--	--	-90,360

PYRAMID AND WINNEMUCCA LAKES BASIN

10344400 Little Truckee River above Boca Reservoir, near Boca, Calif.

LOCATION.--Lat 39°26'10", long 120°05'00", in SW¼SW¼ sec. 3, T.18 N., R.17 E., Nevada County, on left bank 1 mi (2 km) upstream from Boca Reservoir, 1.5 mi (2.4 km) upstream from Dry Creek, 3.0 mi (4.8 km) downstream from Stampede Dam on Little Truckee River, and 3.5 mi (5.6 km) north of Boca.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station" June 1903 to December 1907 and as "at Starr" January 1908 to October 1910.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft (1,712.571 m) above mean sea level (Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

AVERAGE DISCHARGE.--44 years (1903-10, 1939-76), 192 ft³/s (5.437 m³/s), 139,100 acre-ft/yr (172 hm³/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 664 ft³/s (18.8 m³/s) May 5-7, gage height, 2.28 ft (0.695 m); minimum, 15.0 ft³/s (0.42 m³/s) Sept. 15.

Period of record: Maximum discharge, 13,300 ft³/s (377 m³/s) Feb. 1, 1963, gage height, 9.00 ft (2.743 m) from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope area measurement of peak flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 16-21, 1969.

REMARKS.--Records excellent. Flow regulated by Independence Lake, capacity, about 17,500 acre-ft (21.6 hm³), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm³).

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used 1903-7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	35	34	33	41	74	261	544	313	200	298	159
2	159	35	34	32	41	73	294	544	244	190	298	151
3	158	35	34	32	41	74	348	587	230	175	298	151
4	157	34	34	33	41	73	348	640	217	175	297	151
5	157	34	34	33	41	73	323	643	201	185	297	151
6	159	34	34	33	41	73	293	664	200	199	296	143
7	159	34	34	33	41	73	293	621	190	199	293	130
8	158	34	34	33	41	73	293	573	179	166	293	142
9	158	34	34	34	44	74	446	573	188	111	293	154
10	160	35	34	34	41	74	537	573	200	82	293	154
11	160	34	34	33	41	91	537	573	200	81	293	144
12	158	34	34	33	46	110	526	573	200	81	293	131
13	157	34	34	33	51	110	509	573	200	81	293	131
14	157	34	34	33	51	111	507	529	200	103	293	131
15	157	34	34	34	51	111	508	464	200	151	243	92
16	157	35	34	34	51	112	504	464	117	159	195	134
17	157	35	34	34	51	112	503	450	199	172	196	138
18	157	34	34	34	51	112	503	437	210	172	184	151
19	157	34	34	34	52	110	503	447	229	172	176	151
20	157	34	34	34	51	110	503	452	229	171	176	151
21	157	34	34	34	51	110	503	403	216	199	176	151
22	157	34	34	34	51	110	503	343	200	242	176	151
23	157	34	34	34	51	110	526	343	188	242	176	151
24	157	34	34	34	51	111	551	343	172	242	174	151
25	99	34	34	34	51	154	551	343	172	242	174	151
26	159	34	34	34	51	203	572	343	172	253	174	150
27	157	34	34	33	52	249	595	312	172	271	172	150
28	157	34	34	33	53	293	600	293	184	283	172	150
29	157	34	34	33	67	293	602	293	200	298	172	150
30	102	34	34	34	---	293	575	293	200	298	172	149
31	36	---	33	38	---	293	---	308	---	298	172	---
TOTAL	4654	1026	1053	1041	1387	4042	14117	14541	6022	5893	7208	4344
MEAN	150	34.2	34.0	33.6	47.8	130	471	469	201	190	233	145
MAX	160	35	34	38	67	293	602	664	313	298	298	159
MIN	36	34	33	32	41	73	261	293	117	81	172	92
AC-FT	9230	2040	2090	2060	2750	8020	28000	28840	11940	11690	14300	8620
CAL YR 1975 TOTAL	89021											
WTR YR 1976 TOTAL	65328											
MEAN 244												
MAX 996												
MIN 33												
AC-FT 176600												
MEAN 178												
MAX 664												
MIN 32												
AC-FT 129600												

OBSERVED

ADJUSTED

CAL YR 1975	MAX 996	MIN 33	MEAN 224	AC-FT 176,600	MEAN 199	AC-FT 144,000
WTR YR 1975-76	MAX 664	MIN 32	MEAN 178	AC-FT 129,600	MEAN 54.1	AC-FT 39,240

PYRAMID AND WINNEMUCCA LAKES BASIN

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10344490 Boca Reservoir at Boca, Calif.

LOCATION.--Lat 39°23'20", long 120°05'45", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, in control house at Boca Dam on Little Truckee River, 1,800 ft (550 m) upstream from mouth, and 0.5 mi (0.8 km) northwest of Boca.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--December 1938 to current year. Month-end contents only for December 1938 to September 1957, published in WSP 1734.

GAGE.--Pressure gage with mercury column read once daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents, 37,900 acre-ft (46.7 hm³) Aug. 22-24, elevation, 5,601.8 ft (1,707.43 m); minimum, 25,270 acre-ft (31.2 hm³) Nov. 7-11, elevation 5,587.2 ft (1,702.98 m).

Period of record: Maximum contents, 41,440 acre-ft (51.1 hm³) Dec. 23, 1955, elevation, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m³) Mar. 4-9, 1955, elevation, 5,521.65 ft (1,682.999 m).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft (50.4 hm³) between elevations 5,521 ft (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m) top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m³), below outlet sill. Figures given herein represent usable contents. Water is used for irrigation in the State of Nevada and for power development.

COOPERATION.--Daily elevations furnished by Washoe County Water Conservation District.

REVISED RECORDS.--WSP 1634: Drainage area.

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

5,580	20,000	5,600	36,150
5,590	27,510	5,605	40,870

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37240	26130	26280	27000	28140	30400	32370	31850	30320	29900	32720	37330
2	36870	25970	26280	27160	28140	30660	32280	32020	30150	29810	33420	37330
3	36680	25730	26280	27160	28140	30830	32280	32020	30150	29720	33690	37240
4	36310	25580	26280	27160	28220	31000	32280	32110	30150	29640	34130	37050
5	36040	25420	26280	27160	28300	31090	32280	32280	30060	29470	34490	36960
6	35760	25420	26280	27160	28300	31180	32280	32370	29980	29470	37760	36770
7	35400	25270	26280	27080	28300	31350	32280	32370	29980	29640	35120	36680
8	35940	25270	26360	27160	28300	31520	32280	32460	29810	29640	35490	36590
9	34670	25270	26360	27160	28300	31700	32200	32460	29980	29720	35670	36500
10	34400	25270	26360	27160	28300	31850	31940	32460	29980	29810	36220	36500
11	34040	25270	26360	27160	28300	32020	31850	32460	30060	29720	36500	36500
12	33690	25340	26360	27160	28470	32200	31850	32460	30150	29810	36870	36400
13	33420	25420	26360	27160	28550	32370	31850	32460	30150	29810	36870	36310
14	32980	25500	26360	27160	28640	32540	31760	32460	30230	29890	37050	36310
15	32720	25580	26360	27160	28800	32630	31700	32370	30230	29890	37240	36220
16	32370	25660	26360	27330	28880	32720	31610	32370	30320	29890	37330	36130
17	32020	25730	26360	27330	28970	32720	31610	32280	30230	29890	37430	36040
18	31700	25730	26360	27330	29140	32810	31520	32110	30150	29810	37610	36040
19	31350	25730	26520	27410	29140	32810	31520	32020	30150	29810	37710	36040
20	31000	25890	26520	27490	29300	32810	31440	32020	30230	29810	37800	36130
21	30660	25970	26680	27490	29390	32720	31350	32020	30320	29890	37800	35940
22	30320	26050	26680	27570	29470	32720	31350	31850	30320	29980	37900	35580
23	29890	26050	26840	27650	29640	32720	31350	31700	30320	30150	37900	35120
24	29470	26050	26840	27810	29640	32720	31520	31520	30230	30230	37900	34670
25	28970	26130	26840	27810	29810	32720	31520	31440	30150	---	37800	34050
26	28800	26210	26840	27810	29890	32720	31520	31180	30150	30570	37800	33340
27	28300	26210	26840	27980	29980	32630	31520	31000	30150	30750	37710	32630
28	27810	26210	26840	28060	30150	32540	31700	30830	29980	31000	37610	31850
29	27410	26210	26840	28060	30320	32460	31700	30750	29980	31350	37610	31180
30	27000	26210	26840	28140	---	32370	31760	30660	29980	31000	37520	30320
31	26440	---	26840	28140	---	32370	---	30490	---	32200	37430	---
MAX	37240	26210	26840	28140	30320	32810	32370	32460	30320	---	37900	37330
MIN	26440	25270	26280	27000	28140	30400	31350	30490	29810	---	32720	30320
(†)	5588.70	5588.45	5589.20	5590.75	5593.35	5595.80	5595.10	5593.55	5593.00	5595.65	5601.45	5593.40
(‡)	-10990	-230	+630	+1300	+2180	+2050	-610	-1270	-510	-745	-523	-711

CAL YR 1975 MAX 41160 MIN 24340 ‡-3820

WTR YR 1976 MAX 37900 MIN 25270 ‡-7110

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET

PYRAMID AND WINNEMUCCA LAKES BASIN

10344500 Little Truckee River at Boca, Calif.

LOCATION.--Lat 39°23'10", long 120°05'40", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, on right bank 800 ft (250 m) upstream from mouth, 1,000 ft (300 m) downstream from Boca Dam, and 0.3 mi (0.5 km) northwest of Boca.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m), from topographic map. Jan. 1, 1911, to Sept. 30, 1915, non-recording gage at site 650 ft (200 m) downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

AVERAGE DISCHARGE.--41 years (1911-15, 1939-76), 188 ft³/s (5.324 m³/s), 136,200 acre-ft/yr (168 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 632 ft³/s (17.9 m³/s) May 6, 7, gage height, 3.77 ft (1.149 m); minimum, 0.52 ft³/s (0.015 m³/s) Dec. 17-24.

Period of record: Maximum discharge, 8,800 ft³/s (249 m³/s) Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

REMARKS.--Records excellent. Flow regulated by Boca Reservoir, capacity, 40,870 acre-ft (50.4 hm³), Independence Lake, capacity, about 17,500 acre-ft (21.6 hm³), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm³) since Aug. 1, 1969.

REVISED RECORDS.--WSP 1564: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	153	29	.58	27	1.6	268	499	354	215	70	180
2	300	147	29	18	31	1.6	302	499	277	215	39	182
3	299	139	25	34	35	1.6	347	535	254	218	31	205
4	299	107	26	34	35	1.7	347	562	241	233	88	215
5	298	101	33	35	35	1.7	324	594	229	218	133	215
6	308	57	33	35	35	1.7	305	629	229	191	138	188
7	325	30	33	35	35	1.7	305	612	212	155	127	162
8	329	29	33	35	35	1.7	324	582	169	114	119	162
9	329	29	33	35	27	1.7	528	576	165	75	119	161
10	328	29	33	35	21	1.7	576	575	172	41	119	164
11	327	29	32	35	12	1.8	556	573	172	46	144	163
12	326	17	30	35	1.3	29	530	566	170	46	211	165
13	326	.90	30	35	1.3	57	506	566	176	47	228	165
14	325	.90	30	21	1.4	52	515	526	176	87	222	165
15	324	.90	30	.70	1.4	86	525	473	191	150	167	155
16	323	.92	30	.70	1.4	107	525	470	197	161	125	142
17	323	.81	15	.72	1.4	112	524	458	197	166	124	141
18	325	.68	.53	.73	1.4	122	524	447	195	167	136	143
19	328	.58	.53	.76	1.4	122	524	447	195	149	150	143
20	328	.58	.53	.76	1.4	122	524	440	194	139	158	208
21	328	.58	.53	.76	1.4	122	516	423	195	170	166	286
22	339	.58	.53	.76	1.4	122	500	405	195	195	166	348
23	350	.58	.53	.78	1.4	122	496	403	195	175	183	381
24	349	.58	17	.83	1.4	122	496	403	195	158	197	421
25	348	.58	33	.83	12	173	496	408	195	152	195	448
26	347	18	33	9.8	25	251	533	424	195	163	195	470
27	347	28	33	17	1.5	305	558	392	195	137	195	520
28	345	27	33	17	1.5	324	559	345	195	127	195	504
29	344	29	16	17	1.6	324	559	323	195	93	195	536
30	343	29	.57	22	---	324	525	359	211	70	210	567
31	258	---	.58	27	---	324	---	386	---	70	217	---
TOTAL	10068	1007.17	673.33	540.71	387.6	3340.5	14117	14900	6131	4343	4762	7905
MEAN	325	33.6	21.7	17.4	13.4	108	471	481	204	140	154	264
MAX	350	153	33	35	35	324	576	629	354	233	228	567
MIN	258	.58	.53	.58	1.3	1.6	268	323	165	41	31	141
AC-FT	19970	2000	1340	1070	769	6630	28000	29550	12160	8610	9450	15680
CAL YR 1975 TOTAL	97225.52			MEAN 266	MAX 901	MIN .53	AC-FT 192800					
WTR YR 1976 TOTAL	68175.31			MEAN 186	MAX 629	MTN .53	AC-FT 135200					

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 Truckee River at Farad, Calif.
(National stream-quality accounting network station)

LOCATION.--Lat 39°25'41", long 120°01'59", in NE¼ sec.12, T.18 N., R.17 E., Nevada County, on left bank 0.5 mi (0.8 km) upstream from Mystic Canyon, 0.7 mi (1.1 km) downstream from Farad powerplant, 2.5 mi (4.0 km) north of Floriston, 3.4 mi (5.5 km) downstream from Bronco Creek, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi² (2,414 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca" March to October 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft (1,570.698 m) above mean sea level (Bureau of Reclamation bench mark.) March to October 1890, nonrecording gage at site about 7 mi (11 km) upstream at different datum. Sept. 7, 1899, to May 31, 1909, nonrecording gage at approximately present location at different datum. June 1, 1909, to July 31, 1912, nonrecording gage at site about 2.5 mi (4.0 km) downstream at different datum. Aug. 1, 1912, to Dec. 31, 1937, water-stage recorder at site 4.1 mi (6.6 km) upstream at different datum. Jan. 1, 1938, to Aug. 27, 1957, water-stage recorder at approximately present location at different datum.

AVERAGE DISCHARGE.--77 years (1899-1976), 800 ft³/s (22.66 m³/s), 579,600 acre-ft/yr (715 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,500 ft³/s (42.5 m³/s), Oct. 26, gage height, 4.42 ft (1.347 m); minimum, 236 ft³/s (6.68 m³/s) Nov. 18.

Period of record: Maximum discharge, 17,500 ft³/s (496 m³/s) Nov. 21, 1950, gage height, 14.5 ft (4.420 m), present datum, from flood marks, from slope-area measurement of peak flow; minimum, 28 ft³/s (0.793 m³/s) Dec. 18, 1930.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants.

REVISED RECORDS.--WSP 1714: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	711	658	407	405	399	459	665	1060	837	692	803	647
2	698	643	417	414	401	456	728	1090	756	691	759	623
3	690	620	415	434	405	487	811	1050	731	685	714	646
4	689	575	414	433	411	494	817	1040	738	693	754	690
5	680	544	423	438	407	491	824	1060	720	708	797	680
6	686	470	421	434	408	489	770	1090	715	710	786	667
7	747	443	419	424	406	500	717	1050	702	723	786	639
8	711	470	416	414	405	512	742	1090	681	721	773	632
9	710	409	415	420	422	511	903	1090	704	712	778	630
10	745	425	415	414	423	515	952	1070	705	689	781	633
11	794	438	411	415	412	523	930	1080	701	692	769	695
12	733	428	416	413	406	539	915	1090	700	690	807	670
13	715	410	413	413	407	557	945	1120	702	690	790	654
14	722	405	400	414	419	560	947	1130	697	700	779	647
15	722	401	408	406	410	593	971	1020	702	771	816	642
16	696	493	441	406	412	588	943	973	711	785	727	634
17	684	453	432	403	411	593	938	942	709	802	683	626
18	677	408	414	404	411	552	944	881	706	797	675	617
19	667	402	412	402	423	542	953	845	703	798	690	619
20	658	405	412	407	410	550	1020	818	698	786	677	655
21	649	391	412	405	409	555	1040	821	696	793	663	711
22	652	386	419	405	410	542	959	824	695	798	665	680
23	641	379	417	408	409	524	986	819	694	781	669	643
24	630	373	418	409	408	525	1040	795	709	765	679	639
25	626	372	422	404	407	548	1080	807	706	753	686	637
26	982	373	422	401	432	601	1060	860	704	761	707	644
27	896	425	424	395	430	649	1040	909	701	786	705	649
28	752	417	424	397	430	667	1000	847	687	798	697	579
29	720	395	421	400	488	672	965	773	671	820	672	607
30	745	401	414	395	---	670	1000	795	676	795	682	629
31	739	---	406	399	---	686	---	854	---	798	687	---
TOTAL	22167	17412	12920	12731	12031	17150	27605	29693	21257	23183	22656	19364
MEAN	715	447	417	411	415	553	920	958	709	748	731	645
MAX	982	658	441	438	488	686	1080	1130	837	820	816	711
MIN	626	372	400	395	399	456	665	773	671	685	663	579
AC-FT	43970	26600	25630	25250	23860	34020	54750	58900	42160	45980	44940	38410
CAL YR 1975 TOTAL	360663				3730				715400			
WTR YR 1976 TOTAL	234169				1130				464500			

[illegible]

10346000 Truckee River at Farad, Calif.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)
OCT.											
06...	--	--	.02	.00	.02	--	.20	--	.24	.03	--
20...	--	--	.04	.00	.03	--	.13	--	.20	.03	--
NOV.											
24...	.2	30	.07	.00	.05	.00	.00	.09	.11	.00	.00
DEC.											
08...	--	--	.07	.00	.02	--	.27	--	.36	.01	--
JAN.											
07...	--	--	.03	.00	.03	--	.28	--	.34	.02	--
26...	--	--	.09	.00	.01	--	.39	--	.49	.01	--
FEB.											
10...	.1	30	.02	.00	.03	.03	.23	.05	.28	.01	.00
23...	--	--	.11	.00	.02	--	.10	--	.23	.00	--
MAR.											
09...	--	--	.10	.00	.01	--	.12	--	.23	.00	--
30...	--	--	.04	.00	.04	--	.18	--	.26	.02	--
APR.											
12...	--	--	.02	.00	--	--	--	--	--	.02	--
27...	--	--	.01	.00	.01	--	.39	--	.41	.00	--
MAY											
10...	.0	<10	.01	.00	.03	.00	.10	.07	.14	.01	.01
24...	--	--	.00	.00	.01	--	.26	--	.27	.02	--
JUNE											
07...	--	--	.02	.00	.01	--	.15	--	.18	.02	--
29...	--	--	.01	.00	.02	--	.13	--	.16	.07	--
JULY											
12...	--	--	.05	.00	.06	--	.20	--	--	.01	--
26...	--	--	.06	.00	.03	--	.00	--	.06	.03	--
AUG.											
09...	.1	30	.00	.00	.00	.00	.33	.08	.33	.00	.00
24...	--	--	.08	.01	.00	--	.02	--	.11	.01	--
SEP.											
14...	--	--	.06	.01	.00	--	.20	--	.27	.00	--
27...	--	--	.04	.00	.04	--	.05	--	.13	.02	--

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA+MG) (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)
OCT.										
06...	2.1	250	--	--	--	4	--	--	82	8.3
20...	3.4	130	--	--	--	12	--	--	84	--
NOV.										
24...	3.0	110	68	69	68.5	2	36	.4	103	--
DEC.										
08...	1.4	110	--	--	--	4	--	--	105	--
JAN.										
07...	2.3	100	--	--	--	4	--	--	105	8.3
26...	1.7	150	--	--	--	0	--	--	107	--
FEB.										
10...	1.4	160	81	73	91.9	2	39	.5	112	8.3
23...	2.3	220	--	--	--	3	--	--	109	--
MAR.										
09...	1.3	230	--	--	--	4	--	--	109	--
30...	1.8	180	--	--	--	6	--	--	92	8.2
APR.										
12...	2.0	330	--	--	--	6	--	--	84	8.0
27...	2.1	290	--	--	--	9	--	--	81	8.4
MAY										
10...	1.8	700	50	45	144	6	27	.3	73	8.6
24...	3.5	270	--	--	--	6	--	--	77	--
JUNE										
07...	7.0	120	--	--	--	0	--	--	91	8.0
29...	4.3	240	--	--	--	5	--	--	97	8.3
JULY										
12...	.8	320	--	--	--	7	--	--	92	8.2
26...	--	410	--	--	--	3	--	--	93	8.2
AUG.										
09...	1.8	310	67	68	141	3	36	.4	96	8.2
24...	2.1	250	--	--	--	5	--	--	97	8.4
SEP.										
14...	1.1	200	--	--	--	0	--	--	96	8.4
27...	1.5	180	--	--	--	8	--	--	87	8.2

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 Truckee River at Farad, Calif.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)	TOTAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.										
06...	12.5	6	5	--	6	.000	.000	166	5	--
20...	10.0	--	1	--	6	--	--	815	0	1
NOV.										
24...	4.0	1	0	10.9	5	.000	.000	B30	1	2
DEC.										
08...	3.0	1	0	--	2	--	--	84	0	0
JAN.										
07...	2.5	2	2	--	7	.000	.000	44	0	0
26...	2.0	--	1	--	3	--	--	B38	0	0
FEB.										
10...	1.5	4	4	11.6	6	.000	.000	B36	0	--
23...	3.0	--	1	--	4	--	--	40	0	0
MAR.										
09...	4.5	2	2	--	3	.000	.000	62	0	2
30...	5.5	--	2	--	8	--	--	22	0	1
APR.										
12...	6.5	3	3	--	23	.000	.000	B14	0	0
27...	6.5	--	2	--	5	--	--	B10	0	0
MAY										
10...	8.5	1	1	10.0	--	--	--	B10	0	1
24...	11.0	--	1	--	12	--	--	86	0	2
JUNE										
07...	12.0	2	2	--	24	.000	.000	42	1	11
29...	15.0	--	2	--	19	--	--	88	1	6
JULY										
12...	15.5	--	1	--	36	.000	.000	48	4	12
26...	18.5	--	4	--	6	--	--	82	18	12
AUG.										
09...	15.0	2	2	8.5	9	1.72	.000	42	5	9
24...	17.0	--	2	--	6	--	--	B24	0	4
SEP.										
14...	15.5	2	2	--	0	4.50	3.19	40	1	5
27...	16.0	--	1	--	3	--	--	B16	2	11

B: NON-IDEAL COLONY COUNT

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COPALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)
NOV.												
24...	1230	2	1	100	<10	0	10	0	<50	1	<10	2
FFR.												
10...	1120	3	2	0	<10	0	0	0	<50	0	10	0
MAY												
10...	1100	1	0	0	0	0	<10	0	0	0	10	0
AUG.												
09...	1455	1	1	0	<10	0	0	0	<50	2	10	0

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV.											
24...	20	<100	1	20	5	.1	.0	0	<10	100	0
FFR.											
10...	20	<100	2	20	0	.0	.0	0	<10	10	0
MAY											
10...	20	<100	0	30	7	.2	.1	0	0	20	0
AUG.											
09...	--	<100	0	20	10	.0	.0	0	<10	10	0

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 Truckee River at Farad, Calif.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
NOV. 24...	1230	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
FFR. 10...	1120	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 10...	1100	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 09...	1055	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANF (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHEN (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POLY-CHLORINATED NAPHTHALENES (UG/L)
NOV. 24...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	--
FFR. 10...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00
MAY 10...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00
AUG. 09...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 06	CHRYSIOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISCACEAE			
	.....CYCLOTELLA		12	3
	.....MELOSIRA		61	17
	...PENNATAE	PENNATE		
	....ACHNANTHACEAE			
	.....ACHNANTHES		37	10
	.....COCCONEIS		25	7
	.....RHODOSPHENIA		12	3
	....CYMBELLACEAE			
	.....CYMBELLA		61	17
	....DIATOMACEAE			
	.....DIATOMA		25	7
	....FRAGILARIACEAE			
	.....ASTERIONELLA			<1
	.....SYNEDRA		12	3
	....GOMPHONEMACEAE			
	.....GOMPHONEMA		12	3
	....NAVICULACEAE	NAVICULOID		
	.....NAVICULA		74	21
	....NITZSCHIACEAE			
	.....NITZSCHIA		25	7
	TOTAL		360	

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

PHYTOPLANKTON *

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 24	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCIINODISCACEAE			
	....CYCLOTELLA		210	20
	....MELOSIRA		42	4
	...PENNIALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		130	12
	...FRAGILARIACEAE			
	....ASTERIONELLA		540	52
	...GOMPHONEMACEAE			
	....GOMPHONEMA		42	4
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA			<1
	...NITZSCHACEAE			
	....NITZSCHIA		83	8
	TOTAL		1,000	
DEC 08	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCIINODISCACEAE			
	....CYCLOTELLA		74	6
	...PENNIALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES			<1
	...COCCONEIS			<1
	...RHODOSPHENIA			<1
	...CYMBELLACEAE			
	....CYMBELLA		220	19
	...DIATOMACEAE			
	....DIATOMA			<1
	...FRAGILARIACEAE			
	....ASTERIONELLA		740	65
	...FRAGILARIA			<1
	...HANNAEA			<1
	...SYNEDRA			<1
	...GOMPHONEMACEAE			
	....GOMPHONEIS			<1
	...GOMPHONEMA			<1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA			<1
	...NITZSCHACEAE			
	....NITZSCHIA		74	6
	...TABELLARIACEAE			
	....TABELLARIA		37	3
	TOTAL		1,200	
JAN 07	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCIINODISCACEAE			
	....CYCLOTELLA		50	7
	....MELOSIRA		190	26
	...PENNIALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		25	3
	...RHODOSPHENIA		12	2
	...CYMBELLACEAE			
	....CYMBELLA		120	17
	...DIATOMACEAE			
	....DIATOMA		12	2
	...FRAGILARIACEAE			
	....ASTERIONELLA		75	10
	...HANNAEA			<1
	...SYNEDRA		87	12
	...GOMPHONEMACEAE			
	....GOMPHONEMA			<1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		87	12
	...NITZSCHACEAE			
	....NITZSCHIA		12	2
	...TABELLARIACEAE			
	....TABELLARIA		50	7
	TOTAL		720	

* ALL SAMPLES COLLECTED USING SUSPENDED-SEDIMENT SAMPLER

10346000 Truckee River at Farad, Calif.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB 10	..CLASS			
	...ORDER			
	...FAMILY			
	...GENUS			
	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....OCCYSTIS		41	7
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINOIDISCAEAE			
	....CYCLOTELLA		51	9
	...PENNATES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		41	7
	....COCCONEIS		20	3
	...CYMBELLACEAE			
	....CYMBELLA		130	22
	....EPITHEMIA			<1
	...DIATOMACEAE			
	....DIATOMA		10	2
	...FRAGILARIACEAE			
	....ASTERIONELLA		41	7
	...FRAGILARIA		51	9
	...HANNAEA		31	5
	...SYNEORA		31	5
	...GOMPHONEMACEAE			
	....GOMPHONEIS			<1
	...GOMPHONEMA		31	5
	...NAVICULACEAE	NAVICULOID		
	...NAVICULA		20	3
	...NITZSCHACEAE			
	...NITZSCHIA		92	16
	...TABELLARIACEAE			
	...TABELLARIA			<1
	TOTAL		590	
MAR 09	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMIUS			<1
	....DICTYOSPHAERIUM			<1
	...ZYGNEMATALES			
	...ZYGNEMATAEAE			
	...MOUGFOTIA			<1
	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINOIDISCAEAE			
	....CYCLOTELLA		31	3
	....MELOSIYA			<1
	...PENNATES	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		120	11
	....COCCONEIS			<1
	...RHOICOSPHEMIA			<1
	...CYMBELLACEAE			
	....CYMBELLA		93	8
	....EPITHEMIA			<1
	...RHOPALODIA			<1
	...DIATOMACEAE			
	....DIATOMA		47	4
	...FRAGILARIACEAE			
	....ASTERIONELLA		16	1
	...FRAGILARIA		340	30
	...HANNAEA		31	3
	...SYNEORA		47	4
	...GOMPHONEMACEAE			
	....GOMPHONEMA		120	11
	...NAVICULACEAE	NAVICULOID		
	...NAVICULA		120	11
	...PINNULARIA			<1
	...NITZSCHACEAE			
	...NITZSCHIA		160	14
	CHRYSTOPHYCEAE	YELLOW-BROWN ALGAE		
	...CHRYSONOMONADALES			
	...OCHROMONACEAE			
	...OCHROMONAS			<1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIAEAE			
	...OSCILLATORIA			<1
	TOTAL		1,100	

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 Truckee River at Farad, Calif.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ..ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 12	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		58	9
	....MELOSIRA			<1
	...PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		43	6
	...DIATOMACEAE			
	....DIATOMA		14	2
	...FRAGILARIACEAE			
	....ASTERIONELLA		230	34
	....HANNAEA		72	11
	...GOMPHONEMACEAE			
	....GOMPHONEMA		86	13
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		29	4
	...NITZSCHACEAE			
	....NITZSCHIA		72	11
	...TABELLARIACEAE			
	....TABELLARIA		58	9
	..CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	...CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		14	2
	TOTAL		680	
MAY 10	CHLOROPHYTA	GREEN ALGAE		
	..CHLOROPHYCEAE			
	...CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		7	1
	...VOLVOCALES			
	...PHACOTACEAE			
	....PTEROMONAS		7	1
	CHRYSOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		20	2
	....MELOSIRA		130	14
	...PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		39	4
	....COCCONEIS		20	2
	....RHOICOSPHENIA		7	1
	...CYMBELLACEAE			
	....CYMBELLA		110	11
	...DIATOMACEAE			
	....DIATOMA		200	20
	...FRAGILARIACEAE			
	....ASTERIONELLA		13	1
	....HANNAEA		52	5
	....SYNEDRA		59	6
	...GOMPHONEMACEAE			
	....GOMPHONEMA		120	13
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		85	9
	...NITZSCHACEAE			
	....NITZSCHIA		39	4
	...TABELLARIACEAE			
	....TABELLARIA		13	1
	..CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	...CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		46	5
	TOTAL		970	

10346000 Truckee River at Farad, Calif.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ..ORDER ...FAMILY....GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUN 07	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNULACEAE	PENNATE		
	....ACHNANTHACEAE		67	7
	....COCCONEIS		34	4
	....RHODOSIPHONIA			
	....CYMBELLACEAE		67	7
	....CYMBELLA			
	....DIATOMACEAE			
	....DIATOMA		100	11
	....FRAGILARIACEAE			
	....HANNAEA		34	4
	....GOMPHONEMACEAE			
	....GOMPHONEMA		34	4
	....NAVICULACEAE	NAVICULOID		
	....CALONEIS		34	4
	....NAVICULA		370	41
	....NITZSCHACEAE			
	....NITZSCHIA		170	19
	TOTAL		910	
JUL 12	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...PENNULACEAE	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		330	31
	....COCCONEIS		45	4
	....RHODOSIPHONIA		45	4
	....CYMBELLACEAE			
	....CYMBELLA		200	18
	....DIATOMACEAE			
	....DIATOMA		67	6
	....FRAGILARIACEAE			
	....ASTERIONELLA		45	4
	....FRAGILARIA		110	10
	....SYNEDRA		22	2
	....GOMPHONEMACEAE			
	....GOMPHONEMA		22	2
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		130	12
	....NITZSCHACEAE			
	....NITZSCHIA		67	6
	TOTAL		1,100	
AUG 09	CHRYSTOPHYTA			
	..BACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	....COSCINODISACEAE			
	....CYCLOTELLA		10	1
	....MELOSIWA		84	10
	...PENNULACEAE	PENNATE		
	....ACHNANTHACEAE			
	....ACHNANTHES		84	10
	....COCCONEIS		52	6
	....RHODOSIPHONIA		10	1
	....CYMBELLACEAE			
	....CYMBELLA		100	13
	....EPITHEMIA		21	3
	....DIATOMACEAE			
	....DIATOMA			<1
	....FRAGILARIACEAE			
	....ASTERIONELLA		10	1
	....FRAGILARIA		21	3
	....HANNAEA		31	4
	....SYNEDRA		31	4
	....GOMPHONEMACEAE			
	....GOMPHONEMA		73	9
	....NAVICULACEAE	NAVICULOID		
	....NAVICULA		31	4
	....NITZSCHACEAE			
	....NITZSCHIA		84	10
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	...OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	...ANABAENA		190	23
	TOTAL		840	

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 Truckee River at Parad, Calif.--Continued

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

PHYTOPLANKTON

DATE	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
SEP 14	CHRYSTOPHYTA			
	..RACILLARIOPHYCEAE	DIATOMS		
	...CENTRALES	CENTRIC		
	...COSCINODISCEAE			
	...CYCLOTELLA		23	3
	...PENNATES	PENNATE		
	...ACHNANTHACEAE			
	...ACHNANTHES		46	5
	...COCCONEIS		23	3
	...RHOICOSPHEA			<1
	...CYMBELLACEAE			
	...AMPHORA		69	8
	...CYMBELLA		23	3
	...DIATOMACEAE			
	...DIATOMA		23	3
	...FRAGILARIACEAE			
	...ASTERIONELLA		23	3
	...FRAGILARIA		23	3
	...HANNAEA			<1
	...SYNEDRA			<1
	...GOMPHONEMACEAE			
	...GOMPHONEMA		46	5
	...NAVICULACEAE	NAVICULOID		
	...NAVICULA		230	27
	...NITZSCHACEAE			
	...NITZSCHIA		23	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	..MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	...ANACYSTIS			
	.....ANACYSTIS INCERTA		300	35
	TOTAL		840	

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Jan 07	44	2.0	1.3	2.7	0.3	260	Polyethylene strip
Mar 09	28	2.7	0.9	7.4	1.8	240	Polyethylene strip
Jun 29	36	4.54	2.15	5.78	0.000	410	Polyethylene strip
Sep 14	37	16.6	13.6	22.4	0.512	130	Polyethylene strip

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 Truckee River at Farad, Calif.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.				
06...	1010	675	5	9.1
NOV.				
24...	1230	373	5	5.0
DEC.				
08...	1015	416	2	2.2
JAN.				
07...	1250	428	2	2.3
FEB.				
10...	1120	420	4	4.5
MAR.				
09...	1140	509	5	6.9
APR.				
12...	1050	928	20	50
MAY				
10...	1100	1070	7	20
JUNE				
07...	1040	716	7	14
JULY				
12...	1120	695	10	19
AUG.				
09...	1055	780	8	17
SEP.				
14...	1220	650	7	12

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 Truckee River at Farad, Calif.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	89	105	106	102	104	94	77	83	95	96	97
2	80	89	102	106	103	104	---	75	87	94	99	99
3	80	89	100	104	104	101	93	75	88	97	99	97
4	80	90	100	103	103	105	96	75	88	95	97	97
5	80	91	100	103	105	104	---	75	90	94	95	97
6	81	97	100	103	104	104	---	75	90	93	95	97
7	85	99	100	104	104	104	93	78	89	92	95	99
8	84	90	101	104	105	106	86	74	90	92	95	97
9	84	97	102	105	104	107	---	74	92	92	96	99
10	84	97	100	104	106	107	85	71	92	92	96	99
11	82	97	102	104	107	106	85	71	92	92	101	99
12	85	98	100	104	108	---	86	70	---	91	96	99
13	85	99	100	104	110	102	85	77	93	91	94	98
14	85	98	100	105	110	102	87	77	93	91	95	98
15	85	99	102	105	105	103	86	76	93	93	96	98
16	83	99	101	105	106	100	85	76	92	92	96	99
17	84	95	100	105	106	102	90	70	92	89	97	100
18	83	99	102	105	108	99	87	76	92	90	98	100
19	83	99	104	105	106	100	88	76	92	89	97	99
20	82	99	104	105	106	100	87	76	93	89	97	93
21	83	101	103	105	108	98	84	76	93	90	97	95
22	83	101	103	105	108	98	83	77	93	90	---	92
23	83	101	104	105	107	97	83	77	94	91	98	90
24	85	101	104	105	108	95	81	77	98	91	96	86
25	84	101	103	106	107	94	84	78	93	91	96	86
26	75	102	103	105	105	94	82	77	93	91	97	88
27	74	100	102	105	106	91	82	80	---	91	99	87
28	81	101	103	105	108	89	83	82	---	92	99	84
29	82	103	102	105	106	89	84	85	97	92	98	84
30	83	101	104	105	---	89	79	85	94	94	---	84
31	84	---	106	104	---	88	---	84	---	94	97	---
MONTH	82	97	102	105	106	99	86	77	92	92	97	95
YEAR	MAX	110	MIN	70	MEAN	94						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	8.5	4.5	0.0	4.5	0.0	7.0	8.0	10.0	15.0	17.0	15.0
2	12.5	8.0	5.5	0.0	3.0	0.0	---	8.0	10.0	15.0	15.5	14.5
3	13.0	8.0	4.0	1.5	3.0	0.0	7.5	8.0	10.0	13.0	17.0	14.5
4	13.5	7.0	4.0	2.0	3.5	0.0	7.5	9.0	10.0	14.0	15.0	14.0
5	13.5	7.5	5.0	4.0	0.0	1.0	---	8.0	10.5	14.0	15.0	15.5
6	13.0	7.0	4.5	4.5	0.5	4.0	---	7.0	11.0	14.0	17.0	15.5
7	10.0	8.5	4.0	3.0	0.5	4.0	7.0	8.0	13.0	17.5	12.0	14.5
8	10.0	6.0	3.0	3.5	3.5	3.5	7.0	10.0	11.5	16.0	13.5	15.0
9	10.5	4.0	3.0	3.0	4.0	3.0	7.0	9.5	10.0	16.0	15.0	15.5
10	10.5	4.5	5.0	1.5	1.0	3.0	7.0	9.0	10.0	17.5	16.0	15.0
11	10.0	3.0	2.5	3.0	1.5	4.0	6.5	9.0	12.0	17.5	15.5	15.5
12	10.5	3.0	4.0	3.0	3.5	---	6.5	9.0	11.5	17.5	15.0	14.5
13	10.0	4.5	3.0	2.5	3.5	6.5	6.5	9.0	12.0	16.5	15.0	14.0
14	9.5	5.0	0.5	3.0	5.0	5.0	6.5	9.0	12.0	17.0	14.5	14.5
15	10.0	6.5	0.0	3.0	4.0	4.0	6.0	9.5	11.5	17.0	13.5	13.5
16	10.0	6.0	1.0	4.0	4.5	5.5	4.5	9.5	12.5	15.5	12.5	13.5
17	10.5	4.0	3.0	4.0	5.0	5.0	7.0	9.0	12.5	16.0	12.0	16.0
18	10.5	2.0	2.0	2.0	4.0	4.0	7.5	10.0	14.0	16.5	13.5	15.0
19	10.0	1.5	2.0	1.5	2.0	3.0	8.0	10.0	14.0	17.5	12.5	13.5
20	11.5	2.0	3.0	1.5	0.0	3.5	9.0	11.0	12.0	17.5	13.5	14.0
21	10.5	2.5	3.0	1.0	2.5	4.0	9.0	11.0	13.0	16.0	14.5	16.0
22	10.0	2.5	3.0	3.0	2.5	5.0	7.0	9.5	12.0	16.0	---	15.0
23	9.5	3.0	3.5	2.5	2.0	7.0	7.0	9.5	15.0	15.0	13.0	13.0
24	9.5	4.5	4.5	3.0	3.0	5.0	6.5	10.0	16.0	15.0	17.5	13.0
25	10.0	3.5	4.0	1.0	4.0	3.5	6.5	10.5	14.0	18.0	15.5	13.0
26	7.5	4.5	4.0	1.5	4.0	4.0	6.5	13.0	14.0	18.0	13.5	13.5
27	8.0	5.0	6.0	1.5	5.0	5.0	6.5	12.0	---	16.0	13.5	13.0
28	8.5	3.5	6.0	4.0	6.5	5.0	7.0	10.0	---	17.0	15.0	13.0
29	8.0	0.5	5.0	4.5	6.0	4.5	8.0	9.0	13.5	18.0	14.5	15.5
30	8.5	2.0	3.5	3.5	---	4.5	10.0	10.0	14.0	17.0	---	14.5
31	7.5	---	3.5	3.5	---	6.0	---	11.0	---	17.0	15.5	---
MONTH	10.5	4.5	3.5	2.5	3.0	4.0	7.0	9.5	12.0	16.0	14.5	14.5
YEAR	MAX	18.0	MIN	0.0	MEAN	8.5						

10348000 Truckee River at Reno, Nev.

LOCATION.--Lat 39°31'55", long 119°47'05", in NW¼ sec.7, T.19 N., R.20 E., Washoe County, on left bank 400 ft (120 m) downstream from Kietzke Lane bridge, 0.5 mi (0.8 km) downstream from Scott Island, 1.5 mi (2.4 km) east of Reno Post Office, and 5 mi (8 km) upstream from Steamboat Creek.

DRAINAGE AREA.--1,067 mi² (2,764 km²).

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1935, January to December 1943, January 1946 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft (1,350.864 m) above mean sea level (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--50 years (1906-21, 1925-26, 1930-34, 1946-76), 679 ft³/s (19.23 m³/s), 491,900 acre-ft/yr (606 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) Oct. 26, gage height, 4.43 ft (1.350 m); minimum, 282 ft³/s (7.99 m³/s) Sept. 2.

Period of record: Maximum discharge, 20,800 ft³/s (589 m³/s) Dec. 23, 1955; maximum gage height, 13.83 ft (4.215 m) Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above station.

REVISED RECORDS.--WSP 1714: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	638	338	422	416	519	685	731	526	366	566	349
2	464	616	397	415	420	486	683	787	470	358	554	315
3	449	604	433	458	425	513	819	724	407	351	464	318
4	440	553	428	455	436	522	825	752	416	358	505	369
5	425	528	421	460	435	522	813	767	408	379	597	398
6	436	464	431	457	432	518	757	784	411	370	511	404
7	528	410	431	456	435	525	672	729	408	378	511	355
8	494	460	430	438	433	556	691	781	380	381	535	335
9	488	403	427	439	452	550	804	783	407	380	556	338
10	528	409	430	438	452	549	898	775	421	353	473	351
11	610	423	425	436	439	557	887	781	387	370	480	476
12	559	422	427	436	422	551	846	758	366	353	506	466
13	549	406	429	430	419	588	861	770	366	363	449	423
14	573	395	419	433	436	587	855	826	357	355	485	424
15	564	394	410	431	423	615	923	721	353	432	572	459
16	546	463	442	424	424	640	903	653	366	460	481	458
17	543	487	458	424	428	618	874	643	364	517	415	434
18	527	411	423	426	424	621	878	583	370	519	406	433
19	508	413	426	425	444	554	844	543	350	500	405	427
20	497	410	422	425	429	561	900	516	362	466	375	416
21	499	399	421	426	424	566	909	502	401	480	350	519
22	511	383	424	426	435	565	810	524	405	479	393	484
23	517	357	422	432	438	532	787	511	341	504	385	440
24	500	305	427	436	437	533	825	482	360	521	396	397
25	497	301	434	429	431	538	877	465	346	487	368	387
26	738	296	452	426	447	589	852	511	355	479	399	359
27	934	331	450	421	464	653	820	567	403	489	389	393
28	687	355	447	417	453	676	751	552	432	493	382	338
29	634	329	445	421	525	675	682	455	335	539	374	341
30	659	332	437	418	---	668	695	464	312	572	368	387
31	708	---	427	415	---	690	---	526	---	572	377	---
TOTAL	17101	12697	13233	13395	12680	17837	24426	19966	11585	13624	14067	11993
MEAN	552	423	427	432	437	575	814	644	386	439	454	400
MAX	934	638	458	460	525	690	923	826	526	572	597	519
MIN	425	296	338	415	416	486	672	455	312	351	350	315
AC-FT	33920	25180	26250	26570	25150	35380	48450	39600	22980	27020	27900	23790
CAL YR 1975 TOTAL	312114		MEAN 855	MAX	3390	MTN 208	AC-FT	619100				
WTR YR 1976 TOTAL	182604		MEAN 499	MAX	934	MTN 296	AC-FT	362200				

LOCATION.--Lat 39°12'12", long 119°52'17", in NW¼SW¼SE¼ sec.32, T.16 N., R.19 E., Washoe County, on right bank 300 ft (100 m) upstream from Red House diversion dam, 0.2 mi (0.3 km) upstream from Red House, and 6.1 mi (9.8 km) northwest of Carson City.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,380 ft (2,250 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 16 ft³/s (0.45 m³/s) Aug. 15, gage height, 1.82 ft (0.555 m); maximum gage height, 2.92 ft (0.890 m) Mar. 1, backwater from ice or snow block; minimum discharge, 0.48 ft³/s (0.014 m³/s) Sept. 9-11, 13-17.

Period of record: Maximum discharge, 50 ft³/s (1.42 m³/s) May 31, 1975, gage height, 2.14 ft (0.652 m); maximum gage height, 3.68 ft (1.122 m), backwater from ice or snow block; minimum discharge, 0.48 ft³/s (0.014 m³/s) Sept. 9-11, 13-17, 1976.

REMARKS.--Records fair. Flow regulated by Hobart Reservoir, and Marlette Lake (by pumping, during dry years).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.1	2.4	2.0	2.1	3.0	2.5	8.2	1.6	1.3	1.2	2.1
2	3.0	3.1	2.4	1.8	2.0	2.4	2.5	7.4	1.3	1.4	1.1	2.1
3	3.2	3.1	2.3	1.8	2.0	2.3	2.6	6.8	1.6	1.4	1.1	2.1
4	3.2	3.0	2.3	2.0	1.8	2.2	3.1	7.2	1.8	1.5	1.1	2.1
5	3.0	2.8	2.3	2.0	1.6	2.1	3.2	7.1	1.8	1.5	1.2	2.1
6	3.2	2.7	2.3	2.1	1.8	2.1	3.2	6.0	1.8	1.5	1.2	2.1
7	3.7	2.7	2.3	2.1	2.0	2.1	3.6	5.2	1.8	1.5	1.2	2.1
8	3.3	2.7	2.3	2.1	2.1	2.1	3.7	5.7	1.5	1.5	1.3	1.8
9	3.2	2.6	2.3	2.2	2.2	2.1	3.0	6.5	1.3	1.5	1.3	.48
10	3.3	3.6	2.2	2.1	2.1	2.1	3.1	6.3	1.6	1.5	1.3	.48
11	3.4	2.9	2.2	2.1	2.1	2.1	3.0	6.0	1.8	1.5	1.3	.66
12	3.2	2.8	2.3	2.1	2.0	2.2	2.9	5.4	1.8	1.5	1.3	.54
13	3.2	2.8	2.3	2.1	2.1	2.2	2.7	5.0	1.8	2.0	1.3	.50
14	3.4	2.8	2.2	2.1	2.2	2.2	2.6	5.0	1.7	2.6	2.1	.48
15	3.4	2.8	2.2	2.1	2.6	2.2	2.8	4.6	1.7	2.4	8.5	.48
16	3.3	4.6	2.2	2.1	2.2	2.4	2.6	4.1	1.6	2.4	5.4	.48
17	3.3	3.6	2.2	2.1	2.2	2.7	2.5	3.7	1.6	2.4	2.2	.49
18	3.2	2.7	2.2	2.1	2.2	4.2	2.8	2.5	3.0	2.3	1.0	.50
19	3.2	2.2	2.1	2.1	2.3	3.0	3.6	1.6	3.1	1.7	.97	.53
20	3.1	2.2	2.0	2.1	2.4	2.1	6.7	1.7	2.7	1.2	2.3	.50
21	3.1	2.2	2.0	2.1	2.4	2.1	7.0	1.6	2.4	1.2	2.7	.53
22	2.9	2.2	2.1	2.1	2.4	2.2	7.9	2.1	1.5	1.3	2.8	.56
23	2.8	2.2	2.1	2.1	2.3	2.3	8.2	2.2	1.1	2.0	2.6	.72
24	2.9	2.2	2.1	2.1	2.3	2.4	9.0	2.5	1.0	2.3	2.2	.88
25	2.8	2.3	2.1	2.3	2.3	2.2	7.8	2.5	.98	2.2	2.2	.99
26	3.2	2.3	2.1	2.2	2.3	2.1	5.5	2.3	.96	1.6	2.2	1.0
27	3.0	2.3	2.1	2.1	2.4	2.2	4.6	2.2	1.0	1.1	2.2	1.0
28	3.2	2.3	2.1	2.1	2.4	2.2	4.5	1.9	1.0	1.7	2.2	1.5
29	3.0	2.2	2.1	2.1	7.7	2.3	5.6	1.8	1.1	1.6	2.2	1.7
30	3.0	2.3	2.1	2.1	---	2.3	7.1	1.7	1.2	1.1	2.2	1.5
31	3.1	---	2.1	2.1	---	2.5	---	2.1	---	1.3	2.1	---
TOTAL	98.2	81.3	68.0	64.6	68.5	72.6	129.9	128.9	49.14	52.0	63.97	33.00
MEAN	3.17	2.71	2.19	2.08	2.36	2.34	4.33	4.16	1.64	1.68	2.06	1.10
MAX	3.7	4.6	2.4	2.3	7.7	4.2	9.0	8.2	3.1	2.6	8.5	2.1
MIN	2.8	2.2	2.0	1.8	1.6	2.1	2.5	1.6	.96	1.1	.97	.48
AC-FT	195	161	135	128	136	144	258	256	97	103	127	65
CAL YR 1975	TOTAL	1682.00	MEAN	4.61	MAX	30	MIN	2.0	AC-FT	3340		
WTR YR 1976	TOTAL	910.11	MEAN	2.49	MAX	9.0	MIN	.48	AC-FT	1810		

PYRAMID AND WINNEMUCCA LAKES BASIN

237

10348700 Washoe Lake near Carson City, Nev.

LOCATION.--Lat 39°16'30", long 119°47'35", in S₂SE₄ sec.1, T.16 N., R.19 E., Washoe County, on Washoe County boatdock on northeast shore about 6.8 mi (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi² (217 km²), including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Reference mark. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum elevation observed, 5,027.8 ft (1,532.47 m) Apr. 27; minimum observed, 5,025.0 ft (1,531.62 m) Sept. 28.

Period of record: Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; minimum observed, 5,023.5 ft (1,531.16 m) Nov. 24, 1964.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Total capacity 49,200 acre-ft (60.7 hm³) between elevations 5,017.5 ft (1,529.33 m) and 5,031.0 ft (1,533.45 m). Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Mariette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House.

MONTH-END ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept. 30	5,026.9	26,100	--
Oct. 31	5,026.7	25,100	-1,000
Nov. 30	5,026.8	25,600	+500
Dec. 31	5,027.2	27,700	+2,100
CAL YR 1975	--	--	+3,600
Jan. 31	5,027.4	28,800	+1,100
Feb. 29	5,027.7	30,400	+1,600
Mar. 31	5,027.7	30,400	0
Apr. 30	5,027.8	30,900	+500
May 31	5,027.3	28,200	-2,700
June 30	5,026.2	22,700	-5,500
July 31	5,025.8	20,800	-1,900
Aug. 31	5,025.3	18,500	-2,300
Sept. 30	5,025.0	17,300	-1,200
WTR YR 1975-76	--	--	-8,800

NOTE.--Month-end elevations are interpolated from readings made during the month.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348800 Little Washoe Lake near Steamboat, Nev.

LOCATION.--Lat 39°19'45", long 119°48'00", in NE¼NW¼ sec.24, T.17 N., R.19 E., Washoe County, at outlet (head of Steamboat Creek) and 5.5 mi (8.8 km) southwest of Steamboat.

DRAINAGE AREA.--83.8 mi² (217 km²).

PERIOD OF RECORD.--April 1963 to September 1970 (monthly observations only), October 1970 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1970, nonrecording gage at same site and datum. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum elevation recorded, 5,029.6 ft (1,533.02 m) Mar. 24 (pileup from wind); minimum recorded, 5,022.6 ft (1,530.89 m) Sept. 30.

Period of record: Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; minimum observed, 5,021.9 ft (1,530.68 m) Oct. 28, 1964.

REMARKS.--Lake is formed by a natural basin supplemented by a control works downstream from the natural rim which provides storage regulation for both Little Washoe Lake and Washoe Lake. See additional remarks under "Washoe Lake." Strong steady winds often cause pileup on the side of the lake where the recorder is located. Observations during periods of no record indicate that the elevation was not less than those recorded later in September.

CAPACITY TABLE, ELEVATION, IN FEET, AND VOLUME, IN ACRE-FEET

5,021.1	0	5,026	300
5,022	10	5,027	400
5,023	50	5,028	500
5,024	125	5,029	650
5,025	200	5,030	750

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.90	6.85	7.03	7.21	7.45	8.02	7.97	7.90	7.35	7.57	---	2.85
2	6.98	6.85	7.04	7.21	7.45	7.90	7.98	7.71	7.31	7.38	---	2.82
3	7.10	6.86	7.10	7.21	8.47	7.92	7.96	7.72	7.15	7.16	---	2.80
4	7.03	6.89	7.29	7.22	7.47	7.95	7.98	7.83	7.16	6.95	---	2.78
5	6.93	7.08	7.10	7.23	7.50	7.95	8.10	7.70	7.21	6.84	---	2.79
6	7.20	7.16	7.07	7.24	7.53	7.97	7.96	7.55	7.17	---	---	2.77
7	6.76	7.03	7.08	7.25	7.55	7.97	8.16	7.67	7.25	---	---	2.75
8	6.79	6.83	7.09	7.36	7.55	8.00	8.02	7.65	6.91	---	---	2.74
9	7.15	7.29	7.09	7.26	7.59	8.01	7.96	7.65	6.94	---	---	2.72
10	7.00	7.06	7.11	7.29	7.62	8.00	8.10	7.85	6.98	---	---	2.74
11	6.75	6.91	7.52	7.35	7.62	7.97	8.14	7.62	7.01	---	---	2.77
12	6.67	6.94	7.09	7.30	7.63	8.03	7.81	7.62	6.95	---	---	2.77
13	6.62	6.91	7.00	7.31	7.73	8.14	7.90	7.80	6.74	---	---	2.76
14	6.65	7.03	7.11	7.30	7.90	8.00	8.03	7.50	6.84	---	---	2.74
15	6.67	7.40	7.11	7.31	7.67	8.03	7.59	7.55	7.01	---	---	2.73
16	6.74	7.11	7.11	7.33	7.74	8.04	7.87	7.77	6.77	---	---	2.74
17	6.93	6.87	7.12	7.33	7.97	8.19	7.98	7.55	6.76	---	---	2.73
18	6.73	6.89	7.13	7.33	8.30	8.22	7.87	7.58	6.86	---	---	2.72
19	6.75	6.98	7.13	7.39	7.70	8.02	7.87	7.44	6.96	---	---	2.71
20	6.76	6.92	7.14	7.34	7.76	8.03	7.87	7.40	6.97	---	---	2.70
21	7.35	6.96	7.16	7.36	7.78	8.05	7.98	7.40	---	---	---	2.69
22	6.89	6.95	7.16	7.36	7.82	8.66	7.90	7.40	---	---	---	2.67
23	6.73	6.94	7.16	7.34	7.77	8.28	7.83	7.38	7.53	---	---	2.67
24	6.75	6.96	7.17	7.40	7.94	8.26	8.30	7.39	7.52	---	---	2.65
25	7.30	6.97	7.19	7.40	8.12	7.98	8.55	7.25	7.55	---	---	2.64
26	7.60	7.30	7.30	7.41	7.85	8.08	7.70	7.37	7.55	---	---	2.63
27	7.08	6.98	7.19	7.43	8.23	7.99	7.75	7.50	7.53	---	2.92	2.61
28	6.86	6.98	7.20	7.44	8.15	7.94	7.75	7.28	7.55	---	2.90	2.60
29	7.35	7.00	7.60	7.43	8.28	7.99	7.75	7.40	7.73	---	2.89	2.60
30	6.94	7.02	7.13	7.45	---	8.24	7.75	7.49	7.76	---	2.88	2.59
31	6.85	---	7.15	7.45	---	8.05	---	7.39	---	4.80	2.86	---
MEAN	6.93	7.00	7.16	7.33	7.80	8.06	7.95	7.56	---	---	---	2.72
MAX	7.60	7.40	7.60	7.45	8.47	8.66	8.55	7.90	---	---	---	2.85
MIN	6.62	6.83	7.00	7.21	7.45	7.90	7.59	7.25	---	---	---	2.59

CAL YR 1975 MEAN 5,027.73 MAX 5,029.00 MIN 5,026.48
WTR YR 1976 MEAN -- MAX 5,028.66 MIN 5,022.59

NOTE.--Add 5,020 ft to obtain elevation above mean sea level, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

239

10348900 Galena Creek near Steamboat, Nev.

LOCATION.--Lat 39°21'45", long 119°49'30", in SW¼SW¼ sec.2, T.17 N., R.19 E., Washoe County, on right bank 1 mi (2 km) upstream from Jones Creek, 3.5 mi (5.6 km) upstream from mouth, 4.5 mi (7.2 km) west-southwest of Steamboat, and 12 mi (19 km) south of Reno.

DRAINAGE AREA.--8.5 mi² (22.0 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft (1,704.44 m) above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--15 years, 9.14 ft³/s (0.259 m³/s), 6,620 acre-ft/yr (8.16 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 32 ft³/s (0.91 m³/s) Sept. 11, gage height, 2.77 ft (0.844 m); minimum, 0.70 ft³/s (0.020 m³/s) Jan. 2.

Period of record: Maximum discharge, 3,670 ft³/s (104 m³/s) Aug. 15, 1965, gage height, not determined, from slope-area measurement of peak flow; no flow for parts of many days most years.

Flood of July 20, 1956, reached a discharge of 4,730 ft³/s (134 m³/s).

REMARKS.--Records fair except those for winter periods, which are poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake during winter months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	10	1.2	.80	1.1	1.1	.80	13	8.0	5.4	5.4	3.3
2	8.5	10	1.1	.70	1.1	1.6	1.0	15	7.5	5.4	4.2	3.1
3	9.0	12	1.1	.80	1.1	1.6	.90	16	7.5	5.4	3.9	2.9
4	9.0	12	1.0	.90	.90	1.4	1.0	18	7.0	5.1	3.9	2.9
5	8.5	12	1.0	1.2	.90	1.3	2.0	15	6.6	4.8	3.6	3.6
6	11	10	1.1	1.1	.90	1.2	6.6	14	6.6	4.5	3.3	3.6
7	12	12	1.1	1.1	.90	1.1	6.6	16	6.6	4.2	3.3	3.1
8	10	10	1.0	1.1	1.0	1.0	7.0	16	6.6	3.9	3.1	3.3
9	10	8.5	1.0	1.1	.90	.90	7.0	16	7.0	4.2	3.1	3.1
10	11	9.0	1.0	1.0	.90	.90	7.0	18	7.5	3.9	3.1	3.6
11	12	10	1.0	1.0	1.0	.90	7.0	19	7.0	4.2	2.9	12
12	12	11	1.0	1.0	1.1	1.0	7.0	17	8.0	4.2	2.7	4.8
13	12	9.5	.90	1.0	1.2	1.2	6.6	18	9.0	4.2	2.9	4.5
14	12	8.5	.80	1.0	1.1	1.0	7.0	17	7.5	4.2	4.2	4.2
15	12	5.4	.90	1.0	1.1	1.0	7.5	15	7.5	4.2	7.0	4.2
16	12	4.9	1.1	1.0	1.1	1.0	7.0	15	7.0	4.5	5.1	5.1
17	12	4.2	1.0	1.0	1.1	1.0	8.0	16	7.0	4.8	4.5	4.5
18	12	2.5	1.0	.90	1.1	1.0	7.5	14	6.6	4.8	4.8	3.9
19	12	1.9	1.0	.90	.80	.80	9.0	13	6.2	4.2	5.1	3.9
20	12	1.5	1.0	.90	.90	.90	10	12	6.2	4.2	4.5	5.1
21	12	1.3	1.3	1.5	.90	1.1	11	12	6.2	3.9	3.9	5.4
22	12	1.2	1.1	2.0	1.3	.90	12	12	6.2	3.9	5.1	4.2
23	10	1.1	1.1	1.8	1.1	1.0	12	12	6.2	4.8	3.9	3.6
24	8.5	1.0	1.1	1.6	1.1	.90	15	12	5.8	5.1	3.6	3.9
25	9.6	1.0	1.1	1.4	1.0	.80	12	12	5.8	4.8	3.6	3.9
26	14	1.1	1.1	1.2	1.1	.80	9.0	10	5.8	4.5	3.6	3.9
27	12	1.4	1.2	1.1	1.1	.90	8.0	9.6	5.4	4.2	3.6	4.2
28	13	1.2	1.1	1.1	1.2	.90	8.5	9.6	5.1	4.2	3.6	4.2
29	9.6	1.0	1.1	1.1	1.0	1.1	11	8.5	5.1	4.2	3.3	4.8
30	9.6	.90	1.0	1.1	---	.90	14	8.5	5.1	4.2	3.3	5.1
31	10	---	1.0	1.1	---	.90	---	8.5	---	7.5	3.6	---
TOTAL	338.3	176.10	32.50	34.50	30.00	32.10	229.00	427.7	199.6	141.6	121.7	127.9
MEAN	10.9	5.87	1.05	1.11	1.03	1.04	7.63	13.8	6.65	4.57	3.93	4.26
MAX	14	12	1.3	2.0	1.3	1.6	15	19	9.0	7.5	7.0	12
MIN	8.5	.90	.80	.70	.80	.80	.80	8.5	5.1	3.9	2.7	2.9
AC-FT	671	349	64	68	60	64	454	848	396	281	241	254
CAL YR 1975 TOTAL	3857.40											
MEAN 10.6												
MAX 80												
MTN .70												
AC-FT 7650												
WTR YR 1976 TOTAL	1891.00											
MEAN 5.17												
MAX 19												
MTN .70												
AC-FT 3750												

PEAK DISCHARGE (BASE, 20 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-6	1700	2.80	24	5-1	1700	2.69	26
10-28	1100	2.78	22	7-31	1900	2.73	27
4-24	1800	2.62	20	9-11	0200	2.77	32

PYRAMID AND WINNEMUCCA LAKES BASIN

10349300 Steamboat Creek at Steamboat, Nev.

LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, on left bank 250 ft (80 m) upstream from Steamboat ditch, 0.2 mi (0.3 km) southwest of Steamboat Post Office, and 11 mi (18 km) southeast of Reno.

DRAINAGE AREA.--123 mi² (319 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

AVERAGE DISCHARGE.--15 years, 14.5 ft³/s (0.410 m³/s), 10,510 acre-ft/yr (13.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 56 ft³/s (1.59 m³/s) Oct. 10, gage height, 1.94 ft (0.591 m); minimum, 0.55 ft³/s (0.016 m³/s) June 30, July 1, Sept. 1-3.

Period of record: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 31, 1963, gage height, 5.44 ft (1.658 m), from rating curve extended above 360 ft³/s (10.2 m³/s) by logarithmic plotting; minimum daily, 0.50 ft³/s (0.014 m³/s) Aug. 21, 28, 31, 1964.

REMARKS.--Records excellent. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	5.8	4.2	6.6	8.5	5.6	4.7	2.5	1.4	2.2	.62
2	19	11	5.1	4.0	6.6	7.1	5.2	6.6	3.2	5.9	1.7	.57
3	18	11	4.8	4.5	6.4	7.5	3.3	6.3	2.7	6.9	1.4	.58
4	18	11	4.7	5.0	5.9	6.3	3.4	5.1	2.1	7.6	1.2	.60
5	19	11	4.3	5.9	5.5	6.5	3.9	5.0	1.5	5.7	1.1	.61
6	21	11	4.5	5.3	5.8	6.9	7.7	4.2	1.5	5.0	1.0	.68
7	24	11	4.6	5.7	6.5	7.9	7.2	3.7	2.1	6.2	1.0	.70
8	22	10	4.7	6.0	7.1	7.6	5.6	3.9	2.1	5.8	.90	.70
9	22	10	4.8	6.9	7.8	6.9	5.8	4.8	2.2	5.9	.80	.68
10	33	14	4.7	6.5	7.4	6.9	5.7	4.0	2.9	5.7	.80	.61
11	28	11	4.6	6.8	7.6	6.5	6.0	4.6	3.6	5.2	.80	3.8
12	26	11	4.7	6.5	7.7	6.6	6.2	3.0	2.0	2.7	.90	1.5
13	25	11	4.9	6.6	8.5	6.6	6.0	4.5	1.7	1.2	1.0	1.4
14	25	11	4.2	6.6	9.9	6.3	5.8	4.9	1.5	.96	1.2	1.8
15	27	10	4.5	6.8	8.5	6.2	6.6	5.1	2.0	1.1	3.0	1.7
16	21	11	6.4	6.8	11	6.4	6.8	6.1	1.4	1.3	2.2	1.7
17	11	10	5.9	6.8	8.1	6.2	5.7	6.0	1.0	1.5	2.0	1.7
18	10	7.3	5.8	6.4	7.3	6.1	4.9	5.1	.88	1.3	1.8	1.2
19	11	6.7	6.1	6.4	8.3	6.1	4.3	5.1	.85	1.2	2.1	1.1
20	11	10	6.1	6.9	7.0	6.2	3.7	4.8	.81	.91	2.0	1.3
21	10	10	5.4	7.3	6.8	5.8	3.6	4.5	.78	.87	1.6	1.8
22	9.6	9.8	5.5	7.1	6.7	4.9	3.6	3.4	.78	.74	2.2	1.1
23	9.6	6.9	5.3	7.3	6.6	4.4	2.8	3.5	1.0	1.1	1.9	.98
24	9.3	5.7	5.4	7.4	6.3	4.9	4.5	3.6	.73	1.5	1.2	.98
25	9.5	5.3	5.0	7.0	6.3	6.4	5.0	2.5	1.1	1.4	.97	1.1
26	18	5.1	5.0	6.8	6.2	5.3	3.5	2.2	1.4	1.2	.88	1.1
27	12	5.3	5.0	6.9	6.1	6.0	2.6	2.0	.76	1.1	.84	1.0
28	10	5.3	4.8	7.0	5.9	5.9	2.1	3.1	.64	1.0	.77	.98
29	11	5.3	4.8	7.0	13	5.7	2.2	2.9	.60	1.0	.74	1.1
30	12	6.6	4.4	6.7	---	5.4	2.8	3.6	.59	1.0	.72	1.1
31	11	---	4.4	6.7	---	5.6	---	3.1	---	3.0	.69	---
TOTAL	531.0	275.3	156.2	197.8	213.4	195.6	142.1	131.9	46.92	87.38	41.61	34.79
MEAN	17.1	9.18	5.04	6.38	7.36	6.31	4.74	4.25	1.56	2.82	1.34	1.16
MAX	33	14	6.4	7.4	13	8.5	7.7	6.6	3.6	7.6	3.0	3.8
MIN	9.3	5.1	4.2	4.0	5.5	4.4	2.1	2.0	.59	.74	.69	.57
AC-FT	1050	546	310	392	423	388	282	262	93	173	83	69

CAL YR 1975 TOTAL 5339.10 MEAN 14.6 MAX 59 MIN 3.6 AC-FT 10590
WTR YR 1976 TOTAL 2054.00 MEAN 5.61 MAX 33 MIN .57 AC-FT 4070

NOTE.--No gage-height record July 24 to Aug. 24.

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LOCATION.--Lat 39°31'05", long 119°40'58", in NW¼ sec.13, T.19 N., R.20 E., Washoe County, on left bank 800 ft (250 m) downstream from Southern Pacific Railroad bridge, 0.9 mi (1.4 km) southeast of Vista, 1.5 mi (2.4 km) downstream from Steamboat Creek, and 4 mi (6 km) southeast of Sparks.

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

AVERAGE DISCHARGE.--48 years, 808 ft³/s (22.88 m³/s), 585,400 acre-ft/yr (722 hm³/yr).

Period of record: Maximum discharge (revised), 18,900 ft³/s (535 m³/s) Feb. 1, 1963, gage height, 16.76 ft (5.108 m) from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 7 ft³/s (0.20 m³/s) Aug. 26, 1935.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Stampede, Boca, and Prosser Creek Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft (1.32 km³). Water-quality records for the current year are published for Truckee River at Lockwood (see next page), 2.1 mi (3.4 km) downstream. Several powerplants and many diversions above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	683	809	535	515	500	628	780	773	657	430	806	457
2	626	751	542	505	499	582	743	825	595	443	842	418
3	618	730	541	552	493	612	887	801	498	410	676	426
4	626	679	532	549	514	630	905	816	503	445	681	474
5	610	648	521	559	524	630	901	823	483	455	792	518
6	618	580	538	558	515	630	842	856	495	458	672	551
7	730	506	539	553	522	636	757	838	513	453	659	481
8	724	558	538	538	517	664	748	904	482	466	667	466
9	714	506	528	547	562	660	857	908	519	456	701	452
10	756	509	533	541	564	650	990	912	555	425	580	462
11	879	525	523	536	535	656	956	913	521	443	580	708
12	817	524	531	533	517	650	925	894	493	421	599	661
13	788	512	527	527	516	671	929	896	501	427	625	601
14	809	494	509	532	551	678	913	953	496	415	616	592
15	790	495	500	526	539	695	992	861	464	473	749	663
16	774	544	537	521	535	730	998	781	476	528	688	667
17	756	613	559	520	570	698	960	766	465	626	595	606
18	721	516	527	511	542	711	964	679	482	666	563	596
19	700	507	525	515	562	637	926	653	449	652	573	578
20	691	502	516	510	534	663	966	612	456	602	533	559
21	690	505	510	512	529	661	981	600	507	602	491	661
22	686	487	529	510	531	658	894	632	527	605	553	641
23	705	494	530	517	527	618	869	613	452	627	564	596
24	683	488	531	537	521	614	889	590	456	682	546	542
25	666	481	536	518	516	625	958	552	440	627	498	555
26	814	472	556	512	521	673	949	580	424	608	525	517
27	1160	505	561	508	544	749	912	669	454	589	498	551
28	872	552	552	502	533	782	830	674	541	605	483	500
29	802	518	553	504	599	767	760	569	427	649	499	490
30	826	517	541	498	---	756	747	553	377	696	491	542
31	894	---	525	496	---	768	---	634	---	724	480	---
TOTAL	23228	16527	16525	16262	15432	20782	26728	23130	14708	16708	18825	16531
MEAN	749	551	533	525	532	670	891	746	490	539	607	551
MAX	1160	809	561	559	599	782	998	953	657	724	842	708
MTN	610	472	500	496	493	582	743	552	377	410	480	418
AC-FT	46070	32780	32780	32260	30610	41220	53010	45880	29170	33140	37340	32790
CAL YP 1975	TOTAL	362728	MEAN	994	MAX	3670	MTN	361	AC-FT	719500		
WTR YR 1976	TOTAL	225386	MEAN	616	MAX	1160	MTN	377	AC-FT	447100		

LOCATION.--Lat 39°30'36", long 119°38'52", in SE¹/₄ sec.17, T.19 N., R.21 E., on boundary line between Washoe and Storey Counties, at bridge 2.1 mi (3.4 km) downstream from stream-gaging station 10350000 (Truckee River at Vista), 2.7 mi (4.3 km) downstream from mouth of North Truckee Drain, 3.3 mi (5.3 km) downstream from mouth of Steamboat Creek, and 6 mi (10 km) southeast of Sparks.

PERIOD OF RECORD.--Chemical analyses, biological data, and water temperatures: May 1974 to current year (in addition, monthly data were obtained by Nevada Environmental Protection Services personnel from June 1967 to April 1974).

Specific conductance: Maximum, 262 micromhos Feb. 13; minimum, 135 micromhos Apr. 14.
Water temperature: Maximum, 19.5°C June 28; minimum, 2.5°C Jan. 12.

Specific conductance: Maximum, 264 micromhos Aug. 1, 1974; minimum, 84 micromhos May 21, 1975.
Water temperature: Maximum, 19.5°C July 22, 1975, and June 28, 1976; minimum, 1.5°C Dec. 23, 1974.

REMARKS.--Estimated streamflows are based on data from station 10350000, and are considered accurate for Lockwood site except during periods of low flow, when a small diversion for irrigation in Lockwood area could significantly decrease streamflow. Effluent from Reno-Sparks Joint Waste Water Treatment Plant enters Steamboat Creek several hundred feet upstream from confluence with Truckee River. Extremes are based mostly on semimonthly data. Samples are collected by Nevada Environmental Protection Services personnel.

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10350050 Truckee River at Lockwood, Nev.--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED SOLIDS (FEST- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NON- FART- RESIDUE (MG/L)
OCT.												
08...	.05	.50	.71	1.8	.17	--	3.7	390	--	--	--	48
24...	.03	.39	.23	.37	.18	--	6.1	250	--	--	--	36
NOV.												
25...	.05	.40	.18	.98	.27	.24	--	190	141	139	179	3
DEC.												
09...	.02	.55	.45	1.2	.22	--	3.4	150	--	--	--	6
23...	.05	.33	.52	1.2	.25	--	2.5	230	--	--	--	5
JAN.												
12...	.04	.63	.67	1.7	.42	--	2.8	320	--	--	--	9
29...	.05	.53	.87	1.8	.38	--	3.1	340	--	--	--	8
FEB.												
13...	.02	.88	.82	2.0	.46	--	3.8	370	--	--	--	10
26...	.04	.33	.64	1.2	.21	.18	4.8	400	130	131	180	9
MAR.												
16...	.02	.77	.20	1.2	.21	--	2.5	670	--	--	--	23
30...	.02	.63	.67	1.5	.24	--	3.3	530	--	--	--	14
APR.												
14...	.03	.58	.00	.78	.22	--	3.1	470	--	--	--	18
27...	.04	--	--	.25	.30	--	4.1	640	--	--	--	18
MAY												
10...	.02	.13	.55	.89	.20	.16	4.8	790	86	89	223	40
25...	.04	.43	.43	--	.23	--	2.1	760	--	--	--	68
JUNE												
08...	.05	.51	.19	.90	.37	--	5.7	560	--	--	--	22
28...	.07	.81	.59	1.7	.45	--	5.3	1300	--	--	--	29
JULY												
13...	.04	.53	.47	1.3	.34	--	3.6	880	--	--	--	12
27...	.05	.19	.51	1.0	.26	--	3.8	970	--	--	--	29
AUG.												
24...	.01	.18	.44	1.2	.16	.07	3.9	830	126	--	190	21
SEP.												
13...	.02	.32	.36	1.4	.40	--	5.9	690	--	--	--	29
27...	.02	.00	.81	1.2	.33	--	9.4	300	--	--	--	26

DATE	HARD- NESS (CA.MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT.											
08...	--	--	191	--	9.0	5	4	--	14	.000	.000
24...	--	--	174	--	6.5	--	3	--	4	--	--
NOV.											
25...	65	1.0	225	8.0	3.5	--	2	8.0	4	.000	.000
DEC.											
09...	--	--	211	--	5.5	--	1	--	4	.000	.000
23...	--	--	203	--	3.0	--	5	--	7	--	--
JAN.											
12...	--	--	215	--	2.5	--	6	--	6	7.50	2.00
29...	--	--	225	--	5.0	--	5	--	7	--	--
FEB.											
13...	--	--	262	--	5.5	--	6	--	9	5.30	.700
26...	58	1.0	217	8.0	5.5	--	3	10.8	4	--	--
MAR.											
16...	--	--	173	--	--	--	5	--	14	--	--
30...	--	--	171	--	7.5	--	7	--	8	.000	.000
APR.											
14...	--	--	135	--	8.0	--	5	--	14	.000	.000
27...	--	--	140	--	7.5	--	7	--	19	--	--
MAY											
10...	44	.7	142	7.9	12.5	--	2	9.3	17	.000	.000
25...	--	--	173	--	14.0	--	--	--	10	--	--
JUNE											
08...	--	--	197	7.9	14.0	--	5	--	16	.000	.000
28...	--	--	182	8.0	19.5	--	3	--	--	--	--
JULY											
13...	--	--	196	7.8	18.5	--	5	--	18	.000	.000
27...	--	--	175	8.0	19.0	--	6	--	7	--	--
AUG.											
24...	--	--	191	8.3	16.5	--	6	--	9	4.86	.051
SEP.											
13...	--	--	199	8.1	17.0	--	8	--	7	--	--
27...	--	--	182	8.0	14.5	--	4	--	3	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10350050 Truckee River at Lockwood, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
DATE	TIME					
OCT.						
08...	1100	13	0	10	0	20
NOV.						
25...	1215	12	100	<10	0	30
DEC.						
09...	1130	13	50	<10	10	10
JAN.						
12...	1300	13	0	<10	0	10
FEB.						
13...	1430	17	0	<10	10	<10
MAR.						
16...	1430	12	0	<10	0	10
APR.						
14...	1215	6	300	10	0	10
MAY						
10...	1400	6	0	<10	0	10
JUNE						
08...	1300	7	100	0	10	--
JULY						
13...	1105	7	300	0	--	--
AUG.						
24...	1310	6	0	<10	0	50
SEP.						
27...	1105	8	0	<10	0	40

		TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DATE	TIME						
OCT.							
08...	<100	10	.7	0	0	10	
NOV.							
25...	<100	20	.9	0	10	30	
DEC.							
09...	<100	30	.0	0	<10	30	
JAN.							
12...	<100	20	.0	0	<10	30	
FEB.							
13...	<100	40	.2	0	<10	30	
MAR.							
16...	<100	60	.0	0	<10	10	
APR.							
14...	<100	40	1.9	0	<10	0	
MAY							
10...	<100	40	.0	0	<10	0	
JUNE							
08...	<100	40	.1	--	0	60	
JULY							
13...	<100	70	1.9	0	0	40	
AUG.							
24...	<100	60	.1	0	<10	10	
SEP.							
27...	<100	40	.1	0	<10	10	

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- FLDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
NOV.												
25...	1310	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB.												
26...	1158	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TIME	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
NOV.													
25...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00	--
FEB.													
26...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00	.00	.00

PYRAMID AND WINNEMUCCA LAKES BASIN

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10350390 Truckee River above Tracy, Nev.

LOCATION.--Lat 39°33'53", long 119°31'15", in NE¼NW¼ sec.33, T.20 N., R.22 E., Storey County, on right bank about 1,200 ft (370 m) upstream from Tracy powerplant, about 200 ft (60 m) upstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²), approximately.

PERIOD OF RECORD.--Water temperatures: April 1972 to current year (data prior to Aug. 1972, which were collected monthly or more frequently, are unpublished).

EXTREMES.--1975-76:

Water temperature: Maximum daily, 23.5°C July 13, 14 (temperatures may have been slightly higher during period of missing record in June and July); minimum daily, 1.5°C Jan. 2-4.

Period of record:

Water temperature: Maximum daily, 26.0°C Aug. 5, 1972; minimum daily, freezing point on several days in December 1972, January 1973, January 1974, and on Jan. 1, 1975.

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

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	8.5	8.0	6.0	6.0	2.5	2.0	5.5	5.0	6.5	4.5
2	16.5	15.0	9.0	8.0	7.0	6.0	2.0	1.5	6.0	5.0	4.5	2.5
3	17.0	15.5	9.5	8.0	7.0	6.0	1.5	1.5	6.0	5.0	2.5	2.0
4	17.0	15.5	10.5	8.5	6.5	6.0	2.5	1.5	5.0	3.5	4.0	2.5
5	17.0	15.5	10.5	9.5	6.5	6.0	4.0	2.5	3.5	2.5	---	---
6	15.5	14.5	10.5	9.5	7.0	6.5	4.0	3.5	2.5	2.0	---	---
7	14.5	11.5	10.5	10.5	6.5	5.5	3.5	3.0	2.0	2.0	---	---
8	11.0	10.0	10.5	9.0	5.5	5.0	3.5	3.0	3.5	2.0	---	---
9	12.5	11.0	9.0	7.5	5.5	5.0	4.0	3.5	4.0	3.5	---	---
10	12.0	11.5	8.0	7.0	5.5	5.0	4.0	3.5	4.0	3.0	---	---
11	12.0	11.5	7.0	6.5	5.5	4.5	3.5	3.5	4.0	3.0	---	---
12	12.0	11.0	6.5	6.0	5.0	4.5	3.5	3.5	5.0	3.0	---	---
13	11.0	10.5	7.0	6.5	4.5	3.0	3.5	3.5	6.0	5.0	---	---
14	11.0	10.0	7.5	7.0	3.0	2.0	4.0	3.5	6.5	5.5	---	---
15	12.0	11.0	9.5	7.5	2.0	2.0	4.5	4.0	6.0	4.5	---	---
16	12.5	11.5	10.0	9.0	2.0	2.0	5.0	4.5	4.5	4.5	---	---
17	12.5	12.0	8.5	6.0	2.0	2.0	5.0	4.5	6.5	4.5	---	---
18	13.0	12.0	6.0	4.0	2.5	2.0	4.5	4.0	7.0	6.0	---	---
19	12.5	11.5	4.0	3.0	2.5	2.0	4.5	4.0	6.0	4.5	---	---
20	12.0	11.0	3.5	3.0	2.5	2.0	4.0	3.5	4.5	3.5	---	---
21	12.0	11.5	4.5	3.5	2.5	2.5	3.5	3.0	5.0	3.5	---	---
22	11.5	10.0	4.5	4.0	4.0	2.5	3.5	3.0	5.0	4.5	---	---
23	10.0	8.5	4.5	4.0	4.0	3.5	4.0	3.5	5.5	4.5	---	---
24	8.5	7.5	5.0	4.5	4.5	4.0	5.0	4.0	5.5	5.0	---	---
25	9.0	8.0	5.5	5.0	4.5	4.0	4.5	4.0	6.0	5.0	---	---
26	10.0	8.0	5.5	5.0	5.0	4.5	4.0	3.5	7.5	5.5	---	---
27	10.0	9.5	5.5	5.0	6.0	5.0	4.0	3.5	8.0	6.5	---	---
28	8.5	6.5	5.0	4.0	6.0	5.5	5.0	4.0	8.0	7.5	---	---
29	8.0	7.0	4.0	3.0	6.0	5.5	5.5	5.0	7.5	6.5	---	---
30	8.0	8.0	4.5	3.0	6.0	4.0	6.0	5.0	---	---	---	---
31	8.5	8.0	---	---	4.0	2.5	6.0	5.0	---	---	---	---
MONTH	17.0	6.5	10.5	3.0	7.0	2.0	6.0	1.5	8.0	2.0	---	---

10350390 Truckee River above Tracy, Nev.--Continued

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

[illegible]

PYRAMID AND WINNEMUCA LAKES BASIN

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10350400 Truckee River below Tracy, Nev.

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Washoe County, on left bank on upstream side of bridge, 200 ft (60 m) downstream from Tracy powerplant, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft (1,291.788 m) above mean sea level (levels by S.E.&A Engineers).

EXTREMES.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) Oct. 27, gage height, 6.65 ft (2.027 m); minimum, 323 ft³/s (9.15 m³/s) July 1. Period of record: Maximum discharge, 3,660 ft³/s (104 m³/s) May 15, 1975, gage height, 8.75 ft (2.667 m); minimum, 168 ft³/s (4.76 m³/s) July 13, 1972.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs and other lakes, powerplants, and many diversions for irrigation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	686	809	512	490	495	622	754	791	640	375	768	477
2	619	742	518	470	491	559	706	824	580	466	837	439
3	612	717	521	525	502	578	836	815	485	400	664	446
4	609	681	510	527	507	603	858	815	490	420	639	492
5	595	645	504	536	522	608	861	846	480	430	752	522
6	585	586	512	537	508	606	810	857	485	400	655	588
7	689	515	518	532	518	611	738	840	500	410	632	515
8	695	544	512	521	513	625	717	895	480	430	624	492
9	688	514	507	521	545	648	783	900	502	415	676	472
10	714	499	513	526	562	635	925	900	554	440	571	488
11	841	514	497	518	527	626	897	900	527	461	577	697
12	803	510	497	516	515	629	855	890	499	405	594	672
13	766	509	505	511	509	651	841	890	497	417	615	607
14	798	487	490	514	535	662	857	940	485	368	577	631
15	776	484	485	512	534	669	909	850	460	464	692	692
16	759	511	510	505	525	724	945	770	462	470	684	697
17	743	594	545	505	559	686	931	750	455	585	599	637
18	711	506	525	500	539	692	934	670	480	640	555	612
19	691	492	520	499	545	629	900	640	440	585	563	599
20	686	489	510	500	531	639	893	600	455	604	523	577
21	673	485	505	498	518	642	961	590	490	548	489	636
22	661	478	515	500	519	642	885	620	520	558	523	640
23	687	476	520	499	515	610	847	600	450	594	564	604
24	669	475	525	530	511	600	878	580	435	653	550	545
25	653	469	520	510	507	603	926	540	430	613	519	561
26	715	466	540	504	508	642	925	570	405	580	540	513
27	1180	483	560	502	529	699	920	640	410	549	522	520
28	860	531	545	500	525	747	844	655	488	590	506	499
29	790	498	540	496	552	739	789	550	395	630	522	470
30	793	500	540	499	---	734	765	530	370	659	511	505
31	855	---	520	488	---	741	---	620	---	692	494	---
TOTAL	22602	16209	16041	15791	15166	20101	25690	22878	14349	15851	18537	16845
MEAN	729	540	517	509	523	648	856	738	478	511	598	562
MAX	1180	809	560	537	562	747	961	940	640	692	837	697
MIN	585	466	485	470	491	559	706	530	370	368	489	439
AC-FT	44830	32150	31820	31320	30080	39870	50960	45380	28460	31440	36770	33410
CAL YR 1975 TOTAL	360996											
MEAN 989												
MAX 3450												
MTN 383												
AC-FT 716000												
WTR YR 1976 TOTAL	220060											
MEAN 601												
MAX 1180												
MIN 368												
AC-FT 436500												

NOTE.--No gage-height record Dec. 12 to Jan. 2, May 7 to June 8, June 15-23.

WATER-QUALITY RECORDS

EXTREMES.--1975-76:

Period of record:

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

[illegible]

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LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼ sec.33, T.20 N., R.22 E., Storey County, on right bank 200 ft (60 m) downstream from Tracy powerplant, about 1,500 ft (460 m) downstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

PERIOD OF RECORD.--Water temperatures: April 1972 to July 1975, April to September 1976.

Water temperature: Maximum daily, 24.0°C July 13; minimum daily not measured.

Water temperature: Maximum daily, 29.5°C June 29, 1972 (probably not exceeded during periods of missing record in summers of 1974 and 1975); minimum daily, freezing point Jan. 5-9, 1973, and Jan. 2, 1974.

[illegible]

LOCATION.--Lat 39°33'55", long 119°29'02", in SE¼SW¼ sec.26, T.20 N., R.22 E., Storey County, on right bank about 30 ft (10 m) downstream from Clark Bridge, about 2 mi (3 km) downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi (0.3 km) west of Clark.

PERIOD OF RECORD.--Water temperatures: April 1972 to current year (data prior to June 1972, which were collected monthly, are unpublished).

Period of record:

Water temperature: Maximum daily, 29.0°C July 13, 1972; minimum daily (1972-75), freezing point on several days in January 1973 and January 1974.

[illegible]

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10350500 Truckee River at Clark, Nev.--Continued

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

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10351300 Truckee Canal near Wadsworth, Nev.

LOCATION.--Lat 39°36'25", long 119°18'35", in NW¼ sec.17, T.20 N., R.24 E., Storey County, on left bank at upstream end of Tunnel No. 3 and 2 mi (3 km) southwest of Wadsworth.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi (0.5 km) downstream from base gage.

AVERAGE DISCHARGE.--10 years, 273 ft³/s (7.731 m³/s), 197,800 acre-ft/yr (244 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 955 ft³/s (27.0 m³/s) June 10, 1970; no flow at times during some years.

REMARKS.--Records fair. Flow is regulated by Derby Dam (including two wasteways between gage, and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam. According to the U.S. Bureau of Reclamation about 1,150 acre-ft (1.42 hm³) were pumped from the Truckee River into the Canal downstream from the auxiliary gage during the period Nov. 12 to Mar. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	573				0	540	349	239	248	238	238
2	432	569				0	497	348	252	263	323	230
3	436	571				0	516	351	303	242	427	229
4	461	567				0	530	345	240	226	407	237
5	461	554				0	542	362	241	240	388	249
6	462	218				0	565	369	236	235	378	256
7	485	76				0	586	391	241	219	380	254
8	481	124				0	559	410	234	234	374	252
9	468	128				0	565	400	231	238	382	250
10	489	52				0	595	401	241	240	370	259
11	492	14				0	584	406	267	247	355	261
12	489	0				0	571	409	254	251	364	266
13	484	0				0	563	409	247	243	377	271
14	488	0				0	555	399	254	233	341	295
15	527	0				0	557	392	241	237	357	296
16	571	0				0	583	391	230	265	328	395
17	583	0				0	581	381	234	267	316	447
18	574	0				0	610	356	242	274	316	415
19	563	0				0	608	345	235	278	328	409
20	565	0				0	595	292	233	272	316	398
21	565	0				0	608	260	243	270	273	402
22	563	0				0	583	255	231	270	251	467
23	571	0				0	574	253	237	279	304	442
24	569	0				0	575	243	234	293	286	381
25	565	0				40	566	226	244	288	278	367
26	573	0				166	567	235	237	284	273	346
27	563	0				241	534	221	241	290	268	347
28	552	0				267	518	233	249	309	255	356
29	566	0				320	483	225	235	320	237	323
30	571	0			---	387	408	222	232	317	238	332
31	582	---			---	515	---	244	---	299	236	---
TOTAL	16193	3446	0	0	0	1936	16718	10123	7278	8171	9964	9670
MEAN	522	115	0	0	0	62.5	557	327	243	264	321	322
MAX	583	573	0	0	0	515	610	410	303	320	427	467
MIN	432	0	0	0	0	0	408	221	230	219	236	229
AC-FT	32120	6840	0	0	0	3840	33160	20080	14440	16210	19760	19180
CAL YR 1975	TOTAL	83633.39	MEAN	229	MAX	583	MIN	0	AC-FT	165900		
WTR YR 1976	TOTAL	83499.00	MEAN	228	MAX	610	MIN	0	AC-FT	165600		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351350 Fernley A Drain near Fernley, Nev.

LOCATION.--Lat 39°36'00", long 119°12'10", in SW¼NW¼ sec.17, T.20 N., R.25 E., Lyon County, on right bank 2.6 mi (4.2 km) east of Fernley.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,110 ft (1,253 m), from topographic map. Prior to Aug. 13, 1971, water-stage recorder at site 60 ft (18 m) upstream at datum 5.53 ft (1.686 m) higher. Aug. 13, 1971, to Feb. 20, 1973, water-stage recorder at present site at datum 2.89 ft (0.881 m) higher. Feb. 21, 1973 to July 28, 1975, water-stage recorder at present site at datum 2.00 ft (0.070 m) higher.

AVERAGE DISCHARGE.--8 years, 4.60 ft³/s (0.130 m³/s), 4,560 acre-ft/yr (5.62 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, about 60 ft³/s (1.70 m³/s) July 21, 1971; minimum daily, 0.40 ft³/s (0.011 m³/s) Mar. 30, 1974.

REMARKS.--Records poor. Flow in canal is return flow from lands irrigated by Truckee Canal and discharges to Fernley State Wildlife Management Area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	5.1	2.0	1.3	1.3	.88	1.9	4.4	7.3	6.3	5.3	6.3
2	23	4.5	1.9	1.3	1.3	.88	4.6	4.8	7.4	7.5	3.7	5.4
3	21	4.5	1.7	1.4	1.3	.93	2.7	7.5	7.2	6.9	3.2	4.1
4	19	7.7	1.7	1.4	1.3	.90	3.3	8.0	8.0	8.7	3.1	4.0
5	16	8.6	1.7	1.4	1.2	.90	4.9	8.0	7.4	8.9	3.1	7.5
6	14	5.7	1.7	1.3	1.2	.90	6.4	8.0	7.3	13	3.1	3.3
7	11	4.5	1.7	1.4	1.3	.96	6.3	8.4	3.9	11	3.0	3.1
8	14	4.4	1.7	1.4	1.2	.90	4.7	9.0	6.3	8.9	3.1	4.6
9	17	4.1	1.7	1.4	1.2	.90	3.9	8.2	12	7.5	3.2	5.3
10	23	4.0	1.6	1.4	1.1	.86	3.2	8.0	11	6.3	3.6	7.2
11	15	4.0	1.6	1.4	1.0	.86	2.4	7.6	5.2	7.4	3.4	7.2
12	8.4	3.8	1.6	1.3	.96	.83	1.7	7.4	3.5	6.4	3.3	4.3
13	6.4	3.7	1.6	1.3	.94	.79	2.5	7.4	3.2	3.8	3.2	5.2
14	5.8	3.7	1.5	1.3	.90	.79	3.1	7.4	3.3	6.2	6.0	7.1
15	6.7	4.0	1.5	1.3	.90	.65	1.1	7.4	3.8	6.4	7.3	5.0
16	7.3	3.2	1.5	1.3	.94	.46	1.1	7.6	2.9	6.9	4.0	3.8
17	5.9	3.6	1.5	1.3	.90	.44	2.2	7.6	3.5	8.7	12	4.3
18	4.6	3.4	1.6	1.3	.90	.46	6.2	7.6	3.6	4.6	13	4.4
19	5.5	3.4	1.5	1.3	.86	.54	4.2	7.6	13	5.1	15	4.6
20	6.5	3.5	1.5	1.3	.83	.54	5.5	7.6	9.7	7.1	11	4.4
21	8.2	3.6	1.5	1.3	.86	.54	2.4	7.4	4.0	9.4	12	3.3
22	9.7	2.9	1.4	1.3	.85	.54	2.3	7.4	5.0	4.5	12	3.3
23	6.1	2.7	1.4	1.3	.85	.52	2.3	7.4	7.6	11	5.8	6.3
24	6.7	2.7	1.4	1.2	.83	.51	3.3	7.4	5.0	9.7	5.4	5.3
25	7.7	2.5	1.4	1.2	.83	.52	2.6	7.4	6.0	8.0	6.3	8.5
26	12	2.4	1.4	1.2	.86	.54	3.8	7.4	5.3	8.5	5.3	10
27	8.5	2.4	1.4	1.2	.86	.56	2.8	7.4	6.0	6.6	5.1	7.9
28	6.4	2.5	1.4	1.2	.86	.57	2.6	7.3	4.5	4.6	4.9	7.8
29	5.6	2.3	1.4	1.2	.90	.57	2.6	7.3	4.9	6.0	8.8	4.0
30	6.1	2.1	1.4	1.2	---	.60	2.7	7.3	7.3	3.9	4.2	4.4
31	6.0	---	1.4	1.3	---	.60	---	7.3	---	9.1	4.4	---
TOTAL	335.1	115.5	48.3	40.4	29.23	21.44	99.3	230.5	185.1	228.9	186.8	161.9
MEAN	10.8	3.85	1.56	1.30	1.01	.69	3.31	7.44	6.17	7.38	6.03	5.40
MAX	23	8.6	2.0	1.4	1.3	.96	6.4	9.0	13	13	15	10
MIN	4.6	2.1	1.4	1.2	.83	.44	1.1	4.4	2.9	3.8	3.0	3.1
AC-FT	665	229	96	80	58	43	197	457	367	454	371	321

CAL YR 1975 TOTAL 2593.80 MEAN 7.11 MAX 32 MIN .70 AC-FT 5140
WTR YR 1976 TOTAL 1682.47 MEAN 4.60 MAX 23 MIN .44 AC-FT 3340

NOTE.--No gage-height record May 3 to June 3.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 Truckee Canal near Hazen, Nev.

LOCATION.--Lat 39°32'15", long 119°04'15", in NE¼SW¼ sec.4, T.19 N., R.26 E., Churchill County, on left bank 0.1 mi (0.2 km) downstream from Hazen check dam and 2.3 mi (3.7 km) southwest of Hazen.

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

GAGE.--Water-stage recorder. Datum of gage is 4,172.10 ft (1,271.656 m) above mean sea level (Bureau of Reclamation datum). Since Mar. 17, 1972, auxiliary water-stage recorder 20 ft (6 m) upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi (10 km) downstream from base gage.

AVERAGE DISCHARGE.--10 years, 198 ft³/s (5.607 m³/s), 143,500 acre-ft/yr (177 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 916 ft³/s (25.9 m³/s) Feb. 3, 1967; no flow at times.

REMARKS.--Records fair. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	537				0	475	171	63	54	192	109
2	318	528				0	467	136	79	41	284	102
3	333	523				0	446	170	106	38	395	107
4	325	522				0	455	164	133	35	417	125
5	327	510				0	466	198	150	79	362	130
6	353	400				0	472	197	147	85	338	155
7	376	38				0	479	206	162	60	334	162
8	393	3.2				0	458	249	123	56	298	171
9	356	7.4				0	460	290	78	92	277	139
10	379	45				0	489	323	127	71	302	123
11	411	8.8				0	484	291	189	101	249	149
12	452	5.0				0	501	264	192	149	199	173
13	450	3.8				0	490	274	200	106	176	189
14	441	3.1				0	490	305	211	69	158	190
15	466	2.6				0	493	292	183	51	205	285
16	510	.80				0	563	266	162	90	221	351
17	519	.70				0	521	287	153	110	152	387
18	524	.60				24	506	271	104	141	149	394
19	497	.50				42	539	223	62	155	160	374
20	482	.20				0	526	212	94	151	155	362
21	472	0				0	534	202	141	152	142	355
22	482	0				0	525	140	86	159	136	395
23	503	0				0	522	123	88	129	186	384
24	526	0				20	501	131	89	162	205	352
25	509	0				8.0	483	89	61	178	184	311
26	497	0				74	506	89	67	177	171	287
27	510	0				199	451	82	56	156	195	281
28	476	0				254	420	66	91	148	176	307
29	472	0				290	399	59	65	170	155	306
30	483	0			---	352	309	47	50	198	141	290
31	529	---			---	441	---	68	---	175	117	---
TOTAL	13704	3139.70	0	0	0	1704.0	14430	5885	3512	3538	6831	7445
MEAN	442	105	0	0	0	55.0	481	190	117	114	220	248
MAX	529	537	0	0	0	441	563	323	211	198	417	395
MIN	318	0	0	0	0	0	309	47	50	35	117	102
AC-FT	27180	6230	0	0	0	3380	28620	11670	6970	7020	13550	14770
CAL YR 1975	TOTAL	57169.48	MEAN	157	MAX	537	MIN	0	AC-FT	113400		
WTR YR 1976	TOTAL	60188.70	MEAN	164	MAX	563	MIN	0	AC-FT	119400		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351600 Truckee River below Derby Dam, near Wadsworth, Nev.

LOCATION.--Lat 39°35'05", long 119°26'25", in NW¼SE¼ sec.19, T.20 N., R.23 E., Storey County, on right bank 1,500 ft (500 m) downstream from Derby Dam, 3.2 mi (5.1 km) downstream from Clark, and 9 mi (14 km) southwest of Wadsworth.

DRAINAGE AREA.--1,670 mi² (4,325 km²).

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map.

AVERAGE DISCHARGE.--57 years (1918-57, 1958-76), 337 ft³/s (9.544 m³/s), 244,200 acre-ft/yr (301 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 ft³/s (30.6 m³/s) Oct. 27, gage height, 4.55 ft (1.387 m); minimum, 47 ft³/s (1.33 m³/s) Mar. 30.

Period of record: Maximum discharge, 18,400 ft³/s (521 m³/s) Feb. 1, 1963, gage height, 14.26 ft (4.346 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir.

REVISED RECORDS.--WSP 1714: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	280	550	468	424	431	221	389	312	122	439	214
2	140	250	557	451	415	383	208	418	312	177	473	195
3	107	200	557	497	425	403	278	414	238	210	252	192
4	97	170	558	497	422	459	303	412	208	189	223	199
5	94	136	571	498	436	459	307	436	215	188	337	215
6	85	258	595	506	452	460	241	420	214	189	296	297
7	142	247	624	501	482	462	162	421	232	190	251	252
8	198	255	638	494	476	472	159	439	233	201	234	230
9	196	247	650	489	487	499	196	456	225	192	278	210
10	188	307	648	498	528	482	321	425	266	212	224	204
11	306	355	621	488	481	472	317	398	230	207	206	347
12	342	366	608	487	467	473	293	409	220	194	211	401
13	271	432	600	480	455	492	289	424	207	180	217	323
14	287	459	556	485	471	502	301	440	199	176	228	312
15	226	460	531	481	486	510	327	430	197	189	294	316
16	176	469	553	475	469	544	362	364	199	233	367	272
17	153	576	573	474	490	497	338	319	197	287	278	202
18	135	491	534	469	483	501	324	284	199	365	225	185
19	118	464	511	469	479	457	301	270	200	323	213	181
20	105	462	501	468	479	452	284	316	179	327	208	179
21	99	466	486	467	460	458	342	307	195	295	209	192
22	94	460	487	431	461	459	307	317	243	294	215	198
23	100	456	494	405	462	432	272	320	221	318	250	179
24	102	454	486	427	457	422	295	322	191	368	230	170
25	92	431	486	418	454	412	326	271	184	339	225	170
26	99	473	494	413	391	395	358	287	173	321	226	162
27	663	522	511	418	348	383	375	321	172	264	225	156
28	347	548	501	422	350	410	326	363	213	284	216	156
29	251	534	496	421	365	364	302	326	191	320	224	150
30	227	534	493	428	---	279	329	263	148	343	236	148
31	271	---	474	417	---	189	---	346	---	395	227	---
TOTAL	5911	11762	16944	14342	13055	13613	8764	11327	6413	7892	7937	6607
MFAN	191	392	547	463	450	439	292	365	214	255	256	220
MAX	663	576	650	506	528	544	375	456	312	395	473	401
MIN	85	136	474	405	348	189	159	263	148	122	206	148
AC-FT	11720	23330	33610	28450	25890	27000	17380	22470	12720	15650	15740	13100
CAL YR 1975	TOTAL	273622	MEAN 750	MAX 3540	MIN 68	AC-FT 542700						
WTR YR 1976	TOTAL	124567	MEAN 340	MAX 663	MIN 85	AC-FT 247100						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351650 Truckee River at Wadsworth, Nev.

LOCATION.--Lat 39°38'19", long 119°16'09", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T.21 N., R.24 E., Washoe County, on right bank 0.5 mi (0.8 km) downstream from U.S. Highway 40 bridge and 0.2 mi (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,719 mi² (4,452 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft (1,230.752 m) above mean sea level, datum of 1929, supplementary adjustment of 1956.

AVERAGE DISCHARGE.--11 years, 641 ft³/s (18.15 m³/s), 464,400 acre-ft/yr (573 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft³/s (32.0 m³/s) Aug. 1, gage height, 6.29 ft (1.917 m); minimum, 103 ft³/s (2.92 m³/s) July 1.

Period of record: Maximum discharge, 7,790 ft³/s (220 m³/s) Jan. 24, 1970, gage height, 11.65 ft (3.551 m); maximum gage height, 11.90 ft (3.627 m), May 22, 1967; minimum discharge, 3.3 ft³/s (0.094 m³/s) July 14, 1968.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation above and below station, and by Derby Dam which diverts water out of the basin to Lahontan Reservoir.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	288	535	488	463	605	190	427	335	108	627	196
2	233	217	541	467	462	531	195	462	326	125	653	174
3	161	173	555	475	476	524	255	477	279	179	317	162
4	126	154	540	500	471	574	330	470	205	152	232	162
5	131	116	533	529	500	584	347	491	206	153	371	184
6	117	384	533	535	494	579	270	475	203	155	366	262
7	140	521	539	531	501	591	156	503	225	165	278	251
8	200	462	531	520	490	610	135	479	230	178	250	230
9	213	437	530	513	505	637	173	531	221	168	296	190
10	191	523	525	523	566	615	324	493	269	185	251	172
11	303	551	515	514	510	608	347	437	242	183	206	291
12	345	545	519	514	500	610	316	461	226	180	214	450
13	283	562	519	498	481	637	303	476	214	163	222	326
14	304	522	495	504	492	658	323	458	209	157	225	274
15	261	520	477	498	519	675	344	478	206	157	273	304
16	196	529	498	488	497	741	433	373	209	213	394	270
17	168	647	539	485	531	727	407	334	192	264	271	179
18	156	571	516	476	521	733	363	295	179	395	208	153
19	140	517	496	479	517	667	344	264	188	366	178	153
20	125	512	495	481	514	643	289	304	175	354	178	149
21	124	524	482	479	479	669	372	301	171	331	174	156
22	115	510	496	445	477	674	356	314	226	310	181	177
23	117	494	510	457	486	632	292	318	222	352	220	154
24	118	505	503	497	480	621	298	316	180	434	199	149
25	110	495	501	490	475	578	339	271	169	391	197	147
26	106	495	511	479	431	446	400	264	162	395	189	149
27	644	492	544	483	478	410	443	313	154	288	190	142
28	361	565	531	475	481	463	370	385	182	300	182	144
29	244	542	529	462	496	397	321	361	173	326	185	140
30	223	518	525	461	---	302	340	282	137	359	209	133
31	272	---	499	455	---	180	---	366	---	456	203	---
TOTAL	6483	13891	16062	15201	14293	17921	9375	12179	6315	7942	8139	6023
MEAN	209	463	518	490	493	578	313	393	211	256	263	201
MAX	644	647	555	535	566	741	443	531	335	456	653	450
MIN	106	116	477	445	431	180	135	264	137	108	174	133
AC-FT	12860	27550	31860	30150	28350	35550	18600	24160	12530	15750	16140	11950
CAL YP 1975 TOTAL	293956				3660	68		583100				
WTR YP 1976 TOTAL	133824				741	106		265400				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351650 Truckee River at Wadsworth, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water temperatures: March 1965 to current year (data prior to July 1965, which were collected monthly, are unpublished).

EXTREMES.--1975-76:

Water temperature: Maximum daily, 26.0°C July 10, 13, 27; minimum daily, freezing point Jan. 3, 4, Feb. 6.

Period of record:

Water temperature: Maximum daily, 28.5°C July 20, Aug. 11, 12, 1970, and July 27, 28, 1971; minimum daily, freezing point on several days during winter months of 1974-76.

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

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	14.0	10.0	7.0	5.5	3.5	1.5	0.5	5.0	3.0	6.5	4.0
2	18.5	14.0	10.5	7.0	6.0	4.5	1.0	0.5	5.0	3.0	4.0	2.5
3	18.5	14.5	11.0	7.5	6.0	4.5	1.0	0.0	5.0	3.0	4.5	1.5
4	19.5	14.0	11.0	7.5	6.0	4.5	1.5	0.0	4.0	2.5	4.5	1.0
5	18.5	14.0	10.5	7.5	6.5	5.5	3.0	1.5	1.5	0.5	5.0	2.0
6	17.5	14.5	9.5	7.5	6.0	5.5	3.5	2.5	1.5	0.0	5.5	2.0
7	14.5	11.0	9.5	8.5	6.0	4.5	3.0	2.0	2.5	1.0	6.0	2.5
8	13.5	10.5	9.0	7.5	5.0	4.0	3.5	2.0	3.0	1.5	7.0	4.0
9	14.0	10.5	7.5	6.0	5.0	3.5	3.5	2.5	3.0	2.5	8.5	4.5
10	14.5	11.0	6.5	5.5	5.5	4.0	3.5	2.5	3.5	2.0	8.5	5.0
11	13.0	11.5	6.0	4.5	5.0	4.0	3.5	2.5	4.0	1.5	7.5	4.5
12	12.5	11.0	5.5	4.0	4.5	3.5	3.0	2.0	5.0	2.5	7.5	4.5
13	11.5	10.5	6.0	4.0	3.5	2.5	3.5	2.0	6.0	3.5	7.5	4.0
14	13.0	9.5	6.5	5.0	2.0	1.0	4.0	2.5	6.0	4.5	8.0	5.0
15	13.5	9.5	8.0	6.0	1.0	0.5	4.5	3.0	5.0	4.5	9.0	6.0
16	14.0	10.0	8.5	7.5	1.5	0.5	5.0	3.0	5.5	3.5	10.0	7.0
17	14.5	10.0	7.0	5.0	2.0	0.5	5.0	3.0	5.5	3.5	11.0	8.0
18	14.5	11.0	5.0	3.0	2.0	1.0	4.0	3.0	6.5	4.5	9.5	7.5
19	14.5	10.5	3.0	2.0	2.0	1.0	4.0	2.5	5.5	4.0	7.5	5.0
20	14.5	10.5	3.5	1.5	2.0	1.0	3.5	2.0	4.5	2.5	7.5	4.0
21	13.0	10.5	4.0	2.0	2.0	1.0	2.5	1.0	5.0	2.0	9.0	5.5
22	12.0	9.0	3.5	2.5	3.0	2.0	2.5	1.0	4.5	2.5	9.5	6.5
23	11.0	8.0	4.5	2.5	3.5	2.5	2.5	1.5	5.5	2.5	9.5	6.5
24	10.0	6.5	5.0	3.0	4.0	3.0	4.0	2.0	5.0	3.5	10.5	7.0
25	10.0	7.5	4.5	3.0	4.0	3.0	3.0	2.0	6.5	3.5	8.5	5.0
26	11.5	9.0	5.0	3.0	4.5	3.5	3.5	1.5	7.0	4.0	7.5	5.5
27	9.5	7.0	4.5	3.5	5.0	4.5	3.5	1.5	8.5	5.5	8.5	4.5
28	9.0	6.5	4.0	2.5	5.0	4.0	4.0	2.0	8.5	6.0	9.0	5.5
29	9.5	6.0	2.5	1.0	5.0	4.0	4.5	2.5	8.0	6.0	9.5	5.5
30	8.5	7.5	3.5	2.0	5.0	2.5	5.0	3.5	---	---	10.5	6.0
31	9.5	7.0	---	---	2.5	2.0	4.5	3.0	---	---	12.0	7.5
MONTH	19.5	6.0	11.0	1.0	6.5	0.5	5.0	0.0	8.5	0.0	12.0	1.0

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

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351700 Truckee River near Nixon, Nev.
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW 1/4 sec.18, T.22 N., R.24 E., Washoe County, on right bank 1.0 mi (1.6 km) upstream from Numana Dam, 4 mi (6 km) south of Nixon, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--1,815 mi² (4,701 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to current year at site 1.0 mi (1.6 km) downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

GAGE.--Water-stage recorder. Altitude of gage is 3,940 ft (1,201 m), from topographic map.

AVERAGE DISCHARGE.--19 years, 474 ft³/s (13.42 m³/s), 343,400 acre-ft/yr (423 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 924 ft³/s (26.2 m³/s) Aug. 1, gage height, 4.99 ft (1.521 m); minimum, 127 ft³/s (3.60 m³/s) Oct. 26.

Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) Feb. 2, 1963, gage height, 14.39 ft (4.386 m); minimum daily, 8.1 ft³/s (0.23 m³/s) July 7, 1960.

Flood of Dec. 24, 1955, reached a stage of 14.1 ft (4.298 m), from floodmarks, discharge, 14,000 ft³/s (396 m³/s), by flow-over-dam measurement of peak flow.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi (40 km) upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river.

REVISED RECORDS.--WSP 2127: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	317	538	520	509	640	226	368	326	141	508	229
2	212	259	538	515	511	604	256	410	310	138	647	210
3	187	217	555	530	519	577	263	428	302	196	383	193
4	148	198	550	530	519	622	332	413	215	179	269	186
5	152	159	544	560	522	628	353	423	218	179	313	203
6	138	280	538	572	511	630	321	417	210	182	367	248
7	139	527	555	563	516	627	223	451	227	187	291	274
8	207	462	550	559	516	639	183	398	240	197	268	235
9	233	450	555	549	522	667	205	459	236	180	284	220
10	206	494	550	560	538	650	301	438	257	187	279	205
11	271	535	550	553	544	636	355	389	259	205	226	248
12	352	542	550	555	533	635	339	391	235	208	230	442
13	309	551	550	544	516	647	317	409	216	179	236	353
14	311	525	538	542	522	669	333	396	211	176	241	304
15	305	519	520	541	555	667	342	426	208	161	256	347
16	228	520	515	532	538	714	409	351	207	211	392	329
17	195	610	544	533	550	716	389	330	208	251	322	244
18	181	573	560	522	560	707	359	289	194	359	267	208
19	167	516	533	524	559	670	346	277	200	362	229	205
20	153	511	533	528	575	628	298	284	193	332	218	198
21	152	522	528	528	544	647	338	297	179	329	211	197
22	145	511	533	516	538	645	357	297	213	292	231	220
23	142	495	550	511	544	624	306	306	236	333	252	197
24	148	506	544	540	538	602	293	306	203	393	240	189
25	140	506	544	538	533	590	313	288	187	373	236	182
26	132	500	544	526	511	472	370	253	185	385	222	189
27	494	495	572	532	533	419	396	295	178	306	222	183
28	424	558	572	525	550	464	356	349	187	306	211	186
29	289	528	560	511	544	435	311	343	200	318	210	178
30	260	511	566	512	---	376	318	292	162	352	232	170
31	293	---	550	502	---	231	---	319	---	422	231	---
TOTAL	6986	13897	16929	16573	15470	18478	9508	11092	6602	8019	8724	6972
MFAN	225	463	546	535	533	596	317	358	220	259	281	232
MAX	494	610	572	572	575	716	409	459	326	422	647	442
MIN	132	159	515	502	509	231	183	253	162	138	210	170
AC-FT	13860	27560	33580	32870	30680	36650	18860	22000	13100	15910	17300	13830
CAL YR 1975	TOTAL	292690	MEAN 802	MAX 3590	MIN 113	AC-FT 580600						
WTR YR 1976	TOTAL	139250	MEAN 380	MAX 716	MIN 132	AC-FT 276200						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 Truckee River near Nixon, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: January 1969 to current year (data prior to Jan. 1973 are unpublished).

Water temperatures: March 1960 to current year (data prior to Dec. 1964, which were collected monthly or less frequently, are unpublished).

Biological data: January 1973 to current year.

Sediment records: December 1964 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum, 392 micromhos Feb. 18; minimum, 226 micromhos May 29.

Water temperature: Maximum, 21.5°C July 21, Aug. 25; minimum, freezing point Dec. 15.

Suspended-sediment concentration: Maximum, 54 mg/l July 21; minimum, 9 mg/l Nov. 14.

Period of record:

Specific conductance: Maximum, 900 micromhos Dec. 15, 1969; minimum, 96 micromhos May 17 and June 1, 1969.

Water temperature (1964 to current year): Maximum, 25.5°C July 27, 1971; minimum, freezing point on Jan. 4, 1973, Dec. 15, 1975.

Suspended-sediment concentration: Maximum, 2,530 mg/l Mar. 17, 1967; minimum, 2 mg/l several times during period of record.

REMARKS.--Extremes are based mostly on monthly data. Pesticide analyses by U.S. Environmental Protection Agency.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DTS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
15...	1205	329	16	17	7.2	22	3.4	93	--	20	19
NOV.											
14...	1310	500	18	17	6.3	21	3.4	90	0	19	19
DEC.											
15...	1215	520	18	17	6.3	21	3.1	84	0	21	17
JAN.											
23...	1200	522	18	17	6.3	23	3.3	92	0	19	19
FEB.											
18...	1120	577	19	20	7.9	42	4.8	123	0	29	39
MAR.											
24...	1010	594	19	17	6.1	18	3.2	80	0	18	16
APR.											
23...	1155	276	13	17	7.5	21	3.2	83	0	26	20
MAY											
20...	0945	280	16	18	6.9	23	3.5	88	0	22	22
JUNE											
15...	1100	211	--	--	--	--	--	--	--	--	--
JULY											
21...	1220	325	18	19	7.1	20	3.9	96	0	22	17
AUG.											
25...	1235	249	--	--	--	--	--	--	--	--	--
SEP.											
21...	1240	194	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
15...	.1	.21	.03	.00	.10	.32	.19	.56	.21	.21	3.0
NOV.											
14...	.1	.42	.04	.20	--	.40	--	1.1	.28	--	2.8
DEC.											
15...	.2	.41	.03	.50	--	.60	--	1.5	.36	--	--
JAN.											
23...	.1	.65	.02	.28	.13	.82	.48	1.8	.25	.22	3.7
FEB.											
18...	.2	.68	.02	.17	--	.33	--	1.2	.37	--	--
MAR.											
24...	.1	.71	.03	.04	--	.67	--	1.5	.30	--	--
APR.											
23...	.3	.25	.02	.03	.01	.64	.21	.94	.20	.15	4.2
MAY											
20...	.2	.39	.04	.01	--	.69	--	1.1	.32	--	--
JUNE											
15...	--	.58	.05	.01	--	.56	--	1.3	.35	--	--
JULY											
21...	.1	.56	.04	.03	.00	--	.43	1.8	.40	.31	7.6
AUG.											
25...	--	.65	.05	.00	--	.23	--	.93	.30	--	--
SEP.											
21...	--	.54	.02	.05	--	.75	--	1.4	.27	--	--

PYRAMID AND WINNEMUCA LAKES BASIN

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10351700 Truckee River near Nixon, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (PESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIFS PER 100 ML)
OCT. 15...	159	151	141	72	1.1	263	--	10.5	3	30	17
NOV. 14...	151	148	204	68	1.1	249	8.7	5.5	4	2	13
DEC. 15...	159	145	223	68	1.1	250	8.4	.0	1	2	9
JAN. 23...	159	151	224	68	1.2	264	8.4	2.0	6	--	--
FEB. 14...	232	223	361	82	2.0	392	8.1	6.0	10	--	--
MAR. 24...	145	137	233	68	1.0	226	8.1	8.5	10	0	12
APR. 23...	151	149	113	73	1.1	248	8.7	13.0	7	18	24
MAY 20...	164	155	124	73	1.2	270	8.2	12.5	6	16	140
JUNE 15...	--	--	--	--	--	306	8.3	16.5	1	25	60
JULY 21...	157	155	138	77	1.0	257	8.5	21.5	15	6	28
AUG. 25...	--	--	--	--	--	295	8.6	21.5	10	10	23
SEP. 21...	--	--	--	--	--	326	8.5	18.0	8	16	21

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT. 15...	1205	9	9	0	1	--	0	50	2	20	1	290
JAN. 23...	1200	15	14	<10	0	0	0	<50	0	30	1	390
APR. 23...	1155	9	9	<10	1	0	0	<50	0	10	2	680
JULY 21...	1220	6	7	<10	0	0	0	<50	0	20	1	1500

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANG- NESE (MN) (UG/L)	DIS- SOLVED MANG- NESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 15...	60	0	2	50	30	.0	.0	0	0	20	10
JAN. 23...	30	<100	0	40	30	.1	.0	0	0	110	0
APR. 23...	60	<100	3	60	40	.0	.0	0	0	110	0
JULY 21...	40	<100	2	130	30	.0	.0	0	0	30	0

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 Truckee River near Nixon, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	ALDRIN		CHLOR-DANE		DDD		DDE		DDT	
		TOTAL ALDRIN (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)
OCT. 15...	1205	ND	--	ND	--	ND	--	ND	--	ND	--
JAN. 23...	1200	ND	--	ND	--	ND	--	ND	--	ND	--
APR. 23...	1155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 25...	1235	ND	--	ND	--	ND	--	ND	--	ND	--
DATE		DI-AZINON		DI-ELDRIN		ENDRIN		ETHION		HEPTA-CHLOR	
		TOTAL DI-AZINON (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)
OCT. 15...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
JAN. 23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
APR. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
AUG. 25...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
DATE		HEPTA-CHLOR EPOXIDE		LINDANE		MALA-THION		METHOX-YCHLOR		METHYL PARA-THION	
		IN BOTTOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METH-OXY-CHLOR (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)
OCT. 15...	--	ND	--	ND	--	ND	--	ND	--	ND	--
JAN. 23...	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 25...	--	ND	--	ND	--	ND	--	ND	--	ND	--
DATE		PARA-THION		TOX-APHENE		TRI-THION		TOTAL 2,4-D		TOTAL 2,4,5-T	
		TOTAL PARA-THION (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	IN BOTTOM MA-TERIAL (UG/KG)
OCT. 15...	ND	--	ND	--	ND	--	ND	ND	ND	ND	ND
JAN. 23...	ND	--	ND	--	ND	--	ND	ND	ND	ND	ND
APR. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG. 25...	ND	--	ND	--	ND	--	ND	ND	ND	ND	ND
DATE		2,4-D		2,4,5-T		ATRA-ZINE		SILVEX			
		IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)	IN BOTTOM MA-TERIAL (UG/KG)		
OCT. 15...	--	--	--	--	--	--	--	--	--		
JAN. 23...	--	--	--	--	--	--	--	--	--		
APR. 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND		
AUG. 25...	--	--	--	--	--	--	--	--	--		

ND: NOT DETECTED

10351700 Truckee River near Nixon, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 15	1205	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	68	2	
		<u>Melosira</u>	200	7	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	68	2	
		<u>Rhoicosphenia</u>	68	2	
		Cymbellaceae			
		<u>Cymbella</u>	130	4	
		Fragilariaceae			
		<u>Fragilaria</u>	130	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	68	2	
		Naviculaceae			
		<u>Caloneis</u>	68	2	
		<u>Navicula</u>	1500	51	
		Nitzschiaceae			
		<u>Nitzschia</u>	680	22	
		TOTAL	3000		
Nov 14	1310	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaeae			
		<u>Scenedesmus</u>	400	13	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		<u>Cymbella</u>	99	3	
		<u>Epithemia</u>	99	3	
		Diatomaceae			
		<u>Diatoma</u>	500	17	
		Gomphonemataceae			
		<u>Gomphonema</u>	200	7	
		Naviculaceae			
		<u>Navicula</u>	790	27	
		Nitzschiaceae			
		<u>Nitzschia</u>	890	30	
		TOTAL	3000		
Dec 15	1215	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	67	3	
		<u>Melosira</u>	130	6	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	200	9	
		<u>Rhoicosphenia</u>	130	6	
		Cymbellaceae			
		<u>Cymbella</u>	67	3	
		Diatomaceae			
		<u>Diatoma</u>	67	3	
		Fragilariaceae			
		<u>Synedra</u>	130	6	
		Gomphonemataceae			
		<u>Gomphoneis</u>	67	3	
		Naviculaceae			
		<u>Navicula</u>	1100	53	
		Nitzschiaceae			
		<u>Nitzschia</u>	67	3	
		Tabellariaceae			
		<u>Tabellaria</u>	67	3	
		TOTAL	2200		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 Truckee River near Nixon, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jan 23	1200	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	1500	32	
		Pennales			
		Achnanthaceae			
		Cocconeis	60	1	
		<u>Rhoicosphenia</u>	180	4	
		Cymbellaceae			
		<u>Cymbella</u>	120	3	
		Diatomaceae			
		<u>Diatoma</u>	180	4	
		Fragilariaceae			
		<u>Asterionella</u>	60	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	60	1	
		Naviculaceae			
		<u>Navicula</u>	1500	32	
		Nitzschiaceae			
		<u>Nitzschia</u>	1000	22	
		Surirellaceae			
		<u>Surirella</u>	60	1	
		TOTAL	4800		
Feb 18	1120	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	330	5	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	1200	19	
		<u>Melosira</u>	500	8	
		<u>Stephanodiscus</u>	170	3	
		Pennales			
		Achnanthaceae			
		<u>Rhoicosphenia</u>	170	3	
		Diatomaceae			
		<u>Diatoma</u>	330	5	
		Fragilariaceae			
		<u>Fragilaria</u>	330	5	
		Naviculaceae			
		<u>Navicula</u>	2500	39	
		Nitzschiaceae			
		<u>Nitzschia</u>	580	9	
		Surirellaceae			
		<u>Surirella</u>	170	3	
		Tabellariaceae			
		<u>Tabellaria</u>	83	1	
		TOTAL	6400		
Mar 24	1010	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	3400	25	
		<u>Melosira</u>	1500	11	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	820	6	
		<u>Rhoicosphenia</u>	680	5	
		Cymbellaceae			
		<u>Cymbella</u>	680	5	
		Diatomaceae			
		<u>Diatoma</u>	680	5	
		Fragilariaceae			
		<u>Asterionella</u>	410	3	
		<u>Synedra</u>	140	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	270	2	
		Naviculaceae			
		<u>Caloneis</u>	140	1	
		<u>Navicula</u>	3000	22	
		Nitzschiaceae			
		<u>Nitzschia</u>	1800	13	
		Surirellaceae			
		<u>Surirella</u>	140	1	
		TOTAL	14000		

10351700 Truckee River near Nixon, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 23	1155	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	100	2	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	210	4	
		<u>Rhoicosphenia</u>	310	7	
		Cymbellaceae			
		<u>Cymbella</u>	310	7	
		Diatomaceae			
		<u>Diatoma</u>	410	9	
		Fragilariaceae			
		<u>Hannaea</u>	100	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	210	4	
		Naviculaceae			
		<u>Navicula</u>	2500	52	
		Nitzschiaceae			
		<u>Nitzschia</u>	510	11	
		Surirellaceae			
		<u>Surirella</u>	100	2	
		TOTAL	4700		
May 20	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		<u>Scenedesmus</u>	270	3	
		Volvocales			
		Chlamydomonadaceae			
		<u>Chlamydomonas</u>	68	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	2100	22	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	140	1	
		<u>Rhoicosphenia</u>	680	7	
		Cymbellaceae			
		<u>Cymbella</u>	890	10	
		Diatomaceae			
		<u>Diatoma</u>	820	9	
		Fragilariaceae			
		<u>Fragilaria</u>	340	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	410	4	
		Naviculaceae			
		<u>Navicula</u>	2100	23	
		Nitzschiaceae			
		<u>Nitzschia</u>	1300	14	
		Chrysophyceae			
		Chrysomonadales			
		Ochromonadaceae			
		<u>Dinobryon</u>	210	2	
		TOTAL	9300		
Jun 15	1100	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	660	10	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	190	3	
		<u>Rhoicosphenia</u>	380	6	
		Cymbellaceae			
		<u>Cymbella</u>	380	6	
		Diatomaceae			
		<u>Diatoma</u>	190	3	
		Gomphonemataceae			
		<u>Gomphonema</u>	470	7	
		Naviculaceae			
		<u>Caloneis</u>	94	1	
		<u>Navicula</u>	1900	29	
		<u>Stauroneis</u>	94	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	2200	33	
		Surirellaceae			
		<u>Surirella</u>	94	1	
		TOTAL	6600		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 Truckee River near Nixon, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jul 21	1220	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		<u>Dictyosphaerium</u>	3100	10	
		Scenedesmaceae			
		<u>Scenedesmus</u>	780	3	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	2300	7	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	970	3	
		<u>Rhoicosphenia</u>	710	2	
		Cymbellaceae			
		<u>Cymbella</u>	190	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	910	3	
		Naviculaceae			
		<u>Navicula</u>	2100	7	
		Nitzschiaceae			
		<u>Nitzschia</u>	580	2	
Aug 25	1235	CYANOPHYTA			Sediment sampler
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Anacystis</u>	7100	23	
		<u>Gomphosphaeria</u>	11000	36	
		TOTAL	31000		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Hydrodictyaceae			
		<u>Pediastrum</u>	930	11	
		Occystaceae			
		<u>Ankistrodesmus</u>	120	1	
		Scenedesmaceae			
		<u>Scenedesmus</u>	460	6	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	1000	13	
		<u>Melosira</u>	230	3	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	120	1	
		<u>Rhoicosphenia</u>	580	7	
		Cymbellaceae			
		<u>Cymbella</u>	120	1	
		Diatomaceae			
		<u>Diatoma</u>	350	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	230	3	
		Naviculaceae			
		<u>Navicula</u>	1900	23	
		<u>Stauroneis</u>	120	1	
		Nitzschiaceae			
		<u>Nitzschia</u>	1900	23	
		Surirellaceae			
		<u>Cymatopleura</u>	120	1	
		TOTAL	8100		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 Truckee River near Nixon, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Sep 21	1240	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus	440	7	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	110	2	
		Pennales			
		Achnanthaceae			
		Cocconeis	440	7	
		Rhoicosphenia	440	7	
		Cymbellaceae			
		Amphora	330	5	
		Diatomaceae			
		Diatoma	220	3	
		Gomphonemataceae			
		Gomphonema	560	8	
		Naviculaceae			
		Navicula	1800	27	
		Nitzschaceae			
		Nitzschia	2300	35	
		TOTAL	6700		

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov 14	30	280	260	100	1.4	180	Polyethylene strip
Feb 18	26	40	35	60	0.0	75	Polyethylene strip
May 20	27	94.2	81.3	4.89	0.000	2600	Polyethylene strip
Aug 25	36	20.7	19.1	32.1	2.48	51	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.				
15...	1040	314	13	11
NOV.				
14...	1250	516	9	13
DEC.				
15...	1215	520	15	21
JAN.				
23...	1200	522	12	17
FEB.				
18...	1120	577	28	44
MAR.				
24...	1010	594	40	64
APR.				
23...	1210	276	14	10
MAY				
20...	0945	280	22	17
JUNE				
15...	1100	211	18	10
JULY				
21...	1220	325	54	47
AUG.				
25...	1235	249	32	22
SEP.				
21...	1240	194	33	17

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 41°58'00", long 117°50'01", in SE¼SE¼ sec.8, T.47 N., R.37 E., Humboldt County, on right bank at mouth of canyon, 6.5 mi (10.5 km) southwest of McDermitt.

DRAINAGE AREA.--225 mi² (583 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (1,385 m) from topographic map. Prior to May 11, 1972, at site approximately 300 ft (91 m) downstream on left bank at same datum.

AVERAGE DISCHARGE.--28 years, 30.9 ft³/s (0.875 m³/s), 22,390 acre-ft/yr (27.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 318 ft³/s (9.01 m³/s) Mar. 17, gage height, 3.72 ft (1.134 m) maximum gage height, 3.74 ft (1.140 m) Jan. 31 (backwater from ice) minimum daily discharge, 1.4 ft³/s (0.040 m³/s) July 31.

Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) about Feb. 1, 1963, gage height, 8.64 ft (2.634 m), in gage well, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; no flow for several days in some years.

REMARKS.--Records fair except those for winter months, which are poor. One diversion for about 1,500 acres (6.07 km²) above station.

REVISED RECORDS.--WSP 1214: 1949-50 (P).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	7.6	8.2	7.8	13	34	70	37	27	11	1.7	4.9
2	4.4	7.6	8.6	7.2	14	23	39	38	25	11	3.8	4.7
3	4.3	7.8	9.0	7.6	15	23	41	42	27	11	2.7	4.5
4	4.2	7.8	9.4	8.2	14	18	60	46	26	9.7	4.9	4.4
5	4.4	7.6	9.4	8.6	13	19	82	55	24	9.1	5.0	4.2
6	5.0	7.8	12	9.2	14	19	62	56	22	8.4	4.0	4.1
7	8.3	7.7	12	9.7	15	21	50	55	21	7.9	3.6	4.1
8	7.4	7.9	11	10	16	20	63	55	21	7.6	3.2	4.2
9	6.6	8.1	10	10	16	20	48	57	22	6.9	3.2	3.8
10	6.6	7.5	10	11	16	24	43	66	35	6.0	3.3	3.7
11	8.4	9.1	10	10	17	34	45	64	70	5.4	2.5	5.1
12	8.4	9.9	9.6	9.3	20	27	48	64	41	4.8	2.0	7.2
13	7.8	9.9	8.8	8.8	21	28	39	61	34	3.7	1.9	5.6
14	7.3	8.7	8.0	8.6	31	28	36	67	29	2.8	2.0	5.8
15	6.9	8.6	7.5	9.4	25	32	36	67	28	2.6	5.6	6.8
16	6.8	8.6	8.1	10	17	58	33	61	26	2.4	8.0	11
17	6.6	8.4	9.2	10	16	124	32	57	24	2.5	6.8	9.0
18	6.4	8.2	10	9.5	16	143	32	49	22	4.8	5.8	7.8
19	6.5	8.0	11	9.0	16	64	29	43	21	4.2	5.6	7.3
20	6.4	8.1	12	8.8	16	40	30	40	18	3.8	5.0	7.1
21	6.4	8.2	11	8.6	15	37	32	41	19	2.7	4.5	15
22	7.1	8.0	10	8.6	16	50	38	39	21	2.3	4.8	16
23	7.0	8.0	10	8.8	16	65	38	37	19	2.2	4.5	8.7
24	6.5	8.2	11	9.3	15	73	36	36	17	2.3	13	7.5
25	7.2	8.4	11	10	13	67	39	34	17	2.2	8.9	7.4
26	9.5	8.5	10	11	15	44	40	32	15	2.1	7.2	7.4
27	11	8.6	10	11	43	35	42	32	15	1.9	6.3	7.4
28	8.7	8.3	9.6	12	79	34	40	32	14	1.8	5.7	7.4
29	7.9	8.1	10	13	53	29	37	32	12	1.6	5.2	7.4
30	7.9	8.0	10	13	---	28	35	29	11	1.6	4.8	7.0
31	7.8	---	8.8	12	---	54	---	28	---	1.4	5.1	---
TOTAL	214.2	247.2	305.2	300.0	606	1315	1295	1452	723	147.7	191.1	206.5
MEAN	6.91	8.24	9.85	9.68	20.9	42.4	43.2	46.8	24.1	4.76	6.16	6.88
MAX	11	9.9	12	13	79	143	82	67	70	11	45	16
MIN	4.2	7.5	7.5	7.2	13	18	29	28	11	1.4	1.7	3.7
AC-FT	425	490	605	595	1200	2610	2570	2880	1430	293	379	410

CAL YR 1975 TOTAL 20669.0 MEAN 56.6 MAX 388 MIN 3.5 AC-FT 41000
WTR YR 1976 TOTAL 7002.9 MEAN 19.1 MAX 143 MIN 1.4 AC-FT 13890

Peak discharge (base, 150 ft³/s).--March 17 (2200) 318 ft³/s (3.72 ft).

10352500 McDermitt Creek near McDermitt, Nev.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1974 to current year (period of record for daily specific conductance, Sept. 1975 to current year).

Water temperatures: July 1949 to current year. (Data prior to Oct. 1974, which were collected monthly or less frequently, are unpublished. Period of record for daily data, Sept. 1975 to current year.)

Biological and sediment data: January 1975 to current year.

EXTREMES.--1975-76:

Specific conductance: Maximum daily, 431 micromhos Aug. 16; minimum daily, 160 micromhos March 18.

Water temperature: Maximum daily, 30.0°C July 12-14; minimum daily, freezing point on several days during November to February.

Suspended-sediment concentration: Maximum, 1,460 mg/l Sept. 22; minimum, 4 mg/l Oct. 22.

REMARKS.--Extremes for specific conductance and water temperature are based on daily data; extremes for sediment concentration are based on monthly data.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 22...	1445	6.7	28	24	7.5	26	3.6	138	--	20	11
NOV. 19...	1550	8.0	--	26	7.9	27	3.0	141	0	23	14
DEC. 30...	1435	10	26	21	6.5	22	2.2	114	0	20	11
JAN. 21...	1450	8.6	27	20	7.6	25	2.9	126	0	24	12
FEB. 19...	1135	16	26	20	6.7	22	3.0	108	0	21	12
MAR. 25...	1415	52	23	14	4.9	15	2.8	81	0	12	8.1
APR. 21...	0930	32	28	20	7.4	20	3.1	119	0	20	9.3
MAY 17...	1450	62	36	21	6.7	17	3.0	120	1	13	5.7
JUNE 17...	1545	24	38	29	9.6	27	3.6	--	--	19	8.8
JULY 22...	1420	2.3	31	33	10	35	5.5	--	--	33	16
AUG. 26...	1030	6.7	37	35	11	35	5.0	186	0	30	14
SEP. 22...	0940	12	30	20	5.6	40	5.6	161	0	25	13

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARRON (C) (MG/L)
OCT. 22...	.9	.01	.00	.00	.03	.37	.32	.38	.22	.07	2.8
NOV. 19...	.6	.02	.01	.03	--	.58	--	.64	.06	--	--
DEC. 30...	.8	.06	.01	.02	--	.37	--	.46	.07	--	--
JAN. 21...	.9	.24	.01	.03	.00	.55	.22	.83	.07	.02	2.3
FEB. 19...	.9	.16	.01	.04	--	.37	--	.58	.05	--	--
MAR. 25...	.6	.11	.01	.05	--	--	--	3.6	.17	--	--
APR. 21...	.7	.00	.00	.04	.00	.26	.15	.30	.06	.05	3.7
MAY 17...	.8	.00	.01	.00	--	.49	--	.50	.13	--	--
JUNE 17...	1.0	.00	.01	.01	--	.39	--	.41	.19	--	--
JULY 22...	1.0	.01	.00	.07	--	.48	--	.56	.06	--	--
AUG. 26...	1.1	.06	.01	.04	.00	.24	.00	.35	.26	.10	5.4
SEP. 22...	1.5	.28	.06	.07	--	3.6	--	4.0	1.5	--	--

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA-MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIFS PER 100 ML)
OCT. 22...	190	189	3.44	91	1.2	295	--	8.0	--	2	6
NOV. 19...	174	--	3.76	97	1.2	314	8.6	.0	2	4	9
DEC. 30...	164	166	4.43	79	1.1	261	9.0	.0	10	0	1
JAN. 21...	190	182	4.41	81	1.2	288	9.1	.0	4	0	2
FEB. 19...	169	165	7.30	78	1.1	261	8.5	.0	8	--	--
MAR. 25...	127	120	17.8	55	.9	186	8.2	7.5	31	3	20
APR. 21...	172	167	14.9	80	1.0	256	8.5	7.0	8	7	10
MAY 17...	170	163	28.5	80	.8	239	8.8	20.0	15	67	62
JUNE 17...	242	--	15.7	110	1.1	339	8.9	24.5	1	--	43
JULY 22...	245	--	1.52	120	1.4	380	8.9	30.0	3	13	483
AUG. 26...	260	260	4.70	130	1.3	400	8.6	15.5	25	110	350
SEP. 22...	215	221	7.76	73	2.1	372	8.2	11.0	600	816000	818000

B: NON-IDEAL COLONY COUNT

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CORALT (CO) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT. 22...	1445	13	12	0	1	0	0	<50	0	0	0	120
JAN. 21...	1450	11	10	<10	0	0	0	<50	0	<10	1	390
APR. 21...	0930	9	9	<10	2	0	0	<50	0	20	2	840
AUG. 26...	1030	16	11	<10	0	0	0	<50	0	10	2	3200

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 22...	60	<100	0	10	0	.0	.0	0	0	0	2
JAN. 21...	20	<100	0	20	0	.0	.0	0	0	20	0
APR. 21...	--	<100	9	20	0	.1	.0	0	0	10	0
AUG. 26...	40	<100	2	90	10	.0	.0	0	0	20	0

10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 22	1445	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		<u>Ankistrodesmus</u>	21	2	
		Scenedesmaceae			
		<u>Scenedesmus</u>	85	7	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	21	2	
		<u>Melosira</u>	21	2	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	21	2	
		<u>Cocconeis</u>	64	5	
		Cymbellaceae			
		<u>Cymbella</u>	85	7	
		<u>Epithemia</u>	360	28	
		Diatomaceae			
		<u>Diatoma</u>	42	3	
		Gomphonemataceae			
		<u>Gomphonema</u>	170	13	
		Naviculaceae			
		<u>Navicula</u>	340	27	
		Nitzschiaceae			
		<u>Nitzschia</u>	21	2	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		<u>Trachelomonas</u>	21	2	
		TOTAL	1200		
Nov 19	1550	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	62	17	
		Cymbellaceae			
		<u>Cymbella</u>	21	6	
		<u>Epithemia</u>	83	22	
		Naviculaceae			
		<u>Navicula</u>	62	17	
		<u>Neidium</u>	21	6	
		Nitzschiaceae			
		<u>Nitzschia</u>	120	33	
		TOTAL	370		
Dec 30	1435	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	140	4	
		Pennales			
		Cymbellaceae			
		<u>Cymbella</u>	140	4	
		<u>Epithemia</u>	690	19	
		<u>Rhopalodia</u>	140	4	
		Diatomaceae			
		<u>Diatoma</u>	280	8	
		Gomphonemataceae			
		<u>Gomphonema</u>	830	23	
		Naviculaceae			
		<u>Navicula</u>	1100	31	
		Nitzschiaceae			
		<u>Nitzschia</u>	280	8	
		TOTAL	3600		

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jan 21	1450	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		<u>Epithemia</u>	130	6	
		Diatomaceae			
		<u>Diatoma</u>	44	2	
		Fragilariaceae			
		<u>Fragilaria</u>	310	13	
		Gomphonemataceae			
		<u>Gomphonema</u>	350	15	
		Naviculaceae			
		<u>Navicula</u>	440	19	
		Nitzschiaceae			
		<u>Nitzschia</u>	1100	45	
		TOTAL	2300		
Feb 19	1135	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	58	3	
		Cymbellaceae			
		<u>Cymbella</u>	120	5	
		<u>Epithemia</u>	170	8	
		Fragilariaceae			
		<u>Synedra</u>	120	5	
		Gomphonemataceae			
		<u>Gomphonema</u>	860	41	
		Naviculaceae			
		<u>Navicula</u>	400	19	
		Nitzschiaceae			
		<u>Nitzschia</u>	400	19	
		TOTAL	2100		
Mar 25	1415	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coccinodiscaceae			
		<u>Cyclotella</u>	22	1	
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	130	5	
		<u>Cocconeis</u>	45	2	
		<u>Rhoicosphenia</u>	45	2	
		Cymbellaceae			
		<u>Epithemia</u>	90	4	
		Fragilariaceae			
		<u>Fragilaria</u>	450	18	
		<u>Synedra</u>	180	7	
		Gomphonemataceae			
		<u>Gomphonema</u>	290	12	
		Meridionaceae			
		<u>Meridion</u>	22	1	
		Naviculaceae			
		<u>Cyrosigma</u>	45	2	
		<u>Navicula</u>	250	10	
		Nitzschiaceae			
		<u>Nitzschia</u>	110	5	
		Surirellaceae			
		<u>Surirella</u>	22	1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	780	32	
		TOTAL	2500		

BLACK ROCK DESERT BASIN

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10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 21	0930	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		<u>Achnanthes</u>	160	8	
		Cymbellaceae			
		<u>Cymbella</u>	240	12	
		Fragilariaceae			
		<u>Synedra</u>	160	8	
		Gomphonemataceae			
		<u>Gomphonema</u>	950	48	
		Nitzschiaceae			
		<u>Nitzschia</u>	470	24	
		TOTAL	2000		
May 17	1450	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	80	2	
		Cymbellaceae			
		<u>Cymbella</u>	40	1	
		Fragilariaceae			
		<u>Synedra</u>	80	2	
		Gomphonemataceae			
		<u>Gomphonema</u>	840	26	
		Naviculaceae			
		<u>Navicula</u>	680	21	
		Nitzschiaceae			
		<u>Nitzschia</u>	1400	44	
		Surirellaceae			
		<u>Surirella</u>	120	4	
		TOTAL	3300		
Jun 17	1545	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	46	4	
		Cymbellaceae			
		<u>Cymbella</u>	46	4	
		Diatomaceae			
		<u>Diatoma</u>	46	4	
		Eunotiaceae			
		<u>Eunotia</u>	46	4	
		Fragilariaceae			
		<u>Synedra</u>	46	4	
		Gomphonemataceae			
		<u>Gomphonema</u>	46	4	
		Naviculaceae			
		<u>Caloneis</u>	46	4	
		<u>Gyrosigma</u>	46	4	
		<u>Navicula</u>	46	4	
		Nitzschiaceae			
		<u>Nitzschia</u>	730	64	
		TOTAL	1100		

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Jul 22	1420	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Coelastraceae			
		<u>Coelastrum</u>	410	8	
		Occystaceae			
		<u>Ankistrodesmus</u>	200	4	
		Scenedesmaceae			
		<u>Scenedesmus</u>	230	4	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	880	17	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	58	1	
		Cymbellaceae			
		<u>Epithemia</u>	670	13	
		Diatomaceae			
		<u>Diatoma</u>	58	1	
		Gomphonemataceae			
		<u>Gomphonema</u>	320	6	
		Nitzschia			
		<u>Nitzschia</u>	88	2	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		<u>Agmenellum</u>	230	4	
		Oscillatoriales			
		Oscillatoriaceae			
		<u>Oscillatoria</u>	2000	39	
		TOTAL	5200		
Aug 26	1030	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Melosira</u>	24	4	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	36	6	
		<u>Rhoicosphenia</u>	12	2	
		Cymbellaceae			
		<u>Cymbella</u>	12	2	
		<u>Epithemia</u>	170	27	
		Diatomaceae			
		<u>Diatoma</u>	48	8	
		Fragilariaceae			
		<u>Synedra</u>	48	8	
		Gomphonemataceae			
		<u>Gomphonema</u>	24	4	
		Naviculaceae			
		<u>Navicula</u>	160	25	
		Nitzschia			
		<u>Nitzschia</u>	48	8	
		<u>Nitzschia</u>	36	6	
		TOTAL	610		
Sep 22	0940	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		<u>Cyclotella</u>	480	13	
		Pennales			
		Achnanthaceae			
		<u>Cocconeis</u>	480	13	
		Cymbellaceae			
		<u>Epithemia</u>	240	7	
		Diatomaceae			
		<u>Diatoma</u>	240	7	
		Gomphonemataceae			
		<u>Gomphonema</u>	480	13	
		Naviculaceae			
		<u>Navicula</u>	970	27	
		Nitzschia			
		<u>Nitzschia</u>	480	13	
		<u>Nitzschia</u>	240	7	
		TOTAL	3600		

BLACK ROCK DESERT BASIN

275

10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

PERIPHYTON

Retrieval Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a (mg/m ²)	Chlorophyll ^b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov 19	28	3.6	3.0	2.9	0.2	210	Polyethylene strip
Feb 19	29	1.1	0.8	1.4	0.1	170	Polyethylene strip
Sep 22	28	2.62	2.08	1.70	0.144	320	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.									
22...	1500	6.7	4	.07	--	--	--	--	--
NOV.									
19...	1550	8.0	5	.11	--	--	--	--	--
DEC.									
30...	1435	10	32	.86	--	--	--	--	--
JAN.									
21...	1450	8.6	7	.16	--	--	--	--	--
FEB.									
19...	1135	16	12	.52	--	--	--	--	--
MAR.									
25...	1415	52	110	15	--	--	--	--	80
APR.									
21...	0930	32	16	1.4	--	--	--	--	--
MAY									
17...	1450	62	44	7.4	--	--	--	--	--
JUNE									
17...	1545	24	7	.45	--	--	--	--	--
JULY									
22...	1420	2.3	8	.05	--	--	--	--	--
AUG.									
26...	1030	6.7	54	.98	--	--	--	--	--
SEP.									
22...	0940	14	1460	55	85	97	98	100	--

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	286	278	303	---	249	265	180	317	327	398	408
2	313	285	269	332	248	263	215	---	---	328	397	399
3	307	277	274	311	252	265	200	290	319	---	394	394
4	310	279	271	287	260	268	199	288	320	330	392	388
5	312	277	271	262	287	259	172	282	338	341	424	393
6	314	277	271	259	295	258	189	285	346	322	426	396
7	306	277	272	257	272	259	200	275	351	339	408	393
8	334	286	273	259	253	253	186	263	344	347	405	391
9	324	286	272	247	227	252	207	260	348	352	---	386
10	317	283	274	---	240	248	221	260	333	---	408	382
11	---	290	272	255	260	225	219	249	319	---	402	403
12	306	308	267	262	241	239	233	244	314	375	402	406
13	306	310	279	259	218	---	233	249	320	381	397	372
14	303	307	310	257	208	236	236	239	315	381	400	378
15	305	---	321	247	226	236	238	228	340	382	400	354
16	303	288	299	247	244	200	242	253	333	385	431	346
17	307	291	277	260	253	174	242	241	341	388	419	348
18	306	293	279	259	265	160	---	254	---	379	408	340
19	306	308	282	264	260	192	250	260	360	381	409	---
20	306	309	---	275	---	212	260	262	358	392	408	---
21	304	286	279	285	285	223	252	268	369	392	409	358
22	298	297	266	286	255	202	257	266	373	381	---	359
23	308	305	254	254	243	185	259	278	372	389	299	---
24	307	296	---	254	246	187	263	280	380	379	354	---
25	296	295	251	274	257	189	263	291	383	---	397	359
26	289	282	265	277	257	201	255	293	382	381	405	353
27	296	285	---	266	182	222	263	300	353	379	411	353
28	292	---	256	246	176	225	261	303	366	379	411	352
29	294	306	255	235	---	225	261	309	355	385	411	---
30	293	309	260	241	---	234	262	312	347	375	411	---
31	296	---	279	247	---	203	---	318	---	---	408	---
MONTH	305	292	274	266	247	225	235	269	346	368	402	375
YEAR	MAX	431	MIN	160	MEAN	299						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	9.0	4.0	0.0	---	6.0	7.0	20.0	20.0	28.0	22.0	27.0
2	20.0	10.0	6.0	0.0	1.0	5.0	12.5	---	---	28.0	22.0	27.0
3	17.0	10.0	5.0	0.0	3.0	5.5	13.5	14.5	20.0	---	23.0	27.0
4	17.5	10.5	5.0	0.0	1.0	5.0	14.0	18.0	22.0	27.0	23.0	26.0
5	19.0	10.0	5.0	1.0	1.0	3.0	11.0	17.0	22.0	27.5	24.5	26.0
6	15.0	7.0	6.0	1.0	0.0	5.0	12.0	10.0	22.0	26.0	25.0	20.0
7	13.0	9.0	5.5	1.0	1.0	6.0	15.0	16.0	20.0	25.5	22.0	22.0
8	13.0	6.0	6.0	1.0	1.0	10.5	10.5	19.0	20.0	28.5	22.0	22.0
9	13.5	5.0	6.0	1.0	1.0	11.5	13.5	19.0	20.0	29.0	---	23.5
10	14.0	5.0	5.0	---	1.0	13.5	12.5	19.0	13.0	---	27.0	24.0
11	---	4.5	3.5	1.0	1.0	5.5	10.0	19.5	19.5	---	23.0	22.5
12	13.0	3.5	2.0	1.0	1.0	9.0	14.5	20.0	17.5	29.5	25.5	22.0
13	13.0	5.0	1.0	1.0	1.5	---	14.5	21.5	22.5	30.0	20.0	22.0
14	15.0	5.5	1.0	1.0	4.5	12.0	15.0	20.0	23.0	30.0	19.0	17.0
15	15.0	5.0	1.0	1.0	3.5	11.0	8.0	18.0	21.0	30.0	18.0	15.5
16	15.5	4.5	1.0	1.5	4.5	11.0	12.0	20.0	21.5	26.0	19.0	15.0
17	16.0	1.0	1.0	1.0	6.0	11.0	13.0	21.5	25.5	25.5	20.0	15.0
18	15.5	---	1.0	0.0	5.0	7.0	---	20.0	---	22.0	18.5	21.0
19	15.5	0.0	1.5	1.5	3.5	6.5	15.5	19.0	25.0	29.0	25.0	---
20	15.5	0.5	---	1.0	---	8.0	16.5	20.5	25.0	28.0	26.5	---
21	13.5	0.5	1.0	1.0	3.5	13.0	14.5	16.0	20.0	29.0	27.0	19.0
22	9.0	0.0	1.0	1.0	5.0	7.0	12.5	15.0	24.5	29.0	---	19.5
23	5.5	1.0	1.0	1.0	6.0	10.0	15.0	16.0	24.5	25.0	20.5	---
24	8.5	2.5	---	1.0	7.0	9.0	12.0	20.0	23.0	28.0	25.0	---
25	5.0	3.0	1.5	1.0	5.0	8.5	11.5	21.0	23.0	---	22.5	20.0
26	7.0	3.5	1.0	1.0	11.0	9.5	5.5	24.5	26.0	28.0	24.5	21.0
27	8.0	4.0	---	1.0	7.0	7.0	13.0	19.5	28.0	29.0	26.5	21.0
28	8.5	---	0.0	1.0	7.5	6.5	14.5	20.0	27.0	26.0	27.0	20.0
29	9.5	0.0	1.0	1.0	---	12.5	18.0	21.0	25.5	24.0	26.5	---
30	8.0	0.0	1.0	1.0	---	13.0	20.5	21.0	25.0	29.5	27.5	---
31	8.0	---	0.0	0.0	---	12.5	---	19.0	---	---	27.0	---
MONTH	13.0	4.5	2.5	1.0	3.5	8.5	13.0	19.0	22.5	27.5	23.5	21.5
YEAR	MAX	30.0	MIN	0.0	MEAN	13.0						

BLACK ROCK DESERT BASIN

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10353000 East Fork Quinn River near McDermitt, Nev.

LOCATION.--Lat 41°59'00", long 117°35'00", in sec.9, T. 47 N., R.39 E., Humboldt County, on right bank 1 mi (2 km) downstream from South Fork and 7 mi (11 km) east of McDermitt.

DRAINAGE AREA.--140 mi² (363 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from topographic map.

AVERAGE DISCHARGE.--28 years, 27.1 ft³/s (0.767 m³/s), 19,630 acre-ft/yr (24.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 331 ft³/s (9.4 m³/s) Apr. 7, gage height, 5.08 ft (1.548 m); minimum, 1.1 ft³/s (0.031 m³/s) July 31.

Period of record: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Jan. 15, 1956, gage height, 8.52 ft (2.597 m); minimum, 0.10 ft³/s (0.003 m³/s) Sept. 6, 7, 1955.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	11	9.1	5.2	9.2	36	70	130	23	3.7	4.4	2.2
2	3.3	11	8.6	6.3	9.5	26	66	132	23	3.8	3.6	2.1
3	3.4	10	8.0	7.4	6.6	23	48	131	21	3.6	3.3	2.0
4	3.2	9.5	7.9	8.4	5.8	20	72	123	20	3.3	3.9	1.8
5	3.2	9.1	8.1	9.0	5.4	18	100	123	18	2.9	3.1	2.0
6	4.0	8.6	8.6	9.2	7.0	18	145	128	17	2.7	2.8	2.3
7	5.8	8.6	9.5	9.2	9.2	18	205	120	16	2.6	2.5	2.8
8	5.0	8.4	9.3	8.0	9.6	19	235	114	16	2.5	2.7	3.2
9	4.5	7.4	9.0	6.5	8.7	21	196	110	15	2.2	2.5	2.9
10	4.3	8.0	8.7	6.8	9.8	27	169	111	19	2.1	3.2	2.9
11	6.7	7.3	8.0	9.1	11	31	167	105	20	2.0	3.5	5.8
12	6.0	6.7	6.6	8.0	13	26	157	96	18	2.0	3.5	5.2
13	6.7	7.2	5.4	8.2	15	26	136	88	16	2.2	3.4	4.2
14	6.5	7.5	5.6	9.3	14	26	123	83	14	2.7	4.0	4.0
15	6.2	7.2	6.6	11	13	27	113	76	13	2.7	6.0	5.5
16	6.0	7.3	8.7	10	12	31	96	69	12	2.5	5.2	7.7
17	5.9	7.1	8.5	8.8	12	39	84	62	12	3.7	4.7	6.5
18	5.7	5.7	8.2	8.0	11	45	87	57	10	9.2	4.7	5.8
19	5.7	3.6	8.0	7.1	10	50	89	54	9.1	4.9	4.4	5.6
20	5.6	6.7	9.0	7.0	10	43	117	50	8.3	3.7	3.9	5.2
21	5.7	6.8	9.8	7.5	10	34	126	47	8.4	3.2	3.5	4.9
22	6.6	5.5	11	8.8	11	30	139	44	8.1	2.9	5.3	5.0
23	5.7	7.2	10	8.6	11	32	126	42	7.4	2.9	5.2	4.5
24	5.0	6.7	10	7.4	11	39	132	40	6.9	3.1	4.2	4.3
25	5.7	7.0	9.8	7.5	11	37	133	37	6.5	2.9	3.5	4.1
26	14	6.7	9.7	8.4	15	40	116	35	5.8	2.7	3.4	4.0
27	22	6.9	9.6	9.5	19	38	115	33	5.5	2.5	3.3	3.8
28	16	5.5	8.8	10	30	35	131	30	4.9	2.3	3.0	3.7
29	14	3.9	7.4	9.7	35	33	133	29	4.3	2.0	2.8	3.5
30	13	5.8	6.0	9.2	---	31	130	27	4.0	2.0	2.6	3.3
31	12	---	5.4	9.0	---	40	---	25	---	1.7	2.4	---
TOTAL	220.8	219.9	258.9	258.1	354.8	959	3756	2351	382.2	93.2	114.5	120.8
MEAN	7.12	7.33	8.35	8.33	12.2	30.9	125	75.8	12.7	3.01	3.69	4.03
MAX	22	11	11	11	35	50	235	132	23	9.2	6.0	7.7
MIN	3.2	3.6	5.4	5.2	5.4	18	48	25	4.0	1.7	2.4	1.8
AC-FT	438	436	514	512	704	1900	7450	4660	758	185	227	240

CAL YR 1975 TOTAL 18321.0 MEAN 50.2 MAX 480 MIN 2.9 AC-FT 36340
WTR YR 1976 TOTAL 9089.2 MEAN 24.8 MAX 235 MIN 1.7 AC-FT 18030

Peak discharge (base, 100 ft³/s).--April 7 (1900) 331 ft³/s (5.08 ft); April 28 (1900) 177 ft³/s (3.89 ft).

NOTE.-- No gage height record Dec. 5 to Jan. 13, Jan. 17 to Feb. 24, Mar. 13 to Apr. 6.

BLACK ROCK DESERT BASIN

10353500 Quinn River near McDermitt, Nev.

LOCATION.--Lat 41°46'30", long 117°48'15", in SW¼ sec.15, T.45 N., R.37 E., Humboldt County, on left bank 1.5 mi (2.4 km) upstream from Flat Creek and 15.5 mi (24.9 km) south of McDermitt.

DRAINAGE AREA.--1,100 mi² (2,849 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,240 ft (1,292 m), from river-profile map.

AVERAGE DISCHARGE.--28 years, 35.4 ft³/s (1.002 m³/s), 25,650 acre-ft/yr (31.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 217 ft³/s (6.14 m³/s) Apr. 12, gage height, 2.86 ft (0.872 m); minimum, 0.57 ft³/s (0.016 m³/s) Sept. 18.

Period of record: Maximum discharge, 1,580 ft³/s (44.7 m³/s) Apr. 27, 1952, gage height, 8.39 ft (2.557 m); no flow for some days in some years.

REMARKS.--Records good. Several diversions for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	2.7	3.1	4.2	12	69	86	173	6.0	3.3	1.1	.66
2	.89	2.7	3.0	4.4	11	55	30	169	5.2	3.1	.94	.66
3	.89	2.7	3.5	4.8	12	48	27	177	4.6	2.9	.93	.66
4	.89	2.5	3.5	5.2	13	37	30	181	4.4	2.7	.88	.63
5	.89	2.5	3.8	5.6	13	40	42	188	4.0	2.5	.81	.58
6	.99	2.5	3.9	5.4	12	31	77	201	3.7	2.3	.81	.58
7	.99	2.4	3.9	5.6	12	30	130	201	3.5	2.1	.81	.58
8	.92	2.3	4.4	6.0	14	31	173	196	3.2	2.0	.81	.71
9	.89	2.3	5.5	6.4	16	33	206	191	6.8	1.8	.81	.66
10	.89	2.5	5.9	6.9	17	35	184	192	13	1.7	.81	.66
11	.90	2.4	6.1	7.5	16	39	172	173	31	1.5	.81	.85
12	.81	2.3	6.8	8.4	15	37	203	149	29	1.3	.81	.58
13	.81	2.3	7.0	9.5	23	35	202	136	24	1.3	.81	.58
14	.81	2.4	5.8	11	19	35	164	113	20	1.2	.86	.58
15	.81	2.4	4.6	9.5	21	33	142	99	17	1.1	.94	.74
16	1.0	2.8	4.3	9.1	21	35	124	89	15	1.1	.81	.63
17	.89	2.8	4.7	8.6	22	41	98	72	14	1.2	.81	.58
18	.89	2.6	5.0	8.4	21	82	103	63	11	1.3	.73	.58
19	.89	2.5	5.2	8.4	20	130	97	56	9.6	1.4	.73	.64
20	.89	2.7	5.0	8.2	19	113	98	47	9.0	1.2	.73	.64
21	.89	2.5	5.1	8.6	16	82	102	41	7.8	1.1	.73	.71
22	.90	2.5	5.2	8.8	15	70	144	36	7.6	1.0	.87	.71
23	.89	2.8	5.1	8.4	16	77	150	28	6.8	1.0	.73	.71
24	.89	2.8	5.5	8.4	16	89	141	22	6.1	1.0	.73	.71
25	.91	2.9	5.4	8.5	15	111	161	18	5.4	.93	.73	.64
26	.86	2.9	5.0	8.8	15	116	175	15	5.0	.94	.73	.64
27	.86	3.2	5.2	9.4	16	101	187	13	4.7	.92	.73	.64
28	1.4	3.2	4.9	9.6	22	93	173	11	4.6	.92	.73	.64
29	2.9	3.1	5.0	11	41	83	162	9.3	4.0	.92	.73	.64
30	2.9	3.0	4.8	12	---	72	174	8.2	3.6	.92	.73	.64
31	2.8	---	4.6	12	---	73	---	6.9	---	1.0	.73	---
TOTAL	33.95	79.2	150.7	248.6	501	1956	3957	3074.4	289.6	47.65	24.92	19.46
MEAN	1.10	2.64	4.86	8.02	17.3	63.1	132	99.2	9.65	1.54	.80	.65
MAX	2.9	3.2	7.0	12	41	130	206	201	31	3.3	1.1	.85
MIN	.81	2.3	3.0	4.2	11	30	27	6.9	3.2	.92	.73	.58
AC-FT	67	157	299	493	994	3880	7850	6100	574	95	49	39
CAL YP 1975 TOTAL	31291.75			MEAN 85.7	MAX 973	MIN .55	AC-FT 62070					
WTP YP 1976 TOTAL	10382.48			MEAN 28.4	MAX 206	MIN .58	AC-FT 20590					

10353700 Leonard Creek near Denio, Nev.

LOCATION.--Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, on right bank 0.3 mi (0.5 km) upstream from concrete diversion structure, 0.7 mi (1.1 km) upstream from Leonard Creek ranch buildings, about 18 mi (29 km) upstream from Quinn River, and 32 mi (51 km) south of Denio.

DRAINAGE AREA.--52 mi² (135 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,310 m) from topographic AMS map. Prior to Aug. 21, 1969, at site 50 ft (15 m) downstream at datum 0.28 ft (0.085 m) lower.

AVERAGE DISCHARGE.--16 years, 5.30 ft³/s (0.150 m³/s), 3,840 acre-ft/yr (4.73 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12 ft³/s (0.34 m³/s) Mar. 5, gage height, 0.95 ft (0.290 m) maximum gage height, 1.12 ft (0.341 m) Jan. 22 (backwater from ice); minimum discharge 1.3 ft³/s (0.037 m³/s) Mar. 2, 4, 20.

Period of record: Maximum discharge, 612 ft³/s (17.3 m³/s) Feb. 1, 1963, gage height, 4.98 ft (1.518 m), from rating curve extended above 15 ft³/s (0.42 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day July 23 to Aug. 5, 1961, Jan. 11, 12, 1963.

REMARKS.--Records good except those for winter periods, which are fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.0	4.9	4.6	4.3	3.6	4.7	8.0	5.1	3.0	2.5	1.9
2	4.9	5.0	5.0	4.7	4.5	4.3	4.6	8.8	4.9	3.0	2.3	1.9
3	4.7	5.0	5.1	4.8	4.3	4.7	4.8	8.2	4.8	2.9	2.1	1.9
4	4.7	5.0	5.2	4.8	3.0	4.3	5.1	8.2	4.7	2.7	2.7	1.9
5	4.7	5.0	5.4	4.8	3.1	5.3	5.7	8.0	4.4	2.6	2.4	1.9
6	5.1	5.0	5.7	4.7	4.0	6.0	5.5	7.8	4.1	2.4	2.0	1.9
7	5.5	5.0	5.8	4.6	5.0	5.3	5.4	7.9	3.7	2.4	2.0	1.9
8	5.1	5.0	5.5	4.5	4.8	4.9	5.7	8.2	3.6	2.4	2.0	2.0
9	5.1	5.0	5.2	4.4	4.5	4.9	5.0	8.0	3.7	2.3	2.0	2.0
10	5.3	5.0	5.0	4.4	4.3	5.3	5.1	8.2	7.2	2.2	1.9	2.0
11	5.5	5.0	4.9	4.3	4.3	5.1	5.5	8.0	6.8	2.2	1.9	4.3
12	5.3	5.0	4.8	4.2	4.3	4.7	5.4	7.9	5.6	2.2	1.9	2.5
13	5.3	5.1	4.8	4.1	4.2	4.5	5.4	7.8	5.0	2.2	1.9	2.3
14	5.5	5.2	4.9	4.1	4.1	4.5	5.4	8.0	4.5	2.2	2.6	2.3
15	5.3	5.0	5.0	4.5	4.2	4.7	5.3	8.1	4.4	2.2	3.8	2.7
16	5.3	4.8	5.0	4.7	4.3	5.1	5.4	7.9	4.2	2.2	2.8	2.9
17	5.1	4.8	5.0	4.5	4.2	5.7	5.4	7.9	4.1	2.3	2.4	2.6
18	5.1	4.9	5.0	4.3	4.2	5.5	5.3	7.6	4.1	2.4	2.7	2.4
19	5.1	5.1	5.1	4.3	3.5	4.5	5.2	7.5	3.9	2.4	2.6	2.4
20	5.1	5.3	5.1	4.1	4.3	4.5	5.8	7.3	3.7	2.3	2.1	2.3
21	4.9	5.2	5.0	3.9	4.5	4.5	5.9	7.1	3.8	2.1	1.9	2.3
22	5.3	5.2	5.0	4.1	4.3	4.5	5.8	6.9	3.9	2.1	2.6	2.3
23	4.9	5.1	5.3	4.5	4.2	4.5	5.7	6.6	3.7	2.1	2.9	2.2
24	4.9	5.0	5.3	4.3	4.2	4.3	6.7	6.4	3.5	3.0	2.4	2.1
25	5.3	5.0	5.2	4.3	4.2	4.5	7.0	6.2	3.4	2.5	2.1	2.1
26	5.5	5.0	5.0	4.3	5.3	4.5	6.2	6.0	3.2	2.2	2.0	2.1
27	5.1	5.0	5.0	4.3	5.1	4.5	6.4	6.0	3.1	2.1	2.0	2.1
28	5.1	4.8	4.9	4.1	4.9	5.1	6.2	5.8	3.5	2.1	2.0	2.1
29	5.0	4.6	4.8	4.3	5.1	4.7	6.0	5.7	3.3	2.0	1.9	2.1
30	5.0	4.6	4.7	4.3	---	5.3	6.6	5.6	3.0	2.0	1.9	2.0
31	5.0	---	4.6	4.3	---	4.9	---	5.3	---	2.0	1.9	---
TOTAL	158.6	149.7	157.2	136.1	125.2	148.7	168.2	226.9	126.9	72.7	70.2	67.4
MEAN	5.12	4.99	5.07	4.39	4.32	4.90	5.61	7.32	4.23	2.35	2.26	2.25
MAX	5.5	5.3	5.8	4.8	5.3	6.0	7.0	8.8	7.2	3.0	3.8	4.3
MIN	4.7	4.6	4.6	3.9	3.0	3.6	4.6	5.3	3.0	2.0	1.9	1.9
AC-FT	315	297	312	270	248	295	334	450	252	144	139	134

CAL YR 1975 TOTAL 4559.7 MEAN 12.5 MAX 4.8 MIN 1.6 AC-FT 9040
WTR YR 1976 TOTAL 1607.8 MEAN 4.39 MAX 8.8 MIN 1.9 AC-FT 3190

Peak discharge (base, 15 ft³/s).--No peak above base.

NOTE.--No gage-height record Oct. 29 to Jan. 14.

HUALAPAI FLAT

10353770 South Willow Creek near Gerlach, Nev.

LOCATION.--Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, on left bank 150 ft (50 m) east of State Highway 34 and 25 mi (40 km) north of Gerlach.

DRAINAGE AREA.--31 mi² (80 km²), approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft (0.305 m) lower.

EXTREMES.--Current year: Maximum discharge, 8.2 ft³/s (0.23 m³/s) July 17, gage height 1.18 ft (0.360 m); no flow most of the year.
 Period of record: Maximum discharge, 50 ft³/s (1.42 m³/s) June 25, 1975, gage height, 1.72 ft (0.524 m); no flow at times most years.
 Flood of unknown date reached a stage of 9.4 ft (2.87 m), present datum, from floodmarks, estimated discharge, 3,100 cfs (87.8 m³/s).

REVISIONS.--The maximum discharge for the water year 1975 has been revised to 50 ft³/s (1.42 m³/s) June 25, gage height, 1.72 ft (0.524 m) superseding figure published in WRD 1975.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.01	0	.03	0	0	
2						0	.01	.01	.03	0	0	
3						0	.01	.01	.03	0	0	
4						0	.02	.01	.03	0	0	
5						0	.02	0	.03	0	0	
6						0	.02	0	.03	0	0	
7						0	.02	.01	.04	0	0	
8						0	.02	.01	.03	0	0	
9						0	.02	.01	.03	0	0	
10						0	.02	.01	.04	0	0	
11						0	.02	.01	.03	0	0	
12						0	.02	.01	.03	0	0	
13						0	.02	.01	.03	0	0	
14						0	.02	.01	.04	0	.01	
15						0	.02	.01	.03	0	0	
16						0	.01	.01	.03	0	0	
17						0	.01	.01	.02	.12	0	
18						0	.01	.01	.01	0	0	
19						0	.01	.01	.01	0	0	
20						0	.01	.01	.01	0	0	
21						0	.01	.01	.01	0	0	
22						0	.01	.01	.01	0	0	
23						0	.01	.01	0	0	0	
24						0	.01	.02	0	0	0	
25						0	.01	.02	0	0	0	
26						0	.01	.02	0	0	0	
27						0	.01	.02	0	0	0	
28						.01	.01	.02	0	0	0	
29						.01	.01	.02	0	0	0	
30					---	.01	.01	.02	0	0	0	
31		---			---	.01	---	.03	---	0	0	---
TOTAL	0	0	0	0	0	.04	.42	.37	.58	.12	.01	0
MEAN	0	0	0	0	0	.001	.014	.012	.019	.004	.0003	0
MAX	0	0	0	0	0	.01	.02	.03	.04	.12	.01	0
MIN	0	0	0	0	0	0	.01	0	0	0	0	0
AC-FT	0	0	0	0	0	.08	.8	.7	1.2	.2	.02	0
CAL YR 1975	TOTAL	123.91	MEAN .34	MAX	12	MIN 0	AC-FT 246					
WTR YR 1976	TOTAL	1.54	MEAN .004	MAX	.12	MIN 0	AC-FT 3					

GOOSE CREEK BASIN

13082500 Goose Creek above Trapper Creek, near Oakley, Idaho.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1970 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.											
23...	1040	33	--	--	--	--	--	--	--	--	--
DEC.											
02...	1019	35	--	--	--	--	--	--	--	--	--
JAN.											
14...	1100	21	--	--	--	--	--	--	--	--	--
FEB.											
25...	0900	42	--	--	--	--	--	--	--	--	--
APR.											
07...	1440	155	--	--	--	--	--	--	--	--	--
MAY											
04...	0958	219	--	--	--	--	--	--	--	--	--
AUG.											
07...	0945	17	35	59	13	22	10	251	0	25	25
SEP.											
20...	1450	26	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRIT- PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)
OCT.										
23...	--	--	--	--	--	--	--	252	--	2.5
DEC.										
02...	--	--	--	--	--	--	--	403	--	.0
JAN.										
14...	--	--	--	--	--	--	--	387	--	.5
FEB.										
25...	--	--	--	--	--	--	--	364	--	.0
APR.										
07...	--	--	--	--	--	--	--	312	--	8.5
MAY										
04...	--	--	--	--	--	--	--	183	--	10.0
AUG.										
07...	.4	.03	.16	31.3	14.5	200	.7	535	8.0	12.0
SEP.										
20...	--	--	--	--	--	--	--	402	--	15.5

SALMON FALLS CREEK BASIN

283

13105000 Salmon Falls Creek near San Jacinto, Nev.

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, on right bank in canyon, 630 ft (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately. Mean altitude, 6,350 ft (1,935 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m), by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft (11 m) upstream at same datum.

AVERAGE DISCHARGE.--64 years (1910-16, 1918-76), 140 ft³/s (3.96 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Apr. 11, gage height, 7.88 ft (2.402 m); minimum, 27 ft³/s (0.680 m³/s) Sept. 4.

Period of record: Maximum discharge, 2,430 ft³/s (68.8 m³/s) May 18, 1975, gage height, 10.83 ft (3.301 m); maximum gage height, 12.65 ft (3.856 m) Feb. 12, 1962; minimum discharge, 2.6 ft³/s (0.074 m³/s) Sept. 4, 1961.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 hm²), 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi (24 km) downstream (see sta.13106500).

REVISED RECORDS.--WSP 1934: 1943 (M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	82	89	70	79	222	372	500	343	57	44	37
2	56	81	89	52	81	148	285	559	327	57	47	37
3	55	81	40	52	82	113	253	644	312	55	46	30
4	56	81	90	86	86	98	366	704	292	47	46	28
5	56	81	42	88	70	89	547	755	276	44	47	30
6	56	81	96	79	58	90	729	843	264	43	42	32
7	67	82	99	72	77	89	711	843	246	41	41	41
8	69	84	107	90	90	90	766	747	233	41	41	46
9	68	86	105	89	92	95	855	747	216	41	41	44
10	69	88	105	81	81	146	804	766	212	40	42	43
11	72	85	104	72	79	257	831	785	225	38	41	46
12	73	79	105	81	86	140	851	774	248	38	43	51
13	74	77	98	64	89	118	827	747	231	33	42	60
14	74	76	79	77	121	146	689	722	202	31	42	63
15	73	81	77	89	92	133	627	718	169	33	46	63
16	74	83	95	86	86	138	585	715	141	39	48	69
17	73	86	86	85	77	218	503	672	129	40	47	85
18	73	82	79	83	81	327	497	641	124	44	42	86
19	73	72	78	81	81	380	467	631	113	47	41	82
20	73	72	77	74	74	214	417	607	110	44	41	77
21	72	79	86	70	65	177	437	553	108	43	42	70
22	75	77	83	69	73	188	512	509	115	43	46	68
23	75	79	86	79	79	218	556	491	119	43	47	64
24	74	81	88	79	81	190	572	509	104	43	47	62
25	73	81	89	72	85	196	617	470	96	42	42	63
26	78	74	88	72	133	192	697	425	89	42	40	62
27	105	81	88	81	309	188	665	405	77	43	39	61
28	113	83	78	79	222	181	598	388	72	42	38	60
29	93	72	85	81	202	166	522	386	65	41	38	61
30	86	73	85	82	---	155	485	383	58	44	38	58
31	85	---	73	82	---	179	---	369	---	44	39	---
TOTAL	2264	2402	2769	2407	2911	5281	17643	19008	5316	1323	1326	1679
MEAN	73.0	80.0	89.3	77.6	100	170	588	613	177	42.6	42.7	55.9
MAX	113	88	107	90	309	380	855	843	343	57	48	86
MIN	51	72	73	52	58	89	253	369	58	31	38	28
AC-FT	4490	4760	5490	4770	5770	10470	34990	37700	10540	2620	2630	3330

CAL YR 1975 TOTAL 91143 MEAN 249 MAX 2310 MIN 44 AC-FT 180800
WTR YR 1976 TOTAL 64329 MEAN 175 MAX 855 MIN 28 AC-FT 127600

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1973 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

SALMON FALLS CREEK BASIN

285

13106500 Salmon River Canal Co. Reservoir near Rogerson, Id.

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Bureau of Land Management lands, at dam on Salmon Falls Creek, 7.5 mi (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) above mean sea level.

EXTREMES.--Current year: Maximum contents observed, 161,600 acre-ft (199 hm³) May 19, 20, gage height, 73.65 ft (22.448 m); minimum observed, 78,700 acre-ft (97.0 hm³) Sept. 17-20, gage height, 43.85 ft (13.365 m).

Period of record: Maximum contents observed, 166,000 acre-ft (205 hm³) June 24, 1975, gage height, 75.00 ft (22.860 m); minimum observed, 125 acre-ft (0.154 hm³) Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft (0.03 m).

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft (225 hm³) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 hm³). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

Capacity table (gage height, in feet, and contents, in acre-feet)

30.0	48,800	60.0	120,600
40.0	69,800	70.0	150,000
50.0	93,800	80.0	182,600

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107100	107000	107700	109000	110000	112200	118100	145800	157900	137200	104200	85300
2	107100	107000	107700	109000	110100	112500	118600	146400	157300	136200	103400	84800
3	107000	107000	107800	109100	110100	112700	119000	147400	156500	135400	102600	84300
4	107000	107000	107800	109100	110100	112700	119200	148300	155700	134400	101800	83800
5	107000	107100	107900	109100	110100	112800	119800	149500	154900	133400	101200	-
6	106800	107100	108100	109100	110200	112900	120600	150600	154100	132300	100500	82500
7	106800	107100	108200	109100	110200	112900	121600	152000	153300	131200	99900	81900
8	106800	107100	108200	109300	110200	112900	122600	153300	152500	130200	99200	81400
9	106800	107200	108300	109300	110200	113100	124200	154700	151700	129200	98700	81000
10	106800	107200	108400	109400	110400	113100	125400	156000	150900	127700	97900	80500
11	106800	107200	108600	109400	110400	113200	126800	156800	150200	126400	97300	80000
12	106700	107200	108600	109600	110400	113500	128000	157600	149500	125200	96600	79600
13	106700	107400	108600	109600	110500	113800	129400	158200	148900	124200	96000	79400
14	106700	107400	108600	109600	110500	113900	130900	159000	148300	122900	95100	79200
15	106700	107400	108600	109600	110600	114100	132300	159500	147700	121600	94600	79000
16	106700	107400	108600	109700	110600	114200	133400	160600	147200	120600	93800	78800
17	106700	107500	108600	109700	110600	114400	133900	161300	146700	119500	93300	78700
18	106700	107500	108600	109700	110800	114800	134800	161400	146100	118400	92600	78700
19	106700	107500	108700	109700	110800	115200	135500	161600	145700	117000	92100	78700
20	106700	107500	108700	109700	110800	115600	136400	161600	145200	116200	91600	78700
21	106700	107500	108900	109700	111000	115900	137000	161400	144300	115200	91200	78800
22	106700	107700	108900	109400	111000	116000	137600	161300	143700	114200	90800	78800
23	106700	107700	108900	109400	111200	116200	138500	161100	143100	113200	90500	78800
24	106700	107700	108900	109500	111200	116400	139400	161000	142400	112200	90100	78900
25	106700	107700	108900	109800	111200	116700	140300	160600	141600	111200	89900	78900
26	106700	107700	108900	109800	111200	117000	141200	160600	140800	110100	89000	79000
27	106700	107700	108900	109800	111200	117300	142000	160800	140100	109100	88400	79000
28	106800	107700	109000	109800	111400	117400	143100	160600	139100	108100	87800	79000
29	106800	107700	109000	110000	111800	117600	144200	159800	138800	107000	87100	79000
30	106800	107700	109000	110000	-	117700	144800	159200	138200	106000	86500	79200
31	106800	-	109000	110000	-	118000	-	158500	-	105100	85900	-
MAX	107100	107700	109000	110000	111800	118000	144800	161600	157900	137200	104200	85300
MIN	106700	107000	107700	109000	110000	112200	118100	145800	138200	105100	85900	78700
(†)	55.00	55.30	55.80	56.15	56.85	59.05	68.35	72.70	66.10	54.35	46.85	44.05
(‡)	-300	+900	+1300	+1000	+1800	+6200	+26800	+13700	-20300	-33100	-19200	-6700
CAL YR 1975	MAX 166000	MIN 58500	‡ +50500									
WTR YR 1976	MAX 161600	MIN 78700	‡ -27900									

† GAGE HEIGHT, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

BRUNEAU RIVER BASIN

13161500 Bruneau River at Rowland, Nev.

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, on left bank 2 mi (3 km) upstream from McDonald Creek and 0.5 mi (0.8 km) south of Rowland.

DRAINAGE AREA.--382 mi² (989 km²). Area at crest-stage site, 380 mi² (984 km²).

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. June 1913 to September 1918, non-recording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--15 years, 125 ft³/s (3.540 m³/s), 90,560 acre-ft/yr (112 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 612 ft³/s (17.3 m³/s) Apr. 7, gage height, 5.73 ft (1.746 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 5, 6.

Period of record: Maximum discharge, 2,120 ft³/s (60.0 m³/s) Feb. 11, 1962, gage height, 13.0 ft (3.96 m) site and datum then in use; minimum, 5 ft³/s (0.14 m³/s) Aug. 12, 13, 1918.

REMARKS.--Records good except those for winter months, which are poor. Minor diversions for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	53	50	32	40	138	332	342	187	46	27	15
2	23	52	56	37	46	208	218	388	174	45	24	15
3	25	51	54	45	49	169	262	455	164	43	22	14
4	25	49	53	52	46	150	400	473	155	41	20	14
5	26	49	58	52	33	110	475	481	147	38	20	14
6	26	48	74	50	45	100	464	560	141	36	18	13
7	31	53	67	56	74	88	446	550	134	33	17	15
8	35	65	65	64	59	84	506	540	129	32	17	15
9	35	53	61	56	54	84	464	530	124	31	17	15
10	33	51	63	42	46	94	446	520	122	29	17	15
11	40	47	64	49	52	113	479	515	138	27	17	17
12	42	39	71	49	54	116	437	479	130	27	17	24
13	42	46	54	40	48	177	372	463	118	26	16	20
14	40	47	45	53	51	148	348	468	109	26	15	19
15	37	47	47	47	50	122	356	463	98	24	18	30
16	36	50	60	48	48	128	296	423	92	23	24	37
17	35	53	59	49	47	148	290	399	90	23	23	52
18	34	39	53	50	49	203	276	387	84	30	20	55
19	34	35	49	42	51	280	260	370	78	28	20	49
20	34	44	56	39	42	213	284	349	76	23	20	42
21	34	45	56	44	39	175	324	327	74	21	18	37
22	36	36	54	53	42	162	342	311	87	21	18	35
23	38	48	54	49	38	175	334	298	76	21	30	32
24	36	42	50	42	39	173	356	293	71	20	24	30
25	37	44	52	36	39	203	407	276	66	21	20	29
26	73	38	53	43	48	171	360	256	62	20	18	28
27	94	47	54	43	59	182	338	241	59	20	18	27
28	66	44	50	41	72	154	316	240	55	18	18	27
29	59	35	58	40	102	140	302	232	51	16	17	26
30	57	43	54	42	---	140	314	223	48	18	16	25
31	56	---	51	40	---	198	---	206	---	22	16	---
TOTAL	1242	1393	1745	1425	1462	4746	10804	12058	3139	849	602	786
MEAN	40.1	46.4	56.3	46.0	50.4	153	360	389	105	27.4	19.4	26.2
MAX	94	65	74	64	102	280	506	560	187	46	30	55
MIN	23	35	45	32	33	84	218	206	48	16	15	13
AC-FT	2460	2760	3460	2830	2900	9410	21430	23920	6230	1680	1190	1560
CAL YR 1975	TOTAL	75111	MEAN 206	MAX 1990	MIN 16	AC-FT 149000						
WTR YR 1976	TOTAL	40251	MEAN 110	MAX 560	MIN 13	AC-FT 79840						

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-19	0300	4.61	354	5-6	UNK.	UNK.	560
4-7	2130	5.73	612				

OWYHEE RIVER BASIN

13174000 Wild Horse Reservoir near Gold Creek, Nev.

LOCATION.--Lat 41°41'10", long 115°50'35", in NE¼ sec. 25, T.44 N., R.54 E., Elko County, at Wild Horse Dam on Owyhee River, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March 1938 to current year. Month-end contents for some periods, published in WSP 1317.

GAGE.--Elevations obtained about three times a month, more frequently during irrigation season, from wire-weight gage on dam. Datum of gage is at mean sea level (levels by Bureau of Indian Affairs).

EXTREMES.--Current year: Maximum contents observed, 69,110 acre-ft (85.2 hm³) May 18, elevation 6,204.2 ft (1,891.04 m); minimum observed, 44,340 acre-ft (54.7 hm³) Sept. 29, elevation 6,194.6 ft (1,888.11 m).

Period of record: Maximum contents observed 77,780 acre-ft (95.9 hm³) May 18, 19, 1975, elevation, 6,207.0 ft (1,891.89 m); no contents at times in each year 1938-41, 1964-65, 1968-69.

REMARKS.--Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. New dam completed in June 1969, capacity 71,500 acre-ft (88.2 hm³) between elevations 6,138.50 ft (1,871.015 m), sill of outlet gate, and 6,205 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

COOPERATION.--Most of elevation record furnished by Bureau of Indian Affairs.

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

6,194	43,010	6,200	57,390
6,195	45,230	6,201	60,040
6,196	47,520	6,202	62,780
6,197	49,880	6,203	65,600
6,198	52,310	6,204	68,510
6,199	54,800	6,205	71,500

MONTH-END ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept. 30	6,201.29	60,830	--
Oct. 31	6,200.11	57,690	-3,140
Nov. 30	6,199.80	56,870	-820
Dec. 31	6,199.51	56,120	-750
CAL YR 1975	--	--	+6,310
Jan. 31	6,198.85	54,440	-1,680
Feb. 29	6,197.96	52,210	-2,230
Mar. 31	6,199.43	55,920	+3,710
Apr. 30	6,203.51	67,080	+11,160
May 31	6,203.43	66,840	-240
June 30	6,200.41	58,480	-8,360
July 31	6,197.67	51,510	-6,970
Aug. 31	6,195.48	46,330	-5,180
Sept. 30	6,194.60	44,340	-1,990
WRT YR 1975-76	--	--	-16,490

NOTE.--Month-end elevations and contents are interpolated from observations made during the month.

OWYHEE RIVER BASIN

13174500 Owyhee River near Gold Creek, Nev.

LOCATION.--Lat 41°41'15", long 115°50'38", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, on left bank 500 ft (150 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft (1,864.995 m), Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi (0.5 km) upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage 250 ft (76 m) downstream at different datum, while new dam was being constructed 300 ft (91 m) downstream from old dam.

AVERAGE DISCHARGE.--48 years (1917-25, 1936-76), 42.8 ft³/s (1.212 m³/s), 31,010 acre-ft/yr (38.2 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 194 ft³/s (5.49 m³/s) June 22, 23, gage 2.38 ft (0.725 m); minimum daily, 4.1 ft³/s (0.12 m³/s) Nov. 11, 12.

Period of record: Maximum discharge, 1,810 ft³/s (51.3 m³/s) May 5, 1922, gage height, 10.11 ft (3.082 m), site and datum then in use; no flow at times when reservoir gates were closed.

REMARKS.--Records good. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir, capacity, 71,660 acre-ft (88.4 hm³), 0.1 mi (0.2 km) upstream beginning Mar. 18, 1938.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	10	17	47	44	67	65	98	99	186	88	72
2	54	10	19	47	46	67	63	101	99	182	106	73
3	54	10	33	47	46	67	62	101	118	183	106	73
4	54	10	51	47	46	67	63	103	141	185	106	73
5	54	10	51	47	46	67	63	117	141	184	106	73
6	54	10	51	46	46	67	75	138	141	152	106	73
7	54	10	50	46	46	67	93	139	141	111	105	73
8	54	10	50	46	46	66	92	139	141	110	105	54
9	54	10	50	46	46	66	91	139	141	111	102	42
10	54	7.1	50	46	46	66	91	139	143	111	104	42
11	54	4.1	50	45	46	66	91	139	142	111	105	42
12	54	4.1	50	45	46	66	92	139	140	111	105	42
13	54	5.0	50	45	46	66	93	139	141	111	102	42
14	54	7.2	50	45	47	66	94	140	140	110	104	42
15	70	14	50	45	47	66	96	139	141	110	105	42
16	90	14	50	45	47	66	96	139	141	111	104	40
17	90	14	50	45	47	66	96	139	141	111	104	40
18	91	15	50	45	47	67	96	137	139	111	104	40
19	91	15	50	45	47	67	96	137	139	79	104	40
20	91	15	49	45	47	67	96	137	139	46	85	40
21	91	16	49	45	47	66	96	109	139	46	73	40
22	91	16	49	45	47	66	96	73	160	31	73	40
23	91	16	49	45	47	66	96	73	191	21	35	40
24	92	16	49	45	47	66	96	73	189	23	16	18
25	93	16	49	45	46	66	98	73	189	23	15	5.4
26	93	16	48	45	58	66	98	73	189	23	15	5.4
27	93	16	48	45	66	66	98	73	189	23	15	5.4
28	93	16	48	44	66	66	98	85	189	23	15	5.4
29	93	15	48	44	66	66	98	99	188	53	15	5.4
30	93	15	48	44	---	66	98	99	188	69	38	5.4
31	61	---	48	44	---	65	---	99	---	69	73	---
TOTAL	2263	362.5	1454	1406	1415	2055	2678	3528	4519	2930	2439	1228.4
MEAN	73.0	12.1	46.9	45.4	48.8	66.3	89.3	114	151	94.5	78.7	40.9
MAX	93	16	51	47	66	67	98	140	191	186	106	73
MIN	54	4.1	17	44	44	65	62	73	99	21	15	5.4
AC-FT	4490	719	2880	2790	2810	4080	5310	7000	8960	5810	4840	2440
CAL YR 1975	TOTAL	28394.29	MEAN	77.8	MAX	896	MIN	.78	AC-FT	56320		
WTR YR 1976	TOTAL	26277.90	MEAN	71.8	MAX	191	MIN	4.1	AC-FT	52120		

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LOCATION.--Lat 41°55'20", long 116°04'10", in NW¼ sec.6, T.46 N., R.53 E., Elko County, on right bank 1,000 ft (300 m) downstream from Skull Creek, 1 mi (2 km) upstream from China diversion dam, and 2 mi (3 km) southeast of Owhee.

PERIOD OF RECORD.--March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft (1,654 m) above mean sea level, unadjusted. Prior to Oct. 1, 1939, at datum 1.48 ft (0.451 m) higher.

AVERAGE DISCHARGE.--37 years, 147 ft³/s (4.163 m³/s), 106,500 acre-ft/yr (131 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 934 ft³/s (26.4 m³/s) May 6, gage height, 8.49 ft (2.588 m); minimum 22 ft³/s (0.62 m³/s) Nov. 13.

Period of record: Maximum discharge, 2,790 ft³/s (79.0 m³/s) about May 18, 1975, gage height, 10.84 ft (3.304 m), from inside high water marks; minimum, 1.8 ft³/s (0.051 m³/s) Nov. 16, 1961.

REMARKS.--Records good except those for winter months, which are poor. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	89	54	76	130	270	420	522	253	202	98	61
2	68	58	70	72	120	178	270	600	243	205	120	68
3	68	55	92	68	130	160	341	677	238	203	126	78
4	68	51	111	70	77	150	541	735	255	201	127	79
5	68	50	126	74	85	147	712	759	255	200	121	79
6	69	51	162	77	90	140	707	892	248	199	121	81
7	79	57	147	81	100	138	638	800	242	162	121	80
8	80	58	134	100	90	135	762	795	223	136	121	80
9	77	60	126	95	80	144	700	791	226	126	121	65
10	77	57	123	90	90	161	630	778	236	124	122	56
11	91	51	115	90	100	174	676	773	277	124	119	67
12	88	42	116	90	140	158	646	721	256	126	111	73
13	94	43	108	72	186	157	551	684	240	127	113	67
14	91	45	90	100	202	163	514	661	223	125	118	65
15	87	45	84	130	115	158	538	631	210	126	126	91
16	108	45	82	120	89	170	464	591	206	127	134	121
17	116	44	85	120	86	214	440	552	211	132	144	127
18	116	43	90	100	88	306	420	517	204	147	135	108
19	117	42	103	75	89	280	388	480	199	140	136	91
20	117	42	105	70	91	205	419	446	193	109	133	86
21	116	45	94	68	88	202	486	431	187	82	101	84
22	127	48	86	90	86	239	521	365	196	79	97	84
23	127	68	90	85	96	282	536	337	216	65	102	80
24	126	60	90	80	89	259	571	324	225	54	64	78
25	128	54	90	80	89	328	644	309	223	51	41	55
26	205	55	90	90	99	236	578	292	218	46	31	34
27	200	57	90	120	153	238	530	272	215	43	30	32
28	156	51	89	100	189	208	501	266	212	42	28	30
29	146	41	88	130	234	198	478	281	207	40	26	29
30	143	40	88	120	---	198	475	279	203	69	26	28
31	138	---	78	100	---	278	---	268	---	87	40	---
TOTAL	3359	1547	3096	2833	3301	6274	16097	16829	6740	3699	3053	2157
MEAN	108	51.6	99.9	91.4	114	202	537	543	225	119	98.5	71.9
MAX	205	89	162	130	234	328	762	892	277	205	144	127
MIN	68	40	54	68	77	135	270	266	187	40	26	28
AC-FT	6660	3070	6140	5620	6550	12440	31930	33380	13370	7340	6060	4280
CAL YR 1975	TOTAL	96664	MEAN 265	MAX	2600	MIN 16	AC-FT	191700				
WTR YR 1976	TOTAL	68985	MEAN 188	MAX	892	MIN 26	AC-FT	136800				

OWYHEE RIVER BASIN

13177800 South Fork Owyhee River near Whiterock, Nev.

LOCATION.--Lat 41°48'00", long 116°29'00", in NE¼ sec.16, T.45 N., R.49 E., Elko County, on left bank 500 ft (150 m) downstream from Rye Grass Creek, 1.8 mi (2.9 km) upstream from Chimney Creek, and 17 mi (27 km) northwest of Whiterock.

DRAINAGE AREA.--1,080 mi² (2,800 km²), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,490 m), from topographic map.

AVERAGE DISCHARGE.--21 years, 170 ft³/s (4.814 m³/s), 123,200 acre-ft/yr (152 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 914 ft³/s (25.9 m³/s) May 7, gage height, 4.59 ft (1.399 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 9.

Period of record: Maximum discharge, 3,830 ft³/s (108 m³/s) June 5, 1963, gage height, 7.55 ft (2.301 m); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

REMARKS.--Records good except those for winter periods, which are poor. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs, total capacity, about 16,100 acre-ft (19.8 hm³).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	83	70	82	86	535	294	357	141	26	80	29
2	38	74	80	78	94	335	329	356	122	26	78	27
3	37	73	95	75	98	306	326	401	124	23	62	26
4	37	72	115	78	86	295	329	467	119	18	46	26
5	36	70	146	82	78	274	395	536	112	22	40	25
6	37	68	193	86	76	269	542	747	112	22	38	26
7	60	65	165	90	80	266	664	868	105	22	69	27
8	76	79	128	92	84	260	672	738	98	21	70	28
9	61	82	113	90	82	257	741	688	93	23	53	14
10	51	80	107	88	78	263	736	672	113	28	47	14
11	77	76	98	87	86	288	692	624	181	33	34	28
12	90	74	85	85	120	260	681	570	218	34	28	31
13	86	74	80	83	264	254	672	558	180	36	31	29
14	85	82	74	86	303	246	605	526	144	45	28	19
15	76	80	68	92	214	241	566	508	119	47	40	25
16	65	78	77	98	170	234	538	496	87	48	53	61
17	61	72	88	94	140	239	496	464	94	58	41	64
18	58	68	100	86	125	278	472	411	92	120	33	63
19	57	66	112	80	120	264	435	358	92	121	31	40
20	56	64	114	74	100	243	379	308	86	100	25	32
21	60	66	100	73	73	243	336	271	88	92	21	31
22	71	73	89	73	80	243	336	258	99	80	21	36
23	75	96	97	73	113	239	335	259	79	68	23	38
24	75	81	97	74	155	230	321	244	60	62	25	32
25	78	74	103	78	161	232	342	229	51	64	32	34
26	108	76	98	82	257	230	392	209	45	60	26	34
27	182	71	93	88	369	243	476	190	42	53	24	33
28	140	66	88	92	357	243	501	160	38	46	24	33
29	105	62	100	96	441	233	440	138	27	45	25	35
30	91	62	104	90	---	232	382	131	26	42	29	36
31	86	---	90	80	---	259	---	148	---	46	30	---
TOTAL	2254	2207	3167	2605	4490	8234	14425	12890	2987	1531	1207	976
MEAN	72.7	73.6	102	84.0	155	266	481	416	99.6	49.4	38.9	32.5
MAX	182	96	193	98	441	535	741	868	218	121	80	64
MIN	36	62	68	73	73	230	294	131	26	18	21	14
AC-FT	4470	4380	6280	5170	8910	16330	28610	25570	5920	3040	2390	1940
CAL YR 1975 TOTAL	126760	MEAN 347	MAX 3120	MIN 27	AC-FT 251400							
WTR YR 1976 TOTAL	56973	MEAN 156	MAX 868	MIN 14	AC-FT 113000							

PEAK DISCHARGE (BASE, 600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-13	2000	4.17	682	4-9	1200	4.35	754
3-1	0200	4.05	610	5-7	0400	4.59	914

REVISIONS OF RECORDS FOR DISCONTINUED STATIONS

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13174900 Owyhee River at Patsville, Nev.

LOCATION.--Lat 41°48'35", long 115°57'20", in NW¼SE¼ sec.12, T.45 N., R.53 E., Elko County, on left bank, 100 ft (30 m) downstream from Rio Tinto Mine road (off State Highway 11-A), 0.1 mi (0.2 km) upstream from Mill Creek, and in Patsville.

DRAINAGE AREA.--305 mi² (790 km²), approximately.

PERIOD OF RECORD.--December 1971 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (1,720 m), from topographic map.

EXTREMES.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) May 18, 1975, gage height, 7.69 ft (2.344 m), from inside high-water marks; minimum daily, 7.1 ft³/s (0.20 m³/s) Dec. 29, 1974.

REVISIONS.--Figures of maximum discharge for the water years 1972 and 1974 have been revised to 1,400 ft³/s (39.6 m³/s) Mar. 3, 1971, gage height, 7.06 ft (2.152 m), and 828 ft³/s (23.4 m³/s) Apr. 25, 1974, gage height, 5.56 ft (1.695 m), superseding figures published in WRD 1972 and 1974.

REMARKS.--Flow partly regulated by Wild Horse Reservoir.

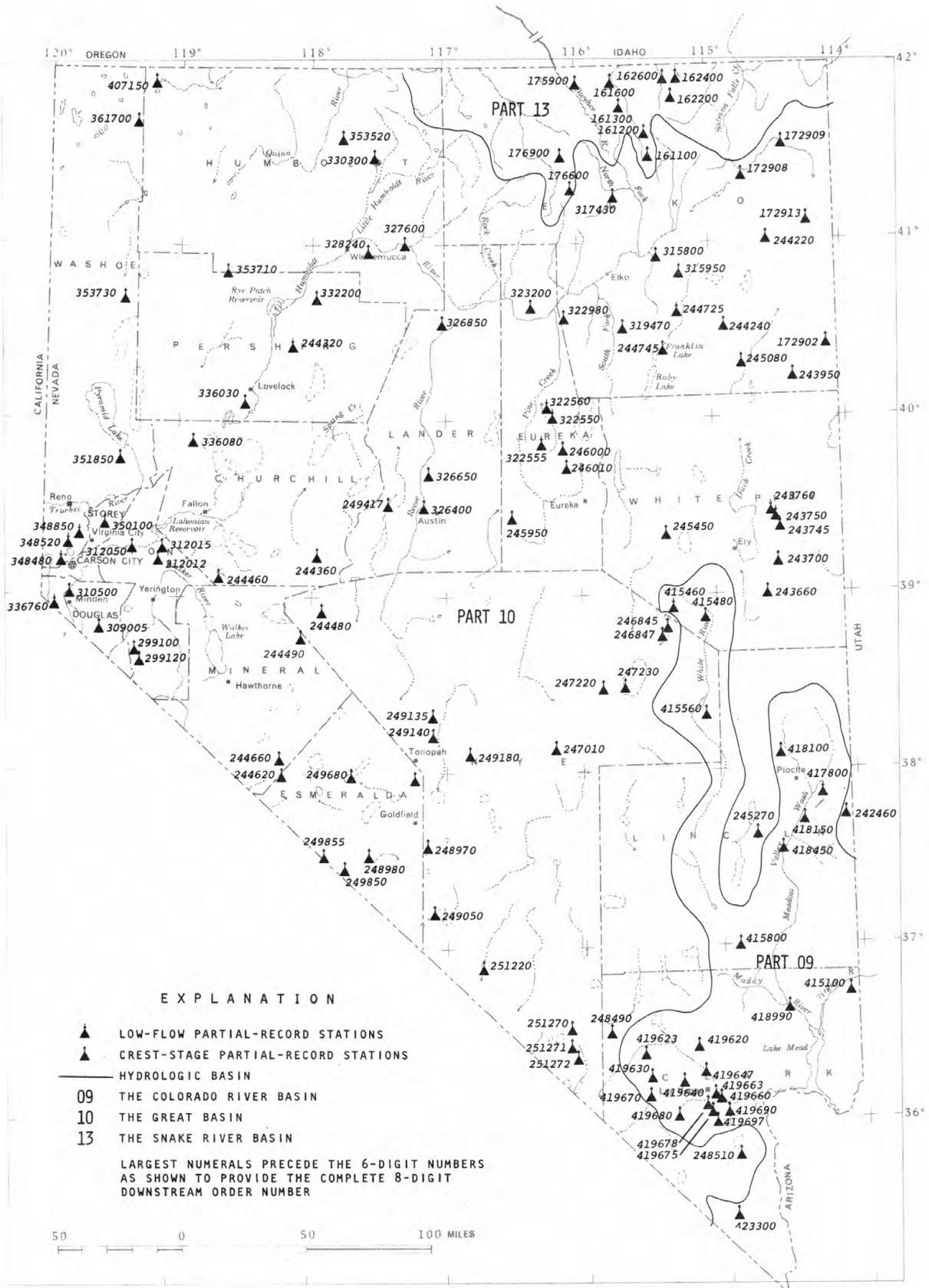


FIGURE 7.--STREAMFLOW PARTIAL-RECORD STATIONS LISTED IN THIS REPORT.

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 analysis, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give a better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the State at low-flow partial-record stations are given in the following table. Generally, this category is used mostly for low-flow analysis when streamflow is primarily from ground-water storage so that the low-flow potentiality of the stream may be obtained by comparison with a nearby stream where continuous records are available. In this State, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained by similar comparison. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1976

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Virgin River basin						
09415460	White River near Red Mountain, near Preston, Nev.	Lat 38°56'35", long 115°20'25", in NW¼SE¼ sec.33, T.13 N., R.59 E., White Pine County, at camp-site 8.0 mi (12.9 km) northwest of State Highway 6 and 15 mi (24 km) northwest of Preston.	18.6	1965-76	4-20-76	2.15
					6-23-76	2.64
					8-18-76	1.02
09417800	Meadow Valley Wash at Echo Point, near Ursine, Nev.	Lat 37°54'30", long 114°15'40", in SW¼SW¼ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 mi (9.7 km) southwest of Ursine.	354	1970-76	11-21-75	4.30
					1-21-76	7.89
					4-14-76	.60
					6-16-76	.49
					9-22-76	.30
Spring Valley						
10243745	Odgers Creek near McGill, Nev.	Lat 39°24'08", long 114°31'48", in NE¼ sec.27, T.18 N., R.66 E., White Pine County, at mouth of canyon, and 14 mi (23 km) east of McGill.	3.9	1973-76	4-21-76	1.02
					6-23-76	2.07
					8-19-76	1.94
10243750	Bassett Creek near McGill, Nev.	Lat 39°26'20", long 114°32'30", in NW¼SW¼ sec.10, T.18 N., R.66 E., White Pine County, 2.4 mi (3.9 km) upstream from State secondary 739 and 13 mi (21 km) northeast of McGill.	6.5	1968-76	4-21-76	2.61
					6-23-76	6.69
					8-19-76	2.56
10243760	Piermont Creek near McGill, Nev.	Lat 39°29'05", long 114°33'00", in NE¼ sec.28, T.19 N., R.66 E., White Pine County, at mouth of canyon, just above diversion, and 14 mi (23 km) northeast of McGill.	7.5	1972-76	4-21-76	2.17
					6-23-76	2.38
					8-19-76	.79
Ruby Valley						
10244725	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NW¼NW¼ sec.2, T.31 N., R.59 E., Elko County, 0.8 mi (1.3 km) west of McCrea Ranch and 13.5 mi (21.7 km) northeast of Ruby Valley Post Office.	7.56	1965-76	10-1-75	2.78
					3-22-76	3.10
					5-20-76	34.7
					7-7-76	2.19
					8-23-76	3.33
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE¼ sec.20, T.25 N., R.51 E., Eureka County, 1.5 mi (2.4 km) upstream from Pete Hanson Creek, 11 mi (18 km) from mouth, and 42 mi (68 km) south of Palisade.	150	1972-76	10-14-75	0
					4-7-76	.20
					5-19-76	0
					6-28-76	0
					8-23-76	0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1976--Continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Humboldt River basin--Continued						
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 mi (21 km) from mouth, 52 mi (84 km) south of Palisade, and 33 mi (53 km) northwest of Eureka.	5.0	1972-76	10-14-75 4- 7-76 5-19-76 6-28-76 8-23-76	0.82 .08 4.80 .85 1.13
10322560	Pete Hanson Creek near Palisade, Nev.	Lat 40°02'35", long 116°15'45", in SW $\frac{1}{4}$ sec.18, T.25 N., R.51 E., Eureka County, 0.5 mi (0.8 km) above mouth, and 40 mi (64 km) south of Palisade.	67	1972-76	10-14-75 4- 7-76 6-28-76 8-23-76	0 0 0 0
Pyramid and Winnemucca Lakes basin						
10336760	Edgewood Creek at Stateline, Nev.	Lat 38°58'00", long 119°56'10", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.13 N., R.18 E., Douglas County, on upstream side of culvert on U.S. Highway 50 and 0.5 mi (0.8 km) northeast of Stateline.	5.5	1967-76	4-20-76 8-31-76 9- 1-76	6.05 1.86 1.63
10348480	McCrays Canyon near Carson City, Nev.	Lat 39°12'13", long 119°52'48", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.16 N., R.19 E., Washoe County, 0.5 mi (0.8 km) upstream from mouth, and 6.5 mi (10.5 km) west-northwest of Carson City.	.64	1974-76	10-29-75 12-11-75 3-12-76 4-13-76 5-13-76 6-16-76 7-14-76 8-20-76 9-16-76	.51 .21 .29 .17 1.75 .29 .10 .10 .16
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.17 N., R.19 E., Washoe County, at toe of hill, and 8.0 mi (12.9 km) southwest of Steamboat.	4.2	1972-76	4-22-76 6-23-76 9-29-76	5.61 .48 .06
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.17 N., R.19 E., Washoe County, 1.5 mi (2.4 km) upstream from mouth and 5.0 mi (8.0 km) southwest of Steamboat.	3.6	1972-76	6-23-76 9-29-76	.43 .22

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water year for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Virgin River basin							
09415100	Pulsipher Wash near Mesquite, Nev.	Lat 36°48'04", long 114°06'37", in NW¼SW¼ sec.18, T.13 S., R.71 E., Clark County, at culvert on U.S. Highway 91 and 2.5 miles west of Mesquite.	4.58	1963-76	1976	-	0
09415480	White River tributary near Preston, Nev.	Lat 38°53'30", long 115°11'40", in N½ sec.23, T.12 N., R.60 E., White Pine County, at culvert on U.S. Highway 6, 2 miles upstream from White River, and 7.5 miles west of Preston.	b26	1962-76	1976	-	0
09415560	White River tributary near Sunnyside, Nev.	Lat 38°19'30", long 115°02'50", Nye County, about 0.4 mile downstream from ford on State Highway 38, 8 miles south of Sunnyside, and 37 miles south of Lund.	b20	1967-76	1976	-	0
09415800	Muddy River tributary near Alamo, Nev.	Lat 37°02'00", long 114°58'50", Lincoln County, at abandoned culvert on former U.S. Highway 93 and 25 miles southeast of Alamo.	b2	1964-76	1976	-	0
09418100	Patterson Wash tributary near Pioche, Nev.	Lat 38°09'00", long 114°35'10", Lincoln County, at culvert on U.S. Highway 93 and 15 miles northwest of Pioche.	b5	1964-76	7- -76	4.63	8
09418150	Caseltan Wash near Panaca, Nev.	Lat 37°45'46", long 114°25'44", in NW¼SE¼NW¼ sec.24, T.2 S., R.68 E., Lincoln County, 0.35 mile upstream from bridge on U.S. Highway 93, 3 miles southwest of Panaca. (Revised.)	70.2	1963-76	7- -76	4.27	400
09418450	Meadow Valley Wash tributary near Caliente, Nev.	Lat 37°36'00", long 114°39'30", in sec.13, T.4 S., R.65 E., Lincoln County, at abandoned culvert, about 100 ft upstream from U.S. Highway 93, 1.2 miles east of Oak Springs Summit, and 8 miles west of Caliente.	b<0.5	1964-76	7- -76	3.73	14
09418990	Weiser Wash near Glendale, Nev.	Lat 36°40'05", long 114°32'10", in SW¼SE¼ sec.31, T.14 S., R.67 E., Clark County, at culvert on Interstate Highway 15 and 2 miles east of Glendale.	b43	1966-76	1976	-	0
Las Vegas Valley							
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE¼SW¼ sec.27, T.17 S., R.60 E., Clark County, above Mormon Wells road crossing, 6 miles east of Corn Creek Springs National Fish and Wildlife Service Headquarters, and 20 miles north of Las Vegas.	b115	1962-76	2- -76	-	a36
09419623	Deer Creek near Charleston Park, Nev.	Lat 36°18'45", long 115°37'10", in NE¼SE¼ sec.7, T.19 S., R.57 E., Clark County, 200 ft upstream from culvert on Deer Creek Springs Road and 4.0 miles northeast of Charleston Park.	1.27	1967-76	7-25-76	c0.20	a4
09419630	Telephone Canyon near Charleston Park, Nev.	Lat 36°16'20", long 115°32'30", in SE¼NW¼ sec.25, T.19 S., R.57 E., Clark County, at culvert on State Highway 39 and 5.8 miles east of Charleston Park.	7.20	1962-76	1976	-	a13

a Estimated.

b Approximately.

c From high-water marks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Las Vegas Valley--Continued							
09419640	Kyle Canyon near Charleston Park, Nev.	Lat 36°16'40", long 115°28'10", in SE¼SW¼ sec.22, T.19 S., R.58 E., Clark County, 650 ft below culvert on State Highway 39 and 10 miles east of Charleston Park.	35.9	1961-76	9- -76	2.41	a70
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 miles southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	b62	1963-76	7- 3-75 2- -76	c8.04 -	d5,130 a30
09419660	Las Vegas Wash tributary near Nellis Air Force Base, Nev.	Lat 36°13'55", long 115°04'05", in NW¼NE¼ sec.8, T.20 S., R.62 E., Clark County, at culvert on Alternate U.S. Highway 91 and 93 and 1.5 miles southwest of Nellis Air Force Base.	18.1	1961-76	9- -76	2.56	a150
09419663	Las Vegas Wash tributary south of Nellis Air Force Base, Nev.	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, 0.1 mile south of Lake Mead Boulevard and 3.7 miles south of main gate of Nellis Air Force Base.	b1.2	1963-76	1976	-	0
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.	8.09	1962-76	2- -76	-	a100
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'56", long 115°11'03", in SW¼ sec.17, T.21 S., R.61 E., Clark County, 80 ft upstream from Union Pacific Railroad bridge and 4 miles southwest of Las Vegas Post Office.	b86	1966-76	9-11-76	c2.26	351
09419678	Flamingo Wash near mouth at Las Vegas, Nev.	Lat 36°08'28", long 115°05'47", in NW¼NW¼ sec.7, T.21 S., R.62 E., Clark County, 120 ft upstream from culvert on U.S. Highway 93, 95, and 466 and 3.2 miles southeast of Las Vegas Post Office.	b117	1969-76	7-26-76	c7.38	660
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE¼NW¼ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road and 3 miles southwest of Blue Diamond.	18.3	1961-76	9- -76	5.27	a44
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NW¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466 and 0.7 mile southeast of Whitney.	239	1961-76	9-11-76	2.24	a370
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE¼SE¼ sec.15, T.22 S., R.62 E., Clark County, at culvert on State Highway 41 and 2.5 miles west of downtown Henderson.	1.17	1967-76	9-11-76	4.49	86
Piute Valley							
09423300	Piute Wash tributary at Searchlight, Nev.	Lat 35°28'00", long 114°56'20", in SE¼NE¼ sec.33, T.28 S., R.63 E., Clark County, at culvert on State Highway 68 and 1 mile west of Searchlight.	b3.4	1967-76	9-11-76	c11.35	370

a Estimated.

b Approximately.

c From high-water marks.

d Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Great Salt Lake Desert							
10172902	Dead Cedar Wash near Wendover, Utah	Lat 40°25'00", long 114°11'20", in N½ sec.4, T.29 N., R.69 E., Elko County, Nev., at culvert on Alternate U.S. Highway 50 and 23.5 miles southwest of Wendover, Utah.	b5	1961-76	1976	-	0
10172908	Thousand Springs Creek at Wilkins, Nev.	Lat 41°25'15", long 114°45'00", in SE¼ sec.20, T.41 N., R.64 E., Elko County, at culvert on U.S. Highway 93, south of Wilkins, and 24 miles northeast of Wells.	b79	1968-76	1976	3.01	a25
10172909	Burnt Creek near Shores, Nev.	Lat 41°33'35", long 114°29'35", Elko County, at culvert, 16 miles east of Shores, and 40 miles northeast of Wells.	10.5	1968-76	1976	-	a0.1
10172913	Loray Wash tributary near Cobre, Nev.	Lat 41°07'37", long 114°20'40", in SE¼SW¼ sec.36, T.38 N., R.67 E., Elko County, at culvert on State Highway 30 and 3 miles east of Cobre.	b24	1961-76	3- -76	-	a0.5
Escalante Valley							
10242460	Escalante Valley tributary near Panaca, Nev.	Lat 37°44'10", long 114°08'20", Lincoln County at culvert on State Highway 25, 3.5 miles east of Modena Summit, 5 miles west of Nevada-Utah boundary, and 14 miles east of Panaca.	b7.9	1964-76	8- 1-76	4.81	a30
Spring Valley							
10243660	Connors Pass Creek near Shoshone, Nev.	Lat 39°02'35", long 114°38'00", in SW¼SW¼ sec.25, T.14 N., R.65 E., White Pine County, at culvert on U.S. Highway 6, 50, and 93 and 18.5 miles northwest of Shoshone.	0.45	1962-76	4- -76	-	a0.4
10243700	Cleve Creek near Ely, Nev.	Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, 2 miles downstream from North Fork and 18 miles east of Ely.	31.8	1914-16†, 1960-67†, 1968-76	5- -76	2.65	30
Antelope Valley (Northern Part)							
10243950	Millick Canyon tributary near Currie, Nev.	Lat 40°13'30", long 114°26'10", near center of sec.8, T.27 N., R.67 E., Elko County, at culvert on Alternate U.S. Highway 50 and 17 miles east of Currie.	b1.4	1965, 1968-76	1976	-	0
Clover and Independence Valleys							
10244220	Maverick Canyon near Oasis, Nev.	Lat 41°04'32", long 114°35'14", in SE¼NE¼ sec.23, T.37 N., R.65 E., Elko County, at culvert on U.S. Highway 40 and 6 miles northwest of Oasis.	3.02	1968-76	1976	-	0
10244240	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE¼SW¼ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93 and 21 miles southeast of Arthur.	b3	1968-76	1976	4.93	42
Dixie Valley Basin							
10244360	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'30", long 117°59'00", in SE¼ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50 and 6 miles west of Eastgate.	b11	1961-76	9- -76	3.75	a5
Rawhide Flats							
10244460	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S¼SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95 and 14 miles north of Schurz.	0.96	1967-76	8- -76	8.58	9

† Operated as a continuous-record station.

a Estimated.

b Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Gabbs Valley							
10244480	Gabbs Valley tributary near Gabbs, Nev.	Lat 38°59'45", long 117°59'45", in sec.13, T.13 N., R.35 E., Nye County, at culvert on State Highway 23 and 9 miles northwest of Gabbs.	b7	1965, 1968-76	8- -76	c10.1	135
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW¼NW¼ sec.31, T.10 N., R.36 E., Mineral County, 3.9 miles upstream from State Highway 23, and about 12 miles south of Gabbs.	207	1974-76	8- 5-74 9-10-75 9- -76	c8.74 c8.80 5.99	2,430 2,040 80
Teels Marsh Valley							
10244620	Teels Marsh tributary at Basalt, Nev.	Lat 38°00'07", long 118°16'48", Mineral County, at culvert on U.S. Highway 6 and 0.75 mile southwest of Basalt.	1.07	1967-76	9- -76	5.15	a1.5
Rhodes Salt Marsh Valley							
10244660	Rhodes Salt Marsh tributary near Candelaria, Nev.	Lat 38°09'17", long 118°12'50", Mineral County, at culvert on State Highway 10 and 7 miles west of Candelaria.	b0.4	1961-76	1976	2.67	a0.1
Ruby Valley							
10244745	Overland Creek near Ruby Valley, Nev.	Lat 40°27'30", long 115°23'30", in SE¼SE¼ sec.23, T.30 N., R.58 E., Elko County, 0.1 mile upstream from Humboldt National Forest boundary and 2.2 miles north of Ruby Valley Post Office.	b9	1960-67†, 1968-76	5-20-76	1.81	90
Steptoe Valley basin							
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93 and 2.5 miles northwest of Currie.	b0.7	1961-76	8- -76	3.36	36
Dry Lake Valley							
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW¼ sec.11, T.4 S., R.64 E., Lincoln County, at culvert on U.S. Highway 93 and 14.5 miles west of Caliente.	b11	1967-76	7- -76	6.17	150
Jakes Valley							
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 ft upstream from Illipah Creek, and 10.5 miles northeast of Hamilton.	5.47	1962-76	3- -76	-	5
Monitor and Diamond Valleys basin							
10245950	Bean Flat tributary near Austin, Nev.	Lat 39°29'32", long 116°32'00", Eureka County, at culvert on U.S. Highway 50 and 29 miles east of Austin.	b1.1	1961-76	2- -76	1.45	a0.1
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, culvert on State Highway 51 and 24 miles northwest of Eureka.	2.12	1962-76	1976	-	0
10246010	Garden Pass Creek near Eureka, Nev.	Lat 39°46'45", long 116°06'23", in NW¼NW¼ sec.22, T.22 N., R.52 E., Eureka County, at culvert on State Highway 51 and 20 miles north of Eureka.	19.2	1965-76	8- -76	-	a1

† Operated as a continuous-record station.

a Estimated.

b Approximately.

c From high-water marks.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Hot Creek and Railroad (Northern Part) Valleys							
10246845	Currant Creek tributary near Currant, Nev.	Lat 38°49'10", long 115°19'35", near line common to NW¼NE¼ and NE¼NW¼ sec.15, T.11 N., R.59 E., Nye County, at culvert on U.S. Highway 6 and 9.5 miles northeast of Currant.	3.13	1962-76	7- -76	-	a1.5
10246847	Currant Creek, below Little Currant Creek, near Currant, Nev.	Lat 38°49'12", long 115°20'43", in NE¼NW¼ sec.16, T.11 N., R.59 E., Nye County, at bridge on U.S. Highway 6, 3.5 miles west of Currant Summit, and 9 miles northeast of Currant.	30.0	1964-76	5-22-76	2.29	5
10247010	Hot Creek tributary near Warm Springs, Nev.	Lat 38°12', long 116°13', in sec.15, T.4 N., R.51 E., Nye County, at culvert on State Highway 25, 9 miles east of Warm Springs, and 57 miles east of Tonopah.	b1.0	1964-76	8- 1-76	4.93	100
10247220	Black Rock Summit tributary near Currant, Nev.	Lat 38°30'25", long 115°53'20", Nye County, at culvert on U.S. Highway 6 and 28 miles southwest of Currant.	6.35	1967-76	1976	-	0
10247230	Railroad Valley tributary near Currant, Nev.	Lat 38°32'34", long 115°47'52", in NW¼NW¼ sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6 and 22.5 miles southwest of Currant.	0.37	1962-76	1976	-	0
Indian Springs Valley							
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW¼NW¼ sec.16, or SW¼SW¼ sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95 and 8 miles west of Indian Springs.	b29	1964-76	1976	c1.7	a3
Stonewall and Sarcobatus Flats basin							
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE¼NE¼ sec.13, T.4 S., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 8 miles south of Goldfield.	0.53	1964-76	8- 1-76	-	a1.0
10248980	Lida Pass tributary near Lida, Nev.	Lat 37°26'05", long 117°33'25", in SE¼NE¼ sec.8, T.6 S., R.40 E., Esmeralda County, at culvert on State Highway 3 and 4 miles southwest of Lida.	1.59	1968-76	9- -76	-	a1
10249050	Sarcobatus Flat tributary near Springdale, Nev.	Lat 37°13'18", long 117°07'35", Nye County, at culvert on State Highway 72, at Bonnie Clare, and 24 miles northwest of Springdale.	37.1	1961-76	7- -76	2.24	6
Stone Cabin and Ralston Valleys							
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 8A and 19 miles north of Tonopah.	3.42	1965-76	1976	-	0
10249140	Ralston Valley tributary near Tonopah Nev.	Lat 38°17'23", long 117°05'59", in SW¼NE¼ sec.13, T.5 N., R.43 E., Nye County, at culvert on State Highway 8A and 17 miles northeast of Tonopah.	0.20	1961-76	1976	-	0
10249180	Saulsbury Wash near Tonopah, Nev.	Lat 38°07'30", long 116°48'30", in S¼SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6 and 23 miles east of Tonopah.	b56	1962-76	8- 1-76	4.44	90
Smith Creek Valley							
10249417	Smith Creek Valley tributary near Austin, Nev.	Lat 39°32'21", long 117°28'26", in NE¼SE¼ sec.4, T.19 N., R.40 E., Lander County, at culvert on U.S. Highway 50 and 22 miles west of Austin.	0.62	1968-76	9- -76	3.26	a0.5
Tone and Big Smoky (Tonopah Flat) Valleys							
10249620	Big Smoky Valley tributary near Tonopah, Nev.	Lat 38°01'52", long 117°13'52", in SW¼NE¼ sec.14, T.2 N., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 2.5 miles south of Tonopah.	2.39	1961-76	9- -76	-	a0.4
10249680	Big Smoky Valley tributary near Blair Junction, Nev.	Lat 38°01'52", long 117°42'35", Esmeralda County, at culvert on U.S. Highway 6 and 95 and 3.5 miles east of Blair Junction.	11.4	1961-76	9-10-76	2.70	80

a Estimated.

b Approximately.

c From high-water marks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Fish Lake Valley and Columbus Salt Marsh							
10249850	Palmetto Wash tributary near Lida, Nev.	Lat 37°26'30", long 117°41'25", in SW¼SE¼ sec.6, T.6 S., R.39 E., Esmeralda County, at culvert on State Highway 3, 7 miles west of Lida Summit, and 11 miles west of Lida.	4.73	1967-76	9- -76	-	a1
10249855	Palmetto Wash tributary near Oasis, Calif.	Lat 37°27'25", long 117°46'10", in W¼SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 3 and 8 miles south-east of Oasis, Calif.	b0.24	1968-76	8- 1-76	5.05	30
Death Valley basin							
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW¼NE¼ sec.30, T.12 S., R.47 E., Nye County, on left bank, 170 ft downstream from airport road, and 2.8 miles south of Beatty.	b470	1963-68†, 1969-76	2- -76	0.83	a100
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", in sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95 and 9 miles southwest of Mercury.	110	1963-76	1976	-	0
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE¼SE¼ sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 3.5 miles northwest of Johnnie.	2.21	1967-76	7- 1-76	2.62	3
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W¼NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 1.2 miles north of Johnnie.	2.49	1968-76	2- -76	-	a2
Walker Lake basin							
10299100	Desert Creek near Wellington, Nev.	Lat 38°38'55", long 119°19'30", in SW¼SW¼ sec.8, T.9 N., R.24 E., Lyon County, on left bank 10 ft above diversion and 8 miles southeast of Wellington.	50.4	1965-69†, 1970-76	8- -76	1.61	16
10299120	O'Banion Canyon near Wellington, Nev.	Lat 38°38'05", long 119°15'50", Lyon County, at culvert on State Highway 22 and 10 miles southeast of Wellington.	5.05	1965-76	1976	-	0
Carson River basin							
10309005	Bodie Flat tributary near Gardnerville, Nev.	Lat 38°50'08", long 119°37'52", in NW¼NE¼ sec.9, T.11 N., R.21 E., Douglas County, at culvert on U.S. Highway 395 and 9 miles southeast of Gardnerville.	0.46	1967-76	1976	-	0
10310500	Clear Creek near Carson City, Nev.	Lat 39°06'48", long 119°47'50", in NE¼NW¼ sec.1, T.14 N., R.19 E., Carson City, 3 miles upstream from mouth and 3.5 miles southwest of Carson City.	15.5	1948-62†, 1963-76	1976	-	a5
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW¼NE¼ sec.13, T.15 N., R.20 E., Carson City, 0.3 mile upstream from mouth and 2.5 miles east of New Empire.	12.7	1966-76	8- 1-76	2.40	30
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95 and 4.8 miles north-west of Wabuska.	5.75	1968-76	8- -76	-	a0.1
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13'45", long 119°13'40", in NW¼NW¼ sec.30, T.16 N., R.25 E., Lyon County, at abandoned culvert on former Alternate U.S. Highway 95 and 4.6 miles southeast of Weeks.	0.12	1968-76	1976	-	a0.1
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE¼SW¼ sec.32, T.18 N., R.24 E., Lyon County, at culvert on private road, 0.3 mile south of U.S. Highway 50, and 5.5 miles southwest of Silver Springs.	4.39	1962-76	8- 1-76	3.20	a25

† Operated as a continuous-record station.

a Estimated.

b Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Humboldt River basin							
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58'10", long 115°26'50", in NW¼NW¼ sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80 and 1.5 miles north of Halleck.	b3	1966-76	1976	-	a0.1
10315950	Secret Creek tributary near Arthur, Nev.	Lat 40°52'00", long 115°15'40", in S½SE¼ sec.36, T.35 N., R.59 E., Elko County, at culvert on State Highway 11, 6 miles northwest of Arthur, and 12 miles southeast of Halleck.	b3	1967-76	5- -75 5- -76	20.10 19.14	a37 8
10317430	Jim Creek near Tuscarora, Nev.	Lat 41°17'50", long 115°47'30", in SW¼ sec.4, T.39 N., R.55 E., Elko County, at culvert on State Highway 43 and 23 miles east of Tuscarora.	b25	1962, 1966-76	9- -76	4.00	a25
10319470	Willow Creek tributary near Jiggs, Nev.	Lat 40°30'47", long 115°39'42", in SW¼NW¼ sec.3, T.30 N., R.56 E., Elko County, at culvert on State Highway 46 and 6 miles north of Jiggs.	0.82	1962-76	2- -76	-	a2
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 20 and 3.2 miles southeast of Palisade.	11.4	1962-76	9- -76	-	a0.3
10323200	Bob Creek near Beowawe, Nev.	Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80 and 6 miles northeast of Beowawe.	13.9	1962-76	1976	-	0
10323880	Willow Creek above Willow Creek Reservoir, near Tuscarora, Nev.	Lat 41°13'00", long 116°28'00", in SW¼NE¼ sec.36, T.39 N., R.48 E., Elko County, 4 miles upstream from dam and 14.5 miles southwest of Tuscarora.	b81	1968-76	4- -76	c1.7	a35
10326400	Reese River tributary near Austin, Nev.	Lat 39°28'29", long 117°19'10", in NE¼NW¼ sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50 and 14 miles west of Austin.	8.27	1968-76	1976	-	0
10326650	Silver Creek near Austin, Nev.	Lat 39°43'10", long 117°10'04", in NW¼ sec.5, T.21 N., R.43 E., Lander County, at culvert on State Highway 8A and 16.5 miles north of Austin.	b25	1961-76	9- -76	-	a3
10326850	Reese River tributary near Battle Mountain, Nev.	Lat 40°32'30", long 117°03'00", in SW¼ sec.20, T.31 N., R.44 E., Lander County, at culvert on State Highway 8A and 9 miles southwest of Battle Mountain.	b0.2	1962-76	9-15-76	4.50	26
10327600	Humboldt River tributary near Golconda, Nev.	Lat 41°00'40", long 117°21'20", in E¼ sec.9, T.36 N., R.41 E., Humboldt County, at culvert on State Highway 18 and 8 miles northeast of Golconda.	b3.4	1962-76	1976	-	0
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE¼NE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80 and 5 miles northeast of Winnemucca.	b1.9	1968-76	1976	-	a1
10330300	Mullinix Creek near Paradise Valley, Nev.	Lat 41°30'40", long 117°32'25", in NE¼NE¼ sec.23, T.42 N., R.39 E., Humboldt County, at culvert on State Highway 8B and 1.2 miles north of Paradise Valley.	27.3	1962-76	3- -76	6.76	450
10332200	Raspberry Creek near Mill City, Nev.	Lat 40°47'14", long 117°59'54", in SW¼SW¼ sec.25, T.34 N., R.35 E., Pershing County, at culvert on access road, upstream from Cosgrove Interchange on Interstate Highway 80, and 8.5 miles northeast of Mill City.	9.38	1961-76	8- -76	-	a2
10336030	Toulon Drain tributary near Lovelock, Nev.	Lat 40°06'30", long 118°33'25", in NW¼SE¼ sec.24, T.26 N., R.30 E., Pershing County, at culvert on Interstate Highway 80 and 7.5 miles southwest of Lovelock.	0.80	1962-76	8-22-76	6.95	350
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51'05", long 118°55'40", in NE¼NE¼ sec.22, T.23 N., R.27 E., Churchill County, at culvert on U.S. Highway 40 and 95 and 6.5 miles northeast of Bradys Hot Springs.	11.0	1962-76	9-11-76	7.70	570

a Estimated.

b Approximately.

c From high-water marks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Pyramid and Winnemucca Lakes basin							
10336693*	Wood Creek near Crystal Bay, Nev.	Lat 39°15'40", long 119°57'25", in SE¼SE¼ sec.9, T.16 N., R.18 E., Washoe County, at culvert on State Highway 27 and 3.5 miles northeast of Crystal Bay.	1.69	1967-76	8- 1-76	4.27	12
10350100	Long Valley Creek near Happy Valley, Nev.	Lat 39°28'55", long 119°37'10", in NE¼SW¼ sec.27, T.19 N., R.21 E., Storey County, 2 miles southeast of Happy Valley and 8 miles south-east of Sparks.	82.6	1967-76	8- 1-76	1.04	17
10351850	Pyramid Lake tribu-tary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on Southern Pacific Railroad and 6.5 miles west of Nixon.	1.94	1968-76	1976	-	0
Black Rock Desert basin							
10353510	Eagle Creek near Orovida, Nev.	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95 and 5.6 miles north of Orovida.	3.44	1962-76	8- -76	5.68	2
10353710	Black Rock Desert tributary near Sulphur, Nev.	Lat 40°54'00", long 118°37'40", Humboldt County, at culvert on State Highway 49 and 7.5 miles east of Sulphur.	b33	1967-76	8-22-76	c7.6	3,940
10353730	Dry Creek near Gerlach, Nev.	Lat 40°43'43", long 119°27'07", in SE¼NE¼ sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 81 and 7.5 miles west of Gerlach.	b3.5	1968-76	8- -76	-	a1
Guano Valley Basin							
10361700	Badger Creek tribu-tary near Vya, Nev.	Lat 41°43'20", long 119°22'20", in NE¼ sec.22, T.44 N., R.23 E., Washoe County, at culvert on State Highway 8A, 27 miles northeast of Vya, and 43 miles southwest of Denio.	7.7	1963, 1964-72†, 1973-76	1976	-	0
Tumtum Lake basin							
10407150	Big Spring Reservoir tributary near Denio, Nev.	Lat 41°56'53", long 119°17'51", Humboldt County, at culvert on State Highway 8A, 3.4 miles southwest of Nevada-Oregon State line, and 35 miles west of Denio.	1.02	1963-76	1976	-	0
Bruneau River basin							
13161100	Bruneau River near Charleston, Nev.	Lat 41°30'50", long 115°27'05", in SE¼SW¼ sec.20, T.42 N., R.58 E., Elko County, 600 ft down-stream from road, 11.5 miles south of Charleston, and 25 miles south of Jarbidge.	b44	1962-76	1976	e12.88	a32
13161200	Seventy Six Creek near Charleston, Nev.	Lat 41°42'40", long 115°28'57", in NE¼ sec.13, T.44 N., R.57 E., Elko County, at culvert, 3.5 miles northeast of Charleston, and 12 miles south of Jarbidge.	3.52	1963-76	5- -75 5- -76	12.35 9.87	89 30
13161300	Meadow Creek near Rowland, Nev.	Lat 41°54'00", long 115°40'40", in SW¼ sec.5, T.46 N., R.56 E., Elko County, at culvert and 2.5 miles south of Rowland.	57.8	1963-76	5- -76	c11.10	a85
13161600	McDonald Creek near Rowland, Nev.	Lat 41°55'10", long 115°46'20", in SW¼NE¼ sec.33, T.47 N., R.55 E., Elko County, at culvert and 5 miles west of Rowland.	10.8	1963-76	5- -76	7.79	50
13162200	Jarbidge River at Jarbidge, Nev.	Lat 41°51'45", long 115°25'40", in NW¼ sec.21, T.46 N., R.58 E., Elko County, at bridge and 1.0 mile south of Jarbidge.	22.6	1964-76	5- -76	15.35	320
13162400	Buck Creek near Jarbidge, Nev.	Lat 41°58'45", long 115°25'55", in NW¼ sec.9, T.47 N., R.58 E., Elko County, at culvert, at Diamond A Ranch, and 7.2 miles north of Jarbidge.	20.2	1963-76	5- -76	17.18	79
13162600	Columbet Creek near Jarbidge, Nev.	Lat 41°58'00", long 115°29'05", in NW¼ sec.13, T.47 N., R.57 E., Elko County, at culvert and 7 miles northwest of Jarbidge.	3.37	1963-76	5- -76	7.72	14

* Also published as miscellaneous site.

† Operated as a continuous-record station.

a Estimated.

b Approximately.

c From high-water marks.

e Backwater from beaver dam.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (cfs)
Owyhee River basin							
13175900	Reed Creek near Owyhee, Nev.	Lat 41°53'45", long 116°03'40", in SW¼SE¼ sec.7, T.46 N., R.53 E., Elko County, at culvert on State Highway 11A and 3.8 miles southeast of Owyhee.	6.51	1963-76	5- -76	3.59	a20
13176600	Taylor Canyon tribu- tary near Tuscarora, Nev.	Lat 41°14'10", long 116°02'10", in S½ sec.29, T.39 N., R.53 E., Elko County, at culvert on State Highway 11 and 11 miles southeast of Tuscarora.	61.2	1967-76	5- -76	-	a0.1
13176900	Jack Creek below Schoonover Creek, near Tuscarora, Nev.	Lat 41°30'30", long 116°04'20", in NW¼SE¼ sec.25, T.42 N., R.52 E., Elko County, 0.2 mile down- stream from Schoonover Creek, 2 miles upstream from mouth, and 16 miles northeast of Tuscarora.	19.8	1962-69‡, 5- 1970-76	-76	c1.04	a100

‡ Operated as a continuous-record station.

a Estimated.

b Approximately.

c From high-water marks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1976

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Steptoe Valley						
Gleason Creek	Steptoe Valley	Lat 39°15'03", long 119°52'57", in NW¼ sec.16, T.16 N., R.63 E., White Pine County, 10 ft (3 m) southwest of the Grand Central Motel in Ely.	—	—	3-17-76	13.8
Monitor Valley						
Pine Creek	Monitor Valley	Lat 38°48'54", long 116°50'51", in SW¼ sec.18, T.11 N., R.46 E., Nye County, 14 mi (22 km) north of Belmont, and 2.3 mi (3.7 km) west of Pine Creek ranch.	—	—	9-26-76	2.16
Ikes Canyon	Do.	Lat 39°03'24", long 116°44'33", in NW¼ sec.13, T.14 N., R.46 E., Nye County, 32 mi (51 km) north of Belmont, and 6 mi (10 km) southwest of Potts Ranch.	—	—	9-25-76	0.41
Big Smoky Valley (Northern Part)						
Big Smoky Valley tributary near Manhattan	Big Smoky Valley	Lat 38°35', long 117°09', in NW¼ sec.3, T.8 N., R.43 E., Nye County, about 5 mi (8 km) northwest of Manhattan.	a4	—	9- -76	fb1,300
Walker Lake Basin						
Desert Creek	West Walker River	Lat 38°38'55", long 119°19'30", in SW¼ sec.8, T.9 N., R.24 E., Lyon County, 10 ft (3 m) upstream from diversion, 0.5 mi (0.8 km) upstream from Desert Creek Ranch and 8 mi (13 km) southeast of Wellington.	50.4	1964-69†, 1970-76c	9-30-76	6.88
Walker River	Walker Lake	Lat 39°01'15", long 119°09'20", in NW¼ sec.2, T.13 N., R.25 E., Lyon County, 2.5 mi (4.0 km) north of Yerington.	—	—	8-12-76	23.4
Nevada Creek	Topaz Lake	Lat 38°41'32", long 119°32'51", in SW¼ sec.29, T.10 N., R.22 E., Douglas County, 0.25 mi (0.40 km) upstream from U.S. Highway 395, and 2.7 mi (4.3 km) south of Holbrook Junction.	—	—	7-12-76	*0.07
Carson River Basin						
Silver Creek	East Fork Carson River	Lat 38°36'00", long 119°46'30", in SE¼ sec.28, T.9 N., R.20 E., Alpine County, 0.25 mi (0.40 km) downstream from Pennsylvania Creek, 4 mi (6 km) upstream from mouth, and 6.5 mi (10.5 km) south of Markleeville.	19.6	1947-65†, 1966-73c	9-29-76	5.00
Hot Springs Creek	Do.	Lat 38°42', long 119°51', in SE¼ sec.23, T.10 N., R.19 E., Alpine County, 0.5 mi (0.8 km) upstream from Buck Creek, 4 mi (6 km) upstream from mouth, and 4 mi (6 km) west of Markleeville.	a14	1947-57†	9-29-76	0.53
Markleeville Creek	Do.	Lat 38°41'30", long 119°46'50", in SE¼ sec.21, T.10 N., R.20 E., Alpine County, at highway bridge at Markleeville and 0.75 mi (1.21 km) upstream from Pleasant Valley Creek.	53.4	1913-31†	9-29-76	2.72
Bryant Creek	Do.	Lat 38°47'38", long 119°40'18", in NE¼ sec.30, T.11 N., R.21 E., Douglas County, 500 ft (152 m) upstream from Doud Springs Creek, 1.7 mi (2.7 km) upstream from mouth, and 11 mi (18 km) southeast of Gardnerville.	31.5	1961-69†, 1970-73c	9-29-76	3.23
Stuard Creek	West Fork Carson River	Lat 38°48'09", long 119°48'46", in SW¼ sec.23, T.11 N., R.19 E., Alpine County, 1.8 mi (2.9 km) northeast of Woodfords.	—	—	9-27-76	0.08
Fredericksburg Canyon	Do.	Lat 38°49'44", long 119°47'56", in NE¼ sec.12, T.11 N., R.19 E., Alpine County, about 0.7 mi (1.1 km) west of Fredericksburg.	3.71	1972-73	9-27-76	2.42

See footnotes at end of the table.

Measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1976--continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Carson River Basin--continued						
Luther Creek	West Fork Carson River	Lat 38°51'22", long 119°48'38", in SW¼SE¼ sec.35, T.12 N., R.19 E., Alpine County, about 2.3 mi (3.7 km) northwest of Fredericksburg.	—	—	9-27-76	1.89
Jobs Canyon	Do.	Lat 38°52'55", long 119°50'51", in SE¼SE¼ sec.21, T.12 N., R.19 E., Alpine County, about 5 mi (8 km) northwest of Fredericksburg.	—	—	9-28-76	0.08
Mott Canyon	Do.	Lat 38°55'39", long 119°50'47", in NE¼SE¼ sec.4, T.12 N., R.19 E., Douglas County, 0.8 mi (1.3 km) upstream from Foothill Road, and 5.5 mi (8.8 km) southwest of Minden.	a2.0	1969,1971 1972,1973	9-27-76	2.02
Genoa Canyon	Carson River	Lat 39°00'03", long 119°51'12", in SE¼SW¼ sec.9, T.13 N., R.19 E., Douglas County, 0.8 mi (1.3 km) downstream from confluence with unnamed tributary and 0.5 mi (0.8 km) southwest of Genoa.	2.24	1969,1972	9-27-76	0.91
Sierra Canyon	Do.	Lat 39°00'59", long 119°50'46", in NW¼SE¼ sec.4, T.13 N., R.19 E., Douglas County, 1.0 mi (1.6 km) downstream from confluence with unnamed tributary, and 0.9 mi (1.4 km) north of Genoa.	3.15	1969	9-27-76	0.61
Clear Creek	Do.	Lat 39°06'48", long 119°47'50", in NE¼NW¼ sec.1, T.14 N., R.19 E., Carson City, 3 mi (5 km) upstream from mouth, and 3.5 mi (5.6 km) southwest of Carson City.	15.5	1948-62†, 1963-76c	9-29-76	2.45
Lahontan Reservoir tributary No. 4	Lahontan Reservoir	Lat 39°22', long 119°15', in SE¼ sec.2, T.17 N., R.24 E., Lyon County, about 4 mi (6.4 km) southwest of Silver Springs.	a0.2	—	8- 1-76	†b780
Salt Wells Basin tributary No. 1	Salt Wells basin	Lat 39°16'20", long 118°23'39", in SW¼SE¼ sec.4, T.16 N., R.32 E., Churchill County, about 0.2 mi (0.4 km) north of U.S. 50 and 27 mi (43 km) southeast of Fallon.	0.17	—	8- 1-76	†b980
Salt Wells Basin tributary No. 2	Do.	Lat 39°16'11", long 118°23'16", in NE¼NE¼ sec.9, T.16 N., R.32 E., Churchill County, about 0.2 mi (0.4 km) north of U.S. 50 and 27 mi (43 km) southeast of Fallon.	0.09	—	8- 1-76	†d179
Salt Wells Basin tributary No. 3	Do.	Lat 39°16'11", long 118°23'16", in NE¼NE¼ sec.9, T.16 N., R.32 E., Churchill County, about 0.2 mi (0.4 km) north of U.S. 50, and 27 mi (43 km) southeast of Fallon.	0.22	—	8- 1-76	†d1,640
Humboldt River Basin						
Humboldt River tributary near Winnemucca	Humboldt River	Lat 40°58', long 118°03', in T.36 N., R.35 E., Humboldt County, about 1 mi (1.6 km) north of State Highway 49, and about 16 mi (26 km) west of Winnemucca.	a2	—	8-22-76	†d9,430
Imlay Canyon near Imlay	Do.	Lat 40°38', long 118°12', in SE¼ sec.13, T.32 N., R.33 E., Pershing County, about 3.5 mi (5.6 km) southwest of Imlay.	a2.4	—	8-22-76	†b400
Humboldt River tributary near Humboldt	Do.	Lat 40°37', long 118°14', in NW¼ sec.26, T.32 N., R.33 E., Pershing County, about 1.5 mi (2.4 km) northeast of Humboldt.	a1.3	—	8-22-76	†b2,500
Panther Canyon	Do.	Lat 40°26'48", long 118°14'41", in NW¼SW¼ sec.23, T.30 N., R.33 E., Pershing County about 2.5 mi (4.0 km) southeast of Rye Patch Junction.	3.8	—	5-31-73	†d374

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

Discharge measurements made at miscellaneous sites during water year 1976--continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Humboldt River Basin--continued						
Humboldt River tributary near Rye Patch	Humboldt River	Lat 40°25'15", long 118°15'30", in NW¼NW¼SE¼ sec.34, T.30 N., R.33 E., Pershing County, about 3.6 mi (5.8 km) southeast of Rye Patch Junction.	0.85	—	5-31-73	†d8,940
Rocky Canyon	Do.	Lat 40°24'32", long 118°15'20", in SW¼NE¼ sec.3, T.29 N., R.33 E., Pershing County, about 6.2 mi (10 km) northeast of Oreana.	4.05	—	5-31-73	†d14,370
Humboldt River tributary near Oreana	Do.	Lat 40°23'30", long 118°14'59", in NE¼SE¼ sec.10, T.29 N., R.33 E., Pershing County, 5.4 mi (8.7 km) northeast of Oreana.	0.76	—	5-31-73	†d6,000
Fernley Basin						
Fernley Basin tributary No. 2	Fernley Basin	Lat 39°31', long 119°14', in SW¼ sec.7, T.19 N., R.25 E., Lyon County, about 0.1 mi (0.16 km) east of U.S. Alternate 50, and 6 mi (9.7 km) south of Fernley.	a0.3	—	8- 1-76	†b650
Fernley Basin tributary No. 1	Do.	Lat 39°33', long 119°14', in SE¼ sec.36, T.20 N., R.24 E., Lyon County, about 0.3 mi (0.5 km) east of U.S. Alternate 50, and 4 mi (6.4 km) south of Fernley.	a0.8	—	8- 1-76	†b1,000
Pyramid and Winnemucca Lakes Basin						
Dog Creek	Truckee River	Lat 39°33'55", long 120°01'25", in SW¼SW¼ sec.30, T.20 N., R.18 E., Sierra County, 3.5 mi (5.6 km) upstream from mouth, and 4 mi (6 km) northwest of Verdi.	16.2	1956-61†	9-29-76	2.17
Hunter Creek	Do.	Lat 39°29'25", long 119°53'55", in SW¼SW¼ sec.19, T.19 N., R.19 E., Washoe County, 1.0 mi (1.6 km) upstream from mouth, 1.25 mi (2.01 km) upstream from Hunter Creek reservoir, and 5 mi (8 km) southwest of Reno.	11.5	1961-71†	9-29-76	4.24
Whites Creek	Steamboat Creek	Lat 39°33'05", long 119°50'20", in SE¼NW¼ sec.34, T.18 N., R.19 E., Washoe County, 4 mi (6 km) west of Steamboat, and 10 mi (16 km) south of Reno.	8.02	1961-66†	9-29-76	3.84
Steamboat Creek tributary No. 2 above Hidden Valley	Do.	Lat 39°28'59", long 119°42'30", in NE¼SW¼ sec.26, T.19 N., R.20 E., Washoe County, about 1 mi (1.6 km) southeast of Hidden Valley Country Club, and about 6 mi (9.7 km) east of Reno.	0.70	—	8- 1-76	†d740
Steamboat Creek tributary No. 1 above Hidden Valley	Do.	Lat 39°29'33", long 119°42'15", in SW¼SE¼ sec.23, T.19 N., R.20 E., Washoe County, about 1 mi (1.6 km) east of Hidden Valley Country Club, and about 6 mi (9.7 km) east of Reno.	0.33	1971	7-16-71 8- 1-76	†d1,900 †b250
Snake River Basin						
South Fork Owyhee River	S Snake River	Lat 41°25'40", long 116°10'40", in NW¼NW¼ sec.30, T.41 N., R.52 E., Elko County, 0.2 mi (0.3 km) downstream from Hot Creek, 2.8 mi (4.5 km) west of Spanish Ranch headquarters, and 8 mi (13 km) north of Tuscarora.	a330	1960-73†	10- 3-75 5- -76	21.8 †1,050

* Base flow.

† Peak flow.

‡ Operated as a continuous-record station.

a Approximate.

b Slope-conveyance computation.

c Operated as a crest-stage partial-record station.

d Slope-area computation.

Upper Carson River Basin low-flow investigation

A series of instantaneous discharge and water-quality measurements were made September 9, 10, 27, 1976, to study gains and losses on that portion of the Carson River System between the Gardnerville-Woodfords Gages and the Carson City Gage. Discharge at the gaging stations was almost constant during the period of measurements. Discharge measurements are accurate within about 5 percent; therefore, several of the smaller gains and losses may be apparent rather than real.

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
Carson River							
East Fork Carson River (Head of Carson River)	Gaging station near Gardnerville (10309000).	9- 9-76	60.0				
do.	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.12 N., R.20 E., 100 ft upstream from Rhodenbah Power Dam, and 2 mi north of Gardnerville Gage.	do.	59.1			-0.90	241
Peter Heitman	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.25, T.12 N., R.20 E., 0.4 mi downstream from point of diversion, and 2.5 mi north of Gardnerville Gage.	do.			4.58		
Allerman Canal	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.12 N., R.20 E., 50 ft downstream from point of diversion, and 2.8 mi north of Gardnerville Gage.	do.			45.6		
East Fork Carson River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.12 N., R.20 E., 600 ft downstream from Allerman Canal Diver- sion Dam, and 2.9 mi north of Gardner- ville Gage.	do.	6.52			-2.40	236
Lahontan Basin Fish Hatchery	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.12 N., R.20 E., 0.3 mi downstream from Allerman Canal Diver- sion Dam, and 3 mi north of Gardnerville Gage.	do.		3.94			
Indian Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.12 N., R.20 E., at mouth, and 3 mi north of Gardnerville Gage.	do.		0.07			
Allerman Canal Return Flow	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.23 T.12 N., R.20 E., 0.3 mi northwest of Indian Creek at it's mouth, and 3 mi north of Gardnerville Gage.	do.		11.5			
Buckeye and Wheeler	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.12 N., R.20 E., 40 ft downstream from point of diversion, and 3 mi north of Gardnerville Gage.	do.			5.00		
East Fork Carson River	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.12 N., R.20 E., 0.1 mi northwest of Buckeye-Wheeler Diversion, and 3.1 mi north of Gardnerville Gage.	do.	21.0			+3.97	248
Return Flow from Settlemyer Ranch	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.12 N., R.20 E., 0.5 mi northwest of Buckeye-Wheeler Diversion, and 3.5 mi northwest of Gardnerville Gage.	do.		0.10			
Rocky Slough	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 4.7 mi northwest of Gardnerville Gage, and 4.2 mi southeast of Minden Gage.	do.			7.01		
Upper New Virginia	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 30 ft downstream from Rocky Slough Diversion Dam, and 4.2 mi southeast of Minden Gage.	do.			0.03		
East Fork Carson River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 100 ft downstream from Rocky Slough Diversion, and 4 mi southeast of Minden Gage.	do.	13.5			-0.56	286
Lower Old Virginia	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.12 N., R.20 E., im- mediately downstream from spillway, 0.4 mi northwest of Rocky Slough Diver- sion, and 3.8 mi southeast of Minden Gage.	do.			0.04		
Christensen-Hussman	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 10 ft upstream from headgate, 0.4 mi north- west of Rocky Slough Diversion, and 3.7 mi southeast of Minden Gage.	do.			3.26		

Footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
Carson River.--Continued							
Christensen-Hussman Return Flow	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 0.2 mi northwest of Christensen-Hussman Diver- sion, 0.6 mi northwest of Rocky Slough, and 3.5 mi southeast of Minden Gage.	9- 9-76		2.62			
East Fork Carson River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 0.9 mi northwest of Rocky Slough, 0.1 mi up- stream from Cottonwood Slough Dam, and 3.2 mi southeast of Minden Gage.	do.	10.9			-1.92	276
Heitman and Company	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 50 ft downstream from Rocky Slough Diversion Dam, and 3.2 mi southeast of Minden Gage.	do.			0.95		
Cottonwood Slough	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.12 N., R.20 E., 40 ft downstream from diversion dam, and 3.2 mi southeast of Minden Gage.	do.			5.22		
East Fork Carson River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.12 N., R.20 E., 700 ft upstream from Luthern Bridge, and 2.4 mi southeast of Minden Gage.	do.	2.02			-2.71	253
Stodieck	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 10 ft below point of diversion, and 1.9 mi southeast of Minden Gage.	do.			0.71		
Stodieck Return Flow	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 1.8 mi southeast of Minden Gage.	do.		a0.1			
East Fork Carson River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 0.1 mi downstream from Madison or Topping No. 1 Diversion, and 1.4 mi southeast of Minden Gage.	do.	2.18			+0.77	
Topping No. 2	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 1.2 mi southeast of Minden Gage.	do.			a0.02		
Topping No. 2 Return Flow	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 1.2 mi southeast of Minden Gage.	do.		a0.02			
St. Louis Straight	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.12 N., R.20 E., 1 mi upstream from Calif. State Highway 88, 0.6 mi northwest of Madison or Topping No. 1, and 0.9 mi southeast of Minden Gage.	do.			0.03		
Home Stream System	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.13 N., R.20 E., 60 ft downstream from point of diversion, and 0.4 mi southeast of Minden Gage.	do.			2.50		
East Fork Carson River	Gaging station at Minden, (1.309100).	do.	0.95			+1.30	227
do.	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.13 N., R.20 E., 40 ft upstream from Middle River Diversion Dam, and 0.3 mi northwest of Minden Gage.	do.	1.20			+0.25	
Return Flow	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.13 N., R.20 E., 5 ft downstream from Middle River Diversion Dam, and 0.3 mi northwest of Minden Gage.	do.		0.83			
do.	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.13 N., R.20 E., 800 ft downstream from Middle River Diver- sion Dam, and 0.4 mi northwest of Minden Gage.	do.		0.01			
Round Hill Sewage Effluent	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.13 N., R.19 E., on left bank, under Muller Lane Bridge, and 1.9 mi northwest of Minden Gage.	do.		1.56			
Williams Slough	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.13 N., R.19 E., 30 ft downstream from point of diversion, 2 mi northwest of Minden Gage, and 0.2 mi northwest of Muller Lane Bridge.	do.		4.50			

Footnotes at end of table.

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
Carson River.--Continued							
East Fork Carson River	NW ¹ / ₄ SW ¹ / ₄ sec.24, T.13 N., R.19 E., 300 ft downstream from William's Slough Diversion Dam, 2.2 mi northwest of Minden Gage, and 2 mi southeast of Genoa Gage.	9- 9-76	0.26			+1.16	341
do.	SE ¹ / ₄ SE ¹ / ₄ sec.14, T.13 N., R.19 E., 3 mi northwest of Minden Gage, and 1.2 mi southeast of Genoa Gage.	do.	1.03			+0.77	313
do.	SW ¹ / ₄ NW ¹ / ₄ sec.14, T.13 N., R.19 E., 50 ft upstream from West Fork Carson River, and 0.6 mi southeast of Genoa Gage.	do.	1.08			+0.05	
West Fork Carson River	SW ¹ / ₄ NE ¹ / ₄ sec.14, T.13 N., R.19 E., at junction with East Fork Carson River, and 0.5 mi south of Genoa Gage.	do.		b1.51			
Carson River	Gaging station at Genoa (10310405).	9- 9-76 9-27-76	3.40 14.0			+0.81	322 315
Return Flow	NE ¹ / ₄ NE ¹ / ₄ sec.10, T.13 N., R.19 E., 10 ft upstream from confluence of Carson River, and 0.8 mi north of Genoa Gage.	9-27-76		7.95			
Carson River	SE ¹ / ₄ SE ¹ / ₄ sec.3, T.13 N., R.19 E., 0.9 mi north of Genoa Gage.	do.	25.1			+3.15	323
Return Flow	SE ¹ / ₄ SE ¹ / ₄ sec.3, T.13 N., R.19 E., 0.9 mi north of Genoa Gage.	do.		a0.2			
Carson River	NW ¹ / ₄ NW ¹ / ₄ sec.2, T.13 N., R.19 E., 1.6 mi north of Genoa gage.	do.	27.4			+2.10	
do.	SW ¹ / ₄ NE ¹ / ₄ sec.35, T.14 N., R.19 E., 2.5 mi north of Genoa Gage.	do.	27.4			0	334
Return Flow	SW ¹ / ₄ NW ¹ / ₄ sec.36, T.14 N., R.19 E., 100 ft upstream from confluence of Carson River, and 2.8 mi northeast of Genoa Gage.	do.		0.08			
Carson River	SE ¹ / ₄ NW ¹ / ₄ sec.36, T.14 N., R.19 E., 2.9 mi northeast of Genoa Gage.	do.	29.6			+2.12	326
Return Flow	SE ¹ / ₄ SE ¹ / ₄ sec.25, T.14 N., R.19 E., 15 ft upstream from confluence of Carson River, and 3.4 mi northeast of Genoa Gage.	do.		3.00			
Carson River	SE ¹ / ₄ SE ¹ / ₄ sec.25, T.14 N., R.19 E., 3.5 mi northeast of Genoa Gage.	do.	32.2			-0.4	331
Return Flow	SW ¹ / ₄ SW ¹ / ₄ sec.30, T.14 N., R.20 E., 50 ft above confluence of Carson River, 0.3 mi southwest of Cradlebaugh Bridge on U.S. Highway 395, and 3.9 mi northeast of Genoa Gage.	do.		2.38			
Carson River	NE ¹ / ₄ SW ¹ / ₄ sec.30, T.14 N., R.20 E., 300 ft upstream from Cradlebaugh Bridge on U.S. Highway 395, and 4.2 mi northeast of Genoa Gage.	do.	31.5			-3.08	405
do.	SE ¹ / ₄ NE ¹ / ₄ sec.19, T.14 N., R.20 E., 4.5 mi southwest of the Carson City Gage.	9- 9-76	6.42				586
do.	NE ¹ / ₄ SW ¹ / ₄ sec.17, T.14 N., R.20 E., 3.6 mi southwest of the Carson City Gage.	do.	6.92			+0.50	606
do.	SW ¹ / ₄ NE ¹ / ₄ sec.17, T.14 N., R.20 E., 3.4 mi southwest of the Carson City Gage.	do.	7.21			+0.29	599
do.	SE ¹ / ₄ SE ¹ / ₄ sec.8, T.14 N., R.20 E., 2.7 mi southwest of the Carson City Gage.	do.	7.05			-0.24	649
do.	NW ¹ / ₄ NW ¹ / ₄ sec.10, T.14 N., R.20 E., 0.1 mi northeast of Clear Creek, and 1.3 mi southwest of the Carson City Gage.	do.	8.55			+1.50	729
do.	Gaging station near Carson City (10311000)	do.	c8.75			+0.25	

Footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location 1/	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
West Fork Carson River							
West Fork Carson River	Gaging Station at Woodfords (10310000)	9- 9-76	13.6				86
Snowshoe Thompson No. 1	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.11 N., R.19 E., 50 ft downstream from point of diversion, and 0.3 mi northeast of Woodfords Gage.	do.			12.6		
Return Flow	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.11 N., R.19 E., 400 ft south of Calif. Highway Maintenance Bldg., and 0.6 mi northeast of Woodfords Gage.	do.		0.09			
West Fork Carson River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.11 N., R.19 E., 30 ft upstream from bridge on California State Highway 89 and 4, and 0.8 mi north-east of Woodfords Gage.	do.	1.56			+0.47	101
Snowshoe Thompson No. 2	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.11 N., R.19 E., 30 ft downstream from point of diversion, and 1.2 mi northeast of Woodfords Gage.	do.			0.05		
Indian Simpson	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.11 N., R.19 E., 50 ft downstream from point of diversion, and 1.2 mi northeast of Woodfords Gage.	do.			0.17		
West Fork Carson River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.11 N., R.19 E., im-mediately upstream from Henningson West Side Diversion, and 1.7 mi north-east of Woodfords Gage.	do.	1.63			+0.29	102
Henningson West Side	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.11 N., R.19 E., 15 ft downstream from Spillway, and 1.8 mi northeast of Woodfords Gage.	do.			1.17		
Hennington East Side	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.11 N., R.19 E., 20 ft downstream from Spillway, and 1.8 mi northeast of Woodfords Gage.	do.			0.16		
West Fork Carson River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.11 N., R.19 E., near Heimsouth Upper West Side Diversion, 1 mi northeast of Henningson East Side Diversion, and 2.7 mi northeast of Woodfords Gage.	do.	3.92			+3.62	97
Heimsouth Lower West Side	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.11 N., R.19 E., 50 ft downstream from Spillway, and 3 mi northeast of Woodfords Gage.	do.			0.19		
Millich or Walsh and Gallaner	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.11 N., R.20 E., 50 ft downstream from Spillway, and 3.3 mi northeast of Woodfords Gage.	do.			0.07		
West Fork Carson River	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.11 N., R.20 E., imme-diately downstream from Millich Spillway, and 3.4 mi northeast of Woodfords Gage.	do.	4.11			+0.45	120
Fredricksburg Diversion	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.11 N., R.20 E., 200 ft downstream from Paynesville bridge on Diamond Valley Road, 0.1 mi east of Paynesville and Intersection of Calif. State Highway 88, and 4.2 mi northeast of Woodfords Gage.	do.			4.23		110
West Fork Carson River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.11 N., R.20 E., 200 ft downstream from Paynesville bridge on Diamond Valley Road, 0.1 mi east of Paynesville and Intersection of Calif. State Highway 88, immediately downstream from Fredricksburg Diversion Dam, and 4.2 mi northeast of Woodfords Gage.	do.	0			+0.12	
do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.11 N., R.20 E., 200 ft downstream from the Panning-Jarvis Diversion, 0.4 mi northeast of Fredricks-burg Diversion, and 4.6 mi northeast of Woodfords Gage.	do.	0.05			+0.05	164

Footnotes at end of table.

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
West Fork Carson River.--Continued							
West Fork Carson River	SE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.17, T.11 N., R.20 E., 150 ft downstream from the Deluchi No. 1 or Hellwinkel Spillway, 1.1 mi northeast of the Fredricksburg Diversion, and 5.2 mi northeast of the Woodfords Gage.		0.74			+0.69	136
Falke and Tillman	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.11 N., R.20 E., 1.2 mi northeast of Fredricksburg Diversion, and 5.4 mi northeast of Woodfords Gage.	do.			0.38		
Dressler East Side	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.11 N., R.20 E., 30 ft downstream from point of diversion 1.3 mi northeast of Fredricksburg Diversion, and 5.4 mi northeast of Woodfords Gage.	do.			0.31		
Return Flow	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.11 N., R.20 E., 1.6 mi northeast of Fredricksburg Diversion, and 5.6 mi northeast of Woodfords Gage.	do.		0.68			
West Fork Carson River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, R.11 N., R.20 E., 300 ft downstream from above inflow, 1.6 mi northeast of Fredricksburg Diversion, and 5.7 mi northeast of Woodfords Gage.	do.	1.08			+0.35	121
Deluchi No. 3 or Stateline	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.11 N., R.20 E., at point of diversion, 2.2 mi northeast of Fredricksburg Diversion, and 6.2 mi northeast of Woodfords Gage.	do.			a0.01		
Dry or Wilkerson, Faye, Berry and Thran	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.11 N., R.20 E., 20 ft downstream from headgat, 0.2 mi northeast of Deluchi No. 3 Diversion, and 6.4 mi northeast of Woodfords Gage.	do.			1.03		
Return Flow	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.11 N., R.20 E., just upstream from Dutch Fred No. 2 or Wyatt Ditch, and 6.8 mi northeast of Woodfords Gage.	do.		0.54			
West Fork Carson River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.11 N., R.20 E., 100 ft upstream from Company and Tucke Diversion Dam, and 7 mi northeast of the Woodfords Gage.	do.	2.61			+2.03	136
Company Ditch	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.11 N., R.20 E., at point of diversion, and 7 mi northeast of the Woodfords Gage.	do.			2.55		
West Fork Carson River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.11 N., R.20 E., 60 ft below Company Ditch Diversion Dam, and 7.2 mi northeast of Woodfords Gage.	do.	0.06			0	252
do.	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.12 N., R.20 E., 0.1 mi downstream from Dressler Lane Bridge, and 8 mi northeast of the Woodfords Gage.	do.	2.37			+2.31	172
Brockliss Slough	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.29, T.12 N., R.20 E., 300 ft downstream from junction of West Fork and Brockliss Slough, and 8.4 mi northeast of Woodfords Gage.	do.			0.78		
West Fork Carson River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.29, T.12 N., R.20 E., 100 ft downstream from junction of West Fork and Brockliss Slough, and 8.4 mi northeast of Woodfords Gage.	do.	2.30			+0.71	175
Jones Dam A.	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.29 T.12 N., R.20 E., at headgate, and 8.6 mi northeast of Woodfords Gage.	do.			2.10		
Jones Dam B.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.20, T.12 N., R.20 E., at headgate, and 8.6 mi northeast of Woodfords Gage.	do.			0.12		

Footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ¹ /	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
West Fork Carson River.--Continued							
Squires	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.12 N., R.20 E., at headgate, and 8.9 mi northeast of the Woodfords Gage.	9- 9-76			0.17		
Winkelman	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.12 N., R.20 E., at outlet of culvert 50 ft downstream from point of diversion, 9.4 mi north-east of Woodfords Gage, and 7.6 mi southeast of Genoa Gage.	do.			0.28		
West Fork Carson River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.12 N., R.20 E., at Winkelman Diversion Dam, 9.4 mi northeast of Woodfords Gage, and 7.6 mi southeast of Genoa Gage.	do.	0			+0.37	
do.	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.12 N., R.20 E., at California State Highway 88 on down-stream side of culvert, and 7.3 mi southeast of Genoa Gage.	do.	0.12			+0.12	
do.	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.12 N., R.19 E., at Centerville Lane, immediately upstream from culvert, and 6.4 mi southeast of Genoa Gage.	do.	0.72			+0.60	321
Rabe	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.12 N., R.19 E., 200 ft upstream from junction with Rocky Slough, and 5.6 mi southeast of Genoa Gage.	do.			1.24		
West Fork Carson River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.12 N., R.19 E., im-mediately upstream from junction with Rocky Slough, 2 mi northwest of Winkelman Diversion, and 5.6 mi south-east of Genoa Gage.	do.	0.76			+1.28	300
Rocky Slough	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.12 N., R.19 E., immed- iately upstream from junction with West Fork Carson River, 2 mi northwest of Winkelman Diversion, and 5.6 mi south- east of Genoa Gage.	do.		1.77			
West Fork Carson River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.12 N., R.19 E., 10 ft upstream from culvert at Waterloo Lane, 2.8 mi northwest of Winkelman Diversion, and 4.8 mi southeast of Genoa Gage.	do.	6.14			+3.61	325
do.	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.13 N., R.19 E., 100 ft upstream from the junction with Home Stream, and 0.8 mi southwest of Genoa Gage.	do.	0.56			d	308
Home Stream Return Flow	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.13 N., R.19 E., 50 ft upstream from the junction with West Fork Carson River, and 0.7 mi southwest of Genoa Gage.	do.		0.82			
Brockliss Slough	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.13 N., R.19 E., 20 ft upstream from the junction with West Fork Carson River, and 0.6 mi south- west of Genoa Gage.	do.		0.13			174

Footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
Brockliss Slough							
Brockliss Slough	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.29, T.12 N., R.20 E., 300 ft downstream from junction of the West Fork and Brockliss Slough, and 8.4 mi northeast of Woodfords Gage.	9- 9-76	0.78				174
Tucke Company	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.12 N., R.20 E., 200 ft downstream from headgate, and 0.2 mi downstream from West Fork Carson River, and 8.6 mi southeast of Genoa Gage.	do.			0.73		
Bart Cary	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.12 N., R.20 E., 100 ft downstream from point of diversion, and 7.8 mi southeast of Genoa Gage.	do.			0.45		
Brockliss Slough	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.12 N., R.20 E., 300 ft below Bart Cary Diversion Dam, and 7.8 mi southeast of the Genoa Gage.	do.	0.68			+1.08	
Park and Bull	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.12 N., R.20 E., 10 ft upstream from Brockliss Slough and 7.6 mi southeast of Genoa Gage.	do.		0.02			
Brockliss Slough	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.12 N., R.20 E., 50 ft downstream from Park and Bull diversion Dam, and 7.5 mi southeast of Genoa Gage.	do.	0.61			-0.09	
do.	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.12 N., R.19 E., 40 ft downstream from Hansen Dam Westside or Hansens New or Parsons and East-side Ditch Diversion Dam, 0.2 mi southeast of Centerville Lane, and 6.4 mi southeast of Genoa Gage.	do.	1.31			+0.70	
do.	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.12 N., R.19 E., 150 ft downstream from Park Dam Diversion, 0.4 mi northwest of Centerville Lane, and 5.8 mi southeast of Genoa Gage.	do.	1.19			-0.12	
Return Flow	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.12 N., R.19 E., 200 ft upstream from the Hickey No. 2 or Hickey Dam Upper Diversion, 0.5 mi south of Waterloo Lane, and 5.1 mi southeast of Genoa Gage.	do.		0.45			
Brockliss Slough	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.12 N., R.19 E., 500 ft downstream from Hickey No. 4 or Hickey West Diversion, 0.2 mi south of Waterloo Lane, and 4.9 mi southeast of Genoa Gage.	do.	1.69			+0.05	
Rodgers or Thompson	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.12 N., R.19 E., 50 ft downstream from point of diversion on south side of Waterloo Lane, and 4.6 mi southeast of Genoa Gage.	do.			1.29		
Line or Middle	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.12 N., R.19 E., 25 ft downstream from point of diversion on north side of Waterloo Lane, and 4.6 mi southeast of Genoa Gage.	do.			0.03		
Brockliss Slough	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.12 N., R.19 E., 300 ft downstream from Center or Thompson Dam, 0.2 mi north of Waterloo Lane, and 4.5 mi southeast of Genoa Gage.	do.	0.44			+0.07	
Allerman No. 2	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.13 N., R.19 E., 60 ft upstream from diversion dam, 1.5 mi northwest of Waterloo Lane, and 3.5 mi south of Genoa Gage.	do.			a0.01		

Footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Upper Carson River Basin low-flow investigation.--Continued

Stream	Location ^{1/}	Date	Main stream (ft ³ /s)	Trib- utary (ft ³ /s)	Diver- sion (ft ³ /s)	Indicat- ed gain or loss (ft ³ /s)	Specific conductance (Micromhos/cm at 25°C)
Brockliss Slough.--Continued							
Allerman No. 1	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.13 N., R.19 E., diver- sion is on the north bank, directly ac- cross from the diversion dam, 1.5 mi northwest of Waterloo Lane, and 3.5 mi south of the Genoa Gage.	9- 9-76			0.31		
Brockliss Slough	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.13 N., R.19 E., 30 ft downstream from Allerman Nos. 1 and 2 Diversion Dam, 1.5 mi northwest of Waterloo Lane, and 3.5 mi south of Genoa Gage.	do.	0.07			-0.05	
Return Flow	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.13 N., R.19 E., 300 ft upstream from junction with Brockliss Slough, 1.6 mi south of Muller Lane, and 3.6 mi southwest of the Genoa Gage.	do.		0.86			
Pump Diversion (Sturgis, left bank)	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.13 N., R.19 E., 1.4 mi south of Muller Lane and 3.4 mi southwest of the Genoa Gage.	do.			e1.00		
East Brockliss Channel	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.13 N., R.19 E., 100 ft downstream from point of diversion, and 3 mi southwest of the Genoa Gage.	do.			0.19		
Brockliss Slough	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.13 N., R.19 E., 50 ft downstream from Sturgis Pump Diversion Dam, 1 mi south of Muller Lane, and 3 mi southwest of the Genoa Gage.	do.	0.55			+0.81	
Return Flow	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.13 N., R.19 E., from left bank, 0.2 mi upstream from Muller Lane, and 2.2 mi southwest of the Genoa Gage.	do.		0.16			
Brockliss Slough	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.13 N., R.19 E., 10 ft downstream from diversion dam just north of Muller Lane, and 1.9 mi south- west of Genoa Gage.	do.	0.86			+0.15	
East Brockliss Return Flow	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.13 N., R.19 E., under highway bridge, on north side of Mul- ler Lane and 2 mi southwest of Genoa Gage.	do.		0.50			
Wally's Hot Spring	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.13 N., R.19 E., 0.1 mi east of Foothill Road, and 1.2 mi south- west of the Genoa Gage.	do.		0.41			
Brockliss Slough	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.13 N., R.19 E., just north of Wally's Hot Springs inflow, 0.1 mi east of Foothill Road, and 1.1 mi southwest of Genoa Gage.	do.	1.79			+0.02	
Pump Diversion	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.13 N., R.19 E., 0.5 mi downstream from pump, 0.1 mi east of Foothill Road and 0.8 mi southwest of Genoa Gage.	do.			3.41		
Slough Diversion	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.13 N., R.19 E., 0.2 mi south of Genoa Lane, and 0.3 mi south- west of Genoa Gage.	do.			2.7		
Brockliss Slough	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.13 N., R.19 E., 20 ft upstream from the junction with the West Fork Carson River, and 0.6 mi southwest of Genoa Gage.	9-10-76	0.13			+4.45	

1. All locations approximate; legal descriptions taken from Carson Valley Ownership and Distribution System Map No. 320-419-299 (U.S. Bureau of Reclamation).

- Estimated.
- Composite of West Fork Carson River, Brockliss Slough, and Home Stream return flow.
- From continuous recorder at 1500 hours.
- Difference not shown because of unmeasured upstream diversions and tributaries.
- Reported by owner.

Water-quality partial-record stations are particular sites where chemical-quality data are collected systematically over a period of years for use in hydrologic analyses.

COLORADO RIVER MAIN STEM

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DEPTH (FT)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	WATER TEMPER- ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
09420600 LAKE MEAD AT ICEBERG CANYON, ARIZ.-NEV. (RIVER MILE 287.5; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 12 FT)*						
NOV.						
04...	0	124	950	8.6	21.0	9.0
04...	10	128	940	8.6	20.5	9.2
04...	25	128	940	8.6	19.0	9.5
04...	50	144	940	8.4	16.0	9.7
09420650 LAKE MEAD AT SANDY POINT, ARIZ. (RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 22 FT)*						
NOV.						
05...	0	122	950	8.4	21.0	8.4
05...	10	115	940	8.4	20.5	8.4
05...	25	126	940	8.3	20.0	8.5
05...	50	126	950	8.4	20.0	8.6
05...	75	126	940	8.3	19.5	8.3
05...	100	126	935	8.3	18.0	8.7
05...	150	141	940	7.8	15.5	6.6
05...	200	126	940	8.3	14.5	8.6
09420700 LAKE MEAD AT VIRGIN CANYON, ARIZ.-NEV. (RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 20 FT)*						
NOV.						
05...	0	132	925	8.4	21.0	8.6
05...	10	132	945	8.4	20.0	8.6
05...	25	132	945	8.0	20.0	8.6
05...	50	128	950	8.3	20.0	8.4
05...	75	128	950	8.1	20.0	7.4
05...	100	132	940	8.2	20.0	8.0
05...	150	140	920	7.8	18.0	6.3
05...	200	140	935	7.8	16.5	6.3
05...	250	142	960	7.7	13.5	5.4
05...	290	142	960	7.8	13.5	5.4
09420750 LAKE MEAD NEAR OVERTON BEACH, NEV. (RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 2 FT)*						
NOV.						
06...	0	123	1100	8.3	19.0	8.5
06...	5	125	1110	8.4	18.0	8.7
06...	10	128	1160	8.4	18.0	9.2
09420800 LAKE MEAD AT OVERTON ISLANDS, NEV. (RIVER MILE 9.5; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 23 FT)*						
NOV.						
06...	0	126	950	8.4	21.0	8.6
06...	10	126	970	8.4	20.0	8.8
06...	25	128	970	8.4	20.0	8.6
06...	50	128	970	8.4	20.0	8.6
06...	75	128	980	8.3	20.0	8.4
06...	100	130	995	8.2	19.5	8.4
06...	125	145	995	7.7	18.0	4.2
06...	175	145	1000	7.6	15.5	5.0
06...	225	145	995	7.8	13.5	6.0
06...	275	145	1000	7.8	13.0	6.5
09420850 LAKE MEAD AT BOULDER CANYON, ARIZ.-NEV. (RIVER MILE 334.6; LAT 36°08', LONG 114°37'; SECCHI DISK TRANSPARENCY 35 FT)*						
NOV.						
07...	0	128	995	8.0	20.5	7.4
07...	10	130	995	8.0	20.0	7.4
07...	25	130	1000	8.0	20.0	7.4
07...	75	134	980	8.0	20.0	7.3
07...	125	143	995	7.6	16.5	5.4
07...	175	142	1010	7.7	14.5	6.3
07...	225	142	1010	7.8	13.5	7.3
07...	275	142	1020	7.7	13.5	6.3
07...	325	143	1020	7.6	13.0	6.5
07...	375	143	1020	7.5	13.0	6.0
07...	400	143	1020	7.4	13.0	5.4

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NEV. (LAT 36°06'30", LONG 114°49'10")*

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NOV.												
26...	0937	10	7.3	81	30	110	5.3	152	320	90	.21	.01
26...	0945	218	8.6	88	30	95	4.4	164	290	77	--	--
MAR.												
08...	1011	10	8.0	84	29	98	5.1	161	290	86	.34	.01
08...	1020	220	9.3	98	34	110	7.0	164	330	110	--	--
MAY												
26...	1021	10	6.6	87	30	100	4.8	134	300	89	.04	.01
26...	1044	220	8.8	89	30	100	4.8	158	280	89	--	--

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV.													
26...	.05	.64	.91	.00	--	719	330	2.7	1100	18.5	--	--	8.3
26...	--	--	--	--	--	674	340	2.2	1120	13.5	--	--	4.2
MAR.													
08...	.03	.27	.65	.01	--	679	330	2.4	1100	13.5	--	8.1	9.4
08...	--	--	--	--	--	779	380	2.4	1300	13.5	--	8.2	9.5
MAY													
26...	.06	.36	.47	.01	738	683	340	2.4	1070	24.5	1	8.4	10.4
26...	--	--	--	--	--	680	350	2.3	1080	13.5	--	8.4	7.1

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
NOV. 26	14
MAR. 8	33
MAY 26	13

*SAMPLES COLLECTED AND FIELD DETERMINATIONS MADE BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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COLORADO RIVER MAIN STEM

09420950 LAKE MEAD AT SADDLE ISLAND, NEV. (LAT 36°03'45", LONG 114°47'40")*

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DEPTH (FT)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (NA) (MG/L)	DIS- SOLVED SODIUM SIUM (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NOV.												
26...	1110	10	7.4	82	31	110	5.1	150	320	90	.20	.01
26...	1234	246	8.1	84	29	110	4.6	163	300	82	--	--
MAR.												
08...	1216	10	8.1	81	29	96	4.9	162	280	83	.34	.01
08...	1231	244	8.8	83	28	96	4.8	166	270	84	--	--
MAY												
26...	1253	10	7.7	83	29	100	4.8	137	290	89	.11	.01
26...	1307	253	--	--	--	--	4.8	158	--	--	--	--

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (PFS)- DUF AT 100 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	WATER TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV.													
26...	.06	.41	.68	.00	--	719	330	2.6	1100	18.5	--	--	8.0
26...	--	--	--	--	--	698	330	2.6	1090	14.0	--	--	--
MAR.													
08...	.04	.34	.73	.00	--	662	320	2.3	1080	13.5	--	8.3	9.4
08...	--	--	--	--	--	656	320	2.3	1080	12.5	--	8.1	7.0
MAY													
26...	.03	.37	.52	.01	744	671	330	2.4	1070	24.5	1	8.5	9.6
26...	--	--	--	--	--	--	--	--	1070	--	--	8.3	7.3

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
NOV. 26	16
MAR. 8	32
MAY 26	12

*SAMPLES COLLECTED AND FIELD DETERMINATIONS MADE BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, ARIZ. (LAT 35°07'23", LONG 114°36'42")

WATER QUALITY DATA

DATE	TIME	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HC03) (MG/L)	CARBONATE (C03) (MG/L)
AUG., 1973								
16...	--	9.5	85	30	110	4.9	164	0
NOV.								
17...	1010	7.6	84	30	110	5.3	154	0
FEB., 1974								
07...	1315	9.9	89	30	110	5.2	183	0
MAY								
21...	1150	6.3	85	30	100	4.9	155	0
AUG.								
14...	1025	7.9	82	30	98	5.5	153	0
NOV.								
21...	1205	8.1	81	30	110	5.1	153	0
FEB., 1975								
19...	1100	7.3	88	31	100	5.5	161	0
MAY								
12...	1330	6.2	85	30	100	4.4	160	0
AUG.								
13...	1245	8.2	89	28	100	5.1	157	--
NOV.								
26...	1200	5.3	89	30	110	5.5	168	--
JAN., 1976								
27...	--	8.0	87	28	100	5.0	162	--
APR.								
07...	1550	7.0	81	32	100	4.9	161	--
JULY								
13...	1400	7.9	85	32	100	5.8	147	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
AUG., 1973								
16...	290	92	.23	703	340	2.6	1090	--
NOV.								
17...	310	93	.22	717	330	2.6	1110	--
FEB., 1974								
07...	310	92	.33	738	350	2.6	1160	11.0
MAY								
21...	300	89	.18	692	340	2.4	1110	20.0
AUG.								
14...	290	87	.18	677	330	2.4	1100	21.0
NOV.								
21...	280	92	.09	682	330	2.7	1100	17.0
FEB., 1975								
19...	300	90	.14	702	350	2.3	1130	--
MAY								
12...	280	91	.13	676	340	2.4	1110	20.5
AUG.								
13...	300	92	.17	700	340	2.4	1090	24.5
NOV.								
26...	310	93	.43	728	350	2.6	1130	16.0
JAN., 1976								
27...	270	91	.18	670	330	2.4	1130	--
APR.								
07...	290	86	.25	681	330	2.4	1100	--
JULY								
13...	290	85	.44	680	340	2.3	1070	--

COLORADO RIVER MAIN STEM

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, ARIZ. (LAT 35°07'15", LONG 114°37'55")

WATER QUALITY DATA

DATE	TIME	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)
AUG.. 1973								
16...	1115	9.5	83	30	110	5.1	157	0
NOV.								
17...	0935	9.0	85	30	110	5.3	155	0
FEB.. 1974								
07...	1200	9.2	85	29	110	5.2	156	0
MAY								
21...	1045	7.1	85	29	100	4.8	159	0
AUG.								
14...	0955	9.2	85	29	100	5.6	155	0
NOV.								
21...	1045	8.2	80	29	100	4.8	154	0
FEB.. 1975								
19...	1035	7.8	90	30	100	5.8	157	0
MAY								
12...	1235	6.2	85	30	100	4.3	162	0
AUG.								
13...	1210	8.6	91	28	100	5.1	156	--
NOV.								
26...	1100	8.4	81	29	110	5.5	153	--
JAN.. 1976								
27...	--	7.4	86	29	100	4.8	161	--
APR.								
07...	1330	7.0	85	30	100	4.8	164	--
JULY								
13...	1315	9.0	84	31	100	4.6	154	--

DATE	TIME	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)
AUG.. 1973									
16...	300	93	.37		710	330	2.6	1090	17.5
NOV.									
17...	300	91	.32		708	340	2.6	1100	15.0
FEB.. 1974									
07...	300	91	.48		708	330	2.6	1110	10.5
MAY									
21...	310	88	.25		703	330	2.4	1110	17.0
AUG.									
14...	290	87	.24		683	330	2.4	1090	17.0
NOV.									
21...	280	87	.23		666	320	2.4	1090	16.0
FEB.. 1975									
19...	310	94	1.3		721	350	2.3	1110	--
MAY									
12...	290	86	.18		682	340	2.4	1100	18.5
AUG.									
13...	310	88	.21		709	340	2.4	1080	18.0
NOV.									
26...	290	85	.37		686	320	2.7	1100	13.0
JAN.. 1976									
27...	280	92	.31		680	330	2.4	1110	--
APR.									
07...	290	86	.33		685	340	2.4	1100	--
JULY									
13...	290	83	.36		679	340	2.4	1080	--

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CALIF. (LAT 38°41'20", LONG 119°45'44")*

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180°C) (MG/L)	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
APR.														
27...	1045	7.4	3.3	5.9	44	0	4.0	62	32	87	7.4	4.5	1	10.7

* DATA FROM CALIFORNIA DEPARTMENT OF WATER RESOURCES.

STATE OF NEVADA
HYDROGRAPHIC AREAS

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
- (A) Rio King Subarea
- (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
- (A) Orovala Subarea
- (B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamaille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek —
Tennille Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpnickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
- (A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Wam Springs V.

85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
- (A) Silver Lake Subarea
- (B) Lemmon Subarea
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skeddadle Creek V.
99. Red Rock V.
100. Cold Spring V.

8-CARSON RIVER BASIN

101. Carson Desert
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
- (A) Schurz Subarea
- (B) Lake Subarea
- (C) Whisky Flat —
Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral)
- (A) Northern Part
- (B) Southern Part
112. Mono V.
113. Huntton V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
- (A) Eastern Part
- (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
- (A) Tonopah Flat
- (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
- (A) Northern Part
- (B) Southern Part
141. Raiston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
- (A) Northern Part
- (B) Central Part
- (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
- (A) Groom Lake V.
- (B) Papoose Lake V.
159. Yucca Flat

160. Frenchman Flat
161. Indian Springs V.
162. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
- (A) Northern Part
- (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
- (A) Northern Part
- (B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad v.
- (A) Southern Part
- (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
- (A) Northern Part (Round V.)
- (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippet V.
186. Antelope V. (White Pine & Elko)
- (A) Southern Part
- (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
- (A) Herrell Siding—Brush Creek Area
- (B) Toano—Rock Spring Area
- (C) Rocky Butte Area
- (D) Montello—
Crittenden Creek Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahrnagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
- (A) Jackass Flats
- (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

* Noncontributing part of the Colorado River Basin

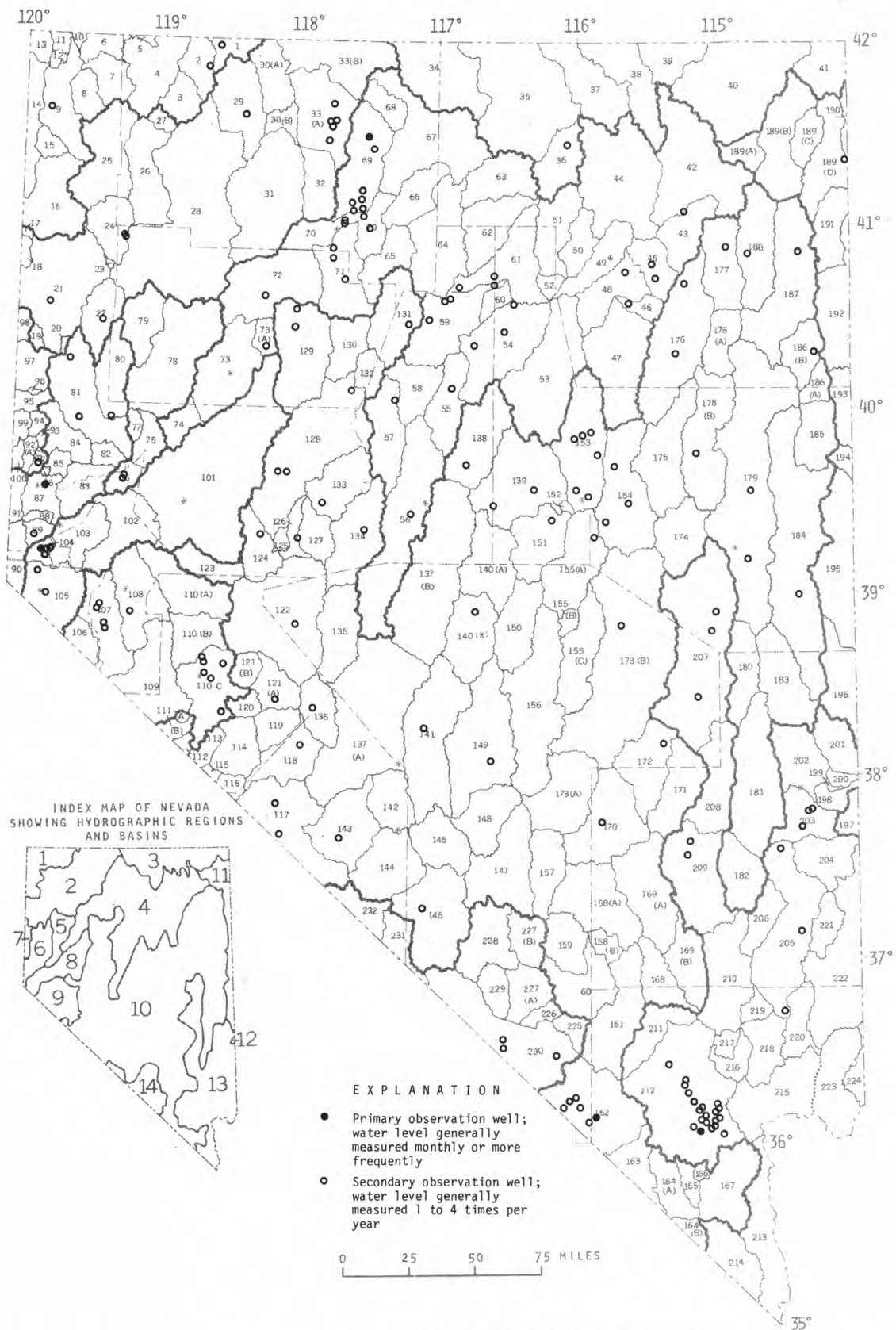


FIGURE 8.--OBSERVATION WELLS LISTED IN THIS REPORT.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

COLORADO RIVER BASIN

LAS VEGAS VALLEY

(Clark County)

361840115164001. Local number 212 S19 E60 09BCC1. P. J. Goumond. (State Engineer No. 427). Drilled unused artesian well in alluvium of Quaternary age, diam. 10 in (25 cm), depth 830 ft (253 m), cased to 140 ft (43 m). LSD about 2,500 ft (760 m) above msl. MP top of casing 0.5 ft (0.15 m) above LSD. Measurements supplied by Office of Nevada State Engineer. Highest water level 43.65 ft (13.30 m) below LSD June 3, 1944; lowest 147.86 ft (45.07 m) below LSD Sept. 9, 1976. Records available: 1944-76.

WATER LEVEL (FT BELOW LSD) AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	--	141.64	139.78	139.00	138.63	--	140.60	142.36	144.70	--	--	--
10	143.80	140.84	139.52	138.80	138.38	--	141.50	143.24	144.44	145.52	--	147.40
15	143.58	140.54	139.50	139.86	138.44	--	141.08	143.14	143.78	145.56	--	147.28
20	142.74	140.40	139.70	139.42	138.27	--	140.86	143.48	144.80	145.74	--	147.14
25	142.96	140.04	139.56	139.14	138.07	--	142.18	144.00	144.90	146.18	--	147.76
EOM	142.10	140.00	139.20	139.06	138.72	--	143.30	144.02	145.54	145.90	--	145.98

361611115151301. Local number 212 S19 E60 27BDC1. U.S. Geological Survey. Drilled observation artesian well, diameter 5 in (13 cm), depth 905 ft (276 m), cased 84 ft (26 m). LSD is 2,360.8 ft (719.33 m) above msl. MP is 1.45 ft (0.442 m) above LSD. Highest water level 46.9 ft (14.3 m) above LSD, June 3, 1946; lowest 65.25 ft (19.89 m) below LSD, Aug. 30, 1976. Records available: 1946-76.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 20, 1975	61.00	Jan. 26, 1976	55.67	Apr. 26	58.55	July 27	63.95
Nov. 24	55.35	Feb. 23	54.37	May 24	59.94	Aug. 30	65.25
Dec. 29	56.25	Mar. 29	55.91	June 28	61.04	Sept. 27	63.65

360350115102001. Local number 212 S22 E61 04BCC1. Fitzpatrick (State Engineer No. 41). Drilled unused well in alluvium of Quaternary age, diam. 8 in (20 cm), depth 355 ft (108 m). MP top of casing, 0.80 ft (0.244 m) above LSD since Oct. 5, 1968. LSD 2,224.91 ft (678.153 m) above msl. Measurements supplied by Office of Nevada State Engineer. Highest water level 74.4 ft (22.7 m) below LSD, Jan. 25, 1939; lowest 147.82 ft (45.06 m) below LSD, Aug. 28, 1976. Records available 1938-76.

WATER LEVEL (FT BELOW LSD) AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	--	143.02	141.34	140.60	140.61	140.82	141.75	143.68	145.06	--	146.61	--
10	--	142.46	141.48	140.85	140.13	141.16	142.23	143.80	145.05	146.86	147.20	--
15	--	142.18	141.35	140.81	140.02	141.20	142.08	143.56	145.60	146.70	147.26	--
20	--	142.02	141.20	140.84	140.08	141.24	142.72	144.97	145.66	146.68	147.56	--
25	--	141.62	140.78	140.73	140.72	141.34	142.92	144.43	146.02	146.64	147.60	--
EOM	--	141.66	140.51	141.20	140.82	142.08	143.26	--	145.98	145.94	147.82	--

THE GREAT BASIN

STEPTOE VALLEY BASIN

Steptoe Valley

(White Pine County)

3933100114475001. Local number 179 N20 E64 32C2. U.S. Geological Survey. Drilled test well in alluvium of Quaternary age, diam. 10 in (25 cm), depth 110 ft (34 m), cased. LSD about 6,070 ft (1,850 m) above msl. MP top of casing 1.00 ft (0.305 m) above LSD. Highest water level 11.61 ft (3.53 m) below LSD May 20, 1976; lowest 17.87 ft (5.45 m) below LSD Dec. 17, 1964. Records available 1918, 1949-57, 1959, 1961-76.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 29, 1975	12.80	Feb. 20	12.05	May 20	11.61	Aug. 20	12.24
Dec. 18	12.46	Mar. 17	11.84	June	11.93	Sept. 23	12.46
Jan. 15, 1976	12.26	Apr. 21	11.68	July 22	12.21		

DEATH VALLEY BASIN

Pahrump Valley

(Clark County)

360836115531701. Local number 162 S21 E54 10ACC1. Bowman (State Engineer No. 22). Drilled unused artesian well in alluvium of Quaternary age, diam. 14 in (36 cm), depth 800 ft (244 m), cased to 472 ft (144 m), perforated 100-450 ft (30-137 m). LSD 2,885 ft (879 m) above msl. MP edge of recorder shelf 1.2 ft (.37 m) above LSD. Measurements supplied by Office of Nevada State Engineer. Highest water level 28.34 ft (8.64 m) below LSD Oct. 13, 1944; lowest 105.47 ft (32.15 m) below LSD Aug. 26, 1976. Records available 1944, 1946-76.

Date	Water level	Date	Water level
Dec. 17, 1975	95.77	May 26	102.75
Feb. 26, 1976	96.57	June 30	105.10
Mar. 30	101.65	July 28	104.73
Apr. 28	102.03	Aug. 26	105.47

CARSON RIVER BASIN

Eagle Valley

(Carson City)

391046119470101. Local number 104 N15 E20 07BCDD1. U.S. Geological Survey. Drilled observation well in alluvium of Quaternary age, diam. 1.5 in (3.8 cm), depth 64 ft (20 m), cased to 64 ft (20 m). LSD about 4,800 ft (1,460 m) above msl. MP top of casing, 2.6 ft (0.79 m) above LSD. Highest water level 34.35 ft (10.47 m) below LSD Jan. 3, 1973; lowest 56.36 ft (17.18 m) below LSD Sept. 27, 1976. Records available 1972-76.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 24, 1975	49.49	Feb. 24	48.33	June 2	50.68	Aug. 24	54.72
Dec. 26	48.96	Mar. 24	48.40	June 23	51.66	Sept. 27	55.83
Jan. 21, 1976	48.13	Apr. 22	48.89	July 22	53.20		

HUMBOLDT RIVER BASIN

Paradise Valley

(Humboldt County)

412910117321001. Local number 69 N42 E39 25C1. U.S. Bureau of Land Management. Dug unused water-table well in alluvium of Quaternary age, diam 6 ft (2 m), depth 18 ft (5.5 m), cased with iron. LSD 4,523 ft (1,378 m) above msl. MP is top of concrete floor, 5.20 ft (1.58 m) below LSD. Highest water level 1.72 ft (.52 m) below LSD June 24, 1975; lowest 11.03 (3.36 m) below LSD Nov. 16, 1961. Records available 1945-76

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 30, 1975	7.43	Jan. 31, 1976	7.20	Apr. 26	6.40	July 16	5.89
Nov. 20	7.35	Feb. 25	6.79	May 17	3.43	Aug. 27	7.31
Dec. 31	7.30	Mar. 31	6.46	June 22	3.98	Sept. 23	7.77

PYRAMID AND WINNEMUCCA LAKES BASIN

Truckee Meadows

(Washoe County)

393143119453201. Local number 87 N19 E20 08ACC1. J. G. Morrison. Drilled unused well in alluvium of Quaternary age, diam. 6 in (15 cm), depth 42 ft (13 m), cased to 42 ft (13 m). LSD 4,415 ft (1,346 m) above msl. MP top of casing, 0.5 ft (0.15 m) above LSD. Highest water level 1.44 ft (0.44 m) below LSD Aug. 14, 1958; lowest 11.63 ft (3.54 m) below LSD Mar. 24, 1976. Records available 1956-76.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 24, 1975	6.91	Feb. 24	10.57	June 2	9.00	Aug. 24	7.84
Dec. 26	9.04	Mar. 24	11.63	June 23	8.54	Sept. 27	7.88
Jan. 21, 1976	9.77	Apr. 22	10.79	July 23	8.65		

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

[Depths referenced to land surface datum (LSD). County codes: 510, Carson City; 001, Churchill; 003, Clark; 005, Douglas; 027, Pershing; 029, Storey; 031, Washoe; 033, White Pine. Water use codes: D, domestic; I, irrigation; O, observation; series, flood-plain deposits. Aquifer codes: A, artesian; U, unknown; W, water table. Interval shown for period of record LSD are negative; F indicates flowing well.]

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
<u>COLORADO RIVER BASIN</u>							
VIRGIN RIVER BASIN							
Panaca Valley							
374910114231001	203 S01 E68 33B1	Phillips	017	I	110 VLFL	U	120
374750114242001	203 S02 E68 08B5	USGS	017	O	110 VLFL	U	110
374317114265801	203 S03 E67 2A1	Lee	017	I	110 VLFL	U	225
Lower Meadow Valley Wash							
373627114315301	205 S04 E67 18B1	Conaway	017	I		U	165
371016114281501	205 S09 E67 14B1		017	O	110 VLFL	W	48
364321141351001	205 S14 E66 15A1	USGS	003	O	110 VLFL	W	30
White River Valley							
382432115095801	207 N09 E61 7B1	Sorenson	023	S	110 VLFL	W	43
384640115045001	207 N11 E61 35A1	Public Domain	033	S		U	
385400115024001	207 N12 E62 18D1	USGS	033	O	110 VLFL	U	108
Pahranagat Valley							
373806115125101	209 S04 E60 2A2	Stewart	017		110 VLFL	U	403
373330115142001	209 S04 E60 34A2	Schofield	017	U	110 VLFL	W	96
LAS VEGAS VALLEY							
362508115225301	212 S18 E59 4B2		003	S,O	110 VLFL	U	
361939115154801	212 S19 E60 4DAB1	Goumond	003	I	110 VLFL	A	780
361359115133101	212 S20 E60 2DDD1	Grey	003	O	110 VLFL	A	707
361419115072201	212 S20 E61 2DBB1	Hartwell & Lowe Co.	003	O	110 VLFL	A	785
361046115100201	212 S20 E61 29DABD		003	O	110 VLFL	W	73
360941115104801	212 S20 E61 32CDC1	Searles	003	D,I	110 VLFL	A	665
361156115034801	212 S20 E62 20ADAC		003	O	110 VLFL	W	155
361036115040401	212 S20 E62 29DCAB		003	O	110 VLFL	W	98
361025115044701	212 S20 E62 32BBB1	Grubb	003	D,S I,O	110 VLFL	A	500
360457115125601	212 S21 E60 36ABCC		003	O	110 VLFL	U	
360931115083801	212 S21 E61 3ABB2	Parks	003	U,O	110 VLFL	A	807
360910115092001	212 S21 E61 04AAD1	Opaco Lumber Co.	003	O	110 VLFL	A	793
360600115091001	212 S21 E61 22CCCC	Baker	003	O	110 VLFL	A	500
360451115061102	212 S21 E61 36ADC2	USGS	003	O	110 VLFL	W	20

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
COLORADO RIVER BASIN									
VIRGIN RIVER BASIN									
Panaca Valley									
10	60-80	4,784	1946-76	30.32	4-25-46	40.50	9-19-59	39.97	2-25-76
8		5,000	1949-76	10.72	3-20-50	22.82	8-29-64	17.74	2-25-76
10			1960-76	20.74	2-24-62	23.71	2-12-75	23.40	2-25-76
Lower Meadow Valley Wash									
14		4,360	1963-76	16.90	2- 4-70	50.78	3-22-69	17.53	2-26-76
6			1961-76	30.65	5-27-62	37.39	4-13-68	36.92	2-26-76
3/8			1961-76	14.65	1- 4-71	21.18	5-10-61	16.27	2-26-76
White River Valley									
48			1949-76	30.00	3-12-68	31.83	3-24-65	30.56	3-16-76
6		5,400	1962-76	3.20	3-16-76	13.66	10-13-62	3.20	3-16-76
6		5,600	1962-76	44.97	4-24-70	53.21	9-16-66	51.87	3-16-76
Pahranagat Valley									
12			1960-76	88.60	3-23-73	118.71	2- 3-70	117.73	2-24-76
10		4,000	1951-76	60.39	9-15-55	72.73	2-22-65	66.42	2-24-76
LAS VEGAS VALLEY									
16	311-606	2,847	1967-76	66.74	5-24-67	69.42	2-14-74	68.16	3- 6-76
		2,454	1946-76	-30.6	4- 5-46	67.73	8-26-74	58.02	11-12-75
								55.66	3-18-76
								59.38	5-26-76
10		2,207	1955-76	86.32	2-10-55	260.69	8-19-76	64.81	8-26-76
								252.45	11-12-75
								260.69	8-19-76
								260.03	9-29-76
8		2,270	1949-76	-14.2	12-29-49	60.85	12-16-70	260.30	11- 3-76
								38.48	11-12-75
								36.44	3- 2-76
								32.80	5-26-76
8		2,079	1972-76	19.37	3- 4-74	21.18	11-18-75	35.02	8-26-76
								21.18	11-18-75
								19.98	3- 8-76
								20.04	5-26-76
10	570-	2,102	1946-76	-81.3	2-27-46	108.19	8- 7-75	20.82	8-26-76
								74.21	11-18-75
								65.89	3-18-76
								73.84	5-26-76
8		1,790	1971-76	72.0	3- 4-71	83.02	8- 6-75	76.10	8-27-76
								80.67	11-11-75
								78.90	3- 2-76
								79.32	5-26-76
8		1,766	1971-76	61.9	3- 4-71	71.79	8- 6-75	81.20	8-26-76
								66.89	11-11-75
								66.10	3- 3-76
								65.74	5-26-76
8		1,771	1946-76	16.97	3-29-46	49.93	10-12-72	66.00	8-26-76
								44.30	11-11-75
								42.81	3- 3-76
								42.41	5-26-76
8		2,319	1971-76	228.6	3- 5-71	261.00	8-27-76	41.80	8-26-76
								260.95	12- 5-75
								249.77	3- 9-76
								253.12	5-26-76
12		2,014	1944-76	-38.11	3- 6-44	57.41	8-21-73	261.00	8-27-76
								46.67	11-28-75
								38.02	3- 9-76
								45.02	5-26-76
10		2,038	1944-76	-14.2	8-19-44	69.94	8-24-70	55.60	8-26-76
								59.54	11-18-75
								47.25	3- 8-76
								57.91	5-26-76
6		2,070	1944-76	-28.8	8-21-44	90.39	8-26-74	68.99	8-27-76
								46.34	12- 5-75
								73.03	5-26-76
								88.34	8-27-76

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
380826115020001	212 S21 E62 10ACAA	Nevada Power	003	O	110 VLFL	A	260
360817115020301	212 S21 E62 10ACDC1	Nevada Power	003	O	110 VLFL	W	30
366520115045301	212 S21 E62 29CCB1	Bond	003	O	110 VLFL	A	404
360340115090801	212 S22 E61 3CCB1	Crockett	003	I	110 VLFL	A	575
360345115002901	212 S22 E62 1CBC1	Plumber	003	D,I	110 VLFL	A	1,135
<u>THE GREAT BASIN</u>							
Montello-Crittenden Creek Area							
412100114060001	189D N40 E69 13D	Gamble Ranch	007	S	110 VLFL		
SPRING VALLEY							
390000114282001	184 N13 E67 08D1	Schadrman	033	U	110 VLFL		45
ANTELOPE VALLEY (NORTHERN PART)							
401900114200001	186B N28 E68 8D		007	S	110 VLFL	U	
CLOVER AND INDEPENDENCE VALLEYS							
Clover Valley							
405310114574001	177 N35 E62 27B1	USGS	007	O	110 VLFL		286
Independence Valley							
405100114480001	188 N34 E63 1A	Western Pacific Railroad	007	U			320
BUFFALO VALLEY							
402710117124001	131 N30 E42 24CC1	BLM	015	S	110 VLFL		54
BUENA VISTA VALLEY							
402640118015002	129 N30 E35 27B2	Talcott	027	I	110 VLFL		
403120118015901	129 N31 E35 35C1	Gallie	027	S	110 VLFL	U	
DIXIE VALLEY BASIN							
Cowkick Valley							
291749117585101	126 N17 E35 36AD1	Dangburg	001	U	110 VLFL		502
Dixie Valley							
393920118084001	128 N21 E34 27DC1	Homestead	001	U	110 VLFL		114
400600117380001	128 N26 E39 30B1	McCoy	001	S,I	110 VLFL		114
FAIRVIEW VALLEY							
391620118143001	124 N16 E33 02DC1	Stark	001	S	110 VLFL		441
GABBS VALLEY							
384850117581001	122 N11 E36 18DB1		023	S	110		
SODA SPRING VALLEY (EASTERN PART)							
382415118063801	121A N6 E35 5CBD1		021		110 VLFL	U	
MONTE CRISTO VALLEY							
382200117510001	136 N06 E37 21D1		021	U	110 VLFL	U	300
RUBY VALLEY							
401900115200001	176 N28 E59 9C	Ruby Valley	007	S	110 VLFL	U	44
404140115095701	176 N33 E60 35AD		007	S	110 VLFL	U	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
14		1,705	1972-76	13.36	3- 3-76	19.97	2-22-72	15.44 13.36 13.52 15.34	12- 5-75 3- 3-76 5-26-76 8-27-76
14		1,695	1972-76	6.18	11-27-74	8.82	8-27-76	8.20 6.74 6.95 8.82	12- 5-76 3- 3-76 5-26-76 8-27-76
6		1,165	1961-76	2.30	10- 2-72	9.20	5-24-63	F F	5-28-76 8-27-76
10	120-	2,150	1946-76	16.48	3-20-46	101.83	10- 2-72	75.92 81.10 83.80	12- 5-75 5-26-76 8- 3-76
8		1,681	1946-76	-72.0	2-25-63	-30.2	3-27-46	-68.1 -69.0 -69.0	3- 4-76 5-28-76 8-27-76
THE GREAT BASIN									
Montello-Crittenden Creek Area									
6			1968-76	5.69	3-13-74	16.98	3-13-75	15.38	3-18-76
SPRING VALLEY									
36		5,800	1951-76	12.00	9-12-51	18.60	9-23-61	13.52	3-17-76
ANTELOPE VALLEY (NORTHERN PART)									
6			1948-76	98.94	4-29-69	105.21	9-15-49	99.17	3-22-76
CLOVER AND INDEPENDENCE VALLEYS									
Clover Valley									
6		5,650	1949-76	6.38	4-04-72	11.07	5- 3-55	7.77	3-18-76
Independence Valley									
12			1968-76	13.87	3-18-76	15.14	3-28-68	13.87	3-18-76
BUFFALO VALLEY									
6		4,634	1947-76	6.57	3-19-76	13.25	9-21-55	6.57	3-19-76
BUENA VISTA VALLEY									
8		4,240	1963-76	13.72	3-19-75	21.57	3-21-65	16.58	3-24-76
6			1961-76	28.96	3-22-72	46.38	3-22-68	33.75	3-24-76
DIXIE VALLEY BASIN									
Cowkick Valley									
8		4,700	1962-76	77.55	3-21-62	104.34	3-15-76	104.34	3-15-76
Dixie Valley									
11		3,500	1951-76	28.04	6- 7-56	32.14	4-20-76	32.14	4-20-76
6			1968-76	76.25	3-20-68	85.30	4-20-76	85.30	4-20-76
FAIRVIEW VALLEY									
8		4,160	1950-76	216.68	1-13-55	224.94	3-23-64	217.96	3-15-76
GABBS VALLEY									
10		4,570	1974-76	39.10	7-15-74	39.38	5-13-76	39.38	5-13-76
SODA SPRING VALLEY (EASTERN PART)									
6		4,545	1968-76	95.47	4-13-71	96.62	5-17-68	95.92	4-16-76
MONTE CRISTO VALLEY									
8		5,312	1968-76	72.14	4-23-73	73.64	3- 6-75	73.33	4-16-76
RUBY VALLEY									
48			1968-76	14.51	4-24-73	114.33	3-31-72	114.08	3-22-76
14			1960-76	5.39	3-31-72	12.53	8-21-61	6.29	3-22-76

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
STEPTOE VALLEY BASIN							
Step toe Valley							
391100114492001	179 N15 E64 07A1	Sorenson	033	I	110 VLFL	U	200
Goshute Valley							
405110114262001	187 N34 E67 06A2	Western Pacific Railroad	007	I	110 VLFL	U	250
BUTTE VALLEY (SOUTHERN PART)							
394600115120001	178B N22 E60 2BA1	Paris well	033	S	110 VLFL	U	
LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS							
Little Smoky Valley							
391858115550201	155A N17 E54 29CA1	BLM Fish Creek Ranch	011	S	110 VLFL	U	61
Newark Valley							
392300115493001	154 N18 E55 31C1	Federal Emergency Relief Admin.	033	S	110 VLFL	U	44
392850115421001	154 N19 E56 30D2	Eldridge	033	S	110 VLFL	U	37
394200115461001	154 N21 E55 09B1	Hooper	033	D	110 VLFL	U	34
MONITOR AND DIAMOND VALLEYS BASIN							
Monitor Valley (Southern Part)							
385300116440001	140B N12 E47 18C1	Pine Creek Ranch		S			
Antelope Valley							
392310116125001	151 N18 E51 34D1	Bartholemae Corporation	011	S	110 VLFL	U	134
Kobeh Valley							
392800116380001	139 N19 E47 36B1	Dry Creek Ranch	015		110 VLFL	U	102
394059116282901	139 N21 E49 16C1	Etchegaray	011	S	110 VLFL	U	62
Diamond Valley							
393143115572701	153 N19 E53 12C1	Anderson	011	D	111 FLDP	W	30
393310116020001	153 N20 E53 31D	Florio	011	S	110 VLFL	U	
394520115524001	153 N22 E54 27CA1	Stucki	011	D,I	110 VLFL	W	94
395100115593001	153 N23 E53 27BB1	USGS	011	O	110 VLFL	W	22
395020116030001	153 N23 E53 30DD1	USGS	011	O	110 VLFL	W	22
395220115561001	153 N23 E54 18DB1	USGS	011	O	110 VLFL	W	32
GRASS VALLEY							
394200116480001	138 N21 E46 9D1	Grass Valley Ranch	015	D	110 VLFL	W	
HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS							
Railroad Valley (Northern Part)							
384900115334001	173B N11 E57 09CD1	BLM	023	S	110 VLFL	U	354
GARDEN AND COAL VALLEYS							
Garden Valley							
381000115240001	172 N04 E58 3BA1	BLM	023	S	110 VLFL	U	
PENoyer (SAND SPRING) VALLEY							
374256115485501	170 S03 E55 5BDD		017	S	110 VLFL	U	
STONEWALL AND SARCOBATUS FLATS BASIN							
Sarcobatus Flat							
371553117034301	146 S08 E44 8AA2	Terrel	023	O	110 VLFL	U	250
STONE CABIN AND RALSTON VALLEYS							
Stone Cabin Valley							
380400116380001	149 N03 E48 32B1	Casey	023		110 VLFL	U	150
Ralston Valley							
381500117042001	141 N05 E44 32BB1		023		110 VLFL	U	18

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BFLOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
STEPTOE VALLEY BASIN									
Steptoe Valley									
16		6,500	1948-76	31.76	4-23-70	41.83	3-10-61	33.97	3-17-76
Goshute Valley									
16		5,550	1948-76	26.85	3-27-51	30.72	9-17-64	29.24	3-18-76
BUTTE VALLEY (SOUTHERN PART)									
6		6,190	1968-76	59.85	4-21-69	65.30	3-18-76	65.30	3-18-76
LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS									
Little Smoky Valley									
48		5,987	1962-76	50.49	10-20-65	62.82	9-11-63	55.87	3-18-76
Newark Valley									
36		5,930	1946-76	33.19	9-15-55	43.96	9-11-63	36.14	3-18-76
42		5,900	1961-76	22.11	4-20-71	39.01	11-12-64	33.31	3-18-76
		5,950	1948-76	10.67	3-26-56	20.80	10-12-62	16.67	3-18-76
MONITOR AND DIAMOND VALLEYS BASIN									
Monitor Valley (Southern Part)									
24		6,820	1968-76	1.28	5- 1-73	4.65	5-18-74	4.23	4-22-76
Antelope Valley									
6		6,330	1949-76	93.69	3-16-66	96.11	4-19-71	94.72	3-19-76
Kobeh Valley									
8		6,260	1968-76	47.31	4-28-73	56.70	3-16-74	47.88	3-19-76
6			1962-76	39.88	4-22-76	46.35	3-24-64	39.88	4-22-76
Diamond Valley									
8		6,410	1953-76	5.10	5-13-74	7.59	9-15-66	5.80	3-18-76
6		6,100	1947-76	155.46	9- 6-57	193.92	3-17-74	173.10	3-19-76
12		5,858	1949-76	5.49	8-11-49	26.23	3-14-75	25.32	3-18-76
1½	20-22	5,819	1968-76	11.60	4-22-69	12.89	3-13-75	12.88	3-18-76
1½	20-22	5,821	1968-76	14.05	4-22-70	16.16	4-22-69	14.27	3-18-76
1½	30-32	5,800	1968-76	16.74	8-28-73	17.15	3-18-76	17.15	3-18-76
GRASS VALLEY									
48			1968-76	23.41	5- 1-73	36.92	3-19-68	24.15	4-22-76
HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS									
Railroad Valley (Northern Part)									
6			1948-76	171.04	4-16-75	179.43	3-20-74	171.08	3-16-76
GARDEN AND COAL VALLEYS									
Garden Valley									
10			1968-76	24.46	3-12-76	26.62	4-22-71	25.98	3-16-76
PENoyer (SAND SPRING) VALLEY									
8			1968-76	19.87	2-24-76	22.27	3-23-73	19.87	2-24-76
STONEWALL AND SARCOBATUS FLATS BASIN									
Sarcobatus Flat									
14		4,001	1962-76	34.84	4-15-68	36.17	2-14-72	36.05	2-20-76
STONE CABIN AND RALSTON VALLEYS									
Stone Cabin Valley									
6			1968-76	110.28	6-11-68	113.42	5- 4-72	110.92	4-20-76
Ralston Valley									
			1948-76	11.57	3-21-74	12.85	9-11-51	12.47	3-15-76

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
EDWARDS CREEK VALLEY							
392903117495001	133 N19 E37 28BCD	Cherry Creek Ranch	001	S	110 VLFL	U	260
SMITH CREEK VALLEY							
392100117310001	134 N17 E40 8C1	Smith Creek Ranch	015	S	110 VLFL	W	55
CLAYTON VALLEY							
374036117392901	143 S03 E39 16CA1		009	S,O	110 VLFL	U	
FISH LAKE VALLEY AND COLUMBUS SALT MARSH							
Fish Lake Valley							
374950118051001	117 S01 E35 28A1	Clark	009	S	110 VLFL	U	624
374030118034001	117 S03 E35 14C4	BLM	009	U,O	110 VLFL	U	
Columbus Salt Marsh							
380854117565601	118 N03 E36 2BCB		009	U	110 VLFL	U	187
DEATH VALLEY BASIN							
Amargosa Desert							
363310116294001	230 S16 E49 18DC1	BLM	023	O	110 VLFL	U	348
363120116300001	230 S16 E49 31BA1	Bettles	023	U	110 VLFL	U	162
362929116085701	230 S17 E52 8CBD1	Van Horn	023	S	110 VLFL	U	257
Pahrump Valley							
361523116005101	162 S19 E53 33DAA1	Harmer	023	U,O	110 VLFL	A	775
361204116060301	162 S20 E52 23BBA1	Turner	023	I	110 VLFL	A	500
361405116033201	162 S20 E53 6CDA1	Rockridge & Carvado	023	I	110 VLFL	U	200
361210115590002	162 S20 E53 14DCC1	Williams & Crews	023	O	110 VLFL	A	254
360620115562501	162 S21 E54 19DD2		023	D,O	110 VLFL	W	76
WALKER LAKE BASIN							
Smith Valley							
384500119182001	107 N10 E24 4CD1	Amann	019	O	110 VLFL	U	
385030119232001	107 N11 E23 03DC1	Day	019	I	110 VLFL	U	242
384610119190001	107 N11 E24 32DC1	Nutti	019	I	110 VLFL	U	390
385310119215001	107 N12 E23 24CB1	Three Double-Bar Ranch	019	I	110 VLFL	U	
MASON VALLEY							
385110119090001	108 N12 E25 35DC1	Baker	019	I	110 VLFL	U	253
WALKER LAKE VALLEY							
Whiskey Flat-Hawthorne Subarea							
382020118310001	110C N06 E31 33BBD2	Merchant	021	U	110 VLFL	U	127
383440118365001	110C N08 E30 03DA1	U.S. Naval Ammunition Depot	021	D,I	110 VLFL	U	852
383150118380001	110C N08 E30 21DDB1	U.S. Naval Ammunition Depot	021	D,I	110 VLFL	U	394
383100118355001	110C N08 E30 26DDA1	U.S. Naval Ammunition Depot	021	I	110 VLFL	U	423
383700118400001	110C N09 E30 29D1	USGS	021	O	110 VLFL	W	18
383600118390001	110C N09 E30 33CA	USGS	021	O	110 VLFL	W	41
CARSON RIVER BASIN							
Carson Valley							
385630119452001	105 N13 E20 32CAA1	Mack Land & Cattle Company	005	I	110 VLFL	U	420
390230119480001	105 N14 E19 25BA1	Carson Indian Agency	005	I	110 VLFL	U	239
Eagle Valley							
391107119455101	104 N15 E20 08BA1	Johnstone	510	U	110 VLFL	W	18
390950119455001	104 N15 E20 17C1	State Children's Home	510	I	110 VLFL	U	595
390852119455501	104 N15 E20 20C1	Harper	510	I	110 VLFL	U	
Dayton Valley							
391808119291801	103 N17 E22 35BC1	Chaves	019	I	110 VLFL	U	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
EDWARDS CREEK VALLEY									
6			1970-76	174.95	4-23-76	176.56	3-16-74	174.95	4-23-76
SMITH CREEK VALLEY									
6		6,054	1966-76	8.20	3-14-75	12.61	3-22-74	11.38	3-15-76
CLAYTON VALLEY									
6		4,325	1967-76	44.75	1-19-67	45.54	1-16-76	45.54	1-16-76
FISH LAKE VALLEY AND COLUMBUS SALT MARSH									
Fish Lake Valley									
16	150-600	4,900	1945-76	25.45	1-21-48	38.58	4-24-75	32.51	4-15-76
12		4,830	1945-76	38.60	6-21-48	56.45	4-24-75	53.40	4-15-76
Columbus Salt Marsh									
16		4,580	1968-76	41.30	5-23-68	42.73	3- 1-72	41.44	4-16-76
DEATH VALLEY BASIN									
Amargosa Desert									
12		2,375	1953-76	103.10	2-12-55	111.11	3- 5-76	111.11	3- 5-76
16		2,326	1952-76	66.10	5- 7-52	73.27	3- 5-76	73.27	3- 5-76
12		2,395	1960-76	33.24	2-16-65	37.58	2-21-64	34.37	3- 5-76
Fahrump Valley									
12	200-500 30-168	2,607	1959-76	-4.7	2- 2-59	38.15	2-26-75	37.95	2-18-76
14		2,531	1959-76	39.23	2- 1-59	41.45	2-24-63	40.73	2-26-76
14		2,558	1959-76	15.43	2- 2-59	23.51	2-18-76	23.51	2-18-76
8		2,679	1945-76	-5.2	3- 6-45	90.61	2-27-75	87.20	2-16-76
10		2,684	1959-76	38.70	1-30-59	44.06	2-24-69	41.49	2-19-76
WALKER LAKE BASIN									
Smith Valley									
14		4,900	1948-76	60.86	11-30-48	87.56	3-16-65	80.29	4-20-76
12		4,830	1948-76	45.21	6-17-57	74.93	9-18-64	68.37	4-20-76
16		4,865	1948-76	23.62	3- 3-48	89.21	6-22-61	37.30	4-20-76
16		4,745	1972-76	4.50	6-23-72	5.25	4-20-76	5.25	4-20-76
MASON VALLEY									
16		4,500	1953-76	3.39	8-18-58	18.25	2-28-62	10.25	4-20-76
WALKER LAKE VALLEY									
Whiskey Flat-Hawthorne Subarea									
10		5,700	1951-76	42.37	3-12-51	50.61	6-30-76	50.61	6-30-76
18		4,125	1954-76	47.20	12- 9-54	117.86	9-27-65	53.58	6-29-76
18		4,262	1952-76	199.9	11-21-52	232.69	4-23-73	210.95	7- 1-76
18		4,341	1952-76	246.5	11-21-52	280.41	4-23-73	256.33	7- 1-76
1½			1968-76	8.54	4-23-73	9.18	6-29-76	9.18	6-29-76
1½		4,035	1968-76	18.75	3-18-68	20.50	6-29-76	20.50	6-29-76
CARSON RIVER BASIN									
Carson Valley									
18		4,730	1948-76	7.22	7-11-67	11.47	9-27-54	9.79	4-20-76
12		4,680	1946-76	6.09	4- 4-76	23.00	10-12-61	6.09	4- 4-76
Eagle Valley									
60		4,720	1951-76	0.98	3-13-52	12.98	9-17-64	10.19	4-23-76
18		4,650	1951-76	1.84	3-13-52	23.80	9-17-64	8.10	4-23-76
4			1962-76	20.53	3-29-71	36.60	9-26-66	23.91	4-26-76
Dayton Valley									
16		4,300	1951-76	17.49	4- 1-52	26.30	9-18-64	23.30	4-21-76

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
HUMBOLDT RIVER BASIN							
Marys River Area							
410400115164001	42 N37 E59 26A1	Marvel Ranch	007	D,W	110 VLFL	U	14
Lamoille Valley							
404350115281001	45 N33 E58 19AD1	Conrad	007	D,W	110 VLFL	U	16
404822115300801	45 N34 E57 24CD1	Balboa	007	D	110 VLFL	A	97
South Fork Area							
403400115400001	46 N31 E56 16A1		007	S	110 VLFL	U	
Dixie Creek-Tenmile Creek Area							
404521115395801	48 N33 E56 8D1	Moffat	007		110 VLFL	W	11.5
Carico Lake Valley							
400540116550001	55 N26 E45 28C1		015	S	110 VLFL	U	
Crescent Valley							
402100116452001	54 N29 E48 29C2	Beowawe Farms	011	I	110 VLFL	U	300
402450116324001	54 N29 E48 3B1	Dean Ranch	011	S	110 VLFL	A	
403500116284501	54 N31 E49 5C1	Connelly	011	D	110 VLFL	U	
Upper Reese River Valley							
392700117110001	56 N18 E43 6D1	Blanton	015	I	110 VLFL	U	
Antelope Valley							
400320117190101	57 N25 E41 12BCC1	USGS	015	O	110 VLFL	W	67
Lower Reese River Valley							
402831117034201	59 N30 E44 18AD1	Copper Canyon Mining Company	015	U	110 VLFL	U	
403520117181101	59 N31 E44 1DAC	USGS	015	O	110 VLFL	W	50
403539116553201	59 N31 E45 5AB	USGS	015	O	110 VLFL	W	14
404032116391101	59 N32 E47 3DA1	USGS	015	O	110 VLFL	W	
Boulder Flat							
403920116520001	61 N32 E45 11D1	USGS	015	O	110 VLFL	U	197
404256116363101	61 N33 E48 19CD1	USGS	015	O	110 VLFL	U	
Paradise Valley							
410705117394001	69 N37 E38 2AAB		013	O	110 VLFL	W	79
410416117384701	69 N37 E38 24ACC1	USGS	013	O	110 VLFL	W	38
410448117344901	69 N37 E39 15CB1	USGS	013	O	110 VLFL	W	30
410809117352501	69 N38 E39 28CDD1	Long	013	I	110 VLFL	U	256
411056117354901	69 N38 E39 09CA	Vedder	013	S	110 VLFL	U	112
412438117301501	69 N41 E40 30AAB1		013	D	110 VLFL	W	27
Grass Valley							
404140117435001	71 N33 E38 32B1	BLM	027	S	110 VLFL	W	54
404940117475001	71 N34 E37 22A1	Ballard	027	U	110 VLFL	U	50
405130117480001	71 N35 E37 34A2		013	U	110 VLFL	U	83
Winnemucca Segment							
410111117431801	70 N36 E38 5DDC1	USGS	013	O	110 VLFL	W	
405940117423001	70 N36 E38 16C1	George Hay Co.	013	I,W	110 VLFL	U	55
410131117345901	70 N36 E39 3CBB1	USGS	013		110 VLFL	W	
405810117302801	70 N36 E40 30AA1	Diamond S Ranch	013	O,U	110 VLFL	U	
Imlay Area							
403620118153001	72 N32 E33 28D1	Campbell	027	I	110 VLFL	U	288
Lovelock Valley							
Oreana Subarea							
402000118160001	73A N29 E33 33A1	City of Lovelock	027		110 VLFL	U	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
HUMBOLDT RIVER BASIN									
Marys River Area									
48		5,350	1938-76	2.02	4-28-69	21.53	10-29-51	3.20	3-18-76
Lamoille Valley									
48		5,950	1951-76	1.00	6-28-58	14.4	3-30-55	12.17	3-23-76
			1960-76	-1.05	4-21-72	2.41	3-11-74	0.60	3-23-76
South Fork Area									
6			1968-76	79.16	3-12-75	90.92	3-17-70	80.33	3-23-76
Dixie Creek-Tenmile Creek Area									
			1960-76	5.83	3-12-75	11.48	9-12-60	6.93	3-23-76
Carico Lake Valley									
10			1968-76	3.64	4-12-73	10.45	3-26-76	10.45	3-26-76
Crescent Valley									
14		4,810	1958-76	56.33	4-12-73	69.28	9-28-66	56.75	3-23-76
8		4,740	1973-76	-0.19	4- 4-74	-0.08	3-23-76	-0.08	3-23-76
		4,698	1960-76	5.48	4-30-69	8.23	8-16-60	6.67	3-23-76
Upper Reese River Valley									
16			1968-76	7.00	3-15-76	8.88	3-20-68	7.00	3-15-76
Antelope Valley									
1½	65-67		1964-76	40.33	4-15-70	60.04	8- 5-64	44.59	3-19-76
Lower Reese River Valley									
12		4,609	1961-76	5.25	4-30-69	6.57	9-29-66	6.31	3-19-76
1½			1964-76	29.81	4-13-71	30.47	3-19-76	30.47	3-19-76
1½			1964-76	3.82	4-30-69	4.53	10- 5-66	4.42	3-19-76
3/8			1960-76	2.32	4-30-69	8.30	8-16-60	5.94	3-19-76
Boulder Flat									
6		4,518	1951-76	4.08	7-10-52	10.88	10- 4-61	8.40	3-19-76
3/8			1960-76	4.33	3-19-76	6.99	6-16-60	4.33	3-19-76
Paradise Valley									
6		4,334	1970-76	32.55	4-18-72	37.34	3-24-76	37.34	3-24-76
1½		4,317	1962-76	19.64	4-18-72	21.35	11- 5-68	20.49	3-24-76
1½		4,326	1968-76	22.77	4-18-72	24.45	11- 5-68	24.30	3-24-76
16		4,312	1968-76	9.86	4-18-72	16.23	3-26-76	16.23	3-26-76
10	20-75	4,317	1970-76	7.41	4-28-71	15.68	3-26-76	15.68	3-26-76
8			1970-76	0.69	4-23-71	4.33	3-26-76	4.33	3-26-76
Grass Valley									
6		4,431	1946-76	28.40	7-24-46	37.11	3-20-75	36.48	4- 1-76
6		4,329	1951-76	9.31	3-21-56	13.17	9-20-66	12.57	3-26-76
10		4,301	1951-76	19.74	3-17-53	28.14	10- 3-61	24.91	3-26-76
Winnemucca Segment									
1½			1960-76	4.86	4-25-69	13.49	9-20-66	9.36	3-26-76
12		4,291	1963-76	14.11	4-25-69	20.82	3-15-64	17.97	3-26-76
1½			1960-76	3.11	3-21-62	8.07	9-25-61	4.30	3-24-76
6			1958-76	20.17	9- 1-58	46.10	3-15-64	36.31	3-24-76
Imlay Area									
14		4,150	1951-76	32.19	3-24-76	45.85	3-25-70	32.19	3-24-76
Loveloock Valley									
Oreana Subarea									
			1968-76	119.10	4-23-69	123.29	3-20-75	123.21	3-24-76

SITE IDENTIFICATION NO.	LOCAL NUMBER	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH
FERNLEY BASIN							
Fernley Area							
393539119133001	76 N20 E25 18CCC1	Garbarino	019	U	110 VLFL	U	28
393539119133002	76 N20 E25 18CCC2	Garbarino	019	U	110 VLFL	U	
PYRAMID AND WINNEMUCCA LAKES BASIN							
Washoe Valley							
391613119503501	89 N16 E19 10BBD1	Flying "ME" Ranch	031	U	10 VLFL	U	
Truckee Meadows							
393415119462101	87 N20 E20 30DA1	Morley	031	D	110 VLFL	U	12
Pyramid Lake Valley							
395357119333401	81 N24 E22 31CCC1	BIA	031	U	110 VLFL	U	226
401443119381201	81 N28 E21 33CCD1	USGS	031	O	110 VLFL	U	60
Winnemucca Lake Valley							
395422119210701	80 N24 E23 36CBA1	Ceresola	031	U	110 VLFL	U	73
400100119220001	80 N25 E23 23C	Winnemucca Lake Valley	031	O	110 VLFL	W	11½
BLACK ROCK DESERT BASIN							
Quinn River Valley							
Orovada Subarea							
413320117482001	33A N42 E37 03BB1	Reed	013	I,W	110 VLFL	U	160
413300117494001	33A N42 E37 4BD1	Morris	013	I	110 VLFL	U	
412900117455001	32 N42 E37 32AA1	Runow	013	I	110 VLFL	U	
413310117482002	33A N42 E51 33B2	Drees	013	I	110 VLFL	U	
413920117483001	33A N44 E37 33AAAA1	Albisu	013	I	110 VLFL	U	
Pine Forest Valley							
413500118250001	29 N43 E32 20DC1	Quinn River Ranch	013	S	110 VLFL	U	
San Emidio Desert							
402642119253401	22 N30 E23 29B1		031	U,S	110 VLFL	U	
Smoke Creek Desert							
403200119490001	21 N31 E19 2BB1	Salt Work Well	031	S,U	110 VLFL	U	123
HUALAPAI FLAT							
405200119170001	24 N35 E24 32DDD1	USGS	027	O	110 VLFL	W	15
405200119170002	24 N35 E24 32DDD2	USGS	027	O	110 VLFL	A	66
LEMMON VALLEY (EASTERN PART)							
393850119514901	92B N21 E19 33BBC	York	031	U	110 VLFL	U	165
LONG VALLEY							
413630119520001	9 N43 E19 33B1		031	S	110 VLFL	U	70
SAGEHEN VALLEY							
Continental Lake Valley							
415000118440001	2 N45 E28 14C	Atter Creek Ranch	013	S	110 VLFL	U	48
Pueblo Valley							
415800118370001	1 N47 E30 15C	Pine Forest Farms	013	I	110 VLFL	U	200
SNAKE RIVER BASIN							
Owyhee River Basin							
Independence Valley							
412534116072602	36 N41 E52 28AAD2	Ellison	007	O	110 VLFL	U	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB MSL)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
FERNLEY BASIN									
Fernley Area									
6		4,134	1970-76	4.05	3- 9-72	6.00	4-23-75	4.86	4-23-76
10		4,135	1970-76	12.83	7-14-70	17.80	5- 1-73	16.97	4-23-76
PYRAMID AND WINNEMUCCA LAKES BASIN									
Washoe Valley									
12		5,065	1968-76	5.18	3- 9-72	6.47	7- 7-70	6.20	4-13-76
Truckee Meadows									
4			1971-76	2.00	4-10-75	2.35	5- 1-73	2.16	3-15-76
Pyramid Lake Valley									
8		3,988	1970-76	10.25	3- 9-72	15.25	4-12-76	15.25	4-12-76
1½	58-60	3,865	1967-76	15.31	7-28-67	17.30	4-12-76	17.30	4-12-76
Winnemucca Lake Valley									
6		3,845	1969-76	23.65	7-31-69	27.14	7-14-70	24.59	4-23-76
			1968-76	2.47	4-18-73	4.13	6-10-75	3.97	4-13-76
BLACK ROCK DESERT BASIN									
Quinn River Valley									
Orovada Subarea									
12		4,260	1949-76	16.55	1-20-50	113.55	4- 7-76	113.55	4- 7-76
16		4,235	1971-76	91.22	3-20-75	100.53	4-30-73	91.29	4- 7-76
16		4,200	1971-76	50.96	4-30-73	78.11	4-29-71	54.26	4- 7-76
18		4,220	1960-76	42.38	3-21-61	174.54	3-25-70	113.85	4- 7-76
		4,280	1972-76	106.84	4- 8-72	113.56	3-20-75	113.49	4- 7-76
Pine Forest Valley									
6			1969-76	6.95	3- 3-70	30.46	5- 1-69	26.97	3-25-76
San Emidio Desert									
6		4,013	1968-76	45.20	4- 9-69	46.99	4-13-76	46.99	4-13-76
Smoke Creek Desert									
6			1968-76	49.53	6- 9-75	54.82	3-18-71		4-12-76
HUALAPAI FLAT									
1½		4,031	1967-76	3.77	4-16-73	9.08	6-10-75	7.89	4-12-76
1½	64-66	4,031	1967-76	-1.25	6-14-67	5.60	6-10-75	4.93	4-12-76
LEMMON VALLEY (EASTERN PART)									
8		4,965	1968-76	8.30	3-10-70	12.33	3-15-76	12.33	3-15-76
LONG VALLEY									
6			1968-76	1.28	4-13-76	13.31	2-29-68	1.28	4-13-76
SAGEHEN VALLEY									
Continental Lake Valley									
8			1968-76	7.34	3-20-68	12.48	3-25-76	12.48	3-25-76
Pueblo Valley									
16			1968-76	45.58	3-20-68	56.80	5- 1-69	51.32	3-25-76
SNAKE RIVER BASIN									
Owyhee River Basin									
Independence Valley									
1½			1970-76	46.59	4-16-71	47.54	3-30-70	46.99	3-17-76

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976--Continued

DATE OF SAMPLE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
76-03-30	57	22	6.4	72	8.8	--	--	215	27	31	.9
76-03-30	23	20	6.0	60	11	--	--	164	30	37	.7
76-03-30	2.2	14	3.3	56	9.4	--	--	149	25	25	.8
76-04-01	59	26	4.3	110	19	--	--	161	40	110	.9
76-04-23	56	7.8	1.8	89	3.4	--	--	178	49	19	5.3
76-04-23	56	7.7	1.0	88	3.2	--	--	176	49	19	5.3
76-05-27	77	24	3.0	48	8.0	20	--	128	39	22	1.1
76-06-16	110	5.8	.2	58	12	0	--	119	26	14	2.6
76-09-30	69	13	2.8	21	8.7	200	10	79	13	13	.2
73-08-16	17	110	31	160	4.2	--	--	190	350	170	--
73-11-17	17	84	24	200	4.4	--	--	192	350	170	--
74-02-07	17	88	25	190	4.6	--	--	188	340	160	--
74-05-21	17	130	33	130	4.9	--	--	195	340	170	--
74-08-14	17	120	34	120	5.8	--	--	193	360	150	--
74-11-21	--	--	--	--	--	--	--	--	310	150	--
75-02-19	--	--	--	--	--	--	--	--	340	150	--
75-05-12	--	--	--	--	--	--	--	--	300	140	--
75-08-13	17	120	30	120	5.1	--	--	189	360	130	--
75-11-26	16	130	32	130	5.1	--	--	199	340	160	--
76-01-27	15	120	29	120	4.8	--	--	197	290	150	--
76-04-07	--	--	--	--	--	--	--	--	320	140	--
76-07-13	--	--	--	--	--	--	--	--	340	150	--
74-02-07	17	120	34	130	4.9	--	--	186	340	160	--
74-05-21	16	120	33	130	4.7	--	--	187	330	150	--
74-08-14	16	120	32	120	5.4	--	--	187	320	140	--
74-11-21	16	120	32	130	4.7	--	--	187	320	150	--
75-02-19	16	110	37	120	4.8	--	--	186	310	160	--
75-05-12	16	120	30	130	4.2	--	--	188	310	150	--
75-08-13	16	110	30	130	4.8	--	--	184	340	130	--
75-11-26	--	110	31	130	4.9	--	--	190	340	140	--
76-01-27	15	110	30	120	4.5	--	--	190	290	150	--
76-04-07	16	110	28	120	4.7	--	--	190	310	130	--
76-07-13	17	110	31	130	4.4	--	--	180	330	130	--
73-08-16	29	80	19	140	3.4	--	--	165	180	180	--
73-11-17	27	75	18	150	4.1	--	--	160	200	190	--
74-02-07	26	72	18	160	3.6	--	--	156	190	190	--
74-05-21	28	74	18	120	3.5	--	--	163	160	160	--
74-08-14	27	58	16	160	4.0	--	--	156	190	180	--
74-11-21	28	77	18	140	3.9	--	--	166	170	170	--
75-02-19	28	71	18	140	4.0	--	--	162	170	170	--
75-08-13	28	79	18	150	3.6	--	--	164	210	180	--
76-01-27	26	77	18	140	3.4	--	--	167	180	180	--
76-04-07	29	91	22	140	4.3	--	--	168	190	170	--
76-07-13	31	83	20	140	3.6	--	--	163	210	190	--
73-08-16	17	110	34	110	4.3	--	--	195	340	120	--
73-11-17	17	120	32	120	4.8	--	--	202	360	130	--
74-02-07	17	120	36	120	4.4	--	--	201	370	130	--
74-05-21	16	110	32	110	4.4	--	--	192	350	110	--
74-08-14	17	110	31	100	4.9	--	--	186	320	100	--
74-11-21	16	110	34	110	4.3	--	--	193	320	110	--
75-02-19	16	110	35	110	4.4	--	--	190	340	120	--
75-05-12	17	110	34	110	3.9	--	--	192	320	100	--
75-08-13	17	110	32	110	4.5	--	--	191	350	110	--
75-11-26	--	120	33	120	4.7	--	--	210	360	120	--
76-01-27	15	120	30	110	4.4	--	--	203	320	120	--
76-04-07	16	110	31	110	4.3	--	--	194	320	99	--
76-07-13	16	110	33	110	4.2	--	--	185	340	110	--
73-11-17	20	98	35	120	4.1	--	--	194	330	100	--
74-02-07	19	99	32	120	3.3	--	--	193	340	100	--
74-05-21	19	96	31	110	3.4	--	--	188	330	97	--
74-11-21	19	97	32	120	3.7	--	--	206	310	98	--
75-05-12	19	94	32	110	3.1	--	--	192	310	92	--
76-04-07	19	98	29	110	3.4	--	--	216	310	91	--
76-07-13	19	97	31	120	3.3	--	--	196	310	90	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976--Continued

LOCAL SITE NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
30 N42 F34 30ABC 1	76-03-30	.01	.08	--	332	486	12.0	39	440
30R N42 F33 27DBA 2	76-03-30	.01	.07	--	269	456	13.5	1	260
31 N42 F34 200RC 1	76-03-30	.00	.01	--	209	375	11.5	0	160
31 N42 F34 36RBB 1	76-04-01	.01	.15	--	450	748	14.5	24	400
33R N47 F37 24BAB 2	76-04-23	.00	.11	--	320	--	26.5	30	350
33R N47 F37 24BAC 2	76-04-23	.00	.06	--	317	--	26.0	27	360
33B N47 F38 05AACD1	76-05-27	.00	.94	288	290	384	22.5	12	150
33B N47 F38 17DAA1	76-06-16	.01	.55	322	290	323	33.5	32	370
33R N47 F38 21DAA	76-09-30	.01	.43	188	182	210	21.0	3	60
213 S32 F66 13CDD 1	73-08-16	--	.00	--	936	1440	--	--	--
	73-11-17	--	.02	--	944	1480	18.0	--	--
	74-02-07	--	.08	--	918	1440	16.5	--	--
	74-05-21	--	.07	--	921	1470	20.0	--	--
	74-08-14	--	.02	--	902	1400	19.5	--	--
	74-11-21	--	--	--	--	1330	18.5	--	--
	75-02-19	--	--	--	--	1380	--	--	--
	75-05-12	--	--	--	--	1390	19.5	--	--
	75-08-13	--	.08	--	876	1350	21.0	--	--
	75-11-26	--	.01	--	911	1420	18.0	--	--
	76-01-27	--	.04	--	826	1400	--	--	--
	76-04-07	--	--	--	--	1400	--	--	--
	76-07-13	--	--	--	--	1340	--	--	--
213 S32 F66 13DDB 1	74-02-07	--	.05	--	898	1390	19.0	--	--
	74-05-21	--	.01	--	876	1360	20.5	--	--
	74-08-14	--	.01	--	846	1330	20.0	--	--
	74-11-21	--	.03	--	865	1330	20.0	--	--
	75-02-19	--	.01	--	850	1360	--	--	--
	75-05-12	--	.04	--	853	1350	20.5	--	--
	75-08-13	--	.08	--	852	1300	21.0	--	--
	75-11-26	--	.02	--	--	1350	19.0	--	--
	76-01-27	--	.03	--	813	1380	--	--	--
	76-04-07	--	.03	--	813	1360	--	--	--
	76-07-13	--	.01	--	841	1300	--	--	--
213 S32 F66 24RBA 1	73-08-16	--	1.3	--	719	1190	--	--	--
	73-11-17	--	1.1	--	748	1250	17.0	--	--
	74-02-07	--	1.0	--	741	1240	10.5	--	--
	74-05-21	--	1.4	--	650	1090	23.0	--	--
	74-08-14	--	.95	--	716	1210	32.0	--	--
	74-11-21	--	1.4	--	695	1180	23.0	--	--
213 S32 F66 24RBA 1	75-02-19	--	1.4	--	687	1179	--	--	--
	75-08-13	--	1.5	--	756	1210	30.5	--	--
	76-01-27	--	1.5	--	713	1250	--	--	--
	76-04-07	--	1.6	--	736	1190	--	--	--
	76-07-13	--	1.5	--	765	1190	--	--	--
213 S32 F66 33AAA 1	73-08-16	--	.00	--	831	1250	--	--	--
	73-11-17	--	.01	--	883	1340	17.0	--	--
	74-02-07	--	.06	--	897	1350	16.5	--	--
	74-05-21	--	.01	--	827	1280	19.0	--	--
	74-08-14	--	.01	--	775	1220	18.0	--	--
	74-11-21	--	.02	--	800	1250	19.0	--	--
	75-02-19	--	.03	--	829	1275	--	--	--
	75-05-12	--	.08	--	790	1265	18.5	--	--
	75-08-13	--	.07	--	828	1230	19.0	--	--
	75-11-26	--	.15	--	--	1320	18.0	--	--
	76-01-27	--	.01	--	820	1340	--	--	--
	76-04-07	--	.01	--	786	1270	--	--	--
	76-07-13	--	.01	--	814	1240	--	--	--
213 S32 F66 33RBB 1	73-11-17	--	.00	--	803	1220	20.0	--	--
	74-02-07	--	.07	--	809	1230	10.5	--	--
	74-05-21	--	.03	--	779	1220	22.5	--	--
	74-11-21	--	.02	--	781	1210	21.0	--	--
	75-05-12	--	.05	--	755	1190	22.5	--	--
	76-04-07	--	.06	--	767	1220	--	--	--
	76-07-13	--	.18	--	768	1180	--	--	--

^{1/} Unpublished analyses for prior water years are included for sites with continuing records.

^{2/} County codes: 003, Clark County; 013, Humboldt County.

^{3/} Geologic unit codes: 110VLF, undifferentiated valley fill, Pleistocene age; 111FLDD, flood plain deposits, Holocene age; 120VLCC, undifferentiated volcanic rocks, Tertiary age.

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CALENDAR FOR WATER YEAR 1976

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OCTOBER

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