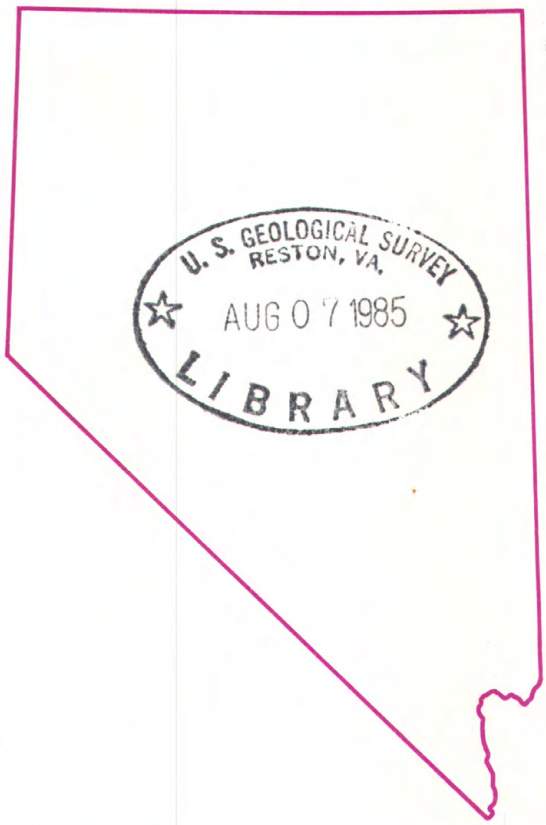
Water Resources Data Nevada Water Year 1984



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-84-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1984

1983

OCTOBER

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1984

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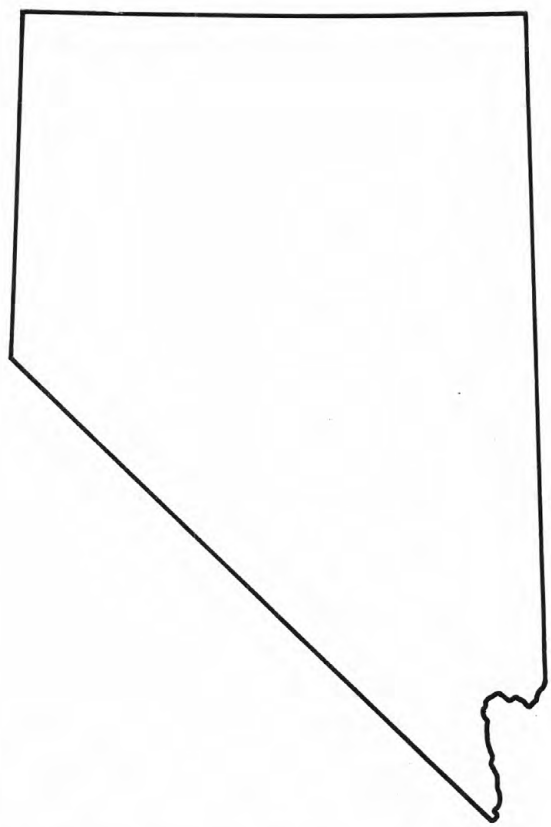
Water Resources Data
Nevada
Water Year 1984

by Howard R. Frisbie, Richard J. LaCamera,
Margaret M. Riek, and David B. Wood



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-84-1
Prepared in cooperation with the State of Nevada
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information regarding water-resources investigations
in Nevada, write to:
Nevada Office Chief, Water Resources Division
U.S. Geological Survey
Room 227, Federal Building
705 North Plaza Street
Carson City, Nevada 89701

1985

PREFACE

This report for Nevada is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-water and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streams, canals, drains and springs, lakes and reservoirs, and observation wells provide the hydrologic information needed by State, local, and Federal agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The four authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines.

In addition to the authors, U.S. Geological Survey personnel in Nevada who contributed significantly to the collection and preparation of the data in this report were: David L. Berger, Robert E. Bostic, Sherwood B. Browning, Rodney L. Carson, Nancy Fleckenstein, Kerry T. Garcia, Donald J. Hays, Ray J. Hoffman, Larry J. Neff, Katherine G. Noe, Robert N. Pennington, Alex Pupacko, Andy Records, Chris Stone, Jim Swartwood, Thomas B. Tucker, and Richard L. Young.

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15. Supplementary Notes

Prepared in cooperation with several Federal, State, and local agencies.

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Water-resources data published herein for the 1984 water year comprise the following records:

- Water discharge for 89 gaging stations on streams, canals, and drains.
- Discharge data for 40 peak-flow stations and 3 low-flow stations on streams.
- Stage and contents for 15 lakes and reservoirs.
- Water levels for 312 observation wells.
- Water-quality data for 67 stream, canal, and drain sites, 3 lake and reservoir sites, and 3 wells.

Additional water data, collected at various sites that are not part of the systematic data-collection program, 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.

17. Document Analysis a. Descriptors

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b. Identifiers/Open-Ended Terms

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WATER RESOURCES DATA FOR NEVADA, 1984

Compiled by Howard R. Frisbie, Richard J. La Camera,
Margaret M. Riek, and David B. Wood

INTRODUCTION

Water resources data published herein for the 1984 water year comprise the following records:

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Records of stream discharge and content 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; for 1961-70, they were in a 5-year series. Records of water quality were published from 1941 to 1970 in an annual series of water-supply papers entitled "Ouality of Surface Waters of the United States." Records of ground-water levels were published through 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." For specific water-supply papers dealing with surface-water, ground-water, and quality-of-water data for Nevada and immediately adjacent areas, see pages 15, 17, and 18. Water-supply papers may be consulted at the libraries of principal cities in the United States, or, if not out of print, they may be purchased from the Eastern Distribution Branch, Text Products Section, U.S. Geological Survey, 604 S. Pickett St., Alexandria, VA 22304. For further ordering information, telephone (703) 756-6141.

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

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published annually as official Geological Survey reports on a State basis. These 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 volume is identified as "U.S. Geological Survey Water-Data Report NV-84-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as official water-data reports. The water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. For further ordering information, the Customer Inquiries telephone number is (703) 487-4660.

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 during 1984 are:

Nevada Department of Conservation and Natural Resources, R. D. Westergard, Director.
Division of Water Resources, P. G. Morros, State Engineer.
Division of Environmental Protection, L. H. Dodgion, Administrator.

Nevada Department of Transportation, A. E. Stone, State Highway Engineer.

Carson City Public Works Department, J. A. Laird, Director.

California Department of Water Resources, D. N. Kenedy, Director.

Assistance in the form of funds or services was given by: Corps of Engineers, U.S. Army; Bureau of Indian Affairs, Bureau of Land Management and Bureau of Reclamation, U.S. Department of the Interior; U.S. District Court Watermaster; U.S. Board of Water Commissioners; Washoe County and Washoe County Public Works Department; Clark County Flood Control District; City of Las Vegas; City of Reno; City of Sparks; Walker River Irrigation District; Carson-Truckee Water Conservancy District and Truckee-Carson Irrigation District; Carson Water Sub-Conservancy District; Nevada Power Company; and Sierra Pacific Power Company.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS DURING 1984

Surface Water

Nevada has no truly large rivers. The largest streams in the State are the Humboldt, Truckee, Carson, Walker, Muddy, Virgin, and Colorado Rivers. The Colorado River, which is by far the largest of the seven, forms the boundary between southeastern Nevada and northwestern Arizona. Of the remaining listed rivers, only the Humboldt and Muddy begin and terminate in Nevada. The other four enter Nevada from an adjacent state.

The largest rivers typically follow the flow pattern of a gaining stream in the well-watered mountain reaches and a losing stream in the lower altitude reaches. The major cause of the downstream diminution of flow is water use for irrigation.

Much of Nevada is drained by small streams that are dry most of the year. Typically, such streams respond only to intense precipitation, which generally occurs only a few times a year at the most. In many years, the streams have no flow, and even in relatively wet years, total flow duration in such streams may be measured in hours.

Surface-Water Conditions

The three rivers of far western Nevada--the Carson, Walker, and Truckee--experienced higher-than-average flows during 1984. Characteristically, low flow occurs in late summer, and the flow then increases through the autumn and winter until the snowmelt season in the spring. Maximum flows for the year normally can be expected in May and June, although many floods have occurred in December, January, or February as a result of rain on snow.

The Carson River lies mostly in Nevada, with its headwaters in the Sierra Nevada of California. During water year 1984, runoff in the river at Carson City (station 10311000) was 160 percent of normal.

The Walker River is formed by the confluence of the East and West Forks in Mason Valley, and terminates in Walker Lake, a saline remnant of ancient Lake Lahontan north of Hawthorne. Both forks originate in the Sierras, and their flows are controlled--the East Fork by Bridgeport Reservoir and the West Fork by Topaz Lake. The flow of Walker River at Wabuska (station 10301500, below the confluence) was 246 percent of its 58-year average during 1984.

The Truckee River, another major western Nevada stream for which discharge is significantly controlled by reservoirs and regulated lakes in the Sierras, also experienced above-normal flow. The Truckee River feeds Pyramid Lake, a closed-basin water body. At Reno (station 10348000), the mean daily discharge for water year 1984 was 1,464 ft^3/s (cubic feet per second), compared to a 58-year mean of 698 ft^3/s. Thus, the flow for 1984 was 210 percent of the normal.

In 1984, northern Nevada experienced one of its most severe winters since the collection of climatic data began in the late 1800's. New records for depth and water content were set at many of the snow-pack measuring sites across the State. The resulting runoff from this snow caused record peak discharges and cumulative-flow volumes at many gaging stations.

The peak discharge on the Humboldt River (station 10322500) was 7,870 ft^3/s on May 18, which was the largest recorded peak. For the entire year, the total discharge was 479 percent of the station's 77-year normal. Near the terminus of the Humboldt River, Lovelock Municipal Airport was rendered useless, as its runways and terminals were under water most of the summer.

Flow of the Colorado River is controlled by a sequence of impoundments that include Hoover and Davis Dams. Since 1935, the mean annual discharge of the Colorado River below Hoover Dam (station 09415000) has been 13,250 ft^3/s; in contrast, the mean for water year 1984 was 30,590 ft^3/s.

Significant flash flooding occurred at many places in Nevada during the summer of 1984. From July to September, torrential rains caused flash flooding in all parts of Nevada. Many people were killed and damage estimates were in the millions of dollars. Numerous times, heavy rains turned Las Vegas streets into rivers and tossed cars around like dice. Police helicopters were kept busy as they swept along swollen washes, searching for victims of the floods; searches often ended with little hope of recovering bodies.

Surface-Water Quality

The quality of surface water in Nevada varies greatly from place to place, as well as seasonally. Water temperatures and the concentrations of dissolved solids and suspended sediment are generally higher in the southern part of the State than in the northern part. Dissolved-solids values of 1,000 to 3,000 mg/L (milligrams per liter) are quite common in southern water, whereas values exceeding 1,000 mg/L in northern Nevada surface water are uncommon.

The small mountain streams and lakes in Nevada have water of generally good quality. Low dissolved-solids concentrations--characteristically less than 500 mg/L and commonly less than 200 mg/L--are the rule for most of the mountain streams and lakes. Water temperatures are moderate during the summer, and ice is common during the winter months.

Mining activities in the past have contributed to surface-water quality problems. High mercury concentrations, related to residues from mining operations in the Comstock Lode in and near Virginia City during the 19th Century, have been detected in the lower Carson River and Lahontan Reservoir.

Municipal and industrial wastes from the Las Vegas metropolitan area have significantly affected local stream quality. Las Vegas Wash receives treated sewage effluent rich in nutrients. Streamflow has increased appreciably during the last decade at both the Henderson and Boulder City gages (6.0 and 8.0 miles, respectively, upstream from the high-water line of Lake Mead). The trend reflects a continuing population growth in Las Vegas Valley and the resulting increase in sewage-effluent discharge to the wash upstream from the Henderson gage. The salinity of the effluent-dominated flow at the Henderson gage has fluctuated little during the period. At the Boulder City gage, in contrast, specific conductance has decreased considerably--from almost 6,000 micromhos in 1970 to about 3,000 micromhos in 1981-84. This change reflects the dilution of saline ground-water inflow between the two gages by the increasing quantities of treated sewage effluent.

The amount of sediment transported by a stream generally is proportional to the rate of streamflow; thus, except for flash floods, the bulk of fluvial sediment moves during the winter or spring when precipitation and snowmelt are greatest.

Urbanization in the Las Vegas metropolitan area is believed to have greatly accelerated erosion, and thus increased sediment transport during storms. In Las Vegas Wash downstream from Henderson, sediment transport has generally been intensive since collection of data began at the Boulder City gage (station 09419800) in January 1974. This is thought to be largely the result of severe channel erosion below Henderson that has probably been occurring since at least the early 1970's in response to progressively increasing water discharge. This changing flow regimen has been accompanied by severe lateral and vertical erosion, as the stream channel adjusts to the changing flow conditions. Two events--one mainly natural and the other man caused--accelerated the erosion processes. The first event was a record runoff during July 4-6, 1975, that resulted from an intensive rainstorm on July 3 in Las Vegas Valley. The second event was removal of a road culvert just downstream from the Boulder City gage in May 1978. Both events triggered considerable erosion in the 5-mile reach upstream from the gage. Downcutting has been as great as 20 to 30 feet in some places, and progressive lateral erosion also has been extensive (P. A. Glancy, U.S. Geological Survey, oral communication, 1981). Sediment data are collected only periodically at the Boulder City gage, not frequently or timely enough to allow detailed interpretation of upstream erosion activity (sampling frequencies are listed under "Period of Record" for station 09419800 in the basic-data section of this report). High streamflows in southern Nevada during July and August 1984 were the result of intense thunderstorms which continued to accelerate the erosion in Las Vegas Wash. No water-quality samples were collected during the runoff, but high concentrations of suspended sediment would have been expected. The suspended-sediment and water-discharge records for the period since data collection began at the gage, which are summarized in the following table, show the general character of fluvial-sediment transport past the site.

Summary of data on suspended sediment and water discharge, Las Vegas Wash near Boulder City

Period	Maximum measured sediment concentration (mg/L)	Water discharge (cubic feet per second)	
		At time of maximum measured concentration	Maximum for entire period
Aug. 1969-Dec. 1973	no data	--	485
Jan. 1974-July 3, 1975	288	69	300
July 4-6, 1975	---------- record high flows ----------		2,430
July 7-Sept. 14, 1975	no data	--	107
Sept. 15, 1975-May 17, 1978	17,300	616	1,050
May 18, 1978	---------- culvert removed ----------		75
May 19, 1978-Sept. 1983	113,000	344	2,060
Oct. 1983-Sept. 1984	7,230	148	7,760

The tabulation on the following page summarizes newly established maximums and minimums of discharge and selected water-quality characteristics at 5 stream sites in Nevada for the periods of record through water year 1984.

Newly established maximums and minimums determined for period of record[a] at selected stream sites

Station name and number	Discharge (cubic feet per second)		Specific conductance (micromhos)		Water temperature (degrees Celsius)		Suspended sediment (milligrams per liter)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Las Vegas Wash nr Boulder City 09419800	7,760	14	9,120	1,780	29.5	3.0	113,000	111
Colorado R blw Hoover Dam 09421500	50,800	152	1,230	875	21.5	9.0	24	<1
Humboldt R nr Carlin 10321000	8,250	0.1	677	193	29.0	0.0	2,440	17
Humboldt R nr Imlay 10333000	9,270	0	988	377	30.5	0.0	2,200	9
Humboldt R nr Rye Patch 10335000	7,960	0	4,010	384	29.5	0.0	136	14

[a] Maximums or minimums measured in the current year that are, respectively, greater than or less than those for the prior period of record are indicated by italics and underline. Frequency of water-quality measurements may differ from station to station and, for any given station, from year to year (see frequency information listed in "PERIOD OF RECORD" for each station).

Ground Water

Because the geography and geology of Nevada are complex, ground-water conditions in the State cannot easily be summarized. Ground water occurs in the unconsolidated valley-fill sedimentary aquifers of more than 250 basins and valleys. Most of these hydrographic areas are topographically closed, but ground water may flow from one valley to another. Additionally, ground water occurs in the bedrock underlying the valley fill. In some areas, several bedrock units form continuous aquifers that underlie a number of basins. Thus, changes in ground-water conditions brought about by changing recharge or discharge, pumping, land use, or other factors in one basin may not affect conditions in adjacent basins.

Water-Level Fluctuations

Ground-water levels fluctuate seasonally and annually in response to a variety of stresses or changes in natural recharge and discharge. This in turn can cause natural changes in ground-water levels, but the effect may take years to become evident. Long-term climatic changes also affect water-level trends. Superimposed on these changes are the effects of ground-water pumpage for public-supply, agricultural, or industrial purposes.

A wetter than normal year throughout Nevada did not significantly lessen demands on the more heavily impacted ground-water systems. Agricultural areas such as Diamond Valley, Paradise Valley, and the Amargosa Desert continued to rely on ground-water supplies for irrigation. Most areas that have experienced ground-water problems in the past continued to experience similar problems.

An index well in Steptoe Valley (east-central Nevada) showed record high ground-water levels throughout the entire year. Another well in Paradise Valley (north-central Nevada) had record high ground-water levels from December to May. Southern Nevada wells experienced the opposite trends as northern Nevada. The index well in Las Vegas Valley had record low levels for seven of the twelve months during the 1984 water year.

DEFINITION OF TERMS

Commonly used terms related to surface water, ground water, and water quality are defined below. In addition, a table for converting measurement units of the inch-pound system to metric (International System) units is 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; it is equivalent to 43,560 cubic feet, about 326,000 gallons, or 1,233 cubic meters.

Algae are mostly aquatic plants, either single-celled, colonial, or multicelled, that contain chlorophyll and lack 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, which means confined, is used to describe hydraulic conditions in which the water level in a well 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, that commonly are clumped into colonies. Some bacteria cause disease, whereas 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 used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as the organisms that produce colonies within 22-24 hours when incubated at 35°C on M-Endo agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals--including man. They are often used as indicators of the sanitary quality of a water. In the laboratory, they are defined as all organisms that produce blue colonies within 20-24 hours when incubated at 44.5°C on M-FC agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal streptococcal bacteria also are present in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 46-50 hours at 35°C on KF streptococcus agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bank storage is the water that is absorbed into the banks of a stream channel or lakeshore when the stage rises above the water table in the bank materials, and that returns to the stream or lake when the stage falls below the water table.

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

Bottom material: See "Bed material."

Cells/volume refers to the number of cells of any organism per unit volume. The cells are counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of cells per sample.

Cfs-day is the volume of water represented by a flow rate of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.984 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

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

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

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

Cubic feet per second per square mile is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

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

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

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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 milligrams per liter, 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 normally drains by gravity into the river upstream from the specific location. Drainage areas given herein include all closed basins or other noncontributing areas within the overall drainage boundaries, unless otherwise noted.

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

Gage is an instrument used to measure water-surface elevation.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary 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 staff 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 attributable to the presence of alkaline-earth ions (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$). It is commonly recognized by the increased quantity of soap required to produce lather.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the U.S. Geological Survey's 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 an observation well.

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

Micrograms per gram (ug/g) is a unit expressing the concentration of chemical constituents as the mass (micrograms) of the constituent per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as the 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 expressing the concentration of chemical constituents in solution as the mass (milligrams) of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter, and is based on the mass of sediment per liter of water-sediment mixture.

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

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

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

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

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

Particle size is the diameter, in millimeters (mm), of suspended or bed-material particles, as determined by either tube. Sedimentation methods include pipet, bottom-withdrawal tube, and visual-accumulation tube.

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 (millimeters)	Method of analysis
Clay	0.00024 - 0.0040	Sedimentation.
Silt	.0040 - .062	Sedimentation.
Sand	.062 - 2.0	Sedimentation or sieve.
Gravel	2.0 - 64	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.

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 type, number, mass, or volume.

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 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 are the plant parts of the plankton community. Phytoplankton are usually microscopic and their movements are 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 water quality. They are the primary food producers in the aquatic environment, and are commonly known as algae. Their concentrations are expressed as number of cells/mL of sample.
>
> > 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 such as taste, odor, or toxicity.
> >
> > Diatoms are the unicellular or colonial algae having a siliceous shell.
> >
> > Green algae have chlorophyll pigments similar to those of other green plants. Some forms produce algal mats or floating "moss" in lakes.
>
> Zooplankton are the animal parts of the plankton community. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers that feed upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

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

Runoff in inches indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed over the entire area.

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, and mechanisms controlling the occurrence and movement 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 feet above the bed), expressed as milligrams (dry weight) of sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day), also known as suspended-sediment load, is the quantity of suspended sediment, as measured by dry weight, that passes a streamflow cross section during a given time. It is computed by multiplying water discharge (in cubic feet per second) by the sediment concentration (in milligrams per liter) and the factor 0.0027.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight, that passes a streamflow cross section during a given time.

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

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 (abbreviated "micromhos" or, in computer-generated tabulations, "umhos"). Specific conductance is related to the type and concentration of ions in solution, and can be used for approximating the dissolved-solids concentration in water. Commonly, the concentration (in milligrams per liter) is 55 to 70 percent of the specific conductance (in micromhos). This relation is not necessarily constant, even for a specific sampling site; it may vary with time in response to changes in the chemical composition of the water.

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

Streamflow is the water discharge 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" because "streamflow" may be applied to discharge regardless of whether or not it is affected by diversion or regulation.

Surface area of a lake or reservoir is that area outlined on the latest U.S. Geological Survey topographic map as the lake or reservoir boundary. In localities not covered by topographic maps, the areas are computed from the best maps available at the time of measurement. All areas listed in this report are those for the stage when the measured map was made.

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

Suspended (as used in tables of chemical analyses) refers to that component of the water-sediment mixture that is retained on a 0.45-micrometer membrane filter. Thus, the suspended concentration is the component of total concentration that is associated with the suspended material.

Suspended, recoverable is the amount of a given constituent that is in solution after the suspended component of a water-sediment mixture has been digested by a method (usually using a dilute acid) that results in dissolution of only the more readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and the determination thus represents something less than the total amount of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results. In actual practice, determinations of "suspended, recoverable" concentrations may be made either (1) analyzing portions of the material collected on the filter or, more commonly, (2) by difference, on the basis of separate determinations of dissolved and total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in that part of a representative water-sediment mixture that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures the recovery and measurement of at least 95 percent of the total amount present. A knowledge of the expected form of the constituent in a sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total" rather than "suspended, recoverable." Determinations of "suspended, total" concentrations are made either (1) by analyzing portions of the material collected on the filter or, more commonly, (2) by difference, on the basis of separate determinations of dissolved and total concentrations.

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 (most general) and ending with Species (most specific) at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

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

Thermograph is an instrument that continually and automatically records water temperature. "Temperature recorder" is the term used in this report to indicate the presence of a thermograph.

Time-weighted average is computed by multiplying the number of days in a sampling period by the concentration of an individual constituent for the corresponding period, totaling such products for several consecutive periods, and dividing that total by the number of days in the overall period. A time-weighted average represents the composition of water that would be contained in a thoroughly mixed reservoir that had received an equal quantity, each day, of the flow that passed a given sampling site during the overall period under consideration. Also see "weighted average."

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

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

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is present in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge (in cubic feet per second) by the concentration (in milligrams per liter), the factor 0.0027, and the number of days.

Water year is the 12-month period October 1 to September 30, designated by the calendar year in which it ends. Thus, water year 1983 began October 1, 1982, and ended September 30, 1983.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentration of an individual constituent for the corresponding period, totaling such products for several consecutive periods, and dividing that total by the sum of the discharges. A discharge-weighted average represents the composition of water that would be contained in a thoroughly mixed reservoir that had received all the flow passing a given sampling site during the overall period under consideration. Also see "time-weighted average."

WDR is used as an abbreviation for "water-data report" in the REVISED RECORDS paragraph for a gaging station. It refers to the State basic-data reports that are published annually.

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

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 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 the list of gaging stations. Each indention represents one rank. This downstream order and system of indention show (1) which stations are on tributaries between any two stations and (2) 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 the boundaries of which coincide with certain natural drainage lines. Records in this report are for sites 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.

NUMBERING SYSTEM FOR WELLS, SPRINGS, AND MISCELLANEOUS SITES

Latitude-Longitude Numbers

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

The U.S. Geological Survey numbering system for wells, springs, and miscellaneous sites is based on the grid system of latitude and longitude. The system indicates the geographic location of the site and a unique number for each site. The overall designation consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the site within a 1-second grid. For example, well number 414113116293802 is the second site identified for latitude 41°41'13" and longitude 116°29'38".

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 base line and meridian. Nevada has been divided into 14 hydrographic regions or major basins and approximately 250 individual hydrographic areas or valleys. The classification is 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.[1] 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 the 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 three times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. 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. As an example, a well in Mason Valley (hydrographic area 108) located within NE¼NE¼SW¼SW¼ section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCAA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCAA2.

Prior to January 1976, local site numbers in Nevada were published according to the following general format: 13/26-16ab1. The first number was the township north of the base line (if the township was south of the base line, the first number was followed by an "S"). The second number was the range east of the meridian, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence as defined above.

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[1] Rush, F. E., 1968, Index of hydrographic areas: Nevada Department of Conservation and Natural Resources Information Report 6, 38 p.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network provides hydrologic data, nationwide, for basins 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 processes 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 (NASQAN) has been designed by the U.S. Geological Survey to meet many of the information needs of agencies and groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are to (1) depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) detect and assess long-term changes in streamflow and stream quality.

Radiochemical program is a nationwide network of water-quality stations where samples are collected for analysis of radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF DATA ON SURFACE-WATER QUANTITY

Collection and Computation of Data

The basic data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement the basic data in determining the daily flow or volume of water in storage. Records of stage are obtained either 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 selected intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. 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.

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 indicate a greater-than-measured discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computations of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the 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 known as 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 situated 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.

The stage-discharge relation also can be affected by ice in the winter, and the usual methods of discharge computation cannot be used. Discharge for a period of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same basin or in nearby basins.

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

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

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

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily stage or contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

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

Previously published streamflow 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 find such revised records more easily, 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, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the 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.

The type of gage currently in use, the datum of the present gage referenced to National Geodetic Vertical Datum of 1929, and a condensed history of the types, locations, and datums of previous gages used during the period of record are provided under "GAGE." The National Geodetic Vertical Datum of 1929 is explained in the introductory section titled "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow at a gaging station is presented 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 given under "REMARKS."

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

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow 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 also is expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are appropriate daily discharges for the calendar and water years.

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 all reservoirs having records.

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

Accuracy of Field Data and Computed Results

The accuracy of streamflow 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 discharge values are within 5 percent of the true discharges; "good" means that about 95 percent are within 10 percent; and "fair" means that about 95 percent are within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

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 other factors.

Publications

For the period through water year 1970, compilations of annual information on surface-water quantity in and immediately adjacent to Nevada are grouped geographically by "part number" in the following water-supply papers (WSP):

Water year	WSP number for Part 9[a]	WSP number for Part 10[a]	WSP number for Part 13[a]
Through 1950	1313	1314	1317
1951-60	1733	1734	1737
1961-65	1926	1927	1934
1966-70	2126	2127	2134

[a] Geographic areas are as follows: Part 9, Colorado River basin; Part 10, The Great Basin; and Part 13, Snake River basin.

Information for the period since 1970 is published in the series of annual reports for Nevada (see "Introduction").

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, rating tables, and water-temperature measurements, is on file in the Geological Survey Nevada State Office. Also, most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the State Office.

Records of Discharge Collected by Other Agencies

Records of discharge not published by the Geological Survey were collected in Nevada 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, VA 22092, maintains an index of these sites. Information on records at specific sites may be obtained from that office.

EXPLANATION OF WATER-QUALITY DATA

Collection of Data

Data on surface-water quality usually are collected at or near gaging stations. Most of the water-quality data for such sites are given immediately following the respective discharge records. Data collected at water-quality partial-record stations that do not coincide with gaging stations, and the supplemental specific-conductance, water-temperature, and (at several sites in the Humboldt River basin) pH data that are collected at gaging stations, are listed separately following the gaging-station records.

For detailed records of surface-water quality, the descriptive heading gives: Periods of record and frequencies of determination for chemical analyses, specific conductances, biological data, microbiological data, water temperatures, and sediment data; extremes during the period of record for several specific items; extremes during the current year for items determined at least once daily; and general remarks. Dashes in tables indicate that no values were measured or calculated.

For records of ground-water quality, 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 chapters of the U.S. Geological Survey Techniques of Water-Resources Investigations series, which are listed on a following page. Concentrations of carbonate and bicarbonate reported herein have been determined either by incremental titration in the field (column-heading abbreviation, IT-FLD) or by fixed-endpoint titration in the laboratory (FET-LAB).

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

Water-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.

For water-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and (or) mean values for each constituent measured, and are based on half-hourly or hourly punches beginning at about 0030 or 0100 hours and ending at about 2400 hours for the day of record. More detailed information for such stations may be obtained from the Geological Survey State Office in Carson City, Nev.

Water Temperature

Water temperatures are measured at all water-quality stations. In addition, water temperatures are measured at the time of discharge measurements for surface-water gaging stations. For stations where water temperatures are measured once daily by an observer, the measurements are made at about the same time each day. Large streams have a small diurnal 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, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined on samples collected by using depth-integrating samplers. Samples most commonly are obtained at several verticals in a streamflow cross section.

At many stations, suspended-sediment samples are collected only periodically. Although periodic data may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow, which in turn can be used to predict long-term sediment-discharge characteristics of the stream.

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

Publications

For the period through water year 1970, annual information on the quality of surface water in and immediately adjacent to Nevada is listed in the following water-supply papers (WSP):

Water year	WSP number	Water year	WSP number	Water year	WSP number
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098
1949	1163	1959	1645	1969	2148
1950	1189	1960	1745	1970	2158

Information for the period since 1970 is published in the series of annual reports for Nevada (see "Introduction").

EXPLANATION OF DATA ON GROUND-WATER LEVELS

Collection of Data

Data from the basic Statewide network of primary and secondary observation wells are published herein. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local well number. (See the section titled "Numbering System for Wells, Springs, and Miscellaneous Sites.")

Measurements are made in many types of wells under differing conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure consistent measurements.

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD), which is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above sea level is given in the well description. For primary observation wells, the height of the measuring point above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

The accuracy of water levels depends on several factors. For example, in a measurement of a depth to water of several hundred feet, the error in 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 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.

Publications

In 1945, the Geological Survey and the office of the Nevada State Engineer entered into a cooperative agreement to investigate the ground-water resources of Nevada. Water-level measurements prior to 1946 are contained in Water Resources Bulletin 3 published by the Nevada State Engineer. Subsequent data for Nevada and adjacent areas through 1974 appear in the following water-supply papers (WSP):

Calendar year	WSP number	Calendar year	WSP number
1946-50	1170	1955	1409
1951	1196	1956-60	1770
1952	1226	1961-65	1855
1953	1270	1966-70	2010
1954	1326	1971-74	2162

Information for the period since 1974 is published on a water-year basis in the series of annual reports for Nevada (see "Introduction").

WATER-RELATED REPORTS FOR NEVADA COMPLETED BY THE GEOLOGICAL SURVEY DURING CALENDAR YEAR 1984

Basin and range province, Nevada: "Maps showing ground-water levels, springs, and depth to ground water, basin and range province, Nevada," by M. S. Bedinger, J. R. Harrill, William H. Longer, J. M. Thomas, and Deborah A. Mulvihill; U.S. Geological Survey Water-Resources Investigations Report 83-4119-B, p.

Basin and range province, Nevada: "Maps showing ground-water units and withdrawal, basin and range, Nevada," by M. S. Bedinger, J. R. Harrill, and J. M. Thomas; U.S. Geological Survey Water-Resources Investigations Report, 83-4119, p.

Carson and Truckee Rivers area, western Nevada: "Estimation of streamflow for selected sites on the Carson and Truckee Rivers in California and Nevada, 1944-80," by J. C. Blodgett, R. N. Oltmann, and K. R. Poeschel; U.S. Geological Survey Water-Resources Investigations Report 84-4058, 223 p.

Galena Creek basin, Washoe Co.: "Water-resources appraisal of the Galena Creek basin, Washoe County, Nevada," by Terry Katzer, T. J. Durbin, and D. K. Maurer; U.S. Geological Survey Open-File Report 84-433, 59 p.

Las Vegas Valley, Clark Co.: "Ground-water conditions in Las Vegas Valley, Clark County, Nevada," by Russell W. Plume; U.S. Geological Survey Open-File Report 84-130, 25 p.

MX missile-site area, east-central Nevada and western Nevada: "Compilation of selected hydrologic data from the MX missile-siting investigation, east-central Nevada and western Utah," by R. L. Bunch and J. R. Harrill; U.S. Geological Survey Open-File Report 84-702, 123 p.

Nevada (statewide): "Investigations and research in Nevada by the Water Resources Division, U.S. Geological Survey, 1982-83," by Terry Katzer, Otto Mooseburner, and William D. Nichols; U.S. Geological Survey Open-File Report 83-768, 40 p.

Nevada (statewide): "Water-resources data for Nevada, water year 1983," by H. R. Frisbie, R. J. LaCamera, M. M. Riek, and D. B. Wood; U.S. Geological Survey Water-Data Report NV-83-1, 334 p.

Nevada Test Site, southern Nevada: "Flood potential of Fortymile Wash and its principal southwestern tributaries, Nevada Test Site, southern Nevada," by R. R. Squires and R. L. Young; U.S. Geological Survey Water-Resources Investigations Report 83-4001, 33 p.

Nevada Test Site, southern Nevada: "Hydrology", by W. E. Wilson in U.S. Geological Survey research in radioactive waste disposal--fiscal year 1982; U.S. Geological Survey Water-Resources Investigations Report 84-4205, p. 28-31.

Soda Lakes and Upsal Hogback area, Churchill Co.: "Geohydrology, aqueous geochemistry, and thermal regime of the Soda Lakes and Upsal Hogback geothermal systems, Churchill County, Nevada," by F. H. Olmsted, A. H. Welch, A. S. Van Denburgh; U.S. Geological Survey Water-Resources Investigations Report 84-4054, 166 p.

Truckee River area, west-central Nevada and eastern California: "Effect of water quality on survival of Lahontan cutthroat trout eggs in the Truckee River, west-central Nevada and eastern California," by R. J. Hoffman and G. G. Scoppettone; U.S. Geological Survey Open-File Report 84-437, 35 p.

Yucca Mountain and vicinity, Nye Co.: "Ground-water level data and preliminary potentiometric surface maps, Yucca Mountain and vicinity, Nye County, Nevada," by J. H. Robison; U.S. Geological Survey Water-Resources Investigations Report 84-4197, 8 p.

Yucca Mountain and vicinity, Nye Co.: "Hydrology of Yucca Mountain and vicinity, Nevada-California--Investigative results through Mid-1983," by R. K. Waddell, J. H. Robison, and R. K. Blankennagel; U. S. Geological Survey Water-Resources Investigations Report 84-4267, 72 p.

Yucca Mountain and vicinity, Nevada-California: "Simulated effects of increased recharge on the ground-water flow system of Yucca Mountain and vicinity, Nevada-California," by J. B. Czarnecki; U.S. Geological Survey Water-Resources Investigations Report 84-4344, 33 p.

Yucca Mountain, Nye Co.: "Conceptual hydrologic model of flow in the unsaturated zone, Yucca Mountain, Nevada," by Parviz Montazer and William E. Wilson; U.S. Geological Survey Water-Resources Investigations Report 84-4345, 35 p.

Yucca Mountain, Nye Co.: "Geohydrologic and drill-hole data for test well USW H-3, Yucca Mountai, Nye County, Nevada," by William Thordarson, F. E. Rush, R. W. Spengler, and S. J. Waddell; U.S. Geological Survey Open-File Report 84-149, 28 p.

Yucca Mountain, Nye Co.: "Geohydrologic and drill-hole data for test well USW H-4, Yucca Mountain, Nye County, Nevada," by M. S. Whitfield, Jr., William Thordarson, and E. P. Eshom; U.S. Geological Survey Open-File Report 84-449, 39 p.

Yucca Mountain, Nye Co.: "Geohydrologic data for test well UE 25p#1, Yucca Mountain area, Nye County, Nevada," by R. W. Craig and K. A. Johnson; U.S. Geological Survey Open-File Report 84-450, 63 p.

Yucca Mountain, Nye Co.: "Geohydrologic data for well USW G-4, Yucca Mountain area, Nye County, Nevada," by C. B. Bentley; U.S. Geological Survey Open-File Report 84-63, 48 p.

Yucca Mountain, Nye Co.: "Geohydrology of test well USW H-1, Yucca Mountain, Nye County, Nevada, by F. E. Rush, William Thordarson, and D. G. Pyles; U.S. Geological Survey Water-Resources Investigations Report 84-4032, 56 p.

Yucca Mountain, Nye Co.: "Geohydrology of test well USW H-3, Yucca Mountain, Nye County, Nevada," by William Thordarson, F. E. Rush, and S. J. Waddell; U.S. Geological Survey Water-Resources Investigations Report 84-4272, 38 p.

Yucca Mountain, Nye Co.: "Geohydrology of rocks penetrated by test well UE-25p#1, Yucca Mountain Area," by R. W. Craig and J. H. Robison; U.S. Geological Survey Water-Resources Investigations Report 84-4248, 57 p.

Yucca Mountain, Nye Co.: "Geohydrology of volcanic tuff penetrated by test well UE-25#1, Yucca Mountain, Nye County, Nevada," by R. G. Lahound and others; U.S. Geological Survey Water-Resources Investigatins Report 84-4253, 44 p.

Yucca Mountain, Nye Co: "Preliminary evaluation of hydrologic properties of cores of unsaturated tuff, test well USW H-1, Yucca Mountain, Nevada," by E. P. Weeks and W. E. Wilson; U.S. Geological Survey Water-Resources Investigations Report 84-4193, 30 p.

Washoe Valley, Washoe Co.: "Hydrology of Washoe Valley, Washoe County, Nevada," by F. E. Arteaga; U.S. Geological Survey Open-File Report 84-437, 29 p.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The Geological Survey has published a group of manuals in the series describing techniques 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 concerned with surface water. Each chapter within a section is limited to a narrow field of subject matter, permitting flexibility in revision and publication. Most of the reports listed below are for sale by the U.S. Geological Survey, Eastern Distribution Branch, Text Products Section, 604 S. Pickett St., Alexandria, VA 22304. When ordering, please give the title, book and chapter numbers, 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: Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: Book 3, Chapter A3, 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: Book 3, Chapter A6, 1968. 13 pages.
3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: Book 3, Chapter A8. 1969. 65 pages.
3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: Book 3, Chapter A9. 1982. 44 pages.
3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy. 64 pages. (In press.)
3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: Book 3, Chapter A11. 1969. 22 pages.
3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy. 1983. 53 pages.
3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider. 1983. 46 pages.
3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian. 80 pages. (In press.)
3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed test for self-instruction*, by G. D. Bennett: Book 3, Chapter B2. 1976. 172 pages.
3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: Book 3, Chapter B3. 1980. 106 pages.
3-C1. *Fluvial sediment concepts*, by H. P. Guy: Book 3, Chapter C1, 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves*, by H. C. Riggs: Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations*, by H. C. Riggs: Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: Book 5, Chapter A2. 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by P. E. Greeson and others, editors: Book 5, Chapter A4. 1977. 322 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediment*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: Book 5, Chapter A6. 1982. 181 pages.
5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: Book 5, Chapter C1. 1969. 58 pages.
7-C1. *Finite difference model for aquifer simulation two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: Book 7, Chapter C2. 1978. 90 pages.
7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: Book 7, Chapter C3. 1981. 110 pages.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: Book 8, Chapter A1. 1968. 23 pages.
8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: Book 8, Chapter A2. 1983. 57 pages.
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: Book 8, Chapter B2. 1968. 15 pages.

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

[Letter after station name designates type of data: (d) discharge, (a) altitude or contents, (c) chemical, (b) biological or microbiological, (t) water temperature, (s) sediment, (x) supplemental water-quality data listed separately]

GAGING STATIONS

GAGING STATIONS

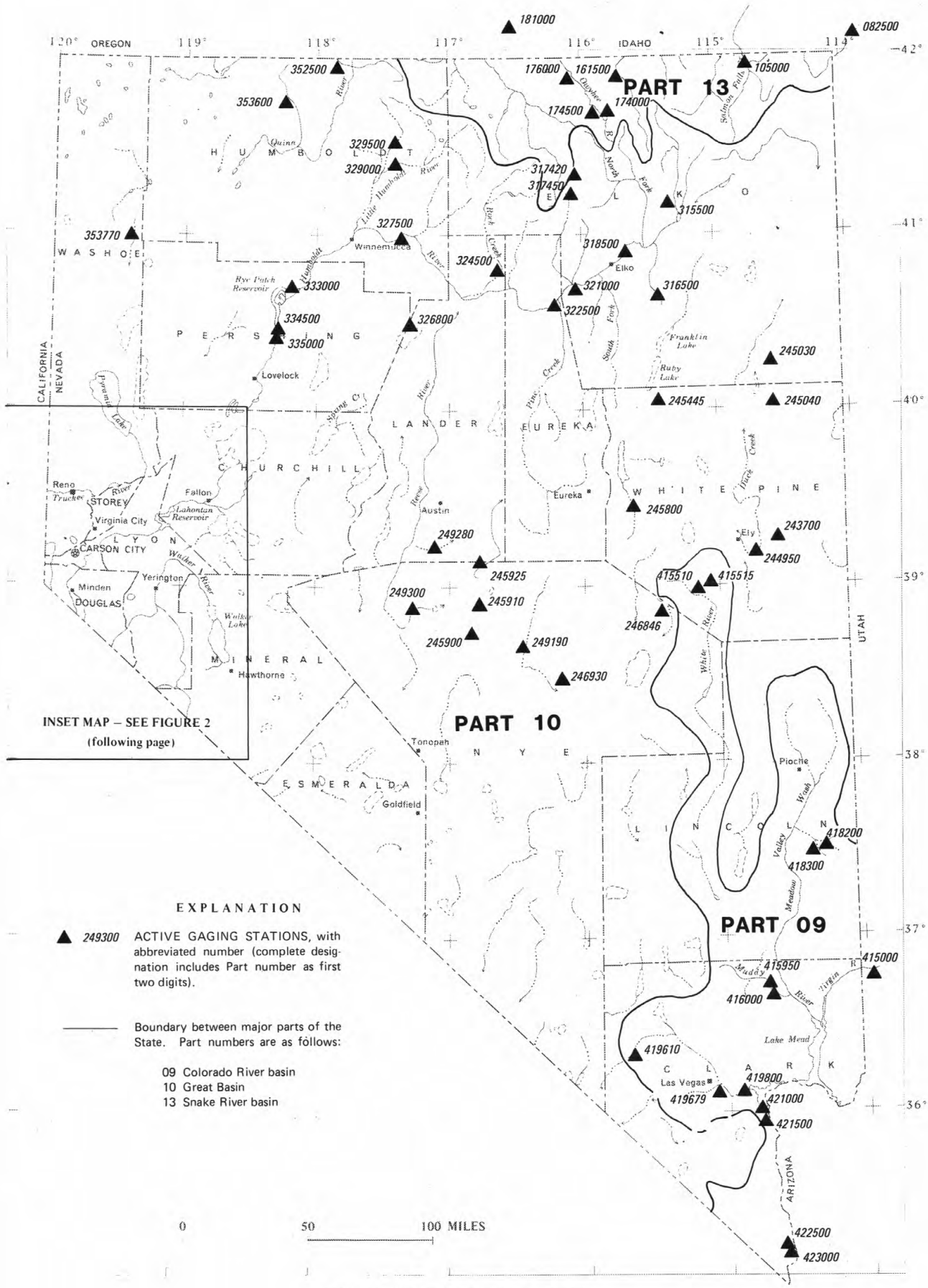

FIGURE 1.–Gaging stations listed in this report.

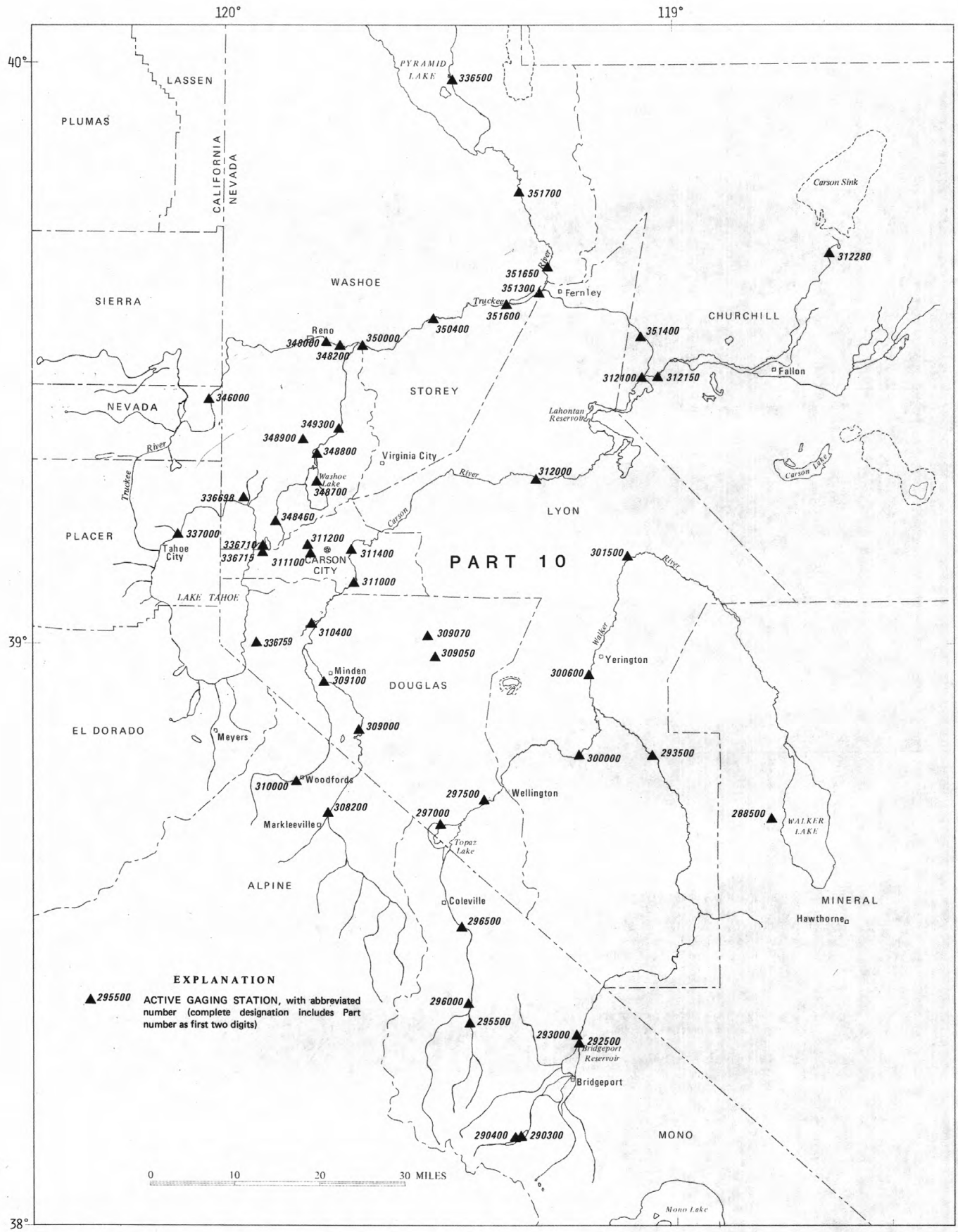

FIGURE 2.–Gaging stations in west-central Nevada.

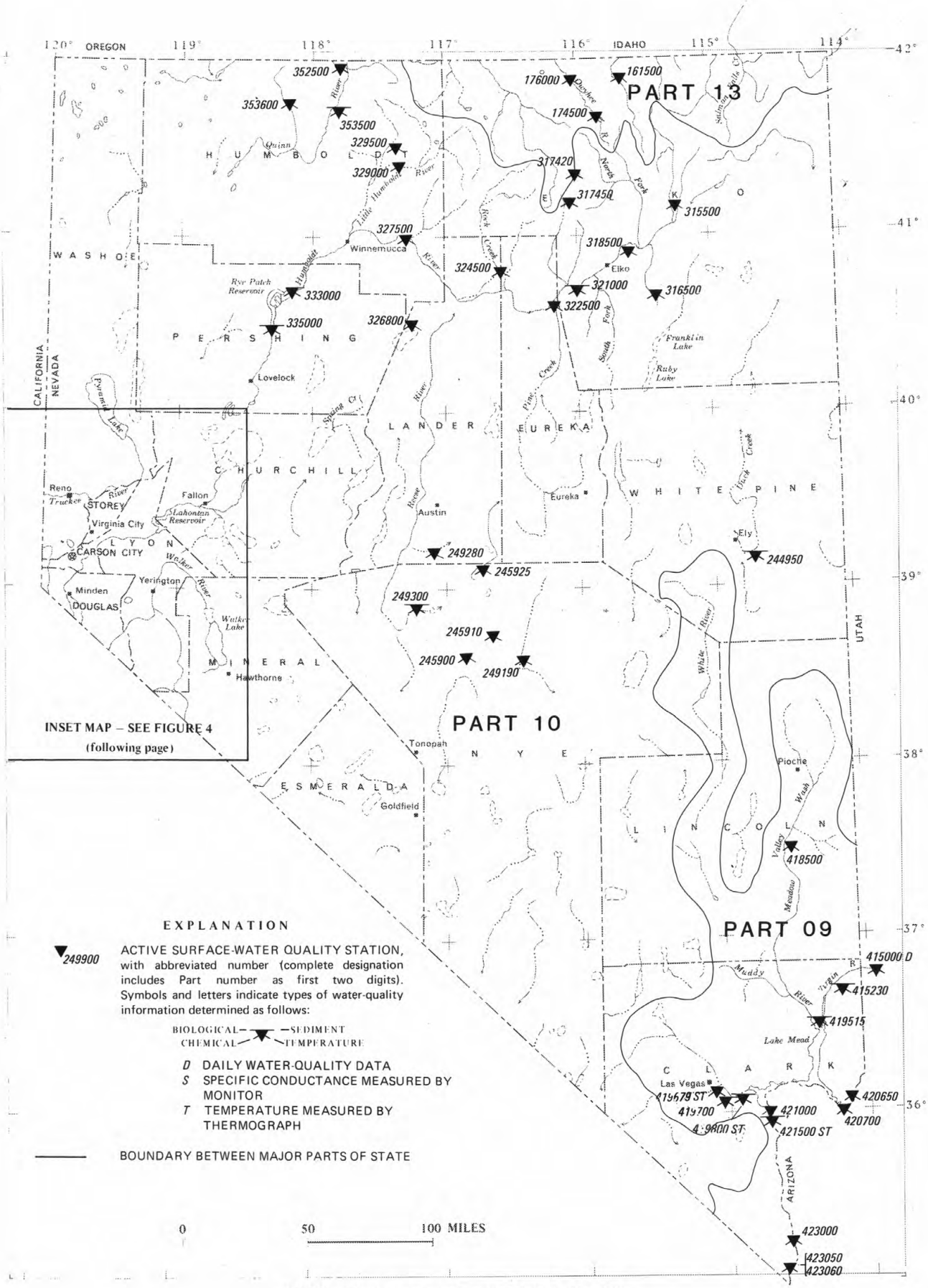

FIGURE 3.–Surface-water quality stations listed in this report.

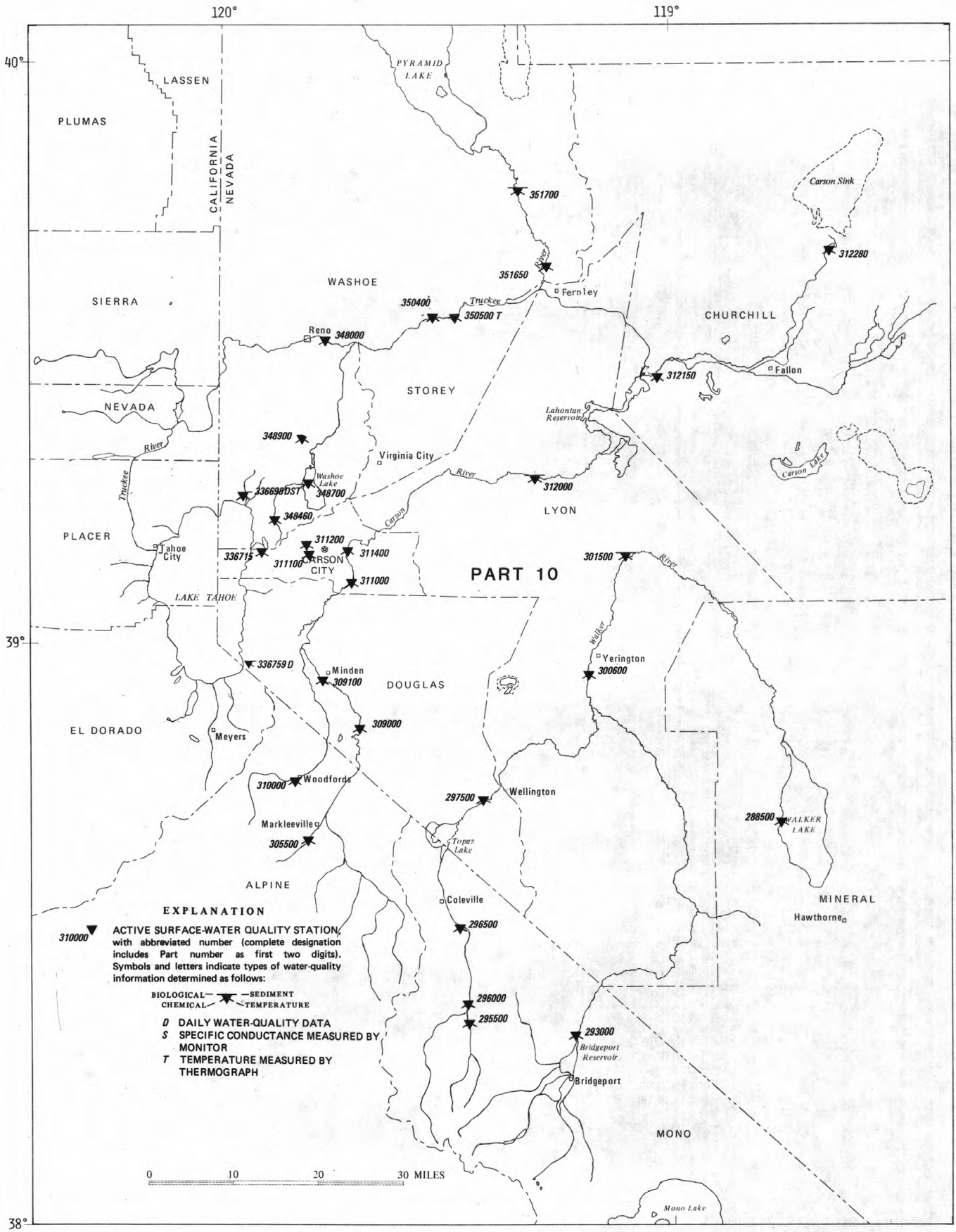

FIGURE 4.—Surface-water quality stations in west-central Nevada.

GAGING-STATION RECORDS

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi downstream from Beaver Dam Wash, 0.4 mi upstream from Littlefield, and 36 mi upstream from waterline of Lake Mead at altitude 1,221 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,090 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft, National Geodetic Vertical Datum of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft upstream, and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at same site at datum 2.00 ft higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at same site at same datum. Oct. 1, 1970, to Aug. 7, 1979, at site 300 ft upstream at same datum.

REMARKS.--Records poor. No gage-height record Nov. 11 to Jan. 31 and Aug. 25 to Sept. 27.

AVERAGE DISCHARGE.--55 years, 243 ft^3/s, 176,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft^3/s Dec. 6, 1966, gage height, 15.66 ft, for site then in use, from rating curve extended above 1,500 ft^3/s on basis of slope-area measurement of peak flow; minimum, 38 ft^3/s May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,940 ft^3/s July 23 (0800 hrs), gage height, 8.72 ft, no other peak above base of 3,000 ft^3/s; minimum daily, 66 ft^3/s July 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	225	383	320	266	258	271	213	115	74	357	124
2	1130	233	400	310	266	262	367	217	110	74	213	120
3	720	233	450	305	270	258	389	198	107	73	164	116
4	389	233	650	302	262	245	378	237	112	72	131	115
5	312	213	360	300	262	240	331	293	107	72	123	112
6	293	195	335	295	253	236	336	307	125	70	117	111
7	298	225	325	290	245	234	336	316	148	69	120	110
8	302	351	315	285	249	232	293	270	134	68	112	110
9	317	385	315	280	237	230	302	270	115	68	110	110
10	320	298	315	275	249	230	262	262	105	66	105	190
11	318	250	315	270	279	230	237	279	102	68	110	500
12	310	235	315	270	249	230	245	293	102	70	177	840
13	290	220	315	270	245	230	262	279	93	75	202	350
14	280	210	315	270	253	230	288	288	83	81	229	220
15	270	210	320	275	258	228	312	293	87	115	367	160
16	250	220	320	280	237	220	275	331	85	112	428	130
17	240	240	320	285	258	205	275	258	87	125	383	110
18	230	590	320	290	271	215	302	229	91	102	389	104
19	210	440	315	295	258	230	288	233	85	148	862	100
20	240	380	315	300	258	230	298	215	83	134	1160	96
21	240	370	315	305	237	230	262	200	81	225	1230	93
22	240	370	320	310	245	230	229	185	85	1240	526	92
23	240	370	325	310	249	228	237	170	81	2150	275	90
24	238	370	360	310	253	215	233	164	83	470	215	89
25	230	400	450	305	253	200	249	148	79	302	190	88
26	218	460	600	305	279	180	320	148	79	298	270	88
27	210	400	980	305	288	195	253	137	79	262	200	87
28	210	385	600	305	253	221	225	155	77	532	160	87
29	213	370	440	305	249	184	225	134	76	810	145	87
30	229	370	350	285	---	195	213	112	75	539	135	89
31	225	---	330	275	---	225	---	125	---	579	130	---
TOTAL	9928	9451	12088	9087	7431	6976	8493	6959	2871	9143	9335	4713
MEAN	320	315	390	293	256	225	283	224	95.7	295	301	157
MAX	1130	590	980	320	288	262	389	331	148	2150	1230	840
MIN	210	195	315	270	237	180	213	112	75	66	105	87
AC-FT	19690	18750	23980	18020	14740	13840	16850	13800	5690	18140	18520	9360

CAL YR 1983 TOTAL 255325 MEAN 700 MAX 3170 MIN 70 AC-FT 506400
WTR YR 1984 TOTAL 96480 MEAN 264 MAX 2150 MIN 66 AC-FT 191400

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to current year.
CHEMICAL ANALYSES: July 1949 to September 1969, once daily (composited); October 1969 to current year, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: October 1947 to current year, once daily.
BIOLOGICAL DATA: October 1977 to September 1979, twice yearly.
MICROBIOLOGICAL DATA: November 1977 to October 1979, monthly.
SEDIMENT DATA: October 1947 to September 1968, once daily; September 1977 to November 1979, monthly.

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-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 was 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. Geological Survey, Carson City, Nev. No daily samples were collected from October 1983 to March 1984.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,650 micromhos Aug. 21, 1966; minimum, 615 micromhos May 27, 28, 30, 31, 1983.
FECAL STREPTOCOCCI: Maximum, 46,000 colonies/100 mL (non-ideal colony count) Jan. 25, 1978; minimum, 110 colonies/100 mL Aug. 28, 1979.
WATER TEMPERATURES: Maximum, 33.5°C July 7, 1953; minimum, 2.0°C Jan. 4, 1949, Jan. 4, 1950, Jan. 4, 5, 1971.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 247,000 mg/L Aug. 14, 1964; minimum, 40 mg/L June 16, 20, 1962.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,500 micromhos Aug. 14; minimum, 1,970 micromhos May 16.
WATER TEMPERATURES: Maximum, 33.0°C June 28; minimum, presumably not measured (see "Remarks").

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
28...	1415	205	2400	8.1	20.0	8.6	101	920	240	78	230
NOV											
30...	1115	362	1950	8.0	10.5	11.2	107	700	180	62	180
DEC											
29...	1200	434	1600	8.0	11.0	--	--	600	160	49	140
JAN											
29...	1230	309	--	8.1	14.0	9.7	100	860	230	70	200
FEB											
26...	1000	291	--	8.1	12.0	9.5	93	890	230	77	260
MAR											
26...	1100	202	2950	8.1	19.5	8.2	98	1000	270	85	290
APR											
26...	1045	319	--	8.1	15.5	--	--	780	210	61	200
MAY											
24...	1015	162	--	--	24.5	7.9	102	1100	290	89	260
JUN											
21...	0930	83	--	7.9	23.5	8.0	101	1400	370	120	260
AUG											
23...	1120	255	--	8.0	26.5	7.4	99	--	--	74	200
SEP											
26...	1230	89	--	7.9	24.0	7.5	95	1400	360	110	300

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

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

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)
OCT											
28...	3	19	271	730	300	.70	20	1860	1800	1030	--
NOV											
30...	3	15	268	550	240	.60	19	1460	1400	1430	--
DEC											
29...	3	12	213	470	180	.50	14	1160	1200	1360	--
JAN											
29...	3	--	--	610	700	--	20	--	--	--	.69
FEB											
26...	4	22	288	650	340	.70	19	--	1800	1390	--
MAR											
26...	4	29	275	860	410	.70	20	2190	2100	1190	--
APR											
26...	3	18	244	580	260	.70	15	1520	1500	1310	--
MAY											
24...	4	25	177	880	340	.80	18	2120	2000	927	--
JUN											
21...	3	28	185	1100	400	1.0	20	2540	2400	569	--
AUG											
23...	--	22	208	--	280	.70	16	--	--	--	--
SEP											
26...	4	28	264	1100	430	1.0	21	2450	2500	589	--

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
29...	.010	.70	.140	.170	.36	.13	.50	.30	1.2	.220	.050
FEB											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	<.010	.50	.040	<.010	.66	--	.70	.30	1.2	.290	.070
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	15.5	21.0	29.0	26.0	26.0	26.5
2						---	16.0	23.0	26.0	28.0	28.0	26.5
3						---	18.0	24.0	26.0	32.0	29.0	28.0
4						---	19.0	23.0	24.0	30.0	29.0	27.5
5						---	17.0	23.0	26.0	30.0	30.0	28.0
6						---	17.0	22.5	25.0	30.0	26.0	26.0
7						---	18.0	21.5	26.0	30.0	28.0	26.0
8						---	18.0	23.0	25.0	28.0	30.0	27.0
9						---	18.5	23.0	---	29.0	29.0	27.0
10						---	19.0	25.0	25.0	30.5	28.0	25.0
11						---	21.0	25.5	26.0	29.0	29.0	24.0
12						---	21.0	26.0	26.0	29.0	29.0	25.0
13						---	21.5	25.0	26.0	31.0	30.5	25.0
14						---	21.5	24.0	28.0	---	25.0	25.0
15						---	22.0	21.0	27.0	25.0	28.0	25.0
16						---	22.5	23.5	27.5	30.0	28.0	25.0
17						---	19.5	23.0	29.5	31.0	29.0	27.0
18						---	19.0	26.0	25.0	29.0	27.0	27.5
19						---	17.5	26.0	25.0	29.0	24.0	26.0
20						18.0	17.0	26.0	25.0	28.0	25.0	25.0
21						18.0	20.0	26.0	26.0	25.5	26.0	24.0
22						18.0	22.0	28.0	28.5	25.0	24.0	23.0
23						18.0	23.0	27.5	28.0	26.0	24.0	23.0
24						18.0	21.0	26.0	26.0	29.0	24.5	22.0
25						19.0	16.0	28.0	29.0	29.0	26.0	22.0
26						18.0	17.0	27.0	29.0	28.0	27.0	25.0
27						17.0	18.0	29.0	31.0	26.0	25.0	25.0
28						17.0	18.0	---	33.0	---	25.0	25.0
29						15.5	20.0	28.0	29.0	26.0	27.0	25.0
30						17.0	20.5	25.0	29.0	26.0	26.0	25.0
31						15.0	---	26.0	---	27.5	25.0	---
MEAN						17.5	19.0	25.0	27.0	28.5	27.0	25.5
MAX						19.0	23.0	29.0	33.0	32.0	30.5	28.0
MIN						15.0	15.5	21.0	24.0	25.0	24.0	22.0

WTR YR 1984 MEAN 25.0 MAX 33.0 MIN 15.0

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	2450	2570	3040	3180	2680	3150
2						---	2500	2570	3080	3290	2720	3260
3						---	2500	2570	3040	3290	2920	3210
4						---	2500	2350	3040	3330	3050	3260
5						---	2580	2080	3040	3290	3190	3150
6						---	2580	2080	3140	3290	3250	3260
7						---	2580	2080	2810	3180	3190	3150
8						---	2620	---	2890	3180	3190	3150
9						---	2700	2080	3040	3120	3190	3210
10						---	2700	2040	3080	3220	3190	3210
11						---	2830	2080	3170	3180	3190	2940
12						---	2750	2130	3080	3220	3150	2600
13						---	2750	2170	3080	3220	3150	3070
14						---	2700	2080	3080	---	3500	3020
15						---	2500	2080	3040	2700	3400	3150
16						---	2290	1970	3230	3120	3400	3260
17						---	2250	2170	3160	3120	2550	3150
18						---	2160	2390	3230	3120	2760	3110
19						---	2250	2440	3230	3430	---	3360
20						2720	2200	2570	3230	3220	3050	3420
21						2630	2370	2570	3230	3220	2880	3360
22						2630	2450	2660	3140	3180	3000	3260
23						2630	2450	2730	3170	2950	---	3320
24						2630	2540	2790	3170	3290	---	3320
25						2970	2410	2790	3080	3290	2680	3320
26						2970	2160	2790	3080	3330	2680	3260
27						2930	2370	2880	3170	3290	3050	3320
28						2720	2500	2970	3080	---	3050	3320
29						2890	2540	3010	3170	2950	3150	3320
30						3000	2620	3120	3170	2580	3190	3260
31						2840	---	3120	---	2540	3290	---
MEAN						2800	2490	2460	3110	3150	3060	3210
MAX						3000	2830	3120	3230	3430	3500	3420
MIN						2630	2160	1970	2810	2540	2550	2600

WTR YR 1984 MEAN 2900 MAX 3500 MIN 1970

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1977 to current year.
CHEMICAL ANALYSES, MICROBIOLOGICAL AND SEDIMENT DATA: January 1978 to September 1980, monthly; October 1980 to current year, every two months.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: December 1977 to April 1978, monthly; May 1978 to September 1982, once daily; October 1982 to current year, every two months.
BIOLOGICAL DATA: March 1978 to September 1980, monthly (seasonal); October 1980 to September 1981, every two months.

REMARKS.--Listed frequencies of measurement apply except during summer periods of no flow.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 5,260 micromhos Sept. 16, 1978; minimum, 770 micromhos May 26, 1983.
PHYTOPLANKTON: Maximum, 8,200 cells/mL May 28, 1981; minimum, 27 cells/mL Mar. 30, 1978.
FECAL STREPTOCOCCI: Maximum, 41,000 colonies/100 mL (non-ideal colony count) July 29, 1982; minimum, 100 colonies/100 mL (non-ideal colony count) June 28, 1979.
WATER TEMPERATURES: Maximum, 36.5°C July 31, 1982; minimum, 3.5°C Jan. 1, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 12,000 mg/L July 29, Sept. 29, 1982; minimum, 166 mg/L Sept. 27, 1978.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
30...	1400	383	2100	8.3	12.5	140	10.5	104	25	240	2700
JAN											
29...	1600	331	--	8.3	14.0	140	9.7	99	16	--	--
MAR											
26...	1500	152	3120	8.2	18.0	70	8.4	96	--	--	--
MAY											
24...	1410	103	--	8.2	29.5	39	6.8	95	32	--	--
SEP											
26...	1600	55	--	8.0	29.0	400	7.0	96	60	K950	2400

K: NON-IDEAL COLONY COUNT.

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

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

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 30...	820	210	70	200	3	17	233	610	280	.60	19
JAN 29...	840	210	76	220	3	16	236	690	300	.70	21
MAR 26...	1000	250	96	310	4	27	205	960	450	.80	22
MAY 24...	1100	260	110	320	4	29	172	1100	440	.80	21
SEP 26...	1400	340	140	370	4	33	174	1400	520	.90	23

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)
NOV 30...	1590	1500	1640	.59	.120	1.3	.460	.010	.020	40	7
JAN 29...	1700	1700	1520	.60	.090	.60	.260	.010	.010	--	--
MAR 26...	2390	2200	981	.48	.050	.50	.100	<.010	.020	10	5
MAY 24...	2470	2400	687	.22	.060	1.0	.080	.010	.020	10	3
SEP 26...	2990	2900	444	.45	.140	1.3	.600	.010	.040	20	4

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 30...	--	<10	--	<1	--	--	100	--	260	10	.2
JAN 29...	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	<100	10	1	<1	<1	6	50	<1	450	20	.2
MAY 24...	<100	<10	<1	<1	<1	4	120	2	460	<10	<.1
SEP 26...	<100	<10	<1	<1	1	3	90	6	550	20	<.1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 30...	3	--	1	--	2600	3	20	2240	2320	32
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 26...	2	2	<1	<1	3800	8	40	--	--	--
MAY 24...	4	<1	<1	<1	4600	7	30	395	110	39
SEP 26...	3	2	<1	<1	5000	12	10	2260	336	76

09415510 PRESTON BIG SPRING NEAR PRESTON, NV

LOCATION.--Lat 38°55'38", long 115°04'55", in SE¼ sec.2, T.22 S., R.61 E., in White Pine County and 1.0 mi northwest of Preston, NV.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,700 ft, from topographic map. Prior to Dec. 14, 1983, at site 0.25 mile downstream at different datum.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8.6 ft^3/s Dec. 1-14, 1983; minimum daily, 6.7 ft^3/s Mar. 18, 20, 31, and Apr. 2-5, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8.0 ft^3/s Aug. 22-28, and 31; minimum daily, 6.7 ft^3/s Mar. 18, 20, 31, and Apr. 2-5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	7.3	7.4	6.9	6.9	6.9	6.8	6.9	7.1	7.6	7.4	7.9
2	7.4	7.3	7.4	6.8	6.9	6.9	6.7	6.9	7.1	7.5	7.4	7.9
3	7.4	7.3	7.4	6.9	7.0	6.9	6.7	6.9	7.1	7.5	7.4	7.9
4	7.4	7.3	7.4	6.9	7.0	6.9	6.7	6.9	7.2	7.4	7.4	7.9
5	7.4	7.3	7.4	6.9	7.0	6.9	6.7	6.9	7.2	7.4	7.4	7.9
6	7.3	7.3	7.4	6.9	7.0	6.9	6.8	6.9	7.2	7.4	7.5	7.9
7	7.3	7.3	7.4	6.9	7.0	6.9	6.8	6.9	7.1	7.4	7.5	7.8
8	7.3	7.3	7.4	6.9	7.0	6.9	6.8	6.9	7.2	7.4	7.5	7.8
9	7.3	7.3	7.4	7.0	7.0	6.9	6.8	7.0	7.2	7.4	7.5	7.8
10	7.3	7.3	7.4	7.0	7.0	6.9	6.9	7.0	7.3	7.4	7.6	7.7
11	7.3	7.3	7.4	7.0	7.0	6.9	6.9	7.0	7.3	7.3	7.6	7.8
12	7.3	7.3	7.5	7.0	7.0	6.8	6.9	7.0	7.4	7.3	7.7	7.9
13	7.3	7.3	7.5	7.0	7.0	6.8	7.0	7.0	7.5	7.4	7.7	7.8
14	7.3	7.3	7.4	7.0	7.0	6.8	7.0	7.0	7.6	7.4	8.0	7.8
15	7.3	7.3	7.4	7.0	7.0	6.8	7.0	7.0	7.7	7.3	8.0	7.7
16	7.3	7.3	7.3	7.0	7.0	6.8	7.0	7.0	7.8	7.3	8.0	7.7
17	7.3	7.3	7.3	7.0	7.0	6.8	7.1	7.0	7.8	7.3	7.9	7.7
18	7.3	7.4	7.3	7.0	7.0	6.7	7.0	7.0	7.8	7.3	7.9	7.7
19	7.3	7.4	7.3	7.0	7.0	6.8	7.0	6.9	7.8	7.5	7.9	7.6
20	7.3	7.4	7.2	7.0	7.0	6.7	7.0	6.9	7.8	7.4	8.0	7.6
21	7.3	7.4	7.2	7.0	7.0	6.8	6.9	6.9	7.8	7.6	7.9	7.6
22	7.3	7.4	7.2	7.0	7.0	6.8	6.9	6.9	7.9	7.6	8.0	7.5
23	7.3	7.4	7.1	7.0	7.0	6.8	6.9	6.9	7.9	7.4	8.0	7.5
24	7.3	7.4	7.1	7.0	7.0	6.8	6.9	6.9	7.6	7.3	8.0	7.5
25	7.3	7.4	7.1	7.0	7.0	6.8	6.9	6.9	7.6	7.4	8.0	7.5
26	7.3	7.4	7.0	6.9	7.0	6.9	6.9	6.9	7.6	7.4	8.0	7.6
27	7.3	7.4	7.0	7.0	7.0	6.8	6.9	6.9	7.6	7.4	8.0	7.6
28	7.3	7.4	7.0	6.9	6.9	6.8	6.9	7.0	7.5	7.3	8.0	7.6
29	7.3	7.4	7.0	6.9	6.9	6.8	6.9	7.3	7.6	7.3	7.9	7.6
30	7.3	7.4	6.9	7.0	---	6.8	6.9	7.1	7.6	7.3	7.9	7.6
31	7.3	---	6.9	6.9	---	6.7	---	7.1	---	7.4	8.0	---
TOTAL	226.8	220.3	225.1	215.7	202.6	211.7	206.6	215.8	224.9	229.3	241.0	231.4
MEAN	7.32	7.34	7.26	6.96	6.99	6.83	6.89	6.96	7.50	7.40	7.77	7.71
MAX	7.4	7.4	7.5	7.0	7.0	6.9	7.1	7.3	7.9	7.6	8.0	7.9
MIN	7.3	7.3	6.9	6.8	6.9	6.7	6.7	6.9	7.1	7.3	7.4	7.5
AC-FT	450	437	446	428	402	420	410	428	446	455	478	459

CAL YR 1983	TOTAL	2765.2	MEAN	7.58	MAX	8.4	MIN	6.9	AC-FT	5480
WTR YR 1984	TOTAL	2651.2	MEAN	7.24	MAX	8.0	MIN	6.7	AC-FT	5260

09415515 WATER CANYON CREEK NEAR PRESTON, NV

LOCATION.--Lat 38°59'22", long 114°57'30", in SE¼ sec.1, T.21 S., R.62 E., White Pine County, Hydrologic Unit 15010011, on right bank and 7 mi northeast of Preston, NV.

DRAINAGE AREA.--10.0 mi^2.

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft^3/s Aug. 16, 1984, gage-height, 5.92 ft; minimum daily, 2.4 ft^3/s, Jan. 16, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90 ft^3/s, Aug. 16, gage height 5.92 ft; minimum daily 2.4 ft^3/s, Jan. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	4.2	4.2	2.7	2.6	2.7	2.7	5.3	3.4	4.0	6.5	5.0
2	7.4	4.2	3.9	2.6	2.6	2.6	2.6	4.1	3.4	3.9	5.4	5.1
3	7.1	4.3	3.9	2.6	2.7	2.7	2.6	4.1	3.4	4.1	4.7	5.3
4	7.1	4.4	4.0	2.7	2.6	2.7	2.8	4.0	3.3	4.3	4.6	5.4
5	7.4	4.3	4.1	2.6	2.6	2.7	2.8	3.9	3.4	4.9	4.6	5.4
6	7.1	4.2	3.8	2.7	2.6	2.6	2.9	3.8	3.4	5.4	4.6	5.4
7	6.8	4.0	3.7	2.8	2.6	2.6	2.9	3.8	3.4	5.5	4.8	5.4
8	6.8	3.5	3.6	2.8	2.6	2.7	3.0	3.8	3.3	5.3	5.0	5.4
9	6.8	4.0	3.7	2.7	2.6	2.8	2.9	3.7	3.3	4.5	5.0	5.5
10	6.1	4.1	3.9	2.6	2.5	2.8	3.1	3.7	3.4	4.5	4.8	5.6
11	6.1	3.9	3.7	2.6	2.8	2.8	3.1	3.6	3.4	4.6	8.7	5.9
12	6.4	3.9	3.6	2.6	2.6	2.7	3.0	3.6	3.4	4.7	4.8	5.0
13	6.1	4.0	3.6	2.6	2.6	2.8	3.0	3.5	3.4	4.7	4.9	4.1
14	6.1	4.0	3.4	2.6	2.7	3.0	3.1	3.4	3.4	5.0	4.9	4.0
15	6.4	4.0	3.4	2.5	2.9	2.9	3.4	3.2	3.4	4.8	5.8	4.0
16	6.4	3.6	3.3	2.4	2.8	2.9	3.5	3.3	3.4	5.4	15	4.0
17	5.6	3.4	3.2	2.5	2.7	2.9	3.7	3.3	3.5	5.7	6.5	3.9
18	5.6	3.7	3.1	2.8	2.5	2.8	3.5	3.2	3.5	6.4	5.7	3.9
19	5.8	3.9	3.1	2.9	2.7	2.7	3.4	3.2	3.4	5.5	6.2	3.9
20	5.6	3.9	3.1	2.8	2.8	2.8	3.3	3.2	3.7	5.5	6.9	4.5
21	5.8	4.1	3.1	2.8	2.8	2.9	3.6	3.5	4.0	5.4	5.9	4.6
22	5.6	4.3	3.2	2.7	3.0	2.8	3.7	3.4	4.1	5.3	5.3	4.7
23	5.8	4.3	3.1	2.7	3.2	2.9	3.8	3.2	4.4	5.9	5.0	4.7
24	5.3	4.1	2.9	2.8	2.7	2.9	3.6	3.1	5.4	6.5	5.0	4.9
25	5.3	4.5	2.7	2.7	2.6	2.8	3.3	3.2	5.3	6.4	5.0	4.9
26	5.0	4.4	2.9	2.6	2.5	2.8	3.3	3.2	5.3	6.7	5.0	4.8
27	5.0	4.4	3.0	2.7	2.5	2.7	3.4	3.2	4.1	5.6	5.0	4.8
28	4.4	4.3	2.9	2.7	2.6	2.7	3.5	3.3	4.1	4.9	4.8	4.7
29	4.2	4.3	3.0	2.7	2.6	2.6	4.0	3.4	4.2	4.5	4.9	4.6
30	3.8	4.2	2.6	2.6	---	2.6	4.2	3.4	4.4	4.9	4.9	4.6
31	4.0	---	2.7	2.6	---	2.6	---	3.4	---	5.2	5.0	---
TOTAL	185.0	122.4	104.4	82.7	77.6	85.5	97.7	110.0	113.5	160.0	175.2	144.0
MEAN	5.97	4.08	3.37	2.67	2.68	2.76	3.26	3.55	3.78	5.16	5.65	4.80
MAX	3.1	4.5	4.2	2.9	3.2	3.0	4.2	5.3	5.4	6.7	15	5.9
MIN	3.8	3.4	2.6	2.4	2.5	2.6	2.6	3.1	3.3	3.9	4.6	3.9
AC-FT	367	243	207	164	154	170	194	218	225	317	348	286

WTR YR 1984 TOTAL 1458.0 MEAN 3.98 MAX 15 MIN 2.4 AC-FT 2890

09415950 MUDDY RIVER POWER DIVERSION NEAR MOAPA, NV

LOCATION.--Lat 36°42'42", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank of Muddy River, 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, and 9.5 mi upstream from Meadow Valley Wash.

PERIOD OF RECORD.--October 1977 to current year. Prior to October 1977, discharge included in daily flow figures of Muddy River near Moapa (station 09416000).

GAGE.--Water-stage recorder and Sparling meter.

REMARKS.--Flow is pumped 100 ft upstream from Muddy River near Moapa (09416000) for powerplant cooling.

COOPERATION.--Record of flow furnished by Nevada Power Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13 ft^3/s Nov. 10, 1981 and March 24, 1980; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9.4 ft^3/s Mar. 28; no flow at times.

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

TOTAL	4.60	126.7	108.90	85.3	103.90	107.80	117.10	34.50	65.20	39.10	31.70	43.10
MEAN	.15	4.22	3.51	2.75	3.58	3.48	3.90	1.11	2.17	1.26	1.02	1.44
MAX	2.3	4.3	6.6	8.9	8.2	9.4	8.1	6.8	3.1	2.9	2.2	5.7
MIN	.00	4.0	.00	1.2	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	9.1	251	216	169	206	214	232	68	129	78	63	85

CAL YR 1983	TOTAL	865.97	MEAN	2.37	MAX	9.0	MIN	.00	AC-FT	1720
WTR YR 1984	TOTAL	867.90	MEAN	2.37	MAX	9.4	MIN	.00	AC-FT	1720

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, 9.5 mi upstream from Meadow Valley Wash, and 26 mi upstream from high-water line of Lake Mead at altitude 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--3,820 mi^2, approximately, of which about 40 mi2 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.

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

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 1,710 ft, from river-profile map. October 21, 1944, to September 30, 1948, water-stage recorder at datum 0.03 ft higher.

REMARKS.--Records good. Diversions for irrigation above station. Beginning Oct. 1, 1976, records do not include part-time diversion about 100 ft upstream, for cooling of powerplant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

AVERAGE DISCHARGE.--39 years (1913-15, 1916-18, 1928-31, 1944-76), 41.5 ft^3/s, 32,670 acre-ft/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 FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft^3/s Sept. 7, 1967, gage height, 12.35 ft; minimum, 23 ft^3/s Apr. 30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft^3/s July 22, gage height, 9.52 ft; minimum daily, 28 ft^3/s May 30, 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	37	39	43	39	35	33	36	30	71	49	30
2	45	37	39	43	39	37	34	36	31	39	45	32
3	39	37	37	42	39	39	31	35	32	30	32	34
4	38	35	39	42	39	39	34	35	32	30	30	34
5	39	37	41	42	39	37	36	35	35	30	32	34
6	39	38	40	42	39	34	35	36	35	30	31	34
7	39	36	39	42	38	34	35	37	35	31	30	33
8	40	37	41	42	38	34	36	36	35	31	33	33
9	42	39	41	42	38	34	35	35	36	30	32	34
10	43	41	42	41	38	37	37	35	36	30	32	34
11	43	40	42	41	38	39	35	35	33	28	37	34
12	43	39	39	41	38	35	35	35	29	30	36	235
13	43	40	38	41	38	38	36	35	29	29	32	86
14	43	37	39	41	37	37	37	36	31	29	31	82
15	44	35	38	41	37	34	38	36	33	31	37	48
16	44	36	41	40	37	36	35	35	33	31	33	40
17	44	38	44	40	37	38	33	36	33	30	32	39
18	44	41	44	40	37	39	35	36	31	29	32	38
19	44	38	42	40	37	39	34	37	32	30	82	35
20	44	37	39	41	37	39	34	37	30	33	37	32
21	44	37	42	40	36	38	33	37	30	33	37	33
22	42	36	42	40	36	38	33	36	30	304	37	32
23	43	34	40	40	36	39	35	36	32	162	36	32
24	42	34	42	40	36	42	32	36	32	77	35	32
25	41	40	44	40	36	40	34	37	30	70	34	32
26	41	34	43	39	36	40	35	36	32	124	33	32
27	41	33	42	40	38	36	32	35	33	56	31	32
28	41	34	42	40	39	31	35	34	33	39	29	30
29	41	40	42	40	37	33	35	30	34	78	30	36
30	42	38	42	40	---	32	30	28	34	81	30	39
31	39	---	42	40	---	30	---	28	---	75	30	---
TOTAL	1295	1115	1267	1266	1039	1133	1032	1087	971	1751	1097	1331
MEAN	41.8	37.2	40.9	40.8	37.6	36.5	34.4	35.1	32.4	56.5	35.4	44.4
MAX	45	41	44	43	39	42	38	37	36	304	82	235
MIN	38	33	37	39	36	30	30	28	29	28	29	30
AC-FT	2570	2210	2510	2510	2160	2250	2050	2160	1930	3470	2180	2640

CAL YR 1983	TOTAL	14517	MEAN	39.8	MAX	96	MIN	31	AC-FT	28790
WTR YR 1984	TOTAL	14434	MEAN	39.4	MAX	304	MIN	28	AC-FT	28630

09418200 MATHEWS CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°29'55", long 114°13'20", in E½ sec.24, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on right bank at downstream end of stilling basin at outlet of conduit through flood-control dam, 2.5 mi upstream from mouth, and 17 mi southeast of Caliente.

DRAINAGE AREA.--34 mi^2, approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD.--June 1958 to September 1984 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft, National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records poor. 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.

AVERAGE DISCHARGE.--26 years, 0.853 ft^3/s, 618 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 206 ft^3/s Dec. 29, 1965, gage height, 11.85 ft; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s July 22, gage height, 8.38 ft; no flow most of the year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67	.08	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.08	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.05	1.73	.00
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.00
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67	.58	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.1	3.4	.00

CAL YR 1983	TOTAL	1673.07	MEAN	4.58	MAX	154	MIN	.00	AC-FT	3320
WTR YR 1984	TOTAL	2.78	MEAN	.01	MAX	.67	MIN	.00	AC-FT	5.5

09418300 PINE CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°28'40", long 114°19'00", in sec.30, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on left bank 100 ft downstream from outlet of flood-control dam, 4 mi upstream from mouth, and 14 mi southeast of Caliente.

DRAINAGE AREA.--45 mi^2, approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD.--June 1958 to September 1984 (discontinued).

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

REMARKS.--Records fair. 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.

AVERAGE DISCHARGE.--26 years, 1.99 ft^3/s, 1,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 303 ft^3/s Mar. 3, 1978, gage height, 4.12 ft; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft^3/s July 30, gage height, 2.92 ft; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.9	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	7.8	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.3	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	16.04	2.88	.00
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.09	.00
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.8	1.2	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	32	5.7	.00

CAL YR 1983	TOTAL	3209.32	MEAN	8.79	MAX	278	MIN	.00	AC-FT	6370
WTR YR 1984	TOTAL	18.92	MEAN	.05	MAX	7.8	MIN	.00	AC-FT	38

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to January 1974, April 1979 to current year (published as Muddy River below Overton, sta. no. 09419510, October 1969 to January 1974).
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND WATER TEMPERATURES: October 1969 to January 1974, quarterly; April 1979 to September 1980, monthly; October 1980 to current year, every two months.
BIOLOGICAL DATA: May 1979 to September 1980, monthly (seasonal); October 1980 to September 1981, every two months.
MICROBIOLOGICAL AND SEDIMENT DATA: April 1979 to September 1980, monthly; October 1980 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,560 micromhos Jan. 19, 1982; minimum, 900 micromhos Mar. 3, 1983.
PHYTOPLANKTON: Maximum, 12,000 cells/mL Mar. 12, 1980, and Sept. 14, 1981; minimum, less than 1 cell/mL July 17, 1979.
FECAL STREPTOCOCCI: Maximum, 86,000 colonies/100 mL July 14, 1982; minimum, 500 colonies/100 mL (non-ideal colony count) Jan. 13, 1981.
WATER TEMPERATURES: Maximum, 28.0°C July 1, 1971, July 15, 1981, and May 25, 1984; minimum, 7.0°C Jan. 6, 1970, and Jan. 17, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 8,180 mg/L Mar. 3, 1983 (hand-dipped sample; not depth integrated); minimum, 121 mg/L Aug. 13, 1980.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
09...	1230	5.0	2600	8.3	14.5	45	9.8	101	26	2200	6900
MAY											
25...	1330	3.0	--	8.2	28.0	32	--	--	36	--	--
SEP											
27...	1530	4.0	--	8.2	25.0	95	7.4	94	40	700	970

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

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

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 09...	820	160	100	330	5	23	345	900	230	3.3	43
MAY 25...	930	190	110	340	5	32	347	940	240	3.5	43
SEP 27...	--	--	120	340	--	29	323	970	240	3.0	42

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)
NOV 09...	2110	2000	28	.48	.110	1.1	.170	.090	.080	<10	52
MAY 25...	2210	2100	18	<.10	.080	.60	.190	.050	.040	10	60
SEP 27...	2180	--	24	.39	.110	.60	.170	.040	.040	20	55

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 09...	100	<10	1	3	1	2	50	1	390	130	<.1
MAY 25...	200	<10	2	<1	<1	2	50	<1	440	60	.1
SEP 27...	<100	<10	<1	--	<1	2	70	<1	420	70	<.1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	22	<1	1	<1	3800	9	10	341	4.6	--
MAY 25...	23	<1	<1	<1	4500	10	20	208	1.7	--
SEP 27...	22	2	1	<1	3800	15	<10	437	4.7	79

09419610 LEE CANYON NEAR CHARLESTON PARK, NV

LOCATION.--Lat 36°20'25", long 115°39'00", in NE¼ sec.35, T.18 S., R.56 E., Clark County, Hydrologic Unit 15010015, in Toiyabe National Forest, on right bank 50 ft above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi north of Charleston Park.

DRAINAGE AREA.--9.20 mi^2.

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, 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 higher.

REMARKS.--Records fair. 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.

AVERAGE DISCHARGE.--21 years, 0.024 ft^3/s, 17 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft^3/s July 28, 1969, gage height, 3.60 ft, on basis of slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous discharge, 17 ft^3/s Sept. 19, gage height, 1.02 ft; no flow most of the year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.90
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.9
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.2	.00	3.8

CAL YR 1983	TOTAL	.00	MEAN	.00	MAX	.00	MIN	.00	AC-FT	.00
WTR YR 1984	TOTAL	2.00	MEAN	.00	MAX	1.9	MIN	.00	AC-FT	4.0

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW¼SE¼ sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank 500 ft west of Hollywood Blvd., and 1.5 mi northeast of East Las Vegas Civic Center.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1979 to September 1983, November 1983 to May 1984, and September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 1,640 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft^3/s July 2, 1980, gage height, 5.15 ft; minimum daily, 45 ft^3/s Aug. 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, date unknown, gage height, unknown; minimum daily, 87 ft^3/s March 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		118	116	118	116	103	120	93				125
2		113	114	118	112	107	117	91				123
3		110	113	119	105	119	106	97				117
4		110	118	116	112	114	107	101				132
5		110	112	114	113	109	103	101				138
6		115	106	116	121	105	106	108				144
7		115	105	116	117	104	105	105				137
8		115	105	116	121	107	107	106				115
9		102	105	114	123	108	111	105				119
10		101	106	116	124	107	102	103				164
11		106	105	117	125	115	106	106				227
12		106	109	118	124	110	103	103				140
13		106	111	117	123	110	101	106				120
14		108	111	118	118	130	107	118				113
15		109	106	120	108	87	105	122				116
16		115	107	119	120	118	106	122				129
17		116	106	124	124	117	105	119				131
18		117	105	122	122	120	113	122				107
19		118	108	88	118	115	111	123				153
20		119	110	112	116	113	118	121				159
21		121	108	114	112	118	117	122				152
22		116	108	124	111	120	115	120				141
23		108	109	122	109	117	113	92				140
24		106	107	122	111	118	112	114				135
25		119	135	118	109	118	112	116				125
26		124	129	112	117	115	114	105				110
27		122	115	119	118	116	113	104				108
28		116	114	114	109	112	114	102				114
29		114	113	118	102	101	111	104				113
30		112	117	116	---	118	104	97				115
31		---	117	117	---	118	---	97				---
TOTAL		3387	3455	3614	3360	3489	3284	3345				3962
MEAN		113	111	117	116	113	109	108				132
MAX		124	135	124	125	130	120	123				227
MIN		101	105	88	102	87	101	91				107
AC-FT		6720	6850	7170	6660	6920	6510	6630				7860

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1979 to current year.
SPECIFIC CONDUCTANCES: May to July and September 1979, weekly; October 1979 to current year, hourly.
WATER TEMPERATURES: May 1979 to July 1980, monthly; August 1980 to current year, hourly.

INSTRUMENTATION.--Specific-conductance recorder from May 1979 to current year. Temperature recorder since August 1980.

REMARKS.--Daily specific-conductance data prior to October 1979 are questionable, and therefore not published. Periods of no record for specific conductance and water temperature due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 3,460 micromhos Feb. 11, 1980; minimum, 940 micromhos Mar. 6, 1981.
WATER TEMPERATURES: Maximum, 30.5°C July 14, 1981; minimum, 9.5°C Feb. 11, 1982.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 2,390 micromhos Mar. 1, 2; minimum, 1,310 micromhos Oct. 1.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 12, 13; minimum, 13.5°C Jan. 19.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	22.0	23.0	22.5	19.0	18.0	18.0	17.5	17.0	16.5	18.5	16.0
2	24.5	22.5	23.0	22.0	19.5	19.0	17.5	17.0	17.0	16.5	19.0	16.5
3	24.5	23.0	22.5	22.0	19.0	18.0	17.0	16.5	17.5	16.5	19.0	17.5
4	24.5	23.5	22.5	22.0	18.0	17.0	17.5	16.5	17.5	16.0	18.5	17.5
5	24.0	23.0	22.5	22.0	17.0	16.0	18.0	17.0	18.0	16.5	18.5	16.5
6	24.5	23.0	23.0	22.0	17.0	16.5	18.0	17.0	18.0	16.5	19.5	17.0
7	25.0	24.0	23.0	22.0	17.0	16.5	18.0	17.0	17.5	17.0	20.0	18.5
8	25.5	24.5	22.5	21.0	17.5	16.5	18.0	17.0	18.0	17.0	20.0	19.0
9	25.0	24.5	21.5	20.5	18.0	17.0	18.0	17.0	17.5	17.0	19.0	16.5
10	25.5	24.5	21.5	21.0	18.0	17.0	18.0	17.0	17.0	16.0	19.5	17.5
11	25.0	24.0	21.0	20.0	18.0	18.0	17.0	17.0	16.5	15.5	20.0	18.5
12	24.0	23.0	21.5	20.5	18.0	17.0	17.0	16.5	17.5	16.0	19.5	18.5
13	23.5	23.0	21.0	20.5	17.5	17.0	17.0	16.5	17.5	16.5	20.0	18.0
14	23.0	22.0	20.5	20.0	18.0	17.0	17.0	16.0	17.5	16.5	20.0	19.0
15	23.0	22.0	20.5	19.5	18.0	17.0	16.5	16.5	17.0	16.0	19.5	18.0
16	23.5	22.0	20.0	19.0	18.0	17.5	16.0	15.0	16.5	16.0	19.5	18.5
17	23.5	22.5	20.5	19.5	18.5	17.0	16.0	15.0	16.0	15.0	19.5	18.5
18	23.5	22.5	20.5	19.5	18.0	17.5	16.0	15.5	16.5	15.5	18.5	18.0
19	23.5	22.5	19.5	19.0	18.0	17.5	15.5	13.5	16.5	15.5	19.0	18.5
20	23.5	22.5	19.5	19.0	17.0	17.0	15.0	14.5	17.0	16.0	20.0	18.5
21	23.5	22.5	19.0	18.0	17.0	16.5	15.0	14.5	17.0	16.0	20.5	19.5
22	23.5	22.0	18.5	17.0	17.0	16.0	15.5	15.0	---	---	20.0	19.0
23	23.0	22.0	18.5	18.0	17.0	16.0	16.0	15.5	---	---	20.0	19.0
24	23.0	22.0	18.5	18.0	18.0	17.0	16.0	15.5	18.0	16.0	20.0	19.5
25	23.0	21.0	18.5	16.5	18.0	16.0	17.0	16.0	17.0	16.0	20.0	19.5
26	23.0	21.5	16.5	15.5	18.5	16.0	17.0	16.0	17.0	15.5	20.5	20.0
27	23.0	22.0	17.5	16.0	19.0	18.0	16.0	15.5	17.5	16.0	20.0	19.0
28	23.5	22.0	18.5	17.5	18.0	17.0	16.0	15.5	18.0	16.0	19.5	18.5
29	23.5	22.5	18.5	17.5	17.0	16.5	16.5	16.0	18.5	15.5	19.5	18.5
30	23.5	23.0	19.0	18.0	17.5	16.5	17.0	16.5	---	---	18.5	17.5
31	23.5	22.5	---	---	18.0	17.0	17.0	16.5	---	---	19.0	18.5
MONTH	25.5	21.0	23.0	15.5	19.5	16.0	18.0	13.5	18.5	15.0	20.5	16.0

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	18.0	22.0	21.5	26.0	24.5	28.0	25.5	---	---	27.0	25.0
2	19.5	18.0	22.0	21.5	26.0	24.5	28.5	27.0	---	---	28.0	25.5
3	20.0	19.5	24.0	22.5	25.5	24.0	28.5	27.0	---	---	28.0	26.0
4	20.0	19.5	24.0	23.0	25.0	23.5	28.5	27.0	---	---	28.5	26.0
5	20.0	20.0	23.5	22.5	24.5	23.0	28.5	27.0	---	---	28.5	26.5
6	20.0	20.0	23.5	22.5	24.0	23.0	28.0	27.0	---	---	27.5	26.0
7	20.5	19.5	23.0	21.5	24.0	22.0	27.5	26.0	---	---	27.5	25.5
8	20.5	20.0	23.0	21.5	25.0	23.0	27.5	26.5	---	---	28.0	25.5
9	20.0	19.0	23.5	22.5	25.0	23.0	28.0	26.5	---	---	28.5	26.5
10	20.0	19.5	23.5	23.0	24.5	23.5	28.5	26.5	---	---	28.0	26.0
11	20.0	19.5	24.5	23.0	25.0	23.0	28.5	27.0	29.5	27.0	26.5	25.0
12	20.5	20.0	24.5	23.5	25.0	23.5	28.0	27.0	30.0	28.0	27.5	25.5
13	21.5	20.5	24.5	23.5	25.0	23.5	28.5	27.0	30.0	26.0	27.5	25.0
14	21.5	21.0	24.0	23.5	25.5	24.0	28.5	27.5	---	---	---	---
15	22.0	21.0	23.5	22.0	25.0	23.5	28.0	26.5	---	---	---	---
16	22.5	21.5	23.0	21.5	26.0	24.0	28.5	27.0	---	---	---	---
17	22.5	21.5	23.5	22.0	26.5	24.5	29.0	28.0	---	---	---	---
18	21.5	21.0	24.0	22.5	26.5	25.0	28.5	27.5	---	---	---	---
19	21.0	20.5	25.0	23.0	26.0	24.5	29.0	27.5	---	---	---	---
20	20.5	19.5	25.0	24.0	25.5	24.5	28.5	27.5	---	---	---	---
21	20.5	20.0	25.0	24.0	25.5	24.0	28.5	27.5	---	---	---	---
22	21.0	20.5	26.0	24.0	26.0	24.0	---	---	---	---	---	---
23	22.0	21.0	26.0	24.5	26.5	24.5	---	---	---	---	---	---
24	22.5	22.0	25.5	24.5	25.5	25.0	---	---	---	---	---	---
25	22.0	20.0	25.5	24.0	27.0	25.0	---	---	---	---	---	---
26	20.0	19.5	26.0	24.5	27.5	26.0	---	---	---	---	---	---
27	20.5	19.5	26.0	25.0	28.0	26.5	---	---	---	---	---	---
28	20.5	20.0	26.0	25.0	27.5	26.5	---	---	---	---	---	---
29	21.0	20.5	26.0	25.0	27.0	26.5	---	---	---	---	---	---
30	21.5	21.0	25.5	25.0	27.5	26.0	---	---	---	---	---	---
31	---	---	25.5	24.5	---	---	---	---	28.0	26.0	---	---
MONTH	22.5	18.0	26.0	21.5	28.0	22.0	29.0	25.5	30.0	26.0	28.5	25.0
YEAR	30.0	13.5										

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1980	1310	1910	1740	1890	1770	1880	1790	2130	1980	2390	2270
2	1830	1530	1930	1790	1870	1760	1900	1820	2130	2000	2390	2230
3	1890	1770	1900	1790	1880	1800	1950	1820	2130	1990	2360	2220
4	2020	1890	1900	1730	1890	1750	2040	1870	---	---	2280	2160
5	2110	1680	1850	1710	1890	1770	2030	1910	---	---	2260	2100
6	1880	1740	1830	1740	1900	1780	2020	1920	2070	1940	2300	2160
7	1910	1780	1880	1690	1860	1740	1980	1810	2050	1860	2330	2150
8	1920	1790	1870	1760	1870	1750	1960	1850	2060	1960	2310	2120
9	1860	1750	1900	1690	1900	1790	1990	1880	2070	1960	2370	2160
10	1900	1760	1900	1720	1950	1750	2030	1900	2110	1950	2270	2120
11	1910	1750	1870	1700	1870	1740	2010	1890	2080	1900	2260	2060
12	1900	1780	1830	1640	1890	1790	2010	1900	2010	1910	2210	2040
13	1920	1810	1800	1610	1920	1840	2020	1900	2020	1900	2220	2090
14	1930	1760	1840	1630	1940	1840	2030	1890	2010	1860	2220	2100
15	1890	1770	1840	1700	1940	1820	1970	1870	2080	1880	---	---
16	1850	1740	1980	1640	1940	1830	2030	1910	2050	1910	2190	2070
17	1860	1740	1850	1700	1880	1800	2050	1960	1980	1850	2150	2010
18	1900	1780	1850	1700	1900	1750	2060	1960	1990	1890	2140	1990
19	1910	1800	1810	1710	1910	1790	2080	1940	2000	1860	2140	2010
20	1920	1800	1820	1640	1980	1860	2060	1930	2000	1900	2190	2010
21	1880	1730	1820	1690	1920	1830	2080	1950	2010	1890	2140	2000
22	1890	1770	1830	1690	1960	1820	2050	1930	---	---	2130	2000
23	1860	1750	1870	1680	1950	1830	2050	1850	---	---	2130	2010
24	1900	1740	1830	1740	1900	1780	1990	1820	2050	1910	2090	1960
25	1900	1720	2000	1740	1980	1560	2060	1830	2110	1970	2050	1950
26	1930	1780	1780	1710	1840	1560	2110	1820	2140	2020	2100	1930
27	1940	1740	1810	1710	1880	1730	2100	1920	2190	2000	2080	1920
28	1910	1770	1850	1760	1930	1770	2170	1930	2260	2110	2080	1960
29	1900	1760	1890	1750	1970	1870	2100	1940	2340	2220	2090	1890
30	1880	1730	1920	1760	1940	1770	2100	1920	---	---	2080	1940
31	1900	1740	---	---	1910	1800	2120	1890	---	---	2090	1930
MONTH	2110	1310	2000	1610	1980	1560	2170	1790	2340	1850	2390	1890

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2030	1900	2040	1880	1950	1810	2240	1830	---	---	1930	1770
2	2010	1920	2050	1870	1960	1840	1900	1820	---	---	1920	1790
3	2060	1920	2060	1890	1940	1760	1910	1810	---	---	1950	1780
4	2080	1910	2030	1880	1900	1780	1900	1780	---	---	1860	1790
5	2100	1920	2050	1910	1920	1780	1890	1800	---	---	1910	1830
6	2090	1900	1970	1810	1920	1730	1880	1810	---	---	1900	1830
7	2040	1880	1980	1820	1900	1800	1860	1730	---	---	1900	1810
8	1990	1860	2050	1890	1970	1840	1840	1790	---	---	1950	1790
9	1950	1830	2050	1880	1940	1830	1840	1730	---	---	1900	1800
10	2030	1890	2030	1850	1900	1800	1830	1750	---	---	---	---
11	2080	1930	2070	1840	1900	1800	1850	1770	2000	1810	---	---
12	2070	1930	2040	1870	1940	1810	1880	1770	1920	1810	---	---
13	2060	1900	1990	1840	1920	1830	1840	1770	1950	1850	---	---
14	2020	1850	1980	1870	1910	1830	1850	1730	---	---	---	---
15	1960	1830	1980	1880	1890	1810	2260	1710	---	---	---	---
16	1970	1850	1990	1860	1900	1810	1830	1770	---	---	---	---
17	2060	1920	1980	1860	1860	1780	1820	1760	---	---	---	---
18	2080	1920	1970	1840	1890	1790	1830	1740	---	---	---	---
19	2030	1880	1920	1840	1890	1820	1850	1740	---	---	---	---
20	2000	1860	1880	1800	1930	1800	2330	1760	---	---	---	---
21	1980	1870	1920	1830	1940	1860	1890	1780	---	---	---	---
22	1940	1830	1940	1830	1940	1820	---	---	---	---	---	---
23	1970	1840	1980	1560	1920	1820	---	---	---	---	---	---
24	1960	1890	2010	1840	1890	1800	---	---	---	---	---	---
25	2020	1880	1910	1800	1900	1820	---	---	---	---	---	---
26	2000	1890	1900	1790	1920	1840	---	---	---	---	---	---
27	1990	1880	1860	1780	1920	1770	---	---	---	---	---	---
28	1980	1890	1860	1760	1940	1790	---	---	---	---	---	---
29	1940	1840	1910	1750	2180	1820	---	---	---	---	---	---
30	1950	1800	1950	1850	2140	1850	---	---	1920	1880	---	---
31	---	---	1950	1830	---	---	---	---	1910	1840	---	---
MONTH	2100	1800	2070	1560	2180	1730	2330	1710	2000	1810	1950	1770
YEAR	2390	1310										

09419700 LAS VEGAS WASH NEAR HENDERSON

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to current year.
CHEMICAL ANALYSES: January 1964 to January 1965, twice monthly; October 1967 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.
SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice monthly; October to November 1967 and April 1968 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.
WATER TEMPERATURES: February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to current year, monthly.
SEDIMENT DATA: January 1977 to current year, monthly.

REMARKS.--Discharge includes sewage effluent and some wastewater from industrial plants. City and County sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981. Discharge records for the current year are suspect, and are therefore not published.

COOPERATION.--All water-quality sampling and analyses prior to July 1970, plus nutrient analyses for period July 1970 to September 1972, from U.S. Environmental Protection Agency. Data in addition to those listed under "Period of Record" for January 1964 to June 1970 may exist in files of U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 6,960 micromhos Sept. 19, 1968; minimum, 1,660 micromhos Feb. 13, 1979.
WATER TEMPERATURES: Maximum, 28.0°C July 30, Sept. 3, 1958; minimum, 2.0°C Jan. 31, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 347 mg/L July 11, 1978 (questionable value not verified by duplicate determination; second-highest value for period of record, 78 mg/L); minimum, 1 mg/L Aug. 1, 1983.

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

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT										
03...	1100	2350	7.3	20.0	1.6	19	770	170	84	260
NOV										
08...	1130	2400	7.4	18.5	2.2	25	--	--	--	--
DEC										
05...	1430	2500	7.3	12.5	2.5	25	--	--	--	--
JAN										
16...	1245	2600	7.3	11.0	2.2	21	720	150	84	290
FEB										
03...	1300	--	7.3	12.5	2.6	26	--	--	--	--
MAR										
01...	1100	--	7.2	13.0	2.2	22	--	--	--	--
APR										
02...	1015	--	7.1	14.0	2.1	22	670	150	71	240
MAY										
02...	1130	2650	7.1	19.0	2.2	25	--	--	--	--
JUN										
08...	1015	2520	7.1	20.5	2.5	30	--	--	--	--
JUL										
02...	0900	3650	7.2	25.5	2.4	32	1200	250	150	380
AUG										
31...	0900	2480	7.7	26.0	6.6	88	--	--	--	--
SEP										
25...	1115	2850	7.8	24.0	8.1	103	--	--	--	--

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

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

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)
OCT 03...	4	22	148	740	310	.60	23	1760	1700	.57
NOV 08...	--	--	--	--	--	--	--	--	--	.51
DEC 05...	--	--	--	--	--	--	--	--	--	1.5
JAN 16...	5	19	129	790	350	.60	23	1870	1800	1.9
FEB 03...	--	--	--	--	--	--	--	--	--	2.0
MAR 01...	--	--	--	--	--	--	--	--	--	--
APR 02...	4	18	109	730	280	.50	22	1630	1600	1.7
MAY 02...	--	--	--	--	--	--	--	--	--	.70
JUN 08...	--	--	--	--	--	--	--	--	--	.40
JUL 02...	5	37	100	1400	440	.80	25	2870	2700	--
AUG 31...	--	--	--	--	--	--	--	--	--	.19
SEP 25...	--	--	--	--	--	--	--	--	--	.29

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	SEDIMENT, SUSPENDED (MG/L)
OCT 03...	.330	.90	7.90	1.4	9.3	10	.670	.660	4
NOV 08...	.390	.90	9.10	2.9	12	13	.610	--	6
DEC 05...	.530	2.0	9.10	2.9	12	14	.480	--	5
JAN 16...	.710	2.6	8.60	1.4	10	13	.420	.400	9
FEB 03...	.620	2.6	8.50	4.5	13	16	.510	--	6
MAR 01...	--	2.7	8.00	.50	8.5	11	.530	--	8
APR 02...	.530	2.2	10.0	3.0	13	15	.440	.430	6
MAY 02...	.400	1.1	9.40	3.6	13	14	.620	--	5
JUN 08...	.300	.70	9.00	3.0	12	13	.720	--	4
JUL 02...	--	--	8.80	4.2	13	--	1.10	1.00	11
AUG 31...	.310	.50	9.80	1.2	11	12	.860	--	31
SEP 25...	.410	.70	11.0	2.0	13	14	1.00	--	78

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead Recreation Area, on left bank near mouth, on upstream side of North Shore Road, about 0.8 mi upstream from high-water line of Lake Mead at altitude 1,221.4 ft, National Geodetic Vertical Datum of 1929, and 11 mi north-northwest of Boulder City.

DRAINAGE AREA.--2,193 mi^2, of which 1,586 mi^2 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, from topographic map. Prior to June 5, 1978, water-stage recorder at site 50 ft upstream at different datum.

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

AVERAGE DISCHARGE.--15 years, 82.7 ft^3/s, 59,920 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,760 ft^3/s Aug. 14, 1984, gage height, 11.32 ft, from slope-area measurement of peak flow; minimum, 14 ft^3/s July 7, 8, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 26, 1964, reached a stage of 7.5 ft, from floodmarks, discharge, 1,050 ft^3/s, from indirect measurement of peak flow, and another flood between 1964 and 1969 reached a stage of about 10 ft, from floodmarks, discharge, about 1,700 ft^3/s, from rating curve extended above 300 ft^3/s on basis of theoretical weir and culvert formulas, datum prior to June 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,760 ft^3/s Aug. 14, gage height, 11.32 ft, from slope-area measurement of peak flow; minimum daily, 88 ft^3/s Aug. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	113	105	122	103	102	122	91	96	109	137	119
2	130	112	107	114	104	100	114	90	94	144	115	117
3	112	108	101	130	103	108	104	90	91	116	112	112
4	99	109	107	119	102	112	102	94	98	108	111	112
5	98	110	109	115	107	110	94	96	99	107	113	110
6	123	116	102	105	110	102	93	95	98	105	116	110
7	107	116	99	107	114	100	92	93	98	105	88	110
8	102	112	99	110	104	104	93	102	99	107	114	110
9	103	110	110	111	107	105	98	96	98	113	120	110
10	107	102	116	108	104	102	94	96	100	114	117	110
11	107	105	117	106	100	105	92	93	99	113	119	180
12	104	108	122	107	103	108	96	93	100	116	109	110
13	109	107	125	110	102	102	94	94	103	119	109	110
14	113	110	129	113	100	108	92	99	105	119	500	110
15	112	107	129	112	97	103	96	105	105	132	110	110
16	108	113	130	108	94	92	98	109	107	164	110	110
17	108	114	132	104	99	103	92	107	107	130	110	110
18	109	116	133	110	102	103	93	109	108	119	200	110
19	108	116	133	108	100	107	98	110	107	126	160	110
20	108	117	134	111	102	98	102	110	102	119	110	110
21	110	116	129	103	103	100	105	97	105	121	110	110
22	109	114	121	108	102	100	108	98	100	168	110	110
23	108	112	123	112	102	102	104	93	99	1400	110	110
24	109	108	133	109	105	99	102	98	102	150	110	110
25	94	113	143	112	105	102	103	112	108	130	140	110
26	93	121	209	107	108	98	109	98	104	120	110	110
27	110	121	186	107	113	98	110	107	104	600	110	110
28	109	118	139	104	115	97	108	100	103	700	110	110
29	110	114	125	104	105	99	109	100	100	150	110	110
30	113	104	129	107	---	115	104	100	107	120	134	110
31	114	---	126	103	---	122	---	96	---	110	136	---
TOTAL	3386	3362	3902	3406	3015	3206	3021	3071	3046	6154	4070	3390
MEAN	109	112	126	110	104	103	101	99.1	102	199	131	113
MAX	140	121	209	130	115	122	122	112	108	1400	500	180
MIN	93	102	99	103	94	92	92	90	91	105	88	110
AC-FT	6720	6670	7740	6760	5980	6360	5990	6090	6040	12210	8070	6720

CAL YR 1983	TOTAL	42456	MEAN	116	MAX	943	MIN	86	AC-FT	84210
WTR YR 1984	TOTAL	43029	MEAN	118	MAX	1400	MIN	88	AC-FT	85350

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1964 to January 1965, September 1966 to current year.
CHEMICAL ANALYSES: January 1964 to January 1965, twice monthly; September 1966 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to September 1980, twice monthly; October 1980 to current year, monthly.
SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice monthly; September 1966 to December 1967 and May 1968 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to May 1975, twice monthly; June 1975 to March 1976, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; April to October 1976, twice monthly; November 1976 to September 1977, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; October 1977 to May 1978, 2-4 times per month; June 1978 to January 1979, 3-5 times per week; February to August 1979, twice monthly; September and October 1979, 4 times per hour; November 1979 to current year, hourly.
MICROBIOLOGICAL DATA: October 1977 to September 1980, twice monthly (data prior to October 1977 unpublished); October 1980 to current year, monthly.
WATER TEMPERATURES: January to December 1968, weekly; August 1969 to July 1974, monthly; August 1974 to May 1978, twice monthly; June 1978 to January 1979, 3-5 times per week; February to October 1979, twice monthly; November 1979 to current year, hourly.
SEDIMENT DATA: January 1974 to December 1976, monthly; January 1977 to August 1979, twice monthly; September 1979 to December 1980, monthly; January 1981 to September 1981, twice monthly; October 1981 to current year, monthly.

INSTRUMENTATION.--Specific-conductance recorder from June 1975 to March 1976, November 1976 to April 1978, and August 1979 to current year. Temperature recorder from November 1979 to current year.

REMARKS.--Discharge includes sewage effluent and wastewater from industrial plants. City and county sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981. Periods of no record for daily specific conductance and temperature are due to malfunctions of the recorder and periodic burial of the probes by sediment deposits.

COOPERATION.--Microbiological analyses prior to October 1978 by Nevada Bureau of Laboratories and Research. All water-quality sampling and analyses to October 1969, plus nutrient and trace-metal analyses for period October 1969 to September 1972, from U.S. Environmental Protection Agency. Data in addition to those listed under "Period of Record" for January 1964 to September 1969 may exist in files of U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 9,120 micromhos Sept. 8, 1964; minimum, 1,780 micromhos Mar. 11, 1982.
FECAL STREPTOCOCCI: Maximum, 22,000 colonies/100 mL (non-ideal colony count) Dec. 1, 1982; minimum, 55 colonies/100 mL Jan. 10, 1977.
WATER TEMPERATURES: Maximum, 29.5°C July 4, 17, 1984; minimum, 3.0°C Jan. 7, 1970.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 113,000 mg/L Aug. 11, 1983 (hand-dipped sample; not depth integrated); minimum, 111 mg/L Jan. 28, 1975.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,030 micromhos Apr. 4; minimum, 2,100 micromhos Apr. 12.
WATER TEMPERATURES: Maximum, 29.5°C July 4, 17; minimum, 7.5°C Jan. 19, 21.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
03...	1000	148	--	8.0	19.5	8.4	96	87	K850	21000	1200	330
NOV												
08...	1230	122	2600	7.9	18.0	8.4	93	29	K40	K1400	--	--
DEC												
05...	1300	109	2550	--	13.0	10.1	100	35	K22	1100	--	--
JAN												
16...	1145	120	2650	8.0	11.0	10.6	101	28	K34	600	800	180
FEB												
03...	1145	103	2900	8.0	12.0	10.2	99	25	K30	460	--	--
MAR												
01...	1200	100	2900	7.9	14.5	9.3	96	24	K22	460	--	--
APR												
02...	0900	114	2900	7.9	14.0	9.2	94	29	47	1000	870	200
MAY												
02...	1000	91	2830	7.9	19.0	8.6	98	30	K26	K450	--	--
JUN												
08...	1200	103	2700	7.8	23.0	7.2	89	48	K36	1300	--	--
JUL												
02...	1000	165	3200	7.7	26.0	7.5	99	110	>600	>5000	1100	270
AUG												
31...	1015	E136	2900	8.1	24.5	7.2	92	80	750	820	--	--
SEP												
25...	1200	E110	2900	8.0	24.0	7.7	97	50	460	420	--	--

E: ESTIMATED.
K: NON-IDEAL COLONY COUNT.

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

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

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
03...	87	260	3	28	148	1200	300	.70	28	2320	2300	927
NOV												
08...	--	--	--	--	--	--	--	--	--	1980	--	652
DEC												
05...	--	--	--	--	--	--	--	--	--	1980	--	583
JAN												
16...	85	280	4	23	129	840	350	.60	26	1990	1900	645
FEB												
03...	--	--	--	--	--	--	--	--	--	2110	--	587
MAR												
01...	--	--	--	--	--	--	--	--	--	2110	--	570
APR												
02...	89	290	4	22	118	930	360	.60	28	2080	2000	640
MAY												
02...	--	--	--	--	--	--	--	--	--	2120	--	521
JUN												
08...	--	--	--	--	--	--	--	--	--	1960	--	545
JUL												
02...	100	310	4	34	142	1100	410	.70	26	2450	2300	1090
AUG												
31...	--	--	--	--	--	--	--	--	--	2290	--	--
SEP												
25...	--	--	--	--	--	--	--	--	--	2290	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
03...	.65	.350	1.0	4.90	3.3	8.2	9.2	.430	.430	7230	2890	53
NOV												
08...	1.7	.950	2.6	5.90	4.1	10	13	.650	--	541	178	53
DEC												
05...	2.3	.720	3.0	6.40	2.6	9.0	12	.670	--	500	147	52
JAN												
16...	2.8	.590	3.4	5.90	.60	6.5	9.9	.690	.380	556	180	48
FEB												
03...	3.1	.550	3.6	5.00	1.0	6.0	9.6	.570	--	244	68	53
MAR												
01...	4.3	.640	4.9	5.10	.90	6.0	11	.550	--	179	48	69
APR												
02...	2.6	.660	3.3	6.40	1.6	8.0	11	.530	.330	237	73	59
MAY												
02...	1.9	1.00	2.9	5.90	1.1	7.0	9.9	--	--	113	28	--
JUN												
08...	1.4	1.90	3.3	5.90	.60	6.5	9.8	.650	--	158	44	--
JUL												
02...	.60	1.00	1.6	--	--	12	14	.570	--	2570	1140	--
AUG												
31...	.87	.730	1.6	6.90	7.1	14	16	1.80	--	3490	--	58
SEP												
25...	1.3	1.00	2.3	7.90	1.6	9.5	12	1.40	--	1810	--	56

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

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

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	12.0	21.5	16.0	26.5	20.5	29.0	23.0				
2	17.0	12.5	22.5	16.5	26.0	20.5	28.5	24.0				
3	18.0	13.0	23.5	17.5	26.0	20.0	29.0	24.0				
4	18.0	13.0	23.5	18.0	22.5	19.5	29.5	24.0				
5	18.5	14.0	23.5	18.0	25.0	19.5	29.0	23.5				
6	17.0	15.0	23.0	17.5	23.5	19.0	28.0	23.5				
7	19.0	14.0	21.0	16.0	24.5	18.5	28.5	23.0				
8	18.5	14.0	22.0	15.5	24.5	18.5	28.0	23.5				
9	18.5	13.5	22.0	16.0	24.5	18.5	28.5	23.5				
10	18.5	14.0	23.5	17.5	24.5	19.0	29.0	23.5				
11	19.5	14.5	24.5	18.5	24.5	18.5	29.0	23.0				
12	19.5	14.0	25.0	19.0	24.5	18.5	28.0	24.0				
13	20.0	14.5	24.0	19.0	25.0	19.0	28.5	24.0				
14	21.0	15.0	23.5	19.5	25.0	19.5	27.5	24.0				
15	21.5	15.5	22.0	18.0	24.5	19.0	27.5	24.5				
16	21.5	16.0	22.5	16.5	25.0	19.0	28.0	24.5				
17	19.5	16.5	22.5	17.0	26.0	19.5	29.5	24.5				
18	20.0	16.5	23.5	17.5	26.0	20.0	29.0	25.0				
19	19.0	15.0	24.0	18.0	25.5	20.0	29.0	24.5				
20	19.0	14.0	24.5	19.0	26.0	20.0	28.5	25.0				
21	19.5	14.5	25.0	19.5	---	---	26.5	24.0				
22	20.0	15.0	25.5	20.0	---	---	26.0	23.5				
23	21.0	15.0	26.0	20.5	---	---	---	---				
24	21.5	16.5	25.5	20.0	---	---	---	---				
25	19.0	14.5	26.0	20.5	---	---	---	---				
26	18.0	13.5	26.0	20.5	---	---	---	---				
27	18.0	13.0	26.0	20.5	28.0	22.0	---	---				
28	18.5	13.5	26.0	20.5	28.0	22.5	---	---				
29	19.5	14.0	26.0	20.5	28.0	23.0	---	---				
30	19.5	15.0	25.0	21.5	28.0	23.0	---	---				
31	---	---	25.5	21.0	---	---	---	---				
MONTH	21.5	12.0	26.0	15.5	28.0	18.5	29.5	23.0				
YEAR	29.5	7.5										

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	2600	2550	---	---	2900	2870	2920	2890
2			---	---	2610	2560	---	---	2910	2880	2990	2930
3			---	---	2630	2560	---	---	2940	2890	2980	2870
4			2660	2610	2600	2540	---	---	2950	2930	---	---
5			2630	2590	2570	2520	---	---	2940	2890	---	---
6			2610	2570	2590	2540	---	---	2900	2860	---	---
7			2740	2570	2600	2580	---	---	2920	2850	---	---
8			2620	2580	2600	2580	---	---	2950	2860	---	---
9			2620	2570	2630	2580	---	---	2870	2840	---	---
10			2670	2600	2610	2580	---	---	2880	2860	---	---
11			2650	2560	2600	2550	---	---	2880	2820	---	---
12			2620	2560	2620	2540	---	---	2860	2810	---	---
13			2630	2550	2580	2550	---	---	2840	2780	---	---
14			2580	2490	2580	2530	---	---	2800	2760	---	---
15			2530	2510	2580	2530	---	---	2810	2760	---	---
16			2520	2490	2580	2480	---	---	2800	2710	---	---
17			2620	2510	2530	2490	---	---	2820	2800	---	---
18			2590	2530	2540	2460	---	---	2820	2790	---	---
19			2570	2520	---	---	---	---	2840	2800	---	---
20			2550	2500	---	---	---	---	2860	2820	---	---
21			2550	2460	---	---	---	---	2870	2830	---	---
22			2480	2460	---	---	---	---	2900	2830	---	---
23			2520	2470	---	---	---	---	2870	2810	---	---
24			2540	2480	---	---	---	---	2860	2840	---	---
25			2520	2490	---	---	---	---	2900	2850	---	---
26			2550	2510	---	---	---	---	2900	2850	---	---
27			2580	2430	---	---	---	---	2860	2820	---	---
28			2520	2460	---	---	2910	2780	2870	2830	---	---
29			2570	2510	---	---	2890	2830	2920	2880	---	---
30			2570	2530	---	---	2960	2820	---	---	---	---
31			---	---	---	---	2900	2850	---	---	---	---
MONTH			2740	2430	2630	2460	2960	2780	2950	2710	2990	2870

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2930	2880			2740	2630						
2	2930	2890			2740	2600						
3	2970	2920			2620	2510						
4	3030	2950			2710	2520						
5	2990	2950			2690	2590						
6	2990	2960			2740	2600						
7	2970	2710			---	---						
8	2680	2330			2730	2670						
9	2600	2270			2720	2620						
10	2270	2210			2760	2600						
11	2210	2160			2710	2600						
12	2450	2100			2680	2560						
13	2420	2290			2620	2540						
14	2290	2230			2740	2570						
15	2230	2120			2730	2580						
16	2830	2130			2640	2580						
17	2820	2630			2680	2590						
18	2750	2520			2630	2570						
19	2560	2360			2600	2550						
20	2370	2330			2630	2540						
21	2340	2310			---	---						
22	2340	2300			---	---						
23	2360	2330			---	---						
24	---	---			---	---						
25	---	---			---	---						
26	---	---			---	---						
27	---	---			---	---						
28	---	---			---	---						
29	---	---			---	---						
30	---	---			---	---						
31	---	---			---	---						
MONTH	3030	2100			2760	2510						
YEAR	3030	2100										

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

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, Hydrologic Unit 1501005, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--171,700 mi^2, approximately, including 3,959 mi^2 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."

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

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft to Local Powerhouse datum and is 0.40 ft, National Geodetic Vertical Datum of 1929.

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, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 850.0 ft--gage sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,211.4 ft (top of automatic spillway gates in raised position; and uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft) and 1,229.0 ft (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 upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft July 29, 30, 1941 (on basis of original bathymetry), gage height, 1,220.45 ft; maximum gage height, 1,225.85 ft July 24, 1983 (equivalent to 26,868,000 acre-ft on basis of resurveyed bathymetry of 1963-64); minimum contents (since 1940), 10,695,000 acre-ft Apr. 26, 1956, gage height, 1,083.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 25,653,000 acre-ft Oct. 1, gage height, 1,218.18 ft; minimum, 23,757,000 acre-ft May 4, gage height, 1,205.73 ft.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

RESERVOIR STORAGE (THOU AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25653	25199	24899	24761	24353	24036	23819	23782	24382	24752	24819	24620
2	25647	25191	24894	24763	24338	24019	23816	23773	24392	24766	24797	24633
3	25641	25182	24881	24754	24321	24021	23807	23769	24412	24777	24772	24638
4	25636	25169	24899	24742	24315	24024	23803	23757	24426	24795	24751	24627
5	25633	25168	24878	24722	24312	24006	23797	23764	24441	24807	24725	24609
6	25630	25171	24868	24710	24305	23994	23792	23789	24453	24818	24705	24588
7	25624	25148	24850	24713	24291	23983	23792	23795	24473	24827	24685	24570
8	25614	25136	24841	24716	24278	23974	23784	23803	24495	24838	24664	24574
9	25607	25108	24826	24696	24256	23962	23784	23828	24510	24847	24644	24586
10	25596	25094	24830	24678	24241	23955	23772	23855	24529	24861	24621	24588
11	25586	25066	24826	24665	24238	23959	23779	23883	24547	24865	24621	24571
12	25574	25074	24815	24643	24238	23953	23779	23913	24562	24891	24623	24556
13	25557	25085	24809	24629	24222	23931	23781	23938	24579	24891	24630	24539
14	25538	25074	24803	24608	24214	23919	23786	23956	24594	24905	24671	24523
15	25524	25059	24806	24600	24198	23903	23794	23986	24606	24916	24679	24527
16	25512	25048	24790	24580	24165	23901	23788	24013	24621	24930	24690	24542
17	25484	25022	24803	24557	24162	23904	23784	24037	24630	24939	24691	24530
18	25462	25008	24810	24532	24162	23909	23773	24066	24641	24942	24693	24521
19	25437	25011	24810	24521	24159	23891	23775	24096	24650	24942	24702	24506
20	25417	25003	24812	24503	24139	23879	23772	24130	24658	24937	24700	24491
21	25392	24991	24794	24510	24118	23877	23785	24150	24665	24931	24694	24480
22	25369	24979	24780	24519	24106	23856	23803	24172	24673	24956	24691	24477
23	25349	24974	24766	24504	24084	23848	23803	24189	24678	24962	24678	24483
24	25316	24962	24769	24491	24067	23849	23800	24210	24684	24957	24668	24471
25	25301	24954	24792	24474	24082	23855	23788	24232	24683	24950	24658	24451
26	25281	24947	24790	24463	24079	23842	23781	24259	24697	24927	24667	24438
27	25262	24948	24789	24439	24067	23836	23773	24287	24708	24914	24665	24430
28	25247	24931	24766	24430	24058	23828	23779	24302	24713	24899	24659	24419
29	25234	24921	24752	24413	24046	23813	23782	24321	24725	24879	24640	24415
30	25217	24911	24739	24389	---	23815	23784	24339	24726	24864	24621	24406
31	25210	---	24751	24370	---	23804	---	24358	---	24841	24609	---
MAX	25653	25199	24899	24763	24358	24036	23819	24358	24726	24962	24819	24638
MIN	25210	24911	24739	24370	24046	23804	23772	23757	24382	24752	24609	24406
*	1215.32	1213.38	1212.33	1209.82	1207.67	1206.05	1205.91	1209.74	1212.17	1212.92	1211.40	1210.06
†	-448000	-299000	-160000	-381000	-324000	-242000	-20000	+574000	+368000	+115000	-232000	-203000
‡	11710	8290	7230	8800	8250	10840	12980	17600	17310	16390	14500	14630
**	6.5	8.7	3.7	3.0	3.7	4.4	4.5	5.9	6.5	7.1	6.2	3.8
††	84300	111700	47400	38500	45900	55200	55300	73500	82200	91000	78600	47500

CAL YR 1983 MAX 26864 MIN 23921 † + 600,000 ‡ 140,500 ** 71.8 †† 929,700
WTR YR 1984 MAX 25653 MIN 23757 † -1,252,000 ‡ 148,530 ** 64.0 †† 811,100

* 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 U.S. 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 0.00179.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1940 to September 1962, October 1963 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND WATER TEMPERATURES: October 1940 to September 1962 and October 1963 to current year, monthly.

COOPERATION.--Samples and field data collected by U.S. Bureau of Reclamation. Non-nutrient samples analyzed by Metropolitan Water District of Southern California.

EXTREMES MEASURED FOR PERIOD OF RECORD (at 5-ft depth to September 1962; at water surface from October 1963 to current year).--
SPECIFIC CONDUCTANCES: Maximum, 1,250 micromhos Oct. 4, Nov. 1, 1965; minimum, 688 micromhos Nov. 1, 1957.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 30, 1967; minimum, 11.0°C Jan. 28, 1949.

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
NOV								
01...	1000	.00	1040	8.2	--	--	--	--
01...	1010	10.0	1040	8.2	--	--	--	--
01...	1020	25.0	1050	8.3	330	84	30	96
01...	1030	75.0	941	7.9	--	--	--	--
01...	1040	125	922	7.9	300	76	26	81
01...	1050	175	987	7.9	--	--	--	--
01...	1100	225	1050	7.9	--	--	--	--
01...	1110	275	1040	8.0	--	--	--	--
01...	1120	305	1040	8.0	--	--	--	--
01...	1130	325	1040	8.0	330	85	28	96
01...	1140	375	1040	7.9	--	--	--	--
01...	1150	425	1040	7.9	--	--	--	--
01...	1200	450	1050	7.9	--	--	--	--
01...	1210	475	1050	7.9	330	85	28	99
01...	1220	498	1050	7.9	--	--	--	--
01...	1230	503	1050	7.8	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
NOV								
01...	--	--	120	--	81	--	--	--
01...	--	--	120	--	81	--	--	--
01...	2	4.3	120	300	81	.40	9.7	680
01...	--	--	130	--	82	--	--	--
01...	2	2.9	140	240	66	.30	8.7	580
01...	--	--	140	--	84	--	--	--
01...	--	--	140	--	84	--	--	--
01...	--	--	140	--	84	--	--	--
01...	--	--	140	--	84	--	--	--
01...	2	3.6	140	280	84	.40	9.6	670
01...	--	--	140	--	84	--	--	--
01...	--	--	140	--	85	--	--	--
01...	--	--	140	--	84	--	--	--
01...	2	4.2	140	280	85	.40	9.5	680
01...	--	--	140	--	84	--	--	--
01...	--	--	140	--	84	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
NOV								
29...	0900	.00	980	8.2	--	--	--	--
29...	0910	10.0	973	8.2	310	79	28	89
29...	0920	25.0	975	8.2	--	--	--	--
29...	0930	75.0	975	8.2	--	--	--	--
29...	0940	125	975	8.2	--	--	--	--
29...	0950	175	975	8.1	--	--	--	--
29...	1000	225	1020	8.0	330	84	28	95
29...	1010	275	992	8.1	--	--	--	--
29...	1020	303	1030	8.1	--	--	--	--
29...	1030	325	1030	8.1	--	--	--	--
29...	1040	375	1040	8.1	--	--	--	--
29...	1050	425	1040	8.0	--	--	--	--
29...	1100	475	1050	8.0	330	84	29	99
29...	1115	498	1050	7.9	--	--	--	--
29...	1130	501	1050	7.9	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
NOV							
29...	--	--	130	--	70	--	--
29...	2	4.0	130	260	70	11	620
29...	--	--	130	--	71	--	--
29...	--	--	130	--	71	--	--
29...	--	--	130	--	71	--	--
29...	--	--	130	--	71	--	--
29...	2	4.0	140	270	80	8.9	650
29...	--	--	130	--	73	--	--
29...	--	--	130	--	77	--	--
29...	--	--	130	--	81	--	--
29...	--	--	130	--	83	--	--
29...	--	--	130	--	83	--	--
29...	2	4.0	140	280	85	9.1	670
29...	--	--	140	--	84	--	--
29...	--	--	140	--	84	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JAN												
31...	0915	.00	960	8.1	--	--	--	--	--	--	130	--
31...	0920	10.0	984	8.1	310	82	26	90	2	4.0	130	260
31...	0925	25.0	987	8.2	--	--	--	--	--	--	130	--
31...	0930	75.0	987	8.2	--	--	--	--	--	--	130	--
31...	0935	125	987	8.2	--	--	--	--	--	--	130	--
31...	0945	175	987	8.2	--	--	--	--	--	--	130	--
31...	0955	225	987	8.2	--	--	--	--	--	--	130	--
31...	1005	275	992	8.2	--	--	--	--	--	--	130	--
31...	1015	303	1030	8.0	--	--	--	--	--	--	130	--
31...	1020	325	1030	8.0	330	84	28	95	2	4.1	140	270
31...	1030	375	1040	8.0	--	--	--	--	--	--	140	--
31...	1040	425	1040	8.0	--	--	--	--	--	--	140	--
31...	1050	475	1040	8.0	330	85	28	98	2	4.2	140	280
31...	1100	500	1040	8.0	--	--	--	--	--	--	140	--

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
JAN											
31...	72	--	--	--	--	--	--	--	--	--	--
31...	73	.30	7.9	620	<.010	.300	.010	.29	.30	.60	.010
31...	72	--	--	--	--	--	--	--	--	--	--
31...	72	--	--	--	--	--	--	--	--	--	--
31...	72	--	--	--	--	--	--	--	--	--	--
31...	73	--	--	--	--	--	--	--	--	--	--
31...	73	--	--	--	--	--	--	--	--	--	--
31...	74	--	--	--	--	--	--	--	--	--	--
31...	78	--	--	--	--	--	--	--	--	--	--
31...	81	.30	8.4	650	--	--	--	--	--	--	--
31...	82	--	--	--	--	--	--	--	--	--	--
31...	82	--	--	--	--	--	--	--	--	--	--
31...	83	.30	8.7	670	--	--	--	--	--	--	--
31...	83	--	--	--	<.010	.300	.030	.37	.40	.70	.020

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MAR								
01...	1220	.00	--	8.0	--	--	--	--
01...	1225	10.0	993	8.1	320	83	27	91
01...	1230	25.0	995	8.1	--	--	--	--
01...	1235	75.0	995	8.1	--	--	--	--
01...	1240	125	995	8.1	--	--	--	--
01...	1245	175	994	8.1	--	--	--	--
01...	1250	225	993	8.1	--	--	--	--
01...	1255	275	1000	8.0	--	--	--	--
01...	1300	297	1010	8.0	--	--	--	--
01...	1305	325	1010	8.0	330	84	28	92
01...	1310	375	1020	7.9	--	--	--	--
01...	1320	425	1030	7.9	--	--	--	--
01...	1330	475	1040	7.8	320	82	29	98
01...	1345	497	1040	7.7	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
MAR								
01...	--	--	--	--	--	--	--	--
01...	2	4.0	130	280	72	.40	8.2	640
01...	--	--	130	--	72	--	--	--
01...	--	--	130	--	72	--	--	--
01...	--	--	130	--	72	--	--	--
01...	--	--	130	--	72	--	--	--
01...	--	--	130	--	72	--	--	--
01...	--	--	130	--	74	--	--	--
01...	--	--	130	--	75	--	--	--
01...	2	4.0	130	280	76	.30	8.1	650
01...	--	--	130	--	77	--	--	--
01...	--	--	130	--	80	--	--	--
01...	2	4.1	130	280	83	.40	8.5	660
01...	--	--	140	--	84	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
MAY												
02...	0930	.00	1000	8.1	--	--	--	--	--	--	140	--
02...	0948	10.0	1000	8.2	320	82	28	89	2	3.9	130	270
02...	0955	25.0	1000	8.2	--	--	--	--	--	--	130	--
02...	0957	75.0	1000	8.1	--	--	--	--	--	--	130	--
02...	0959	125	996	8.1	--	--	--	--	--	--	130	--
02...	1002	175	990	8.0	--	--	--	--	--	--	130	--
02...	1005	225	987	8.0	310	81	27	85	2	3.8	130	260
02...	1009	275	986	8.0	--	--	--	--	--	--	130	--
02...	1013	295	986	8.0	--	--	--	--	--	--	130	--
02...	1018	325	986	8.0	--	--	--	--	--	--	130	--
02...	1025	375	985	8.0	--	--	--	--	--	--	130	--
02...	1031	425	985	8.0	--	--	--	--	--	--	130	--
02...	1039	475	985	7.9	310	80	27	85	2	3.7	130	260
02...	1240	495	990	7.9	--	--	--	--	--	--	130	--

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY												
02...	73	--	--	--	--	--	--	--	--	--	--	--
02...	73	.30	7.7	630	.290	.010	.300	.030	.27	.30	.60	.010
02...	73	--	--	--	--	--	--	--	--	--	--	--
02...	72	--	--	--	--	--	--	--	--	--	--	--
02...	72	--	--	--	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	.30	7.7	610	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	--	--	--	--	--	--	--
02...	71	.30	7.5	610	--	--	--	--	--	--	--	--
02...	71	--	--	--	--	<.010	<.100	.030	--	<.20	--	.010

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
JUL								
02...	1040	10.0	986	8.1	--	--	--	--
02...	1055	25.0	987	8.1	310	77	28	89
02...	1125	75.0	979	8.1	--	--	--	--
02...	1145	125	968	7.9	310	79	27	83
02...	1155	175	987	8.2	--	--	--	--
02...	1205	225	956	8.1	--	--	--	--
02...	1215	275	986	8.2	--	--	--	--
02...	1225	325	988	8.2	310	77	28	89
02...	1235	375	967	8.0	310	80	27	85
02...	1245	425	985	8.1	--	--	--	--
02...	1255	475	989	8.1	--			

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JUL								
02...	--	--	110	--	74	--	--	--
02...	2	4.0	120	280	75	.30	8.6	630
02...	--	--	130	--	67	--	--	--
02...	2	4.0	130	260	64	.30	8.6	600
02...	--	--	120	--	69	--	--	--
02...	--	--	130	--	63	--	--	--
02...	--	--	120	--	70	--	--	--
02...	2	4.0	120	280	70	.30	8.7	630
02...	2	4.0	130	260	65	.30	8.7	610
02...	--	--	120	--	70	--	--	--
02...	--	--	120	--	70	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
AUG								
16...	1035	10.0	995	8.4	300	75	28	93
16...	1037	25.0	996	8.4	--	--	--	--
16...	1040	75.0	951	8.1	--	--	--	--
16...	1043	125	907	8.0	300	76	26	78
16...	1108	175	933	8.0	--	--	--	--
16...	1111	225	941	8.1	--	--	--	--
16...	1216	275	944	8.1	--	--	--	--
16...	1227	325	968	8.0	310	81	27	84
16...	1232	375	973	8.0	--	--	--	--
16...	1237	425	974	8.0	--	--	--	--
16...	1246	475	967	7.9	310	81	27	83

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
AUG								
16...	2	5.0	110	290	73	.30	8.3	640
16...	--	--	110	--	69	--	--	--
16...	--	--	130	--	65	--	--	--
16...	2	4.0	130	240	61	.30	8.4	570
16...	--	--	130	--	63	--	--	--
16...	--	--	130	--	62	--	--	--
16...	--	--	130	--	64	--	--	--
16...	2	4.0	130	270	65	.30	8.4	620
16...	--	--	130	--	66	--	--	--
16...	--	--	130	--	66	--	--	--
16...	2	4.0	130	260	66	.30	8.5	610

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

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

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, LAB (STANDARD UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)
SEP											
10...	1010	10.0	1030	8.3	320	81	28	94	2	4.0	110
10...	1020	25.0	1030	8.2	--	--	--	--	--	--	110
10...	1047	75.0	934	8.0	--	--	--	--	--	--	130
10...	1101	125	888	7.8	280	74	24	80	2	3.0	140
10...	1109	175	905	7.9	--	--	--	--	--	--	140
10...	1121	225	930	8.0	--	--	--	--	--	--	140
10...	1211	275	951	8.0	310	80	26	84	2	4.0	130
10...	1221	325	963	7.9	--	--	--	--	--	--	130
10...	1234	375	971	7.9	--	--	--	--	--	--	130
10...	1245	425	974	7.9	--	--	--	--	--	--	130
10...	1255	475	971	7.9	310	78	28	86	2	3.0	140

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
SEP											
10...	300	78	.30	8.8	660	<.010	<.100	.040	.36	.40	<.010
10...	--	72	--	--	--	--	--	--	--	--	--
10...	--	64	--	--	--	--	--	--	--	--	--
10...	230	57	.30	8.8	560	--	--	--	--	--	--
10...	--	59	--	--	--	--	--	--	--	--	--
10...	--	62	--	--	--	--	--	--	--	--	--
10...	250	64	.30	9.0	600	--	--	--	--	--	--
10...	--	65	--	--	--	--	--	--	--	--	--
10...	--	65	--	--	--	--	--	--	--	--	--
10...	--	66	--	--	--	--	--	--	--	--	--
10...	260	66	.30	8.8	610	--	--	--	--	--	--

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV
(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, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi^2, approximately, including 3,959 mi^2 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.--Acoustical velocity meters on each turbine in Hoover Dam. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi downstream at datum 594.8 ft, National Geodetic Vertical Datum of 1929. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi downstream at datum 600.35 ft, National Geodetic Vertical Datum of 1929. July 1, 1958, to Nov. 7, 1979, totalizing flowmeter on each turbine.

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.

AVERAGE DISCHARGE.--50 years (water years 1935-84), 13,590 ft^3/s, 9,846,000 acre-ft/yr, unadjusted for storage in Lake Mead.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50,800 ft^3/s July 29, 1983; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily, 152 ft^3/s Feb. 10, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 37,500 ft^3/s June 25; minimum daily, 15,600 ft^3/s Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36100	31500	29500	20600	33900	31700	20700	30100	34200	36100	35700	17000
2	36800	31100	29300	23200	35100	30900	27400	29500	33200	36100	35900	15600
3	33600	32000	22300	28900	32300	26200	29300	29900	32100	35700	35800	21400
4	33400	34400	21500	32200	26400	24100	28200	29500	33500	35700	35300	31700
5	33100	27400	31600	32400	25800	30600	28200	24400	33200	35900	34100	32800
6	32700	26500	30900	31200	31000	31200	27400	22800	34300	35200	32900	32400
7	31900	33700	32400	23800	31900	30900	25500	29500	34500	36100	31000	31400
8	32600	34000	32300	25500	32500	30700	27400	30500	34300	35000	33100	21400
9	32200	34900	32400	32000	32800	31300	27400	30900	33900	36800	33600	17300
10	32300	34100	23000	34400	32800	28600	26400	30800	32300	35800	33200	30200
11	32400	32300	22600	33100	28400	23700	26100	30300	34300	36100	25100	30900
12	32500	19800	30800	34000	26600	31400	25800	29300	34500	36500	24200	32300
13	31900	19500	29500	33900	31900	33400	25300	30800	35200	36500	31800	32000
14	32000	30300	29400	31100	30800	32000	22500	31600	35400	36300	29800	33100
15	31300	31800	26800	30100	32500	30200	21700	30100	35700	36500	30700	22600
16	31000	30500	29100	33100	32800	28500	27900	31300	35700	37200	29900	16400
17	36200	32300	19300	33900	31700	23900	27100	30800	34100	36400	32600	30700
18	35700	31100	18500	33200	28000	20000	28500	31100	34800	36800	24100	31900
19	36000	22900	26200	33400	27100	30200	28500	28900	33700	37000	26600	30700
20	35900	22100	25500	32900	32400	30600	27100	26600	33800	36300	31900	30200
21	36600	30900	31400	20300	33500	29700	20800	33100	34200	34100	32000	31000
22	35600	29700	32900	22000	33700	31500	20500	34100	35300	33300	29900	23500
23	35300	28600	32600	32200	33700	30600	28600	33900	36600	34100	32400	16600
24	36800	27700	19900	32600	33600	23200	28500	33800	35800	34000	32700	30800
25	36700	28100	18400	33000	19500	22300	27900	32500	37500	33600	27500	30300
26	36100	28000	26300	32600	26900	31000	27900	28800	37400	34400	21100	30800
27	36100	25100	29800	31600	29500	28700	29600	32100	37200	33300	31200	29400
28	36200	33200	32400	30900	32100	28300	22000	31900	37300	34200	31500	30000
29	34900	28700	32600	33600	30500	28300	26300	34400	36300	35900	33100	27700
30	35100	30000	31700	34700	---	30400	28100	34100	36400	35300	32000	25500
31	32600	---	22300	35600	---	28300	---	34200	---	35300	29800	---
TOTAL	1061600	882200	853200	952000	889700	892400	788600	951600	1046700	1101500	960500	817600
MEAN	34250	29410	27520	30710	30680	28790	26290	30700	34890	35530	30980	27250
MAX	36800	34900	32900	35600	35100	33400	29600	34400	37500	37200	35900	33100
MIN	31000	19500	18400	20300	19500	20000	20500	22800	32100	33300	21100	15600
AC-FT	2106000	1750000	1692000	1888000	1765000	1770000	1564000	1887000	2076000	2185000	1905000	1622000

CAL YR 1983 TOTAL 9612940 MEAN 26340 MAX 50800 MIN 3300 AC-FT19067000
WTR YR 1984 TOTAL 11197600 MEAN 30590 MAX 37500 MIN 15600 AC-FT22210000

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1939 to current year.
CHEMICAL ANALYSES: October 1939 to September 1944, once daily (composited); October 1944 to July 1946 and November 1948 to July 1950, occasional (composited); October 1950 to September 1957, once daily (composited); October 1957 to September 1962, twice monthly (composited); October 1963 to September 1967, three times per month (composited); October 1967 to March 1970, once daily (composited); April 1970 to September 1981, monthly; October 1981 to current year, every two months.
SPECIFIC CONDUCTANCES: October 1939 to July 1957, once daily; August 1957 to September 1962 and October 1963 to March 1970, variable frequency of measurement; April 1970 to September 1977, monthly; October 1977 to current year, hourly.
BIOLOGICAL DATA: November 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: November 1974 to September 1981, monthly; October 1981 to current year, every two months.
WATER TEMPERATURES: October 1941 to July 1957, once daily; August 1957 to March 1970, variable frequency of measurement; April 1970 to September 1977, monthly; October 1977 to current year, hourly.
SEDIMENT DATA: August 1975 to September 1981, monthly; October 1981 to current year, every two months.

INSTRUMENTATION.--Specific-conductance and water-temperature recorder October 1977 to current year.

REMARKS.--Samples collected 0.3 mi downstream from gaging station in Hoover Dam powerhouse. Unpublished chemical analyses for period October 1939 to September 1940 available from the U.S. Geological Survey in Tucson, Ariz. Periods of no record for daily specific conductance and/or water temperature are due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE OCTOBER 1970.--
SPECIFIC CONDUCTANCES: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 875 micromhos Sept. 10, 1984.
PHYTOPLANKTON: Maximum, 3,800 cells/mL Nov. 5, 1974; minimum, 5 cells/mL Aug. 9, 1977.
FECAL STREPTOCOCCI: Maximum, 45 colonies/100 mL Mar. 9, 1977; minimum, <1 colony/100 mL several times during period of record.
WATER TEMPERATURES: Maximum, 21.5°C July 23, 1983; minimum, 9.0°C Feb. 12, 1975, and Jan. 10, 1978.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 24 mg/L July 7, 1982; minimum, <1 mg/L on several days in 1976, Oct. 16, 1979, several days in 1980, Sept. 16, 1981, and Mar. 9, 1982.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 990 micromhos Jan. 5; minimum, 875 micromhos Sept. 10.
WATER TEMPERATURES: Maximum, 15.0°C Nov. 8, 25; minimum, 11.5°C April 8.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
07...	1500	35800	950	7.9	14.0	.30	6.8	68	25	<2	K10
JAN											
05...	1300	23700	990	8.2	14.0	.40	9.0	89	12	<2	K4
MAR											
02...	1215	35900	950	8.2	12.5	.80	10.4	100	12	<2	<2
MAY											
03...	1130	34000	920	8.2	12.5	.60	9.3	90	70	<2	<2
JUL											
03...	0900	37400	920	8.1	12.5	.60	9.0	87	20	<2	<2
SEP											
05...	0930	36200	890	8.0	13.5	.60	7.5	74	40	<2	<2

K: NON-IDEAL COLONY COUNT.

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

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

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV											
07...	330	84	28	94	2	4.1	136	280	78	.30	8.3
JAN											
05...	300	74	28	92	2	4.3	133	260	78	.30	8.0
MAR											
02...	310	79	28	92	2	4.5	139	270	75	.30	8.2
MAY											
03...	300	75	27	86	2	4.0	136	270	72	.30	8.1
JUL											
03...	310	79	27	88	2	4.2	133	260	71	.40	8.4
SEP											
05...	290	75	25	82	2	4.7	133	240	64	.30	8.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)
NOV											
07...	667	660	64500	.380	.060	.80	.010	.010	<.010	<10	2
JAN											
05...	646	620	41300	.360	.030	<.20	<.010	<.010	<.010	--	--
MAR											
02...	653	640	63300	.340	.020	.20	<.010	<.010	.030	<10	2
MAY											
03...	645	630	59200	.120	.080	.50	.010	.010	.010	<10	2
JUL											
03...	627	620	63300	.330	.030	.20	.010	.010	.020	--	--
SEP											
05...	605	580	59100	.370	<.010	.50	.010	<.010	<.010	<10	2

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV										
07...	110	<.5	<1	1	<3	2	3	2	55	2
JAN										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	110	<.5	<1	1	<3	1	<3	<1	46	<1
MAY										
03...	110	<.5	<1	2	<3	1	3	<1	54	<1
JUL										
03...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	110	<1	<1	<1	<3	1	10	<1	42	7

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV										
07...	<.1	<10	<1	3	<1	1100	<6	6	3	290
JAN										
05...	--	--	--	--	--	--	--	--	4	256
MAR										
02...	<.1	<10	<1	3	<1	1000	<6	12	2	194
MAY										
03...	.1	<10	2	3	<1	1000	<6	8	2	184
JUL										
03...	--	--	--	--	--	--	--	--	9	909
SEP										
05...	<.1	<10	3	3	<1	990	<6	14	3	293

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	14.5	14.5	14.5	14.0	12.5	12.5	12.5	12.5
2			---	---	14.5	14.0	14.5	14.0	12.5	12.5	12.5	12.5
3			---	---	---	---	14.0	14.0	13.0	12.5	12.5	12.5
4			---	---	---	---	14.0	14.0	12.5	12.5	12.5	12.5
5			---	---	14.5	14.0	14.0	14.0	12.5	12.5	12.5	12.5
6			---	---	14.0	14.0	14.0	14.0	12.5	12.5	13.0	12.5
7			---	---	14.0	14.0	14.0	14.0	---	---	12.5	12.5
8			15.0	13.5	14.5	14.0	14.0	14.0	---	---	12.5	12.5
9			14.5	14.0	14.0	14.0	14.0	14.0	---	---	12.5	12.0
10			14.5	14.0	14.5	14.0	14.0	13.5	---	---	12.5	12.0
11			14.5	14.0	14.5	14.0	14.0	13.5	---	---	12.5	12.0
12			14.5	13.5	14.0	14.0	14.0	13.5	---	---	12.5	12.0
13			14.0	13.5	14.0	13.5	13.5	13.5	---	---	12.5	12.0
14			14.5	14.0	14.0	14.0	13.5	13.5	---	---	12.5	12.0
15			14.5	14.0	14.0	14.0	13.5	13.5	---	---	12.0	12.0
16			14.0	14.0	14.5	14.0	13.5	13.5	12.5	12.0	12.5	12.0
17			14.0	14.0	---	---	13.5	13.5	12.5	12.5	12.5	12.0
18			14.5	14.0	---	---	13.5	13.5	12.5	12.5	12.5	12.0
19			14.5	14.0	14.0	14.0	13.5	13.0	12.5	12.5	12.5	12.0
20			14.5	13.5	14.0	14.0	13.5	13.0	12.5	12.5	12.5	12.0
21			14.5	14.0	14.0	14.0	13.0	13.0	12.5	12.5	12.5	12.0
22			14.5	14.0	14.0	14.0	13.0	13.0	12.5	12.5	12.5	12.0
23			14.5	14.0	14.0	14.0	13.0	13.0	12.5	12.5	12.5	12.0
24			14.5	14.0	---	---	13.0	13.0	12.5	12.5	12.5	12.0
25			15.0	14.0	---	---	13.0	12.5	12.5	12.5	12.5	12.0
26			14.5	14.0	14.5	14.0	13.0	13.0	12.5	12.5	12.5	12.0
27			14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.5	12.5	12.0
28			14.5	14.5	14.5	14.0	13.0	12.5	12.5	12.5	12.5	12.0
29			14.5	14.0	14.0	14.0	12.5	12.5	12.5	12.5	12.5	12.0
30			14.5	14.5	14.0	14.0	12.5	12.5	---	---	12.5	12.0
31			---	---	---	---	12.5	12.5	---	---	12.5	12.0
MONTH			15.0	13.5	14.5	13.5	14.5	12.5	13.0	12.0	13.0	12.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.0
2	12.5	12.0	12.5	12.5	---	---	13.0	13.0	13.5	13.0	13.5	13.0
3	12.5	12.0	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.0
4	12.0	12.0	12.5	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5
5	12.0	12.0	12.5	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5
6	12.5	12.0	12.5	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5
7	12.5	12.0	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5
8	12.5	11.5	12.5	12.0	---	---	13.0	12.5	13.5	13.0	13.5	13.5
9	12.5	12.0	12.5	12.0	---	---	13.0	12.5	13.5	13.0	13.5	13.5
10	12.5	12.0	12.5	12.0	---	---	13.0	12.5	13.5	13.0	13.5	13.5
11	12.0	12.0	---	---	---	---	13.0	12.5	13.5	13.0	13.5	13.0
12	12.5	12.0	---	---	---	---	13.5	12.5	13.5	13.0	14.0	13.5
13	12.5	12.0	---	---	---	---	13.5	13.0	13.5	13.0	13.5	13.5
14	12.5	12.0	---	---	---	---	13.0	13.0	13.5	13.0	13.5	13.5
15	12.5	12.0	---	---	---	---	13.0	13.0	13.5	13.0	13.5	13.5
16	12.0	12.0	---	---	---	---	13.0	13.0	13.5	13.0	13.5	13.5
17	12.5	12.0	---	---	---	---	13.0	13.0	13.5	13.5	13.5	13.5
18	12.5	12.0	---	---	---	---	13.5	13.0	13.5	13.0	13.5	13.5
19	12.5	12.0	---	---	---	---	13.0	13.0	13.5	13.0	13.5	13.5
20	13.0	12.0	---	---	13.0	12.5	13.0	13.0	13.5	13.0	13.5	13.5
21	12.5	12.0	---	---	13.0	12.5	13.0	12.5	13.5	13.0	13.5	13.5
22	12.5	12.0	---	---	13.0	12.5	13.5	12.5	13.5	13.5	13.5	13.5
23	12.5	12.5	---	---	13.0	12.5	13.0	13.0	13.5	13.5	14.0	13.5
24	12.5	12.0	---	---	13.0	13.0	13.0	13.0	13.5	13.0	14.0	13.5
25	13.0	12.0	---	---	13.0	12.5	13.0	13.0	13.5	13.5	14.0	13.5
26	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5	14.0	13.5
27	12.5	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5	14.0	13.5
28	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5	14.0	13.5
29	12.5	12.5	---	---	13.0	13.0	13.5	13.0	13.5	13.5	14.0	13.5
30	13.0	12.5	---	---	13.0	12.5	13.5	13.0	13.5	13.5	14.0	13.5
31	---	---	---	---	---	---	13.5	13.0	13.5	13.0	---	---
MONTH	13.0	11.5	13.0	12.0	13.0	12.5	13.5	12.5	13.5	13.0	14.0	13.0
YEAR	15.0	11.5										

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	949	939
2									---	---	950	940
3									---	---	960	940
4									---	---	951	941
5									---	---	951	941
6									---	---	961	941
7									---	---	962	952
8									---	---	952	942
9									---	---	952	942
10									---	---	953	943
11									---	---	953	953
12									---	---	953	943
13									---	---	953	943
14									---	---	954	944
15									---	---	954	944
16									961	941	954	944
17									961	941	955	945
18									952	942	955	945
19									953	943	955	945
20									953	943	956	946
21									964	944	956	946
22									964	944	956	946
23									955	945	957	947
24									956	946	957	947
25									956	936	957	947
26									947	937	948	948
27									948	938	958	938
28									948	938	958	938
29									959	939	948	938
30									---	---	949	939
31									---	---	949	939
MONTH									964	936	962	938

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	949	939	921	911	---	---	932	932	910	890	900	880
2	950	940	921	911	---	---	930	930	910	890	900	880
3	960	940	920	910	---	---	930	920	910	890	900	880
4	959	939	930	920	---	---	930	920	910	890	890	880
5	949	949	930	920	---	---	920	920	900	890	890	880
6	948	938	940	920	---	---	920	910	910	890	891	881
7	947	937	940	930	---	---	920	910	900	890	892	882
8	947	937	930	920	---	---	920	910	900	890	893	883
9	946	936	940	930	---	---	920	910	900	890	894	884
10	945	935	950	930	---	---	920	910	910	890	895	875
11	945	935	---	---	---	---	920	910	900	890	886	876
12	944	934	---	---	---	---	920	910	900	890	887	877
13	943	933	---	---	---	---	920	910	900	890	898	878
14	943	933	---	---	---	---	920	910	900	880	889	879
15	942	932	---	---	---	---	920	910	900	880	890	880
16	941	931	---	---	---	---	910	900	900	880	891	881
17	941	931	---	---	---	---	910	900	900	890	892	882
18	940	930	---	---	---	---	910	900	900	890	893	883
19	939	919	---	---	---	---	910	900	900	890	894	884
20	939	919	---	---	961	951	910	900	900	880	896	886
21	928	918	---	---	960	950	910	900	900	890	897	877
22	937	927	---	---	959	949	900	890	900	890	898	888
23	937	927	---	---	958	948	910	890	900	890	899	879
24	936	926	---	---	957	947	910	890	900	890	900	890
25	935	915	---	---	953	943	910	890	900	890	901	881
26	935	925	---	---	952	942	910	900	890	890	902	892
27	934	924	---	---	951	941	910	900	900	880	903	893
28	933	923	---	---	940	930	910	900	900	890	904	894
29	933	923	---	---	939	929	910	890	900	890	905	885
30	932	922	---	---	943	923	910	890	890	880	906	886
31	---	---	---	---	---	---	910	900	890	880	---	---
MONTH	960	915	950	910	961	923	932	890	910	880	906	875
YEAR	964	875										

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

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, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River 29 mi west of Kingman, Ariz., and 67 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began January 17, 1950. Usable capacity, 1,810,000 acre-ft (between altitudes 533.39 ft)--lowest point of penstock outlet--and 647.0 ft--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 below altitude 533.39 ft. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft May 24, 1958, May 29, 1963, and May 29, 1982; maximum altitude, 647.04 ft May 29, 1963, May 29, 1982; minimum contents (since 1952), 1,168,000 acre-ft Sept. 8, 1953, altitude, 622.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,753,000 acre-ft Mar. 15, altitude 644.97 ft; minimum contents, 1,422,000 acre-ft Oct. 23, altitude 632.50 ft.

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

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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1595000	1450000	1524000	1655000	1701000	1730000	1692000	1527000	1613000	1636000	1692000	1665000
2	1590000	1449000	1530000	1650000	1709000	1734000	1685000	1532000	1615000	1640000	1696000	1638000
3	1580000	1442000	1523000	1655000	1713000	1729000	1682000	1536000	1616000	1641000	1693000	1623000
4	1570000	1445000	1518000	1664000	1706000	1725000	1676000	1541000	1614000	1643000	1699000	1623000
5	1561000	1439000	1527000	1666000	1697000	1722000	1671000	1538000	1611000	1644000	1700000	1628000
6	1549000	1427000	1537000	1667000	1698000	1727000	1666000	1530000	1609000	1640000	1701000	1634000
7	1537000	1433000	1549000	1652000	1701000	1732000	1655000	1532000	1610000	1650000	1701000	1639000
8	1525000	1443000	1564000	1638000	1703000	1735000	1648000	1537000	1610000	1650000	1703000	1624000
9	1516000	1452000	1575000	1637000	1708000	1738000	1642000	1541000	1607000	1654000	1708000	1600000
10	1503000	1459000	1572000	1638000	1715000	1739000	1633000	1544000	1604000	1655000	1716000	1601000
11	1491000	1465000	1566000	1645000	1711000	1732000	1625000	1545000	1602000	1659000	1707000	1602000
12	1479000	1449000	1576000	1651000	1702000	1735000	1615000	1544000	1601000	1660000	1694000	1607000
13	1466000	1429000	1585000	1655000	1704000	1741000	1605000	1546000	1601000	1661000	1696000	1609000
14	1454000	1439000	1591000	1658000	1706000	1749000	1585000	1548000	1603000	1665000	1699000	1615000
15	1441000	1448000	1597000	1657000	1710000	1753000	1567000	1549000	1604000	1670000	1698000	1604000
16	1428000	1455000	1604000	1662000	1714000	1751000	1559000	1551000	1606000	1677000	1696000	1577000
17	1426000	1468000	1597000	1669000	1717000	1747000	1552000	1553000	1605000	1679000	1693000	1580000
18	1425000	1478000	1581000	1675000	1713000	1727000	1546000	1554000	1605000	1686000	1689000	1587000
19	1425000	1472000	1583000	1681000	1710000	1729000	1544000	1554000	1604000	1689000	1682000	1592000
20	1424000	1464000	1584000	1686000	1711000	1730000	1546000	1547000	1603000	1694000	1683000	1597000
21	1427000	1472000	1596000	1667000	1715000	1734000	1536000	1552000	1601000	1692000	1686000	1601000
22	1426000	1478000	1611000	1649000	1724000	1739000	1522000	1559000	1602000	1692000	1684000	1593000
23	1425000	1482000	1625000	1654000	1728000	1740000	1521000	1568000	1605000	1691000	1688000	1571000
24	1428000	1483000	1620000	1656000	1734000	1730000	1526000	1575000	1608000	1689000	1692000	1573000
25	1425000	1490000	1606000	1659000	1717000	1719000	1527000	1580000	1611000	1688000	1690000	1579000
26	1424000	1492000	1608000	1668000	1709000	1722000	1527000	1578000	1618000	1687000	1670000	1582000
27	1430000	1490000	1624000	1669000	1703000	1722000	1531000	1582000	1622000	1686000	1671000	1585000
28	1438000	1503000	1634000	1670000	1714000	1720000	1521000	1585000	1626000	1686000	1675000	1587000
29	1443000	1509000	1648000	1675000	1723000	1717000	1519000	1593000	1631000	1688000	1680000	1588000
30	1449000	1516000	1661000	1633000	---	1715000	1514000	1601000	1636000	1689000	1686000	1584000
31	1451000	---	1659000	1692000	---	1708000	---	1608000	---	1691000	1686000	---
MAX	1595000	1516000	1661000	1692000	1734000	1753000	1692000	1608000	1636000	1694000	1716000	1665000
MIN	1424000	1427000	1518000	1637000	1697000	1708000	1514000	1527000	1601000	1636000	1670000	1571000
†	633.63	636.17	641.53	642.76	643.90	643.33	636.09	639.66	640.70	640.70	642.52	638.73
‡	-149000	-65000	+143000	+33000	+31000	-15000	-194000	+94000	+28000	+55000	-5000	-102000

CAL YR 1983 MAX 1801000 MIN 1424000 ‡ +13000
WTR YR 1984 MAX 1753000 MIN 1424000 ‡ -16000

† Elevation, in feet, at end of month.
‡ Change in storage, in acre-feet.

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE¼NE¼ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, Hydrologic Unit 15030101, on right bank 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, Ariz., and 68 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the 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 490.00 ft, National Geodetic Vertical Datum of 1929; gage readings have been reduced to altitudes NGVD since Oct. 1, 1967. 1905-7, nonrecording gage at site 4.8 mi downstream at datum about 3.4 ft lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to Feb. 24, 1956 water-stage recorder at site 400 ft upstream at datum higher. Feb. 25, 1956, to Sept. 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--Records good. 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.

AVERAGE DISCHARGE.--35 years (water years 1950-84), 13,170 ft^3/s, 9,542,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft^3/s June 20, 1906; minimum daily, 2,850 ft^3/s Jan. 5, 1906. 1949-84: Maximum discharge, 46,200 ft^3/s July 2, 1983, altitude, 509.48 ft; 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 ft^3/s Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,700 ft^3/s Oct. 3, altitude, 508.51 ft; minimum daily discharge, 24,600 ft^3/s Jan. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39800	33500	26100	24600	30600	29200	30400	26900	32300	34700	34800	29500
2	39800	33300	26100	24600	30500	29300	30400	27300	32500	34800	34900	29400
3	40100	33300	26100	24700	30400	29200	30400	27300	32400	34700	34800	29600
4	39800	33400	26000	27900	30400	29000	30600	27200	34700	34700	34900	29900
5	38800	33300	25900	30900	30400	29000	30700	27200	35800	34700	34900	29900
6	38700	33200	25900	31200	30500	29000	30700	27100	35900	34900	32100	29900
7	38700	31800	25800	32500	30500	29100	30800	27600	35800	35100	30500	30000
8	38700	30600	25700	33800	30500	29000	31100	28000	35600	35100	30400	30100
9	38800	30500	25600	33800	30600	28800	31000	28100	35300	35100	30300	30200
10	38700	30500	25500	32800	30700	28800	31200	29500	35300	35200	30500	30500
11	38700	30400	25500	31100	30500	28600	31500	30300	35100	35000	30400	30700
12	38600	30200	25500	31000	30700	28600	31400	30300	35100	34900	30300	30600
13	38700	28200	25500	31100	30700	28600	31400	30200	35100	35000	30500	30600
14	38700	27000	25400	31000	30600	28600	31400	30400	34900	35000	30600	30500
15	38500	26900	25300	31000	30600	28600	31700	30300	34700	35000	30600	30400
16	38200	26900	25200	30900	30700	28500	31900	30300	34800	34900	30500	30500
17	36500	26700	25200	30900	30600	28400	31900	30300	34800	34900	30600	29400
18	35900	26700	25200	30700	30600	28400	30500	30300	34900	35000	30600	28600
19	36100	26400	25300	30800	30400	28500	29600	30300	34600	34900	30700	28600
20	35700	26600	25300	30700	30500	28500	27300	30300	35000	34900	30700	28600
21	35900	26600	25400	30700	30600	28600	27300	30300	35000	35000	30700	28500
22	36100	26600	25300	30600	30700	28500	27200	30400	35100	34800	30700	28500
23	36200	26500	25100	30700	30600	28500	27200	30200	35000	34700	30700	28600
24	36300	26500	25000	30700	30700	28400	27400	30300	35000	34700	30700	28500
25	36500	26500	25100	30700	30600	28400	27200	30300	35000	34700	30700	28400
26	36700	26400	25200	30600	30500	28600	27400	30300	34900	34800	30600	28500
27	34500	26500	25200	30000	29700	28500	27500	30200	35100	34800	30100	28500
28	33000	26400	24900	30400	29200	28400	27300	30200	35000	34900	29600	28500
29	33100	26400	24800	30500	28500	29300	27400	30200	34800	34900	29600	28400
30	33200	26200	24800	30500	---	30400	27200	30200	34800	34900	29600	28400
31	33300	---	24700	30600	---	30500	---	31500	---	34800	29600	---
TOTAL	1152300	864000	787600	942000	882100	893300	889000	913300	1044300	1081500	966200	882300
MEAN	37170	28800	25410	30390	30420	28830	29630	29460	34810	34890	31170	29410
MAX	40100	33500	26100	33800	30700	30500	31900	31500	35900	35200	34900	30700
MIN	33000	26200	24700	24600	28500	28400	27200	26900	32300	34700	29600	28400
AC-FT	2286000	1714000	1562000	1868000	1750000	1773000	1763000	1812000	2071000	2145000	1916000	1750000

CAL YR 1983 TOTAL 9768900 MEAN 26760 MAX 45100 MIN 2190 AC-FT 19380000
WTR YR 1984 TOTAL 11298400 MEAN 30870 MAX 40100 MIN 24600 AC-FT 22410000

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1949 to October 1969, April 1970 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: July to October 1969 and April 1970 to current year, monthly.
WATER TEMPERATURES: March 1949 to June 1969, variable frequency of measurement; July to October 1969 and April 1970 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE JULY 1969.--
SPECIFIC CONDUCTANCES: Maximum, 1,290 micromhos Jan. 12, 1971; minimum, 900 micromhos Dec. 14, 1970, and Jan. 12, 1984.
WATER TEMPERATURES: Maximum, 22.0°C Aug. 2, 1983; minimum, 8.0°C Feb. 14, 1979.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT												
03...	1200	40300	1040	--	18.0	--	--	310	79	28	98	2
NOV												
17...	1530	25700	1000	7.8	15.0	--	--	320	81	29	99	2
DEC												
27...	1330	25100	1000	8.3	13.0	--	--	320	81	28	95	2
JAN												
12...	1130	31200	900	8.4	12.0	13.6	130	320	80	28	96	2
FEB												
15...	1100	30400	1000	7.5	12.5	10.2	99	330	83	29	96	2
MAR												
13...	1230	28600	990	8.2	13.0	9.8	97	310	78	28	92	2
APR												
11...	1130	30500	1000	8.7	15.0	9.0	93	320	80	28	90	2
MAY												
18...	0915	30300	990	7.9	17.0	9.1	99	310	77	28	93	2
JUN												
14...	1200	35000	980	7.7	17.5	8.2	91	310	79	27	88	2
JUL												
31...	1130	34700	960	8.1	19.0	8.8	101	280	71	26	85	2
AUG												
15...	1230	30600	950	6.9	18.0	7.9	88	300	76	27	86	2
SEP												
04...	1030	30000	950	8.2	18.0	7.8	87	290	73	26	83	2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT												
03...	4.4	134	280	91	.30	8.2	717	670	78000	.25	150	5
NOV												
17...	4.5	136	270	82	.30	8.7	673	660	46700	.30	120	6
DEC												
27...	4.4	134	260	79	.30	8.3	660	640	44700	.28	130	10
JAN												
12...	4.4	135	270	76	.30	8.0	673	640	56700	.25	120	6
FEB												
15...	5.5	139	270	79	.30	7.9	664	650	54500	.26	120	12
MAR												
13...	4.2	139	270	82	.30	7.6	674	650	52000	.24	120	15
APR												
11...	4.0	137	270	79	.30	7.7	674	640	55500	.26	120	<3
MAY												
18...	4.5	132	270	75	.30	7.8	657	630	53700	.21	120	6
JUN												
14...	4.9	129	280	77	.30	8.1	647	640	61100	.30	120	18
JUL												
31...	3.8	127	250	71	.30	8.1	648	590	60700	.26	130	14
AUG												
15...	4.0	129	250	67	.30	8.0	619	600	51100	.28	110	18
SEP												
04...	4.5	118	250	68	.30	8.2	613	580	49700	.26	130	6

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, on right bank 2 mi downstream from North Fork, 4 mi southwest of Cleveland Ranch headquarters, and east of Ely.

DRAINAGE AREA.--31.8 mi^2.

PERIOD OF RECORD.--June 1914 to December 1916 (published as Cleveland Creek near Osceola), October 1959 to September 1967, October 1976 to September 1981, December 1982 to current year; crest-stage partial-record station October 1967 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft, aproximately from topographic map. Oct. 1, 1967, to Sept. 30, 1967, crest-stage gage at same site and datum. Prior to Sept. 13, 1984, at site ¼ mile upstream, at different datum.

REMARKS.--Records poor. Stage-discharge relation indefinite April 16 to May 26. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--16 years (1915-16, 1960-67, 1977-81, 1984), 10.2 ft^3/s, 7,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft^3/s May 30, 1983; maximum gage height, unknown, May 30, 1983; minimum discharge, 2.3 ft^3/s Feb. 27, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
May 14	2200	*189	1.11
May 21	0800	117	1.01
May 24	0400	132	*1.12

Minimum daily discharge, 10 ft^3/s, Dec. 28 to Jan. 4, Jan. 18-20, and Feb. 18-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	14	10	13	12	18	32	64	24	17	15
2	17	15	13	10	13	12	17	30	57	22	18	15
3	16	15	13	10	13	12	17	32	54	22	17	15
4	16	15	14	10	13	12	18	35	50	21	16	14
5	16	14	13	11	13	14	18	40	46	21	15	14
6	16	14	13	11	14	13	19	42	44	20	15	13
7	16	15	13	12	13	13	20	42	42	20	15	14
8	16	15	13	12	13	13	21	42	37	20	14	14
9	16	15	13	12	13	13	21	48	35	19	14	13
10	17	15	13	12	12	14	21	55	34	19	14	13
11	16	15	13	12	12	15	22	70	33	19	14	14
12	16	15	13	12	13	15	22	85	31	19	15	19
13	16	15	13	12	15	15	26	98	31	19	14	18
14	16	15	13	12	14	16	29	139	30	18	16	18
15	16	14	13	12	13	16	31	108	29	18	16	17
16	16	14	13	13	12	16	41	96	29	17	16	16
17	16	14	13	12	11	15	40	85	29	17	16	16
18	16	14	13	10	10	15	40	78	30	17	16	16
19	16	14	13	10	10	15	39	71	28	17	17	16
20	16	14	13	10	10	16	38	85	29	17	17	15
21	16	14	12	11	10	17	38	101	28	18	17	16
22	16	13	12	12	10	17	38	95	27	18	17	16
23	16	14	12	12	10	17	39	100	26	17	18	16
24	16	13	12	12	10	17	44	105	26	16	17	15
25	16	14	13	12	10	18	44	90	24	17	17	15
26	15	14	12	13	10	19	42	75	24	16	17	15
27	15	14	11	12	10	18	39	68	26	16	17	15
28	15	13	10	12	10	18	38	65	26	17	16	15
29	15	13	10	12	11	18	36	64	24	19	15	15
30	15	13	10	12	---	18	34	59	24	18	15	14
31	15	---	10	12	---	18	---	61	---	17	15	---
TOTAL	494	427	386	357	341	477	910	2196	1017	575	493	457
MEAN	15.9	14.2	12.5	11.5	11.8	15.4	30.3	70.8	33.9	18.5	15.9	15.2
MAX	18	15	14	13	15	19	44	139	64	24	18	19
MIN	15	13	10	10	10	12	17	30	24	16	14	13
AC-FT	980	847	766	2 708	676	946	1800	4360	2020	1140	978	906

CAL YR 1983	TOTAL	11250.8	MEAN	30.8	MAX	280	MIN	9.2	AC-FT	22320
WTR YR 1984	TOTAL	8130	MEAN	22.2	MAX	139	MIN	10	AC-FT	16130

10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic bench-mark station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¼SW¼ sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank 0.1 mi downstream from Clear Creek, 0.8 mi upstream from Cave Creek, and 11 mi east-southeast of Ely.

DRAINAGE AREA.--11.1 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,440 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years, 8.07 ft^3/s 5,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75 ft^3/s May 24, 1983, gage height, 3.21 ft; minimum discharge, 2.0 ft^3/s Dec. 22, 1966, Mar. 3, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft^3/s May 25, gage height, 2.46 ft; minimum daily, 6.6 ft^3/s Jan. 28-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.8	8.3	7.3	6.8	7.0	8.9	16	43	21	13	10
2	11	9.6	8.3	7.3	6.8	7.0	9.1	16	42	21	13	10
3	11	9.6	8.4	7.4	6.9	7.1	8.8	16	41	20	13	9.9
4	11	9.5	8.4	7.2	7.0	7.1	8.9	16	40	20	12	9.9
5	11	9.3	8.1	7.2	7.0	7.2	9.0	17	38	19	12	9.9
6	11	9.2	8.6	7.2	7.0	7.4	9.1	18	37	19	12	9.9
7	11	9.3	8.5	7.3	7.1	7.4	9.1	18	36	19	12	9.9
8	11	9.3	8.5	7.5	7.2	7.2	9.5	19	35	18	12	9.8
9	11	9.2	8.4	7.4	7.5	7.3	9.8	21	34	18	12	9.7
10	11	9.2	8.3	7.4	7.2	7.5	10	24	34	18	12	9.6
11	10	9.2	8.3	7.5	7.4	7.5	10	27	32	17	12	10
12	10	9.1	8.3	7.2	7.5	7.7	11	33	31	17	11	10
13	10	9.2	8.1	7.0	7.5	7.7	11	36	30	17	12	9.7
14	10	9.0	8.1	7.3	7.2	7.9	12	40	30	17	12	9.5
15	10	9.0	8.0	7.1	7.2	7.9	13	44	29	16	12	9.5
16	10	8.8	7.7	7.0	7.3	8.1	17	44	28	16	12	9.3
17	10	8.8	8.0	6.9	7.1	8.2	19	42	28	16	11	9.3
18	10	8.7	7.9	6.7	7.1	7.8	20	39	27	16	11	9.2
19	10	8.7	7.9	6.9	7.0	8.1	20	37	27	16	11	9.2
20	10	8.7	7.5	6.8	7.0	8.2	19	38	26	16	11	9.3
21	10	8.7	7.4	6.8	7.0	8.3	18	38	26	15	11	9.2
22	10	8.6	7.5	6.8	6.9	8.6	17	41	25	15	11	9.2
23	10	8.7	7.9	6.8	6.9	8.7	16	45	25	15	11	9.2
24	10	8.7	7.9	6.8	7.0	9.0	18	48	24	15	11	9.2
25	9.9	8.6	7.8	6.8	7.1	9.0	18	49	24	14	11	9.1
26	9.9	8.5	7.7	6.8	7.0	9.2	18	49	23	14	11	9.0
27	9.9	8.3	7.6	6.7	7.0	9.0	18	48	23	14	11	8.9
28	9.9	8.7	7.3	6.6	7.0	8.9	17	47	22	14	11	8.9
29	9.8	8.5	7.7	6.6	7.0	9.4	16	45	22	14	10	8.8
30	9.9	8.5	7.8	6.6	---	9.0	16	44	22	14	10	8.8
31	9.9	---	7.7	6.8	---	9.2	---	43	---	14	10	---
TOTAL	319.2	269.0	247.9	217.7	205.7	249.6	416.2	1058	904	515	356	283.9
MEAN	10.3	8.97	8.00	7.02	7.09	8.05	13.9	34.1	30.1	16.6	11.5	9.46
MAX	11	9.8	8.6	7.5	7.5	9.4	20	49	43	21	13	10
MIN	9.8	8.3	7.3	6.6	6.8	7.0	8.8	16	22	14	10	8.8
AC-FT	633	534	492	432	408	495	826	2100	1790	1020	706	563

CAL YR 1983	TOTAL	6873.4	MEAN	18.8	MAX	79	MIN	6.4	AC-FT	13630
WTR YR 1984	TOTAL	5042.2	MEAN	13.8	MAX	49	MIN	6.6	AC-FT	10000

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1966 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: March 1968 to September 1982, monthly; October 1982 to current year, four times per year.
BIOLOGICAL DATA: May 1975 to August 1977, twice yearly; April 1978 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to September 1982, monthly; October 1982 to current year, four times per year.
WATER TEMPERATURES: October 1966 to September 1982, continuous; October 1982 to current year, four times per year.
SEDIMENT DATA: February 1968 to September 1975, monthly; October 1975 to September 1977, occasionally (at times of noticeable turbidity or high discharge); October 1977 to September 1982, monthly; October 1982 to current year, four times per year.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 403 micromhos May 18, 1975; minimum, 218 micromhos June 22, 1978.
PHYTOPLANKTON: Maximum, 590 cells/mL July 23, 1980; minimum, less than 1 cell/mL May 19, 1978, May 22, 1979, June 25, Aug. 19, and Sept. 16, 1980.
FECAL STREPTOCOCCI: Maximum, 1,400 colonies/100 mL (non-ideal colony count) Feb. 23, 1977; minimum, less than 1 colony/100 mL May 13, 1981.
WATER TEMPERATURES: Maximum, 11.0°C on several days in May 1968, July 31 to Sept. 9, 1969, and July 17, 1979; minimum, 2.5°C Dec. 9, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,000 mg/L May 26, 1983; minimum, 3 mg/L Aug. 21, 1973, Aug. 20 and Oct. 1, 1974, Nov. 28, 1979, and Oct. 20, 1981.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV												
02...	0945	9.6	351	8.6	6.5	.60	9.3	100	<1	170	190	56
MAR												
21...	0915	8.5	358	8.5	6.0	2.2	9.6	102	<2	K2	190	57
MAY												
24...	1100	48	320	8.1	8.0	11	9.1	101	K2	K32	190	65
AUG												
29...	0900	10	345	8.4	7.5	1.1	9.2	100	K16	58	180	54

K: NON-IDEAL COLONY COUNT.

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

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

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)
NOV 02...	11	2.2	.0	.60	180	10	1.5	<.10	7.3	189	200	4.9
MAR 21...	11	2.8	.0	.70	183	15	1.6	<.10	7.2	207	210	4.8
MAY 24...	7.3	2.6	.0	.60	170	15	1.4	<.10	8.2	193	200	25
AUG 29...	11	2.2	.0	.70	179	10	.70	<.10	7.0	--	190	5.2

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)
NOV 02...	.160	.070	.50	<.010	<.010	<.010	<10	1	50	.5	<1	<1
MAR 21...	.160	<.010	.30	.010	.010	.030	--	--	--	--	--	--
MAY 24...	.250	.040	.50	.040	.030	.040	20	1	46	<1	<1	<1
AUG 29...	.190	<.010	<.20	.010	<.010	<.010	--	--	--	--	--	--

DATE	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)
NOV 02...	<3	1	4	<1	13	2	<.1	<10	3	<1	<1	88
MAR 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	<3	1	13	<1	11	<1	<.1	<10	<1	<1	<1	94
AUG 29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV 02...	<6	9	<7.8	<.4	<3.2	<.4	<2.7	<.4	.07	1.1	13	.34
MAR 21...	--	--	--	--	--	--	--	--	--	--	16	.37
MAY 24...	<6	8	--	--	--	--	--	--	--	--	68	8.8
AUG 29...	--	--	--	--	--	--	--	--	--	--	20	.54

10245030 CURRIE SPRING NEAR CURRIE, NV

LOCATION.-- Lat 40°15'48", long 114°45'09", in NE¼ sec.33, T.28 N., R.64 E., in Elko County, Hydrologic Unit 16060008, on left bank and 0.5 mi southwest of Currie, NV.

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,800 ft, from topographic map.

REMARKS.--Records good. May receive inflow from irrigation at times upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12 ft^3/s July 13, 1983, gage height 1.66 ft; minimum daily, 3.0 ft^3/s July 25-28, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft^3/s Aug. 2, gage height 1.61 ft; minimum daily, 2.4 ft^3/s Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.7	5.2	3.2	4.0	9.5	5.8	4.8	8.6	9.7	3.5	2.4
2	6.8	5.8	5.3	3.2	4.0	9.8	5.6	4.8	8.4	8.7	5.2	3.3
3	6.4	5.7	5.7	3.2	4.0	10	5.2	4.6	8.8	5.0	4.0	3.8
4	6.2	5.6	4.2	3.2	4.0	9.6	5.0	4.7	9.8	5.7	3.4	3.9
5	6.1	5.5	3.6	3.2	3.9	9.2	4.9	4.7	9.8	6.4	3.2	4.1
6	6.1	5.5	3.4	3.1	3.9	7.8	4.9	4.8	10	6.8	3.1	4.2
7	6.0	5.6	3.4	3.1	3.8	5.5	4.8	4.8	9.8	6.9	3.1	3.7
8	6.0	6.0	3.4	3.1	3.7	5.6	4.8	4.8	9.9	6.9	3.1	3.7
9	6.0	5.8	3.4	3.1	3.7	5.7	4.7	4.7	9.8	6.9	3.1	3.7
10	6.4	5.7	3.4	3.1	3.6	5.5	4.9	4.7	9.9	6.9	3.2	3.6
11	6.0	5.4	3.4	3.1	3.5	5.5	4.7	3.9	10	6.9	3.2	3.5
12	5.9	5.6	3.4	3.0	3.4	5.3	4.3	3.9	10	7.0	3.1	3.9
13	6.1	6.2	3.4	3.0	3.3	5.4	4.3	4.4	10	7.0	3.2	4.3
14	6.1	5.7	3.4	3.0	3.2	5.5	4.2	4.5	9.9	6.6	3.2	4.3
15	6.0	5.7	3.3	3.0	3.1	5.2	4.2	4.7	10	6.6	3.3	4.5
16	5.9	5.6	3.3	2.9	3.0	5.0	4.2	5.1	10	6.6	3.5	4.7
17	6.0	6.0	3.3	2.9	3.0	4.9	4.1	5.4	10	6.7	3.3	4.6
18	6.0	5.9	3.3	2.9	3.0	4.7	4.3	6.3	10	6.7	3.3	4.6
19	6.0	5.2	3.3	2.9	3.1	5.1	4.7	6.6	10	7.0	3.2	4.7
20	6.0	5.0	3.3	2.9	3.5	5.1	4.4	6.7	9.7	5.1	3.3	5.1
21	5.9	4.7	3.3	2.9	4.0	5.0	4.4	6.7	9.8	5.4	3.3	5.0
22	5.8	4.1	3.3	2.9	4.7	4.9	4.5	6.8	9.8	5.6	3.3	5.0
23	6.0	4.3	3.3	2.9	5.4	4.9	4.4	6.9	9.9	4.1	3.5	5.1
24	6.6	4.4	3.3	3.0	6.0	5.0	4.3	7.0	9.7	3.6	3.4	6.0
25	6.1	3.7	3.3	3.1	6.8	5.0	4.4	7.0	9.8	3.8	3.4	5.2
26	5.9	3.5	3.2	3.2	7.4	6.1	4.7	7.6	9.9	3.9	3.4	5.3
27	5.9	3.2	3.2	3.5	8.0	5.5	4.8	8.2	9.7	3.7	3.4	5.2
28	5.8	3.5	3.2	3.7	8.4	5.3	4.7	7.9	7.2	3.6	3.3	5.2
29	5.7	4.2	3.2	3.8	8.8	5.4	4.7	7.9	8.9	3.6	3.3	5.3
30	5.7	4.9	3.2	3.9	---	5.3	4.8	8.1	9.7	3.4	2.7	5.4
31	6.4	---	3.2	3.9	---	5.4	---	9.0	---	3.3	2.5	---
TOTAL	188.0	153.7	110.1	97.9	130.2	187.7	139.7	182.0	288.8	180.1	103.0	133.3
MEAN	6.06	5.12	3.55	3.16	4.49	6.05	4.66	5.87	9.63	5.81	3.32	4.44
MAX	6.8	6.2	5.7	3.9	8.8	10	5.8	9.0	10	9.7	5.2	6.0
MIN	5.7	3.2	3.2	2.9	3.0	4.7	4.1	3.9	7.2	3.3	2.5	2.4
AC-FT	373	305	218	194	258	372	277	361	573	357	204	264

WTR YR 1984 TOTAL 1894.5 MEAN 5.18 MAX 10 MIN 2.4 AC-FT 3760

10245040 GOSHUTE CREEK NEAR CHERRY CREEK, NV

LOCATION.--Lat 40°03'05", long 114°47'58", in SW¼ sec.12, T.9 S., R.64 E., in White Pine County, Hydrologic Unit 1606008, and 11 mi north of Cherry Creek, NV.

DRAINAGE AREA.--9.67 mi^2 .

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

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft, from topographic map. Prior to Aug. 10, 1983, at site 0.3 mi downstream at different datum. Aug. 10, 1983, to June 21, 1984, at present site at datum, 2.0 ft higher.

REMARKS.--Records good, except for period May 15-30 when stage-discharge relation was indefinite and May 31 to June 26 when there was no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 245 ft^3/s May 29, 1983, gage height 2.37 ft, site then in use, maximum gage height, 2.64 ft May 14, 1984, present datum; minimum daily, 1.1 ft^3/s Jan. 4. 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 102 ft^3/s May 14, gage-height 2.64 ft; minimum daily, 2.3 ft^3/s Dec. 6-8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	2.7	2.4	2.5	2.5	2.6	3.7	9.3	38	13	9.0	4.1
2	3.6	2.7	2.4	2.5	2.5	2.5	3.7	9.3	37	13	8.4	3.7
3	3.5	2.7	2.4	2.5	2.5	2.5	3.6	9.5	36	13	7.9	3.7
4	3.3	2.7	2.5	2.5	2.5	2.5	3.6	9.7	34	13	7.9	4.1
5	3.3	2.6	2.4	2.5	2.4	2.5	3.7	12	33	13	7.4	4.1
6	3.2	2.6	2.3	2.6	2.5	2.5	3.8	13	32	13	7.4	4.1
7	3.2	2.6	2.3	2.6	2.5	2.4	3.8	11	31	13	6.9	3.7
8	3.1	2.6	2.3	2.7	2.5	2.4	3.9	12	30	11	6.4	3.7
9	3.1	2.5	2.4	2.7	2.5	2.4	3.9	19	29	11	6.0	3.7
10	3.1	2.5	2.4	2.7	2.6	2.4	4.1	24	28	11	6.0	3.7
11	3.1	2.6	2.4	2.8	2.7	2.5	4.4	44	27	10	6.0	3.4
12	3.1	2.6	2.4	2.8	2.7	2.5	4.4	45	27	10	6.0	3.4
13	3.1	2.6	2.4	2.8	2.7	2.6	4.7	63	26	9.6	6.0	3.4
14	3.1	2.6	2.4	2.8	2.8	2.7	4.7	86	25	9.0	6.9	3.4
15	3.0	2.5	2.6	2.8	2.8	2.8	5.3	69	24	10	6.4	3.4
16	3.0	2.5	2.5	2.8	2.8	2.8	6.9	59	23	11	5.6	3.1
17	3.0	2.6	2.5	2.7	2.8	3.0	9.3	51	22	9.6	5.6	3.4
18	2.8	2.5	2.5	2.6	2.8	3.0	9.0	45	21	9.0	6.4	3.4
19	2.8	2.6	2.6	2.6	2.8	3.0	9.5	48	20	8.4	7.4	3.1
20	2.8	2.6	2.5	2.5	2.8	3.1	9.5	53	19	8.4	6.0	3.4
21	2.8	2.5	2.5	2.6	2.8	3.2	9.5	56	18	9.0	6.0	3.4
22	2.8	2.5	2.5	2.7	2.7	3.2	9.5	58	18	9.0	6.4	3.4
23	2.8	2.5	2.5	2.7	2.6	3.3	10	59	17	7.9	5.6	3.4
24	2.8	2.5	2.5	2.7	2.5	3.3	12	58	16	8.4	5.2	3.7
25	2.7	2.5	2.5	2.8	2.6	3.6	13	54	16	9.6	4.8	3.4
26	2.6	2.5	2.5	2.8	2.5	3.7	12	51	15	13	4.8	3.4
27	2.7	2.4	2.5	2.7	2.5	3.7	10	48	16	10	4.1	3.1
28	2.7	2.4	2.5	2.7	2.6	3.7	10	45	17	9.6	4.1	3.1
29	2.6	2.4	2.5	2.6	2.6	3.7	9.7	43	17	9.0	4.1	3.1
30	2.6	2.4	2.4	2.5	---	3.7	9.7	40	15	8.4	4.1	3.1
31	2.7	---	2.5	2.5	---	3.7	---	39	---	8.4	4.1	---
TOTAL	92.4	76.5	76.0	82.3	76.1	91.5	210.9	1242.8	727	321.3	188.9	105.1
MEAN	2.98	2.55	2.45	2.65	2.62	2.95	7.03	40.1	24.2	10.4	6.09	3.50
MAX	3.6	2.7	2.6	2.8	2.8	3.7	13	86	38	13	9.0	4.1
MIN	2.6	2.4	2.3	2.5	2.4	2.4	3.6	9.3	15	7.9	4.1	3.1
AC-FT	183	152	151	163	151	181	418	2470	1440	637	375	208

CAL YR 1983 TOTAL 2397.8 MEAN 6.57 MAX 118 MIN 1.1 AC-FT 4760

JAKES VALLEY

10245445 ILLIPAH CREEK NEAR HAMILTON, NV

LOCATION.--Lat 39°19'07", long 115°23'39", in NE¼NW¼ sec.25, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, on left bank, in Humboldt National Forest, and 4.5 mi southwest of Illipah, NV, 6.7 mi northeast of Hamilton, NV, and 28 mi northwest of Ely, NV.

DRAINAGE AREA.--31.5 mi^2.

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,840 ft, from topographic map. Prior to Dec. 13, 1983, at present site at datum, 1.0 ft higher.

REMARKS.--Records good, except for winter months and periods when flow exceeds 15 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 446 ft^3/s Aug. 22, 1984, gage height 6.05; minimum daily, 4.8 ft^3/s April 2, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 446 ft^3/s Aug. 22, gage height 6.05 ft; minimum daily, 4.8 ft^3/s April 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	7.1	5.4	7.7	8.7	11	5.0	6.7	8.0	8.2	8.1	7.5
2	8.7	6.8	5.5	7.7	9.4	11	4.8	8.2	7.8	8.1	10	7.5
3	8.4	6.7	5.5	7.6	9.6	8.1	5.2	8.3	7.9	8.1	7.9	7.5
4	8.5	6.6	5.7	7.5	9.0	7.1	5.9	7.3	8.3	8.1	7.9	7.5
5	8.3	6.6	6.4	7.5	9.2	8.2	7.1	6.8	8.3	8.1	7.9	7.6
6	8.2	6.5	7.8	7.4	9.0	9.1	7.2	6.3	8.5	8.2	7.9	7.6
7	9.3	6.7	9.0	7.6	8.9	12	6.1	6.3	8.1	8.1	8.0	7.6
8	8.2	6.4	9.1	7.5	8.9	12	6.5	6.8	8.1	8.2	8.1	7.6
9	8.0	6.2	9.0	7.7	8.9	11	6.8	7.2	8.1	8.1	8.1	7.6
10	8.0	6.2	9.0	7.5	8.8	7.4	7.1	9.2	8.3	8.2	8.2	9.1
11	8.0	6.3	8.8	7.4	8.8	7.4	6.9	11	8.3	8.2	8.1	27
12	8.0	6.1	8.8	7.6	8.9	6.9	6.9	11	8.3	8.2	8.1	11
13	7.9	6.4	9.0	7.7	9.1	7.4	9.5	9.2	8.3	8.3	8.2	8.1
14	7.9	6.2	9.8	7.8	9.3	8.3	13	8.4	8.3	8.2	9.1	7.4
15	7.7	6.0	9.7	8.0	9.7	6.8	16	7.9	8.4	8.2	8.7	7.4
16	7.5	6.1	9.9	8.2	8.9	6.6	19	7.6	8.2	8.3	8.7	7.2
17	7.5	6.3	8.7	8.3	8.6	6.1	15	7.2	8.3	8.3	8.2	7.1
18	7.5	6.1	8.8	8.4	8.4	6.9	13	7.2	8.2	8.3	8.7	7.4
19	7.4	5.7	8.9	8.4	8.3	6.3	10	7.3	8.2	8.5	9.7	7.4
20	7.4	6.1	9.1	8.4	8.2	7.1	7.0	7.4	8.1	8.8	8.5	7.4
21	7.1	5.8	9.0	8.5	8.1	7.1	6.5	7.6	8.2	10	8.5	7.2
22	7.1	5.6	8.9	8.6	8.2	6.1	8.3	7.6	8.2	9.7	46	7.1
23	7.2	5.7	8.7	8.6	7.9	6.0	9.8	7.5	8.2	8.8	13	7.1
24	7.0	5.8	8.5	8.7	7.6	6.4	9.6	7.6	8.2	8.6	8.1	7.3
25	6.9	5.8	8.5	8.7	7.6	6.4	6.7	7.6	8.4	8.8	7.9	7.2
26	7.0	5.8	8.4	8.7	7.7	9.1	6.3	7.7	8.2	9.7	7.8	7.1
27	6.9	5.7	8.4	8.8	7.8	6.2	5.7	7.7	8.1	11	7.6	7.0
28	6.9	5.5	8.1	8.9	7.8	5.9	5.6	7.7	8.1	20	7.6	6.9
29	6.9	5.5	7.9	8.9	8.4	5.3	5.6	7.8	8.3	7.9	7.6	6.8
30	7.0	5.4	7.7	8.9	---	5.1	6.2	7.8	8.4	8.0	7.6	6.9
31	7.5	---	7.6	8.9	---	5.1	---	8.1	---	8.1	7.5	---
TOTAL	238.7	183.7	255.6	252.1	249.7	235.4	248.3	242.0	246.3	275.3	297.3	245.1
MEAN	7.70	6.12	8.25	8.13	8.61	7.59	8.28	7.81	8.21	8.88	9.59	8.17
MAX	9.3	7.1	9.9	8.9	9.7	12	19	11	8.5	20	46	27
MIN	6.9	5.4	5.4	7.4	7.6	5.1	4.8	6.3	7.8	7.9	7.5	6.8
AC-FT	473	364	507	500	495	467	493	480	489	546	590	486

WTR YR 1984 TOTAL 2969.5 MEAN 8.11 MAX 46 MIN 4.8 AC-FT 5890

10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S½NE¼ sec. 23, T.18 N., R.56 E., White Pine County, Hydrologic Unit 16060006, on left bank above culvert on U.S. Highway 50, 3.5 mi east of Pancake Summit, 14 mi northwest of Hamilton, and 19 mi east of Eureka.

DRAINAGE AREA.--157 mi^2.

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, from topographic map. October 1961 to August 1962, crest-stage gage at same site and datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--22 years, 0.312 ft^3/s, 226 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft^3/s Mar. 9, 1979, gage height, 6.70 ft, from high-water marks; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 6	1600	12	2.22	Sept. 11	2300	10	2.19
July 27	1345	57	2.58	Sept. 20	1430	*58	2.60

No flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	3.0	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	2.0	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	1.5	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.02
11	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.33
12	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.01
14	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.7
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.8	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	8.80	.00	.00	.00	.00	1.80	.00	2.06
MEAN	.00	.00	.00	.00	.30	.00	.00	.00	.00	.06	.00	.07
MAX	.00	.00	.00	.00	3.0	.00	.00	.00	.00	1.8	.00	1.7
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	17	.00	.00	.00	.00	3.6	.00	4.1

CAL YR 1983	TOTAL	1150.30	MEAN	3.15	MAX	215	MIN	.00	AC-FT	2280
WTR YR 1984	TOTAL	12.66	MEAN	.03	MAX	3.0	MIN	.00	AC-FT	25

10245900 PINE CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°47'40", long 116°51'13", in NW¼SE¼ sec.13, T.16 N., R.45 E., Nye County, Hydrologic Unit 16060005, on right bank, 2.9 mi west of Pine Creek Ranch, and 7.2 mi north of Belmont.

DRAINAGE AREA.--12.2 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage 7,560 ft, from topographic map.

REMARKS.--Records good. No diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--7 years, 7.45 ft^3/s, 5,400 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340 ft^3/s May 29, 1983, gage height, 4.66 ft; minimum daily, 0.56 ft^3/s Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft^3/s May 29, gage height, 2.93 ft; minimum daily, 1.7 ft^3/s Mar. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	3.8	2.5	2.1	1.9	1.9	2.0	3.3	58	15	16	8.9
2	4.6	3.5	2.6	2.2	1.9	1.9	2.0	3.0	48	13	16	8.5
3	4.6	3.3	2.7	2.2	1.9	1.9	1.9	3.0	50	13	15	7.9
4	4.5	3.3	2.6	2.2	1.9	1.9	1.9	3.6	48	12	14	7.6
5	4.5	3.3	2.5	2.2	1.9	1.7	1.9	4.1	45	11	13	8.2
6	4.5	3.2	2.9	2.2	1.9	2.0	1.9	4.2	42	10	12	8.2
7	4.5	3.2	2.7	2.2	1.9	2.0	1.9	4.8	37	9.5	11	7.1
8	4.6	3.1	2.6	2.2	1.9	2.0	2.0	6.3	32	9.0	10	6.7
9	4.3	3.0	2.6	2.2	1.9	2.0	2.0	11	28	8.4	9.8	6.4
10	4.3	3.0	2.6	2.1	1.9	2.0	2.0	17	25	7.8	9.6	6.4
11	4.3	3.0	2.6	2.0	1.8	2.0	2.1	24	24	7.3	9.1	6.7
12	3.9	3.0	2.6	2.0	1.9	2.0	2.1	34	23	6.9	8.6	6.9
13	4.1	3.0	2.6	1.9	1.9	2.0	2.2	44	21	6.8	8.2	6.3
14	4.8	3.0	2.6	1.9	2.0	2.0	2.5	55	20	6.6	8.6	6.1
15	4.8	3.0	2.6	1.9	2.0	2.0	2.9	49	19	6.3	9.3	5.9
16	4.5	2.8	2.6	1.9	2.0	1.9	3.6	37	18	6.1	9.5	6.3
17	4.5	2.8	2.6	1.9	1.9	1.9	4.7	30	18	5.8	8.8	6.2
18	4.5	2.8	2.5	1.9	1.8	1.9	4.8	24	17	8.2	8.7	5.8
19	4.2	2.7	2.4	1.9	1.9	2.1	4.5	27	17	12	9.4	6.1
20	3.9	2.6	2.2	1.9	1.9	2.0	4.1	34	17	11	9.5	6.3
21	3.9	2.4	2.0	1.9	1.9	2.0	3.8	44	17	14	9.7	5.8
22	3.9	2.2	2.3	1.9	1.9	2.0	3.6	62	16	20	11	5.7
23	3.7	2.4	2.5	1.9	1.9	2.0	3.5	84	16	18	12	5.5
24	3.7	2.5	2.5	1.9	1.9	2.0	3.5	91	16	16	11	5.5
25	3.7	2.4	2.5	1.9	1.9	1.9	4.0	79	16	14	11	5.5
26	3.7	2.2	2.3	1.9	1.9	1.9	4.3	72	16	13	11	5.5
27	3.7	2.0	2.2	1.9	1.9	2.1	4.6	82	16	14	11	5.3
28	3.6	2.2	1.8	1.9	1.9	1.9	4.3	81	15	15	11	5.0
29	3.5	2.3	2.2	1.9	1.9	2.1	4.1	80	15	14	10	5.0
30	3.9	2.4	2.5	1.9	---	2.0	3.7	94	16	13	10	5.1
31	4.2	---	2.3	1.9	---	2.0	---	82	---	14	9.4	---
TOTAL	130.8	84.4	76.7	61.9	55.2	61.0	92.4	1269.3	766	350.7	333.2	192.4
MEAN	4.22	2.81	2.47	2.00	1.90	1.97	3.08	40.9	25.5	11.3	10.7	6.41
MAX	5.4	3.8	2.9	2.2	2.0	2.1	4.8	94	58	20	16	8.9
MIN	3.5	2.0	1.8	1.9	1.8	1.7	1.9	3.0	15	5.8	8.2	5.0
AC-FT	259	167	152	123	109	121	183	2520	1520	696	661	382

CAL YR 1983	TOTAL	5060.8	MEAN	13.9	MAX	290	MIN	1.2	AC-FT	10040
WTR YR 1984	TOTAL	3474.0	MEAN	9.49	MAX	94	MIN	1.7	AC-FT	6890

10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW¼SW¼ sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 27.4 mi east of Carvers on State Highway 8A, 59 mi northeast of Tonopah, and 17.9 mi northeast of Belmont.

DRAINAGE AREA.--15.1 mi^2.

PERIOD OF RECORD.--October 1977 to September 1982, October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft, from topographic map.

REMARKS.--Records good, except for period of no gage-height record Jan. 18 to Mar. 20, which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--6 years (1977-82, 1984) 3.14 ft^3/s, 2,270 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 92 ft^3/s June 7, 1978, gage height, 3.55 ft; minimum daily, 0.09 ft^3/s Dec. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 43 ft^3/s May 22, gage height, 2.15 ft; minimum daily, 0.80 ft^3/s Jan. 20 to Mar. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.5	1.2	.93	.80	.80	.93	2.4	11	5.7	2.7	1.3
2	2.1	1.4	1.2	.99	.80	.80	.93	2.4	11	5.4	2.1	1.6
3	2.0	1.4	1.2	1.0	.80	.80	.91	2.4	11	5.1	2.0	1.5
4	1.8	1.5	1.1	1.0	.80	.80	1.1	2.4	11	4.9	1.8	1.7
5	1.8	1.5	1.0	1.0	.80	.80	1.2	2.5	11	4.7	1.8	1.7
6	1.8	1.4	1.2	1.0	.80	.80	1.2	2.6	12	4.5	1.7	1.7
7	1.5	1.4	1.2	1.0	.80	.80	1.2	2.8	11	4.2	1.6	1.5
8	1.5	1.2	1.2	1.0	.80	.80	1.2	3.4	12	3.9	1.7	1.2
9	1.5	1.2	1.2	1.0	.80	.80	1.2	4.1	11	3.8	1.7	1.3
10	1.5	1.2	1.2	1.1	.80	.80	1.3	4.8	10	3.6	1.7	1.5
11	1.5	1.2	1.2	1.1	.80	.80	1.3	6.4	11	3.5	1.7	1.5
12	1.5	1.2	1.2	.88	.80	.80	1.4	7.8	11	3.3	1.5	1.6
13	1.5	1.2	1.2	.93	.80	.80	1.8	11	11	3.4	1.6	1.5
14	1.5	1.2	1.2	.99	.80	.80	2.1	15	11	3.2	1.7	1.4
15	1.4	1.2	1.2	.93	.80	.80	2.7	28	10	3.1	1.9	1.3
16	1.4	1.2	1.2	.99	.80	.80	3.1	34	10	3.0	1.9	1.4
17	1.4	1.2	1.2	.93	.80	.80	3.1	29	9.6	2.9	1.9	1.3
18	1.4	1.2	1.1	.89	.80	.80	2.8	27	9.5	2.9	1.9	1.3
19	1.3	1.2	1.1	.84	.80	.80	2.6	26	9.2	2.9	1.8	1.3
20	1.3	1.2	1.0	.80	.80	.82	2.5	27	8.1	2.9	1.8	1.3
21	1.3	1.2	.82	.80	.80	.82	2.5	36	8.2	4.3	1.8	1.3
22	1.3	.93	1.0	.80	.80	.82	2.4	42	7.6	4.2	1.9	1.2
23	1.3	1.0	1.1	.80	.80	.86	2.4	30	7.5	3.2	2.0	1.2
24	1.3	1.1	1.1	.80	.80	.88	2.5	25	7.3	2.7	1.8	1.1
25	1.3	1.1	1.1	.80	.80	.88	2.7	24	7.0	2.5	1.7	1.1
26	1.3	1.0	1.0	.80	.80	.88	2.4	22	6.5	2.5	1.6	1.3
27	1.3	.92	.96	.80	.80	.88	2.6	20	6.3	3.0	1.6	1.3
28	1.3	.96	.90	.80	.80	.82	2.7	17	6.1	3.2	1.4	1.2
29	1.2	1.0	1.0	.80	.80	.92	2.6	14	6.2	2.9	1.3	1.1
30	1.3	1.1	1.1	.80	---	.93	2.5	13	6.0	3.1	1.3	1.1
31	1.5	---	1.1	.80	---	.93	---	12	---	3.2	1.3	---
TOTAL	46.2	36.01	34.48	28.10	23.20	25.64	59.87	496.0	280.1	111.7	54.2	40.8
MEAN	1.49	1.20	1.11	.91	.80	.83	2.00	16.0	9.34	3.60	1.75	1.36
MAX	2.1	1.5	1.2	1.1	.80	.93	3.1	42	12	5.7	2.7	1.7
MIN	1.2	.92	.82	.80	.80	.80	.91	2.4	6.0	2.5	1.3	1.1
AC-FT	92	71	68	56	46	51	119	984	556	222	108	81

WTR YR 1984 TOTAL 1236.30 MEAN 3.38 MAX 42 MIN .80 AC-FT 2450

10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°36'05", in SE¼NE¼ sec.18, T.15 N., R.47 E., Nye County, Hydrologic Unit 16060005, on left bank 2 mi southwest of Monitor Ranch and 42 mi north of Belmont.

DRAINAGE AREA.--35.6 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft, from topographic map.

REMARKS.--Records fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--7 years, 3.01 ft^3/s, 2,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160 ft^3/s July 28, 1984, gage height, 4.06 ft; minimum 0.12 ft^3/s Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft^3/s July 28, gage height, 4.06 ft; minimum daily, 0.94 ft^3/s Jan. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	2.0	1.9	1.7	2.0	2.0	8.7	31	7.8	5.6	3.1
2	2.2	2.3	2.0	1.8	1.7	1.7	2.1	8.9	29	7.7	5.1	3.1
3	2.3	2.3	2.2	1.8	1.7	1.6	2.1	9.3	28	7.4	4.7	3.1
4	2.1	2.4	1.9	2.0	1.7	1.6	2.3	9.9	28	7.4	4.4	3.2
5	2.0	2.3	1.2	2.1	1.7	1.5	2.3	10	27	7.2	4.3	3.2
6	2.0	2.2	1.6	2.1	1.8	1.7	2.3	12	26	6.7	4.1	3.1
7	1.9	2.1	1.6	2.1	1.8	1.7	2.3	12	24	6.4	4.0	3.0
8	1.9	2.3	1.9	2.1	1.8	1.7	2.4	13	23	5.9	3.8	3.0
9	1.8	2.1	2.3	2.1	1.9	1.8	2.4	16	22	5.6	3.7	2.9
10	2.3	2.1	2.3	1.9	1.9	1.8	2.5	18	21	5.3	3.8	2.8
11	2.6	2.4	2.3	2.0	1.7	1.7	2.4	21	20	5.1	3.8	3.2
12	2.5	2.8	2.0	1.7	1.9	1.8	2.4	24	19	5.1	3.6	3.1
13	2.5	2.2	2.2	1.4	2.7	1.8	2.5	28	18	4.9	3.5	3.0
14	2.4	2.1	2.7	1.2	1.7	1.9	2.6	31	17	5.0	3.5	3.0
15	2.4	1.9	2.3	1.2	1.8	1.8	2.9	32	16	4.9	5.3	3.0
16	2.4	2.0	2.1	1.2	1.8	1.8	3.5	31	14	4.9	9.0	2.9
17	2.3	2.1	2.1	1.1	1.7	1.9	4.7	29	14	4.8	4.2	2.8
18	2.3	2.2	1.9	.94	1.4	1.8	5.4	28	14	5.0	3.9	2.8
19	2.2	2.1	2.1	1.0	1.5	1.8	6.0	28	13	7.0	3.8	2.7
20	2.1	2.5	2.0	1.2	1.6	1.9	6.1	30	12	6.4	3.5	2.6
21	2.0	2.1	1.8	1.6	1.7	1.9	5.8	31	12	7.8	3.5	2.6
22	1.9	1.7	1.6	1.9	1.6	1.9	5.7	32	11	7.3	4.1	2.5
23	1.9	1.9	1.8	1.8	1.6	1.9	6.3	32	10	5.9	4.2	2.4
24	1.9	2.0	1.9	1.8	1.7	1.9	7.7	33	9.8	5.1	3.5	2.4
25	1.9	1.9	2.0	1.9	1.7	1.9	8.3	33	9.4	4.6	3.4	2.2
26	1.8	1.8	2.0	1.9	1.6	2.2	7.9	33	8.9	4.7	3.3	2.1
27	1.8	1.6	1.7	1.8	1.6	2.0	8.4	33	8.3	5.3	3.2	2.0
28	1.8	2.1	1.5	1.8	1.6	1.9	8.7	33	7.8	15	3.2	1.9
29	1.8	1.9	1.9	1.6	1.9	2.0	8.8	32	8.7	6.9	3.1	1.9
30	1.8	2.0	2.1	1.7	---	2.0	8.9	32	8.6	7.0	3.1	1.9
31	2.0	---	2.1	1.6	---	2.0	---	32	---	6.1	3.1	---
TOTAL	65.1	63.6	61.1	52.24	50.5	56.9	137.7	755.8	510.5	196.2	125.3	81.5
MEAN	2.10	2.12	1.97	1.69	1.74	1.84	4.59	24.4	17.0	6.33	4.04	2.72
MAX	2.6	2.8	2.7	2.1	2.7	2.2	8.9	33	31	15	9.0	3.2
MIN	1.8	1.6	1.2	.94	1.4	1.5	2.0	8.7	7.8	4.6	3.1	1.9
AC-FT	129	126	121	104	100	113	273	1500	1010	389	249	162

CAL YR 1983	TOTAL	3451.25	MEAN	9.46	MAX	104	MIN	.90	AC-FT	6850
WTR YR 1984	TOTAL	2156.44	MEAN	5.89	MAX	33	MIN	.94	AC-FT	4280

10246046 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--Lat 38°50'50", long 115°22'00", in NE¼NW¼ sec. 5, T.11 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank 0.2 mi upstream from reservoir diversion, 2.5 mi upstream from mouth, and 9 mi northeast of Currant.

DRAINAGE AREA.--12.9 mi^2.

PERIOD OF RECORD.--October 1964 to September 1981, May 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft, from topographic map.

REMARKS.--Records good, except for winter months, which are fair. No diversion above station.

AVERAGE DISCHARGE.--18 years (water years 1964-81, 1984), 3.66 ft^3/s, 2,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft^3/s Dec. 6, 1966, gage height, 4.1 ft, from floodmarks, from rating curve extended above 60 ft^3/s on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	1500	15	1.63
May 13	2000	*43	2.05
July 27	1300	14	1.59

Minimum daily discharge, 1.9 ft^3/s, Dec. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.5	2.4	2.2	3.1	3.7	5.9	11	15	5.4	4.1	4.2
2	4.7	3.4	2.4	2.3	3.1	3.7	5.8	11	14	5.3	4.6	4.1
3	4.7	3.3	2.3	2.4	3.1	3.7	5.7	9.9	13	5.1	4.4	4.1
4	4.9	3.3	2.4	2.4	3.2	3.7	5.9	9.8	13	4.9	4.3	3.9
5	5.0	3.3	1.9	2.4	3.4	3.7	6.1	9.5	12	4.8	4.1	3.6
6	4.8	3.3	2.6	2.5	3.6	3.7	6.3	9.4	11	4.6	4.0	3.6
7	4.8	3.0	2.5	2.6	3.7	3.7	6.4	9.4	10	4.5	3.8	3.4
8	4.7	3.0	2.4	2.7	3.6	3.8	6.9	9.5	9.7	4.3	3.6	3.4
9	4.6	2.9	2.4	2.9	3.6	4.0	6.9	11	9.2	4.2	3.5	3.3
10	4.4	2.9	2.4	2.9	3.6	4.2	7.1	15	8.8	4.1	3.4	3.3
11	4.4	2.9	2.4	2.9	3.6	4.2	7.3	21	8.6	4.0	3.4	3.3
12	4.4	2.9	2.4	2.9	3.6	4.2	7.5	31	8.4	3.9	3.2	4.1
13	4.4	2.9	2.4	3.0	3.6	4.2	7.9	36	8.0	3.8	3.2	3.5
14	4.4	2.8	2.4	3.1	3.6	4.4	8.2	35	7.6	3.8	3.6	3.7
15	4.4	2.7	2.5	3.2	3.6	4.4	8.8	27	7.7	3.6	3.3	3.8
16	4.3	2.7	2.3	3.2	3.6	4.4	11	22	7.6	3.6	4.0	3.7
17	4.3	2.7	2.4	3.2	3.6	4.4	14	19	7.3	3.4	3.9	3.6
18	4.2	2.7	2.4	3.2	3.6	4.3	14	18	7.2	3.4	4.8	3.6
19	4.2	2.7	2.4	3.2	3.6	4.4	14	19	7.2	3.4	5.0	3.5
20	4.1	2.7	2.4	3.2	3.6	4.5	13	22	7.3	3.4	4.8	3.5
21	4.0	2.7	2.2	3.2	3.6	4.8	13	24	7.3	3.8	4.6	3.5
22	4.0	2.4	2.2	3.2	3.6	4.9	13	23	7.2	3.6	4.4	3.4
23	4.0	2.8	2.4	3.2	3.7	5.0	13	25	6.9	3.6	4.3	3.3
24	3.8	2.7	2.4	3.2	3.7	5.2	13	25	6.6	4.1	4.2	3.3
25	3.7	2.6	2.4	3.2	3.7	5.4	14	22	6.3	3.9	4.2	3.3
26	3.7	2.6	2.5	3.2	3.7	6.2	13	20	6.2	3.7	4.2	3.2
27	3.6	2.4	2.7	3.1	3.7	6.2	13	18	6.0	4.5	4.3	3.1
28	3.6	2.5	2.1	3.1	3.7	6.1	13	18	5.9	3.9	4.3	3.1
29	3.5	2.5	2.5	3.1	3.7	6.1	12	17	5.8	3.7	4.3	3.0
30	3.5	2.4	2.4	3.1	---	6.0	11	16	5.6	4.3	4.3	3.0
31	3.5	---	2.4	3.1	---	6.0	---	16	---	4.0	4.2	---
TOTAL	131.2	85.2	73.9	91.1	103.1	143.2	296.7	579.5	256.4	126.6	126.3	105.4
MEAN	4.23	2.84	2.38	2.94	3.56	4.62	9.89	18.7	8.55	4.08	4.07	3.51
MAX	5.0	3.5	2.7	3.2	3.7	6.2	14	36	15	5.4	5.0	4.2
MIN	3.5	2.4	1.9	2.2	3.1	3.7	5.7	9.4	5.6	3.4	3.2	3.0
AC-FT	260	169	147	181	204	284	589	1150	509	251	251	209

WTR YR 1984 TOTAL 2118.6 MEAN 5.79 MAX 36 MIN 1.9 AC-FT 4200

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246930 SIXMILE CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'30", long 116°18'45", in NE¼NW¼ sec.11, T.8 N., R.50 E., on left bank, 26 miles north of Warm Springs.

DRAINAGE AREA.--19 mi^2, approximately.

PERIOD OF RECORD.--September 1967 to June 1968, May 1984 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft, from topographic map.

REMARKS.--Records good, May 1 to September 30.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14 ft^3/s, Aug. 21, 1984, gage height, 1.89 ft; no flow Dec. 13, 1967, to Jan. 20, 1968, and July 13-20, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft^3/s Aug. 21, gage height, 1.89 ft; no flow July 13-20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1.0	.63	.04	1.2	3.7
2								1.0	.61	.03	1.0	3.5
3								1.0	.57	.03	1.0	3.3
4								1.1	.63	.03	1.0	3.1
5								1.1	.62	.02	1.1	3.1
6								1.1	.47	.01	1.1	2.9
7								1.1	.51	.01	1.1	2.8
8								1.1	.51	.01	1.1	2.5
9								1.1	.49	.01	1.1	2.3
10								1.1	.44	.01	1.2	2.2
11								1.0	.45	.01	1.3	2.2
12								1.0	.39	.01	1.2	2.2
13								1.0	.31	.00	1.2	2.0
14								1.1	.33	.00	3.3	1.9
15								1.2	.44	.00	4.6	1.8
16								1.2	.34	.00	3.7	1.8
17								1.2	.27	.00	4.4	1.7
18								1.2	.23	.00	3.0	1.7
19								1.0	.19	.00	3.1	1.6
20								.96	.15	.00	2.8	1.6
21								.93	.13	.14	4.4	1.6
22								.87	.12	.41	3.3	1.5
23								.83	.09	.35	4.8	1.5
24								.79	.09	.09	3.1	1.5
25								.80	.07	.04	3.9	1.5
26								.76	.06	.03	3.0	1.4
27								.74	.06	.51	4.2	1.4
28								.68	.05	3.0	4.1	1.3
29								.62	.05	1.6	3.9	1.3
30								.62	.04	1.2	3.9	1.3
31								.62	---	1.1	3.7	---
TOTAL								29.82	9.34	8.69	81.8	62.2
MEAN								.96	.31	.28	2.64	2.07
MAX								1.2	.63	3.0	4.8	3.7
MIN								.62	.04	.00	1.0	1.3

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'35", long 116°35'05", in SE¼SE¼ sec.6, T.8 N., R.43 E., Nye County, Hydrologic Unit 16060011, in Toiyabe National Forest, on left bank about 3 mi north of Toiyabe National Forest boundary and 30 mi northwest of Warm Springs.

DRAINAGE AREA.--16.4 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft, from topographic map.

REMARKS.--Records good, except for winter months, which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--7 years, 2.10 ft^3/s, 1,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s Mar. 31, 1978, gage height, 2.70 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft^3/s Apr. 14, gage height, 2.38 ft; no flow July 8-12, 15-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.80	.57	.60	.94	.87	1.1	1.1	.56	.05	.73	.86
2	2.0	.80	.60	.58	.90	.80	1.0	1.0	.56	.03	.68	.86
3	1.3	.73	.62	.56	.78	.74	1.1	.94	.51	.02	.38	.80
4	1.1	.68	.58	.56	.83	.68	1.0	.87	.51	.02	.31	.80
5	.94	.73	.54	.56	.90	.64	.94	.87	.62	.01	.21	.94
6	.87	.73	.45	.56	.87	.68	.94	.87	.62	.01	.14	.86
7	.68	.73	.50	.62	.80	.74	1.0	.87	.62	.01	.14	.80
8	.73	.63	.50	.68	.88	.77	1.0	.87	.56	.00	.08	.80
9	.73	.68	.50	.62	1.0	.80	1.0	.87	.56	.00	.07	.62
10	.73	.68	.50	.66	.96	.80	.94	.87	.51	.00	.06	.68
11	.68	.68	.50	.60	.82	.73	.94	.87	.51	.00	.06	.73
12	.68	.68	.50	.56	.93	.80	.87	.87	.51	.00	.05	.73
13	.68	.68	.50	.50	1.1	.80	.87	.87	.42	.01	.04	.62
14	.68	.68	.50	.45	1.0	.86	.94	.87	.42	.02	.80	.62
15	.68	.62	.50	.49	.94	.86	.94	.87	.42	.00	2.5	.62
16	.68	.62	.50	.45	1.0	.94	.94	.87	.42	.00	1.7	.80
17	.68	.62	.50	.42	.92	.86	1.0	.87	.38	.00	1.9	.80
18	.62	.62	.50	.40	.80	1.0	1.1	.87	.38	.00	1.7	.73
19	.62	.51	.50	.45	.90	.94	1.1	.80	.38	.00	3.0	.73
20	.62	.62	.53	.43	.92	.80	1.0	.73	.27	.12	2.8	.73
21	.51	.73	.56	.49	.82	.80	1.0	.73	.24	1.1	1.9	.73
22	.51	.51	.56	.70	.90	.73	1.0	.63	.18	1.8	1.6	.73
23	.51	.48	.56	.68	1.0	.80	1.0	.68	.16	.86	2.4	.62
24	.51	.45	.56	.80	1.1	.87	1.0	.68	.12	.51	1.7	.46
25	.56	.41	.56	.80	1.0	.87	.94	.68	.10	.27	1.6	.46
26	.56	.39	.56	.87	.90	.94	1.1	.68	.10	.18	1.4	.46
27	.56	.37	.56	1.0	.84	.94	1.1	.68	.08	.56	1.2	.42
28	.56	.45	.51	.86	.87	.87	1.1	.62	.05	1.4	1.1	.42
29	.56	.50	.62	.80	.92	.94	1.1	.56	.05	.94	1.0	.42
30	.56	.54	.56	.76	---	1.2	1.1	.56	.07	.51	.94	.46
31	.94	---	.51	1.0	---	1.2	---	.56	---	.62	.86	---
TOTAL	23.44	18.40	16.51	19.51	26.54	26.27	30.16	24.73	10.89	9.05	33.05	20.31
MEAN	.76	.61	.53	.63	.92	.85	1.01	.80	.36	.29	1.07	.68
MAX	2.0	.80	.62	1.0	1.1	1.2	1.1	1.1	.62	1.8	3.0	.94
MIN	.51	.37	.45	.40	.78	.64	.87	.56	.05	.00	.04	.42
AC-FT	46	36	33	39	53	52	60	49	22	18	66	40

CAL YR 1983	TOTAL	2216.69	MEAN	6.07	MAX	49	MIN	.01	AC-FT	4400
WTR YR 1984	TOTAL	258.86	MEAN	.71	MAX	3.0	MIN	.00	AC-FT	513

BIG SMOKY VALLEY (NORTHERN PART)

10249280 KINGSTON CREEK BELOW COUGAR CANYON, NEAR AUSTIN, NV

LOCATION.--Lat 39°12'45", long 117°06'45", in NW¼ sec.35, T.16 N., R.43, Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank 1.1 mi downstream from Cougar Canyon and 19 mi southeast of Austin.

DRAINAGE AREA.--23.4 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft, from topographic map.

REMARKS.--Records good, except for the period May 11-31, which are poor. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft about 4 mi upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--18 years, 9.71 ft^3/s, 7,030 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 385 ft^3/s May 28, 1983, gage height, 3.19 ft, on basis of slope-conveyance determination of peak flow; maximum gage height, 3.58 ft May 18, 1973; minimum, 1.4 ft^3/s Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 221 ft^3/s May 24, gage height, 2.68 ft; minimum daily, 8.4 ft^3/s Jan. 29 to Feb. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	10	10	8.4	9.4	15	51	151	41	23	15
2	13	14	10	10	8.4	9.4	15	49	129	39	22	14
3	13	14	10	10	8.4	9.4	15	48	115	38	22	14
4	13	14	10	10	8.4	9.4	16	55	118	37	22	14
5	12	14	10	10	8.4	9.5	17	58	124	35	22	14
6	12	14	10	10	8.4	9.7	17	59	109	35	21	16
7	12	13	10	10	8.4	9.7	17	64	92	34	21	13
8	12	13	10	10	8.4	9.7	21	70	86	33	21	13
9	12	13	9.7	10	8.4	10	26	81	86	33	21	13
10	12	13	9.7	10	8.8	10	28	103	92	31	21	13
11	12	14	9.7	10	8.8	10	29	141	70	30	20	13
12	12	13	9.4	10	8.8	10	32	154	66	30	20	13
13	12	13	9.7	10	8.9	11	35	170	69	29	19	12
14	12	13	10	10	9.2	11	42	151	67	29	22	12
15	12	13	12	10	9.1	11	52	111	54	28	25	13
16	12	12	12	10	9.1	11	70	99	48	27	23	13
17	12	12	11	10	9.1	12	87	90	45	27	21	13
18	11	12	11	9.9	9.1	12	81	88	45	30	19	13
19	11	12	11	9.7	9.1	12	73	81	46	29	19	14
20	12	13	11	9.7	9.1	12	66	76	43	29	18	17
21	13	12	11	9.6	9.1	13	62	124	43	29	18	17
22	14	12	10	9.4	9.1	13	55	126	45	27	19	15
23	14	12	10	9.3	9.1	13	57	140	44	26	21	13
24	15	12	10	9.1	9.2	13	61	165	46	25	18	13
25	15	12	10	9.1	9.3	13	68	143	46	25	17	12
26	15	12	10	9.1	9.1	14	69	138	47	24	16	14
27	14	11	11	9.0	9.1	14	63	118	47	27	16	14
28	14	11	11	8.8	9.1	14	62	129	45	26	16	13
29	14	11	11	8.7	9.2	14	56	134	44	24	16	13
30	15	11	10	8.4	---	15	53	138	43	25	15	13
31	15	---	10	8.4	---	15	---	138	---	24	15	---
TOTAL	400	380	320.2	298.2	257.0	359.2	1360	3292	2105	926	609	409
MEAN	12.9	12.7	10.3	9.62	8.86	11.6	45.3	106	70.2	29.9	19.6	13.6
MAX	15	15	12	10	9.3	15	87	170	151	41	25	17
MIN	11	11	9.4	8.4	8.4	9.4	15	48	43	24	15	12
AC-FT	793	754	635	591	510	712	2700	6530	4180	1840	1210	811

CAL YR 1983	TOTAL	7539.2	MEAN	20.7	MAX	240	MIN	3.3	AC-FT	14950
WTR YR 1984	TOTAL	10715.6	MEAN	29.3	MAX	170	MIN	8.4	AC-FT	21250

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW¼NE¼ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank 600 ft upstream from diversion, 3 mi west of State Highway 8A, and 15 mi northwest of Round Mountain.

DRAINAGE AREA.--20 mi^2, 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. Altitude of gage is 6,400 ft, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--19 years, 7.36 ft^3/s, 5,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft^3/s May 29, 1983, gage height, 4.39 ft; minimum, 0.11 ft^3/s Sept. 4, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	2400	35	2.32	May 24	1900	81	2.56
Apr. 25	0600	25	2.15	July 31	0100	55	2.26
May 14	1700	*120	2.88				

Minimum daily discharge, 3.7 ft^3/s, Sept. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	6.4	4.6	5.9	5.2	5.4	11	14	44	11	26	5.1
2	6.8	6.0	4.3	5.9	5.2	5.7	11	14	40	11	18	4.8
3	6.2	5.8	5.6	5.8	5.4	5.9	11	16	36	10	14	4.6
4	5.8	5.7	4.9	6.0	5.6	6.0	13	22	35	10	12	4.4
5	5.5	5.6	4.0	6.9	6.0	6.2	14	26	32	9.6	10	4.4
6	5.3	5.6	4.7	8.3	6.3	6.3	15	29	30	9.3	9.2	4.3
7	5.2	5.5	5.3	9.3	6.4	6.6	15	30	28	9.1	8.4	4.2
8	5.2	5.5	5.3	9.8	6.5	7.2	15	34	25	8.6	7.7	4.3
9	5.1	5.4	5.3	9.5	6.5	7.9	15	44	23	8.4	7.3	4.2
10	5.0	5.5	5.3	9.2	6.5	8.3	15	56	21	8.2	7.2	4.1
11	5.0	5.6	5.3	8.6	6.5	8.4	15	71	20	7.8	7.0	4.2
12	5.0	5.6	5.2	7.6	6.2	8.2	15	88	19	7.6	6.5	4.3
13	4.9	5.5	5.5	7.0	6.1	8.0	16	87	18	7.5	6.4	4.3
14	5.1	5.4	6.6	6.8	5.9	8.2	19	110	17	7.4	6.2	4.1
15	4.8	5.3	8.3	6.3	5.9	7.9	25	90	16	7.1	6.4	4.0
16	4.7	5.3	8.1	6.0	6.1	7.5	30	63	15	6.9	6.5	4.0
17	4.6	5.4	7.7	5.9	5.8	7.3	34	49	15	6.8	6.0	4.0
18	4.5	5.4	7.3	5.6	5.7	7.0	32	41	15	7.1	5.6	3.9
19	4.3	5.4	7.1	5.4	5.5	6.9	28	43	15	9.9	5.7	4.2
20	4.5	5.3	6.7	5.2	5.2	6.7	23	55	15	8.9	5.4	4.9
21	5.2	5.2	6.1	5.0	4.8	7.3	19	72	15	11	5.8	4.4
22	5.5	4.9	5.6	4.9	4.5	8.1	17	71	14	15	6.8	4.3
23	5.8	5.7	5.6	4.8	5.2	8.6	17	71	14	12	8.0	4.1
24	5.9	6.1	5.3	4.8	5.5	9.1	21	78	13	10	6.7	4.2
25	5.6	6.4	5.3	4.7	5.4	9.7	25	76	13	9.0	6.3	4.2
26	5.5	6.0	5.5	4.8	5.1	12	24	67	12	8.4	6.0	4.1
27	5.4	5.8	5.7	4.4	4.6	13	21	59	12	8.6	5.7	3.9
28	5.4	5.6	5.7	4.6	5.2	13	18	54	12	9.4	5.4	3.8
29	5.5	5.4	5.7	4.7	5.2	12	16	54	12	8.6	5.2	3.7
30	5.8	5.0	6.0	4.8	---	12	14	53	12	12	5.1	3.8
31	6.3	---	6.1	5.1	---	12	---	49	---	30	5.1	---
TOTAL	166.4	167.3	179.7	193.6	164.0	258.4	564	1686	608	306.2	247.6	126.8
MEAN	5.37	5.58	5.80	6.25	5.66	8.34	18.8	54.4	20.3	9.88	7.99	4.23
MAX	7.0	6.4	8.3	9.8	6.5	13	34	110	44	30	26	5.1
MIN	4.3	4.9	4.0	4.4	4.5	5.4	11	14	12	6.8	5.1	3.7
AC-FT	330	332	356	384	325	513	1120	3340	1210	607	491	252

CAL YR 1983 TOTAL 7483.1 MEAN 20.5 MAX 338 MIN 2.5 AC-FT 14840
WTR YR 1984 TOTAL 4668.0 MEAN 12.8 MAX 110 MIN 3.7 AC-FT 9260

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1965 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: October 1967 and March 1968 to September 1982, monthly; October 1982 to current year, four times per year.
BIOLOGICAL DATA: July 1970 to July 1973, once or twice yearly (24-hr studies); May 1975 to August 1977, twice yearly; December 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to September 1982, monthly; October 1982 to current year, four times per year.
WATER TEMPERATURES: July 1965 to April 1966, monthly; May 1966 to September 1968, continuous; October 1968 to December 1969, monthly; January 1970 to September 1977, continuous; October 1977 to August 1978, monthly; September 1978 to September 1982, hourly; October 1982 to current year, four times per year.
SEDIMENT DATA: October 1967 to September 1975, monthly; October 1975 to September 1977, occasionally (at times of noticeable turbidity or high discharge); October 1977 to September 1982, monthly; October 1982 to current year, four times per year.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 160 micromhos Mar. 14, 1983; minimum, 75 micromhos June 16, 1971 and May 23, 1984.
PHYTOPLANKTON: Maximum, 8,100 cells/mL Nov. 29, 1978; minimum, less than 1 cell/mL Aug. 19 and Sept. 17, 1980.
FECAL STREPTOCOCCI: Maximum, 1,500 colonies/100 mL (non-ideal colony count) Feb. 21, 1977; minimum, less than 2 colonies/100 mL several times during period of record.
WATER TEMPERATURES: Maximum, 18.0°C July 24, 1979; minimum, freezing point on several days in many years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,970 mg/L June 5, 1975; minimum, <1 mg/L July 26, 1973, Aug. 23, 1973.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
01...	1200	6.4	137	8.3	7.5	2.0	9.3	98	<2	97	54
MAR											
20...	1045	6.8	140	8.2	5.0	1.3	10.4	103	<2	K4	57
MAY											
23...	1100	73	75	7.6	8.0	6.4	9.4	99	<2	K20	25
AUG											
28...	1230	5.7	139	8.4	13.0	1.1	8.4	100	K4	K18	57

K: NON-IDEAL COLONY COUNT.

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV										
01...	19	1.6	6.3	.4	1.0	62	6.1	2.0	.10	19
MAR										
20...	20	1.6	6.5	.4	.90	62	7.6	2.3	.10	17
MAY										
23...	8.7	.80	5.0	.5	.90	29	4.7	1.5	.10	21
AUG										
28...	20	1.7	6.4	.4	1.0	65	5.7	1.4	.10	19

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)
NOV										
01...	92	93	1.6	<.100	.070	.50	<.010	.010	<.010	20
MAR										
20...	94	93	1.7	.130	<.010	.30	.020	.010	.020	--
MAY										
23...	64	61	13	.190	.040	1.0	.060	.040	.040	110
AUG										
28...	90	94	1.4	<.100	<.010	<.20	.010	<.010	<.010	--

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV										
01...	2	12	<.5	<1	<1	<3	1	9	<1	13
MAR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	2	15	<1	<1	<1	<3	2	53	<1	8
AUG										
28...	--	--	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)
NOV										
01...	2	.1	<10	5	<1	<1	120	<6	4	4.8
MAR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	<1	<.1	<10	<1	<1	<1	54	<6	12	--
AUG										
28...	--	--	--	--	--	--	--	--	--	--

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV										
01...	<.4	1.6	.5	1.3	.5	.04	2.3	2	.03	--
MAR										
20...	--	--	--	--	--	--	--	5	.09	--
MAY										
23...	--	--	--	--	--	--	--	235	46	40
AUG										
28...	--	--	--	--	--	--	--	1	.02	--

10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°35'05", long 118°42'15", in NE¼NE¼ sec.2, T.8 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 5.5 mi northwest of Hawthorne.

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

DRAINAGE AREA.--4,050 mi^2, approximately.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Coast and Geodetic Survey bench mark at U.S. Army Depot).

REMARKS.--Altitudes determined from reference points referred to U.S.C.G.S. bench mark. Altitudes 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. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft Mar. 13, 1928, altitude, 4,051.8 ft, U.S. Bureau of Indian Affairs; minimum observed, 2,372,000 acre-ft Jan. 25, 1982, altitude, 3,952.9 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--An altitude of 4,078.0 ft, adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft, table now in use).

MONTH-END ALTITUDES AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	3,967.4	2,896,000	--
Oct. 31	3,967.8	2,911,000	+15,000
Nov. 30	3,968.3	2,930,000	+19,000
Dec. 31	3,969.4	2,972,000	+42,000
CAL YR 1983	--	--	+413,000
Jan. 31	3,970.2	3,002,000	+30,000
Feb. 29	3,970.4	3,010,000	+8,000
Mar. 31	3,970.4	3,010,000	0
Apr. 30	3,970.4	3,010,000	0
May 31	3,970.9	3,029,000	+19,000
June 30	3,971.3	3,045,000	+16,000
July 31	3,971.4	3,048,000	+3,000
Aug. 31	3,971.0	3,033,000	-15,000
Sep. 30	3,970.7	3,022,000	-11,000
WTR YR 1983-84	--	--	+126,000

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

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in NW¼NE¼ sec.5, T.3 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of upper lake dam on Robinson Creek and 10 mi southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,990 acre-ft July 7, 1983, elevation, 7,209.85 ft; minimum observed, 62 acre-ft Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--No contents observed Oct. 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,770 acre-ft June 30, atitude, 7,209.17 ft; minimum, 1,910 acre-ft between Sept. 29, altitude, 7,206.51 ft.

MONTH-END ALTITUDES AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,207.84	2,340	--
Oct. 31	7,207.50	2,230	-110
Nov. 30	--	g2,260	+30
Dec. 31	7,207.63	2,270	+10
CAL YR 1983	--	--	+30
Jan. 31	7,207.40	2,200	-70
Feb. 29	--	g2,210	+10
Mar. 31	7,207.51	2,230	+20
Apr. 30	7,207.67	2,280	+50
May 31	7,209.12	2,750	+470
June 30	7,209.08	2,740	-10
July 31	7,208.20	2,450	-290
Aug. 31	7,207.38	2,190	-260
Sep. 30	7,207.02	2,080	-110
WTR YR 1983-84	--	--	-260

g: Interpolated.

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE¼NE¼ sec.33, T.4 N., R.24, E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of lower lake dam on Robinson Creek and 8 mi southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,560 acre-ft June 19, 1983, elevation, 7,203.58 ft; no contents Nov. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,980 acre-ft June 30,altitude, 7,202.27 ft; minimum, 1,290 acre-ft Nov. 9, altitude, 7,193.22 ft.

MONTH-END ALTITUDES AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,197.05	2,820	--
Oct. 31	7,193.77	1,510	-1,310
Nov. 30	7,196.46	2,580	+1,070
Dec. 31	7,200.89	4,380	+1,800
CAL YR 1983	--	--	+1,680
Jan. 31	7,200.58	4,250	-130
Feb. 29	7,200.47	4,210	-40
Mar. 31	7,200.63	4,280	+70
Apr. 30	7,198.61	3,440	-840
May 31	7,202.05	4,880	+1,440
June 30	7,202.27	4,980	-100
July 31	7,201.12	4,480	-500
Aug. 31	7,197.01	2,800	-1,680
Sep. 30	7,194.24	1,700	-1,100
WTR YR 1983-84	--	--	-1,120

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at Bridgeport Dam on East Walker River, 4.5 mi north of Bridgeport.

DRAINAGE AREA.--358 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft between altitudes 6,415 ft, approximate altitude of bottom of reservoir, and 6,461 ft, crest of spillway is at altitude 6,460.75 ft, however, there are four siphons that become operative prior to reaching this spillway. Altitude of sill of outlet gate, 6,412 ft. No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft June 16, 1974, altitude, 6,460.78 ft; no contents during fall of 1929, 1930, 1960, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,260 acre-ft June 24, 25, altitude, 6,459.93 ft; minimum, 16,840 acre-ft, Sept. 30, altitude, 6,448.86 ft.

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

6,448	15,470	6,455	29,160
6,449	17,060	6,460	42,460
6,451	20,620		

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34330	30990	32050	24470	26980	34820	40880	37980	40830	41960	38760	26160
2	34300	31090	32080	24350	27110	35120	41000	37900	40880	41970	38460	25850
3	34190	31160	31900	24280	27390	35310	41090	37700	41030	41970	38150	25520
4	34040	31190	31720	24220	27640	35440	41060	37460	41060	41880	37790	25140
5	33890	31230	31450	24120	27920	35750	41120	37320	41380	41820	37350	24840
6	33700	31260	31260	24060	28130	36040	41260	37100	41350	41970	36960	24430
7	33480	31090	30900	24100	28330	36340	41320	37100	41200	42050	36530	24100
8	33250	31160	30730	24160	28650	36580	41260	37120	41200	42030	36100	23790
9	32990	31230	30360	24100	28840	36820	41460	37070	41150	41910	35600	23430
10	32740	31380	30050	24080	29000	37100	41440	36980	41260	41670	35040	23100
11	32560	31820	29590	24060	29280	37320	41610	37010	41490	41410	34560	22710
12	32510	32210	29230	23940	29620	37560	41640	37180	41520	41170	34160	22320
13	32380	32430	29160	23960	29950	37810	41670	37320	41760	40970	33680	21930
14	32330	32670	28720	23980	30220	38150	41670	37430	41880	40830	33270	21500
15	32310	32870	28220	24080	30680	38400	41610	37240	41790	40680	32920	21130
16	32260	33070	27620	24140	30990	38680	41580	37260	41790	40540	32640	20800
17	32160	33530	27000	24220	31310	38740	41380	37320	41760	40360	32380	20290
18	32050	33860	26330	24370	31550	38930	41150	37240	41880	40330	31950	19920
19	31950	34330	25650	24530	31850	39150	40910	37400	41850	40420	31520	19440
20	31870	34610	25030	24680	32210	39290	40740	37480	41880	40770	31160	19150
21	31750	34740	24750	24790	32380	39260	40540	37700	42080	40940	30780	18820
22	31600	34430	24490	25030	32670	39480	40330	38040	42110	41000	30410	18590
23	31450	34270	24390	25140	33040	39770	40060	38430	42170	40970	29950	18210
24	31330	34590	24320	25360	33270	39890	39480	38900	42260	40940	29500	17970
25	31210	34430	24810	25500	33500	40060	39260	39260	42260	40860	29000	17750
26	31090	34010	24860	25580	33680	40030	39040	39540	42080	40680	28560	17580
27	30920	33600	24730	25780	34090	40270	38870	39770	41970	40620	28150	17400
28	30870	33040	24700	26050	34330	40480	38710	40030	41970	39980	27760	17230
29	30750	32560	24660	26240	34640	40480	38490	40210	41940	39630	27370	17060
30	30730	32280	24640	26510	---	40740	38260	40360	41950	39430	26930	16840
31	30850	---	24600	26750	---	40710	---	40620	---	38950	26490	---
MAX	34330	34740	32080	26750	34640	40740	41670	40620	42260	42050	38760	26160
MIN	30730	30990	24320	23940	26980	34820	38260	36980	40830	38950	26490	16840
†	6455.70	6456.28	6452.97	6453.95	6457.20	6459.40	6458.54	6459.37	6459.82	6458.79	6453.83	6448.86
‡	-3480	+1430	-7680	+2150	+7890	+6070	-2450	+2360	+1330	-3000	-12460	-9650

CAL YR 1983 MAX 42950 MIN 8510 ‡ +640
WTR YR 1984 MAX 42260 MIN 16840 ‡ -17490

† Altitude, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank 1,500 ft downstream from Bridgeport Reservoir, 5 mi north of Bridgeport, and 10 mi upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft, from topographic map. Prior to Oct. 1, 1921, nonrecording gage at site 0.5 mi upstream at different datum. Oct. 1, 1921, to Feb. 21, 1924, water-stage recorder at site 1 mi 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 lower.

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

AVERAGE DISCHARGE.--61 years (1922-24, 1925-84), 147 ft^3/s, 106,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft^3/s June 19, 1963, gage height, 4.64 ft; maximum gage height, 4.95 ft Jan. 22, 1943 (top of surge); minimum daily discharge, 0.2 ft^3/s Nov. 2-29, Dec. 1-22, 25-28, 1955, Jan. 17-25, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 667 ft^3/s May 31, gage height, 3.00 ft; minimum daily, 12 ft^3/s Mar. 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	93	331	311	34	23	103	220	632	490	346	292
2	380	169	297	310	35	23	114	223	614	489	346	292
3	380	169	296	288	28	23	132	216	594	485	346	291
4	378	169	296	274	23	23	132	221	505	469	344	293
5	378	169	317	274	23	22	132	243	476	441	346	293
6	378	169	382	254	23	22	132	262	512	425	347	293
7	379	169	368	215	23	22	133	262	503	424	345	291
8	378	169	378	196	23	17	132	267	418	426	345	292
9	379	170	388	212	24	13	132	283	340	425	343	294
10	378	150	416	221	24	13	132	297	321	425	359	293
11	344	126	420	222	24	13	133	297	292	396	369	292
12	291	126	420	215	25	13	132	305	271	369	369	301
13	273	126	453	189	25	13	148	323	281	347	367	309
14	275	127	548	175	26	12	158	334	398	347	366	312
15	275	127	591	175	26	13	159	350	540	346	369	314
16	275	127	602	175	26	52	198	344	469	345	361	314
17	275	127	557	133	26	95	235	297	446	347	340	330
18	274	128	616	106	26	89	248	291	447	346	339	352
19	272	128	564	106	26	88	267	288	447	347	339	350
20	267	128	533	106	26	88	278	288	418	348	338	339
21	266	255	460	107	26	88	278	288	401	346	352	310
22	266	377	390	107	26	88	278	283	401	347	367	276
23	266	377	310	107	25	88	278	264	401	346	364	275
24	266	379	280	107	24	88	278	278	404	346	365	274
25	266	430	280	108	24	89	278	338	458	346	366	259
26	267	490	290	108	23	98	278	390	548	346	367	248
27	267	488	300	68	23	103	278	454	508	346	349	231
28	266	486	310	34	23	103	281	461	487	347	326	206
29	240	484	311	34	23	103	264	508	487	347	305	196
30	187	427	311	34	---	103	224	593	489	347	291	197
31	166	---	310	34	---	103	---	625	---	348	291	---
TOTAL	9332	7059	12325	5005	733	1731	5945	10093	13508	11849	10767	8609
MEAN	301	235	398	161	25.3	55.8	198	326	450	382	347	287
MAX	380	490	616	311	35	103	281	625	632	490	369	352
MIN	166	93	280	34	23	12	103	216	271	345	291	196
AC-FT	18510	14000	24450	9930	1450	3430	11790	20020	26790	23500	21360	17080

CAL YR 1983	TOTAL	161640	MEAN	443	MAX	1090	MIN	22	AC-FT	320600
WTR YR 1984	TOTAL	96956	MEAN	265	MAX	632	MIN	12	AC-FT	192300

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1952, March 1960 to current year.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT										
03...	1500	382	107	--	12.0	--	--	--	--	--
25...	1315	266	120	--	12.0	--	--	--	--	--
NOV										
28...	1500	483	150	--	3.0	--	--	--	--	--
DEC										
28...	1235	307	173	--	.5	--	--	--	--	--
JAN										
30...	1405	34	186	--	2.0	--	--	--	--	--
FEB										
24...	1325	23	170	--	4.5	--	--	--	--	--
APR										
*25...	1400	246	199	8.0	10.0	2.0	--	--	61	18
27...	1430	277	185	--	7.0	--	--	--	--	--
MAY										
29...	1145	528	155	--	14.0	--	--	--	--	--
JUN										
27...	1550	486	127	--	15.5	--	--	--	--	--
JUL										
31...	1125	348	121	--	18.5	--	--	--	--	--
AUG										
*28...	1330	326	132	8.9	20.0	3.0	6.6	2.1	--	--
29...	1420	291	130	--	17.5	--	--	--	--	--
SEP										
*18...	1220	387	136	8.8	16.0	3.0	6.1	2.4	49	15

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, DIS-SOLVED (UG/L AS B)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
28...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	--	--	--	--	--	--	--	--	--
FEB										
24...	--	--	--	--	--	--	--	--	--	--
APR										
25...	3.9	16	.9	2.6	75	14	5.0	127	84	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
29...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	--	--	--	--	--	--	--	--	--	--
JUL										
31...	--	--	--	--	--	--	--	--	--	--
AUG										
28...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP										
*18...	2.9	8.7	.6	2.5	57	6.8	1.2	86	90	<10

* Data from Calif. Dept. of Water Resources.

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH, NEAR MASON, NV

LOCATION.--Lat 38°48'45", long 119°02'50", in NW¼SW¼ sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank 0.9 mi upstream from head of Strosnider ditch, 12 mi southeast of Mason, and 13.5 mi southeast of Yerington.

DRAINAGE AREA.--1,100 mi^2, approximately.

PERIOD OF RECORD.--January 1947 to current year (no winter records since 1978).

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1957, near present site at datum 0.56 ft higher. Oct. 24, 1957, to Apr. 3, 1974, at site 400 ft downstream at same datum.

REMARKS.--Records good, except those for period of no gage-height record, April 1-22, which are fair. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--31 years (1948-78), 142 ft^3/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s Feb. 1, 1963, gage height, 7.60 ft; minimum daily, 2.3 ft^3/s Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 659 ft^3/s June 16, gage height, 5.30 ft; minimum daily during period of operation, 92 ft^3/s Apr. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							92	222	577	474	341	307
2							100	205	577	477	332	311
3							116	183	582	478	329	306
4							117	173	572	468	324	304
5							117	184	505	470	327	306
6							117	197	470	445	338	305
7							117	209	514	425	336	302
8							117	214	488	427	331	302
9							117	215	408	426	329	302
10							117	231	358	404	328	305
11							117	241	346	414	343	298
12							120	252	315	386	352	291
13							130	255	301	364	352	306
14							140	279	311	366	359	307
15							170	315	463	350	362	311
16							200	330	563	365	361	319
17							210	306	489	337	349	322
18							210	275	488	331	334	329
19							210	271	466	335	342	351
20							210	283	458	367	340	363
21							210	282	423	366	335	355
22							211	279	408	350	401	330
23							211	255	399	348	368	305
24							209	240	390	337	361	304
25							205	292	396	328	366	307
26							207	344	456	316	375	293
27							208	434	538	325	365	285
28							217	434	506	328	330	277
29							221	425	494	334	323	264
30							224	459	477	334	316	254
31							---	522	---	332	302	---
TOTAL							4967	8806	13738	11807	10651	9221
MEAN							166	284	458	381	344	307
MAX							224	522	582	478	401	363
MIN							92	173	301	316	302	254
AC-FT							9850	17470	27250	23420	21130	18290

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38", in NW¼NW¼ sec.22, T.6 N.,R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 0.8 mi north of Sonora Junction, 1.5 mi upstream from mouth, 4 mi northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi^2.

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

REVISED RECORDS.--WDR-82-1: Drainage area.

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

REMARKS.--Records good, except those for December, which are fair. Small diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--40 years (1944-84) 53.2 ft^3/s, 38,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft^3/s Jan. 31, 1963, gage height, 3.22 ft from rating curve extended above 350 ft^3/s on basis of slope-area measurement at gage height 2.80 ft; maximum gage height recorded, 3.63 ft Jan. 3, 1945 (backwater from ice); minimum discharge, 1.4 ft^3/s Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 13	2000	257	1.90
May 30	2100	*341	2.11
June 28	2100	232	1.83

Minimum daily discharge, 23 ft^3/s Sept. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	37	42	44	31	33	43	56	264	160	70	31
2	57	34	41	42	30	30	40	56	229	154	58	29
3	50	33	30	42	30	29	41	67	204	146	53	30
4	48	32	27	40	31	28	42	70	222	146	50	31
5	46	31	25	40	31	28	37	67	188	146	47	31
6	44	31	25	40	30	29	39	67	170	143	44	30
7	43	36	25	39	31	30	39	74	150	145	42	30
8	42	31	25	38	31	32	43	89	143	132	43	29
9	41	31	26	37	31	34	37	103	140	115	46	28
10	40	39	27	36	28	35	45	116	139	104	45	27
11	39	88	27	35	32	34	43	147	139	99	42	27
12	39	51	27	36	33	33	43	173	143	94	40	27
13	38	40	27	33	32	44	45	203	146	95	40	26
14	38	41	27	34	28	40	54	212	166	89	39	28
15	37	41	28	35	32	37	65	169	155	88	40	28
16	36	41	28	34	29	33	73	147	157	88	40	27
17	36	94	28	29	29	34	75	140	178	103	38	27
18	36	56	29	28	34	33	68	143	190	105	37	28
19	36	68	30	28	29	34	63	160	192	109	36	28
20	36	65	32	30	31	39	58	188	182	100	35	28
21	36	53	31	32	26	42	52	202	170	92	40	26
22	35	44	32	32	32	40	53	207	165	84	37	25
23	36	48	34	31	29	41	57	234	172	79	35	24
24	36	90	47	32	27	46	61	251	175	80	33	24
25	34	67	68	33	29	46	61	242	176	72	33	24
26	33	56	64	30	28	59	64	236	177	66	37	24
27	33	55	50	32	27	56	63	227	180	66	31	24
28	33	47	45	32	28	53	67	233	195	63	30	24
29	33	46	49	31	29	51	60	259	199	60	33	23
30	35	42	73	31	---	48	57	296	177	60	34	25
31	37	---	54	31	---	46	---	301	---	67	32	---
TOTAL	1221	1468	1123	1067	868	1197	1588	5135	5283	3150	1260	813
MEAN	39.4	48.9	36.2	34.4	29.9	38.6	52.9	166	176	102	40.6	27.1
MAX	58	94	73	44	34	59	75	301	264	160	70	31
MIN	33	31	25	28	26	28	37	56	139	60	30	23
AC-FT	2420	2910	2230	2120	1720	2370	3150	10190	10480	6250	2500	1610

CAL YR 1983	TOTAL	41505	MEAN	114	MAX	590	MIN	24	AC-FT	82330
WTR YR 1984	TOTAL	24173	MEAN	66.0	MAX	301	MIN	23	AC-FT	47950

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CA

LOCATION.--Lat 38°22'47", long 119°26'57", in NE¼SE¼ sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 150 ft downstream from Little Walker River, 60 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

DRAINAGE AREA.--131 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft, National Geodetic Vertical Datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft downstream at datum 1.00 fthigher.

REMARKS.--Records good. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 7 mi upstream.

AVERAGE DISCHARGE.--46 years, 335 ft^3/s, 193,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft^3/s Nov. 20, 1950, gage height, 8.10 ft, from rating curve extended above 1,900 ft^3/s on basis of slope-area measurement of peak flow; minimum, 4.0 ft3/s Nov. 18, 1948, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft^3/s Dec. 11, 1937, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,120 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	0200	1,980	4.81	June 18	0100	1,290	4.02
May 30	2400	*2,090	4.97	June 28	2400	1,380	4.11

Minimum daily discharge, 72 ft^3/s, Sept. 29, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	123	154	217	104	106	211	290	1530	823	318	130
2	209	114	149	196	103	104	197	302	1220	822	264	122
3	187	106	117	186	100	100	195	438	1070	814	241	117
4	170	105	105	177	102	99	204	564	1270	809	223	114
5	157	100	98	169	104	97	195	515	1210	784	212	112
6	148	94	95	163	104	103	196	485	937	776	197	112
7	142	119	94	159	103	108	199	533	739	794	187	111
8	138	120	94	154	105	115	239	687	681	727	185	109
9	133	105	94	146	110	124	212	826	691	575	189	106
10	129	114	93	146	104	133	240	944	733	501	185	103
11	125	296	95	140	103	136	241	1210	698	474	173	100
12	120	221	96	136	111	133	242	1360	753	455	172	101
13	113	170	96	131	110	160	271	1500	783	459	168	102
14	110	152	100	126	101	161	340	1630	894	432	164	104
15	107	157	100	137	115	150	436	1160	789	413	167	101
16	104	150	100	131	110	137	528	839	860	437	170	97
17	102	294	105	116	103	138	542	804	1030	583	177	96
18	100	220	106	118	99	134	450	852	1120	616	169	101
19	97	241	107	127	102	136	391	1040	1080	558	164	105
20	96	290	108	114	100	154	341	1320	1020	494	160	119
21	93	226	108	116	98	180	299	1460	878	449	161	105
22	91	190	109	114	92	177	296	1430	830	400	157	98
23	93	188	131	110	97	183	342	1560	901	356	150	92
24	99	315	179	112	97	207	419	1700	960	345	144	89
25	91	267	291	112	93	216	427	1560	999	326	140	85
26	87	228	292	109	90	259	370	1450	996	305	147	82
27	84	200	240	104	95	279	332	1350	983	306	134	78
28	84	181	206	107	96	261	313	1430	1090	291	130	74
29	83	169	209	105	98	256	285	1600	1180	268	133	72
30	92	159	276	106	---	237	280	1860	978	266	134	72
31	104	---	256	106	---	227	---	1300	---	332	135	---
TOTAL	3694	5414	4403	4190	2949	5010	9233	34499	28903	15990	5450	3009
MEAN	119	180	142	135	102	162	308	1113	963	516	176	100
MAX	209	315	292	217	115	279	542	1860	1530	823	318	130
MIN	83	94	93	104	90	97	195	290	681	266	130	72
AC-FT	7330	10740	8730	8310	5850	9940	18310	68430	57330	31720	10810	5970

CAL YR 1983 TOTAL 193877 MEAN 531 MAX 2870 MIN 83 AC-FT 384600
WTR YR 1984 TOTAL 122744 MEAN 335 MAX 1860 MIN 72 AC-FT 243500

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER NEAR COLEVILLE, CA--Continued

WATER-QUALITY RECORDS

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

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
APR 25...	1245	427	70	7.4	5.0	1.0	--	26	7.1	1.9
SEP 18...	1115	99	189	8.2	13.5	--	7.8	40	12	2.5

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, DIS-SOLVED (UG/L AS B)
APR 25...	3.2	.3	.70	26	3.0	1.0	40	46	--
SEP 18...	21	1	2.2	68	13	5.2	109	29	200

* Data from Calif. Dept. of Water Resources.

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16060302, in Toiyabe National Forest, on left bank 0.2 mi downstream from Rock Creek and 5 mi southeast of Coleville.

DRAINAGE AREA.--250 mi^2.

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.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft, from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi 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 upstream at different datum. May 26, 1957 to Sept. 10, 1963, water-stage recorder at site 10 ft downstream at datum 0.38 ft lower.

REMARKS.--Records good. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi upstream. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--55 years (1902-7, 1090-10, 1915-37, 1957-84), 281 ft^3/s, 203,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft^3/s Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 ft^3/s Dec. 3, 1924, Aug. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 1,120 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	0400	*2,070	3.90	June 29	0200	1,420	3.22
May 31	0400	2,040	3.94	July 17	2300	1,160	2.91
June 18	0300	1,340	3.15				

Minimum daily discharge, 76 ft^3/s, Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	158	189	240	120	120	244	339	1650	872	367	150
2	221	148	185	215	119	122	232	346	1320	866	303	146
3	212	142	171	208	116	118	230	452	1170	853	282	138
4	206	139	147	202	118	117	239	628	1320	845	265	135
5	195	135	130	196	121	112	232	577	1380	817	255	132
6	185	129	125	191	121	120	235	533	1050	800	241	130
7	180	143	120	188	119	124	235	573	828	822	229	130
8	175	159	120	184	121	130	270	750	756	769	225	130
9	167	141	120	175	127	139	253	928	747	605	224	124
10	162	143	120	172	122	149	277	1030	804	521	223	122
11	160	299	125	165	119	153	280	1300	750	491	214	119
12	155	252	125	159	126	153	284	1480	820	471	206	119
13	148	217	125	156	129	167	301	1580	840	473	203	119
14	145	175	130	152	115	187	350	1770	950	450	198	122
15	142	195	130	158	133	178	442	1320	852	433	198	119
16	140	184	130	155	130	164	549	953	904	445	201	117
17	137	302	135	143	119	165	588	907	1070	558	202	114
18	134	254	138	133	116	162	490	946	1170	687	196	119
19	132	248	139	146	119	164	432	1120	1120	582	192	122
20	127	320	140	134	115	179	386	1410	1100	534	186	140
21	126	251	140	139	119	203	351	1560	937	472	187	127
22	124	220	140	135	107	202	345	1500	873	428	182	119
23	125	217	164	131	114	207	378	1600	937	385	174	109
24	134	330	193	131	113	226	456	1710	1000	378	169	104
25	124	290	291	132	109	233	474	1620	1040	360	162	102
26	121	257	305	126	106	265	422	1540	1040	338	169	100
27	118	228	264	118	111	289	386	1440	1020	338	156	95
28	117	212	231	123	112	277	366	1500	1120	328	149	90
29	117	202	231	121	112	278	344	1640	1240	308	150	84
30	123	195	273	121	---	263	334	1840	1060	299	153	76
31	133	---	277	122	---	254	---	1850	---	344	153	---
TOTAL	4699	6285	5253	4871	3428	5620	10405	36742	30868	16872	6414	3553
MEAN	152	210	169	157	118	181	347	1185	1029	544	207	118
MAX	221	330	305	240	133	289	588	1850	1650	872	367	150
MIN	117	129	120	118	106	112	230	339	747	299	149	76
AC-FT	9320	12470	10420	9660	6800	11150	20640	72880	61230	33470	12720	7050

CAL YR 1983	TOTAL	204398	MEAN	560	MAX	2950	MIN	98	AC-FT 405400
WTR YR 1984	TOTAL	135010	MEAN	369	MAX	1850	MIN	76	AC-FT 267800

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW¼NE¼ sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050301, at outlet works of Topaz Lake on West Walker River, 5.5 mi 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 National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at datum 4.62 ft higher.

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 between altitudes 4,967.68 ft lowest practical altitude for diversion through tunnel (bottom of outlet tunnel at altitude, 4965.4 ft and 5,000.38 ft, 3 ft below top of levee. Usable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker Irrigation District.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft July 3, 1980, altitude, 5,000.92 ft present datum; no contents Oct. 31, 1924, Sept. 22, 24-30, Oct. 1-15, 1960, Aug. 19 to Dec. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 59,760 acre-ft June 5, altitude, 5,000.52 ft. Minimum contents observed 11,660 acre-ft Sept. 30, altitude, 4,975.09 ft.

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

4,975	11,515	4,990	37,360
4,977	14,770	4,995	47,540
4,979	18,080	5,000	58,570
4,981	21,440	5,001	60,870
4,985	28,310		

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45760	42060	46330	41170	43930	53460	59510	55130	57890	59190	47130	26100
2	45620	42060	45850	41010	44260	53800	59480	54730	58000	58940	46810	25640
3	45410	42430	45360	40790	44550	54080	59440	54550	58840	58840	46330	25160
4	45130	42630	45300	40630	44840	54400	59390	54330	59320	58300	45820	24690
5	44820	42760	44930	40490	45130	54690	59300	54370	59760	58300	45300	24210
6	44450	42920	44760	40360	45380	54930	59190	54330	59530	58750	44550	23620
7	44070	43070	44550	40340	45720	55240	59050	54260	59070	58710	43330	23020
8	43720	43210	44550	40340	46060	55560	58940	54200	58710	58660	43000	22420
9	43370	43430	44510	40280	46310	55870	58840	54240	58730	58570	41940	21810
10	42980	43660	44300	40240	46750	56190	58770	54440	58370	58200	41070	21320
11	42670	44030	44090	40220	47070	56550	58640	54690	59100	57910	40120	20810
12	42450	44570	43870	40200	47410	56910	58520	55020	59260	57590	39110	20310
13	42180	44970	43390	40160	47750	57250	58410	55220	59300	57000	38290	19870
14	42020	45380	43760	40160	48130	57660	58320	55510	59230	56410	37420	19330
15	42000	45680	43680	40160	48520	57930	58360	55740	59070	55510	36650	18800
16	41960	45990	43520	40160	48970	57930	58410	55510	58500	54800	35900	18270
17	42000	46310	43310	40160	49440	57930	58480	55130	58140	54080	35760	17800
18	42020	46670	43150	40320	49850	58020	58520	55020	58070	53680	34930	17130
19	42040	47350	43000	40460	50150	58050	58480	55130	58140	53530	34110	16440
20	42080	48030	42730	40510	50410	58090	58250	55580	58200	53130	33310	15980
21	42080	48350	42470	40750	50760	58180	57860	56260	58520	52600	32350	15480
22	42080	48430	42170	40950	51110	58270	57500	56820	58340	52070	31420	14970
23	42080	48130	41860	41090	51440	58360	57270	57360	59070	51570	30550	14500
24	42080	47920	41550	41430	51810	48480	57050	57840	59350	51150	29990	14040
25	42060	48450	41610	41780	52030	58590	56800	58140	59480	50720	29360	13610
26	42040	48280	41920	42140	52290	58750	56550	58180	59510	50350	28880	13190
27	42040	47940	42100	42430	52580	58890	56320	58050	59600	49850	28430	12800
28	42040	47600	41880	42760	52890	59100	56120	57950	59550	49270	27910	12410
29	42040	47180	41700	43060	53200	59260	55830	57910	59600	48670	27450	12050
30	42040	46750	41530	43410	---	59390	55490	57840	59510	48220	27000	11660
31	42040	---	41370	43660	---	59530	---	57860	---	47620	26570	---
MAX	45760	48450	46330	43660	53200	59530	59510	58180	59760	59190	47130	26100
MIN	41960	42060	41370	40160	43930	48480	55490	54200	57890	47620	26570	11660
†	4992.36	4994.63	4992.03	4993.15	4997.61	5001.42	4998.64	4999.69	5001.41	4995.04	4984.00	4975.09
‡	-3720	+4710	-5380	+2290	+9540	+6330	-4040	+2370	+1650	-11980	-21050	-14910

CAL YR 1983 MAX 59900 MIN 15560 ‡ +6550
WTR YR 1984 MAX 59760 MIN 11660 ‡ -34100

† Altitude, in feet, NGVD, at end of month.
‡ Change in contents, in acre-feet.

10297500 WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NV

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft upstream from Hoye Bridge, 2 mi upstream from head of Saroni Canal, and 4 mi southwest of Wellington.

DRAINAGE AREA.--497 mi^2.

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.

REVISED RECORDS.--WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft, 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 downstream, 1 mi downstream from Saroni Canal, at different datum, and supplemental nonrecording gage at Saroni Canal 1 mi downstream from head. Mar. 1, 1924, to Sept. 30, 1932, water-stage recorder at site at different datum.

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--37 years (1920-23, 1925-32, 1957-84), 253 ft^3/s, 183,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft^3/s July 8, 1983, gage height, 8.75 ft; minimum observed, 4.8 ft^3/s Jan. 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft^3/s May 31, gage height, 7.68 ft; minimum, 29 ft^3/s Feb. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	214	484	408	52	30	254	378	1600	936	453	278
2	412	176	481	405	52	30	253	374	1080	793	446	276
3	407	150	438	397	51	30	252	369	724	754	428	276
4	402	150	393	362	51	30	251	390	782	712	435	278
5	399	148	371	329	50	30	251	423	1120	719	431	303
6	397	148	329	283	45	30	249	426	1190	712	476	353
7	395	148	305	281	32	30	247	466	1020	712	494	348
8	392	148	304	280	32	30	245	496	718	713	523	318
9	390	148	317	279	31	30	246	567	611	683	516	301
10	370	147	337	268	32	30	242	610	581	640	514	282
11	333	153	338	253	32	30	245	782	584	532	512	278
12	329	158	338	251	32	30	244	1010	628	605	507	276
13	309	155	338	252	32	31	246	1170	703	694	480	293
14	259	153	338	238	32	68	246	1300	811	690	485	289
15	235	153	337	221	32	164	258	1330	1050	685	460	283
16	226	153	335	218	33	200	374	1030	983	682	453	285
17	211	156	335	197	33	186	402	920	979	681	448	323
18	209	202	334	159	32	190	424	813	1040	688	444	340
19	207	229	333	158	32	195	421	769	966	681	478	324
20	211	239	333	156	31	195	420	818	857	672	495	296
21	216	300	331	150	30	195	419	966	681	667	525	291
22	216	438	329	125	30	194	413	1100	617	662	522	288
23	215	438	331	99	30	195	400	1160	689	575	466	283
24	217	451	330	60	30	195	407	1320	754	496	391	267
25	216	516	332	58	30	195	420	1490	808	477	344	248
26	216	513	343	56	30	206	420	1510	881	474	334	245
27	214	502	384	55	30	211	418	1450	878	468	332	244
28	214	497	421	54	30	213	400	1400	880	462	326	238
29	214	491	407	54	30	214	406	1460	976	458	294	233
30	214	488	406	53	---	215	400	1610	1040	457	289	223
31	216	---	410	53	---	232	---	1700	---	457	283	---
TOTAL	8863	7962	11142	6212	1019	3854	9873	29607	26231	19637	13584	8560
MEAN	286	265	359	200	35.1	124	329	955	874	633	438	285
MAX	412	516	484	408	52	232	424	1700	1600	936	525	353
MIN	207	147	304	53	30	30	242	369	581	457	283	223
AC-FT	17580	15790	22100	12320	2020	7640	19580	58730	52030	38950	26940	16980

CAL YR 1983 TOTAL 224224 MEAN 614 MAX 2250 MIN 20 AC-FT 444700
WTR YR 1984 TOTAL 146544 MEAN 400 MAX 1700 MIN 30 AC-FT 290700

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi upstream from Wilson Canyon and 3 mi southeast of Hudson.

DRAINAGE AREA.--964 mi^2.

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year (no winter records since 1978). August 1914 to May 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft, from topographic map. Prior to May 1921, nonrecording gage at site 2.5 mi upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

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.

AVERAGE DISCHARGE.--41 years (1914-24, 1947-78), 187 ft^3/s, 135,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s Dec. 24, 1955, gage height, 7.42 ft, from floodmarks; minimum, 3.8 ft^3/s Jan. 22, 1962, but may have been less during periods of ice effort.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s June 1, gage height, 4.76 ft; minimum daily during period of operation, 125 ft^3/s Sept. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							204	298	1440	769	334	137
2							200	280	1140	594	317	136
3							184	281	583	495	305	135
4							191	270	565	412	287	126
5							193	306	804	413	286	125
6							189	324	1040	430	293	167
7							182	354	922	450	305	204
8							184	366	680	437	351	212
9							181	439	497	423	369	203
10							180	500	430	376	313	162
11							189	553	427	297	290	144
12							200	716	414	321	278	142
13							195	894	563	390	260	131
14							200	957	644	422	243	139
15							186	1080	859	436	230	146
16							281	885	842	436	214	147
17							345	757	800	436	225	157
18							357	691	865	472	252	176
19							350	682	854	526	270	211
20							338	729	800	540	272	220
21							344	808	615	552	288	193
22							354	920	501	561	314	193
23							339	874	513	503	312	200
24							310	993	579	454	228	202
25							294	1180	663	431	206	185
26							301	1250	717	417	200	179
27							305	1260	725	408	198	180
28							298	1190	702	395	192	177
29							307	1210	732	381	158	177
30							310	1300	826	373	151	179
31							---	1410	---	347	149	---
TOTAL							7691	23757	21742	13897	8090	5085
MEAN							256	766	725	448	261	170
MAX							357	1410	1440	769	369	220
MIN							180	270	414	297	149	125
AC-FT							15260	47120	43130	27560	16050	10090

10300600 WALKER RIVER NEAR MASON, NV

LOCATION.--Lat 38°55'11", long 119°11'20", in SW¼NE¼ sec.9, T.12 N., R.25 E., Lyon County, Hydrologic Unit 16050303, on right bank 50 ft downstream from bridge, 2 mi south of Mason, and 5 mi south-southwest of Yerington.

DRAINAGE AREA.--2,400 mi^2, approximately.

PERIOD OF RECORD.--May 1974 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft, from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--10 years, 336 ft^3/s, 243,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft^3/s June 19, 1983, gage height, 9.30 ft; minimum daily, 19 ft^3/s Oct. 13-17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft^3/s June 1, gage height, 8.22 ft; minimum daily, 106 ft^3/s Mar. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	951	398	1020	821	175	127	230	306	1710	854	412	279
2	951	365	931	821	175	127	240	271	1610	721	388	291
3	902	321	892	816	172	127	232	240	1010	602	398	288
4	897	303	821	775	170	127	238	222	922	543	388	268
5	878	297	779	726	163	125	227	230	1060	535	368	259
6	873	300	739	678	157	119	238	243	1370	559	371	262
7	859	303	752	631	144	121	238	265	1310	578	371	312
8	849	303	784	602	133	121	224	248	1050	535	398	339
9	835	297	793	574	131	119	219	291	812	528	415	336
10	821	297	854	570	131	111	219	362	686	464	358	312
11	784	306	882	559	129	108	216	398	661	395	343	276
12	699	315	882	547	129	106	214	490	652	371	336	248
13	640	312	878	543	131	111	211	743	699	395	339	230
14	615	303	936	539	133	117	222	835	816	450	330	230
15	531	297	986	486	131	137	196	951	1070	479	330	257
16	497	282	976	479	139	256	259	816	1260	490	327	271
17	479	285	1000	475	139	254	318	669	1160	501	336	297
18	461	312	1020	415	131	268	320	559	1200	551	312	306
19	446	346	1020	368	127	288	309	543	1180	607	282	355
20	432	365	971	362	127	282	300	562	1100	635	312	371
21	418	391	882	365	125	279	309	673	835	704	358	378
22	415	570	788	342	123	265	333	820	665	734	461	388
23	412	798	721	324	121	262	312	766	611	717	408	381
24	415	849	717	285	119	262	259	816	635	665	330	375
25	408	976	730	256	119	271	224	1040	708	619	318	352
26	408	991	766	248	119	279	243	1180	752	599	330	339
27	408	1050	766	240	117	248	262	1280	826	570	336	343
28	418	1050	840	232	121	243	291	1300	826	531	312	330
29	432	1040	830	214	123	243	294	1300	812	531	285	321
30	439	1050	830	196	---	240	294	1390	897	512	279	315
31	401	---	830	187	---	224	---	1580	---	454	265	---
TOTAL	18974	15072	26616	14676	3954	5967	7691	21389	28905	17429	10796	9309
MEAN	612	502	859	473	136	192	256	690	964	562	348	310
MAX	951	1050	1020	821	175	288	333	1580	1710	854	461	388
MIN	401	282	717	187	117	106	196	222	611	371	265	230
AC-FT	37630	29900	52790	29110	7840	11840	15260	42430	57330	34570	21410	18460

CAL YR 1983 TOTAL 340063 MEAN 932 MAX 2780 MIN 126 AC-FT 674500
WTR YR 1984 TOTAL 180778 MEAN 494 MAX 1710 MIN 106 AC-FT 358600

10301500 WALKER RIVER NEAR WABUSKA, NV
(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, Hydrologic Unit 16050303, on left bank 600 ft upstream from timber bridge at Julian Ranch, 1.8 mi downstream from Southern Pacific Railroad bridge, 4.6 mi each of Wabuska, and 16 mi upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi^2, 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.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft, from topographic map. July 22, 1902, to July 31, 1908, nonrecording gage at site 2.5 mi 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 downstream at different datum. January 1939 to September 1958, non-recording gage on bridge 300 ft downstream at datum 1.19 ft higher.

REMARKS.--Records fair, except for period of no gage-height record, Mar. 23 to May 3, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 are-ft.

AVERAGE DISCHARGE.--59 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-84), 174 ft^3/s, 126,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum dishcarge observed, 3,280 ft^3/s July 10, 11, 1906, gage height, 5.90 ft, site and datum then in use; no flow at times in 1924, 1925, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,510 ft^3/s June 2, gage height, 8.30 ft; minimum, 44 ft^3/s Sept. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	871	408	1020	846	207	157	148	205	1400	706	212	82
2	845	364	947	841	200	152	144	210	1500	600	177	112
3	828	335	875	837	198	154	140	195	1130	399	150	103
4	820	319	840	820	195	151	138	158	790	331	158	111
5	805	338	774	761	190	143	136	112	830	319	171	107
6	805	336	730	722	185	128	134	120	1120	337	173	66
7	796	336	731	677	182	126	134	154	1230	355	140	62
8	788	325	767	646	177	133	131	155	1110	332	108	140
9	790	311	772	611	175	135	131	119	761	324	147	191
10	775	312	800	605	172	133	120	184	575	323	139	183
11	734	327	847	603	173	129	120	253	507	267	119	132
12	681	339	867	590	172	125	120	334	506	177	124	79
13	618	339	866	583	173	124	120	537	517	156	168	57
14	565	325	877	573	173	119	120	658	644	219	155	50
15	477	317	954	536	177	127	118	706	792	278	149	53
16	453	319	957	511	181	228	110	652	1080	312	120	96
17	449	317	956	502	180	279	150	459	1060	322	112	125
18	432	333	1010	466	172	252	195	379	1040	338	114	155
19	427	369	1010	402	162	264	220	386	1040	424	77	155
20	420	400	993	386	163	232	215	405	910	509	87	238
21	422	427	924	383	167	225	210	538	705	566	93	249
22	424	508	832	375	161	215	210	720	482	621	184	249
23	424	809	762	352	160	205	230	654	389	647	226	270
24	438	867	740	330	156	198	220	611	402	659	221	262
25	434	948	733	292	155	188	190	725	478	588	198	247
26	430	995	770	278	153	180	160	905	566	539	253	248
27	431	1050	778	267	152	174	168	1010	640	493	263	230
28	432	1040	823	256	153	168	180	1070	659	417	217	225
29	439	1030	839	245	157	162	195	1050	628	393	149	226
30	454	1040	844	232	---	156	200	1040	670	380	108	215
31	426	---	848	222	---	150	---	1200	---	307	76	---
TOTAL	18133	15483	26486	15750	5021	5312	4807	15904	24161	12638	4788	4718
MEAN	585	516	854	508	173	171	160	513	805	408	154	157
MAX	871	1050	1020	846	207	279	230	1200	1500	706	263	270
MIN	420	311	730	222	152	119	110	112	389	156	76	50
AC-FT	35970	30710	52530	31240	9960	10540	9530	31550	47920	25070	9500	9360

CAL YR 1983	TOTAL	303114	MEAN	830	MAX	2490	MIN	167	AC-FT	601200
WTR YR 1984	TOTAL	153201	MEAN	419	MAX	1500	MIN	50	AC-FT	303900

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1960 to current year.
CHEMICAL ANALYSES: October 1968 to September 1969, daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to current year, every two months.
SPECIFIC CONDUCTANCES: October 1968 to September 1976, once daily; October 1976 to September 1981, monthly; October 1981 to current year, every two months.
BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to September 1981, monthly; October 1981 to current year, every two months.
WATER TEMPERATURES: February 1960 to September 1963, occasional; October 1963 to September 1968, monthly; October 1968 to September 1976, once daily; October 1976 to September 1981, monthly; October 1981 to current year, every two months.
SEDIMENT DATA: October 1973 to September 1981, monthly; October 1981 to current year, every two months.

REMARKS.--Inflow from two drainage ditches enters stream less than a mile above sampling site. Because inflow and streamflow 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 was responsible for some of the variation shown by daily specific-conductance and temperature data during water years 1969-76. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Pesticide analyses prior to October 1981 from U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 792 micromhos Dec. 12, 1972; minimum, 165 micromhos July 20, 1982.
PHYTOPLANKTON: Maximum, 120,000 cells/mL Mar. 27, 1975; minimum, 220 cells/mL Sept. 24, 1979.
FECAL STREPTOCOCCI: Maximum, 2,100 colonies/100 mL (non-ideal colony count) July 20, 1982; minimum, 16 colonies/100 mL Mar. 9, 1976.
WATER TEMPERATURES: Maximum, 36.5°C July 28, 1961; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,720 mg/L Mar. 27, 1975; minimum, 10 mg/L Nov. 17, 1977.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
09...	1115	282	330	8.0	8.0	8.1	10.4	103	12	44	390
JAN											
25...	1145	292	--	--	5.0	18	10.9	99	12	K28	240
MAR											
20...	1145	228	320	7.9	12.0	39	9.4	102	18	190	950
MAY											
30...	1145	1040	185	7.9	17.5	29	7.3	90	36	--	1800
JUL											
24...	1045	662	220	8.0	20.5	24	7.2	93	29	200	780
AUG											
29...	1115	154	405	8.2	21.5	22	8.2	108	--	89	150

K: NON-IDEAL COLONY COUNT.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

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

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 09...	110	31	7.1	34	1	3.2	125	41	10	.50	20
JAN 25...	130	37	8.8	45	2	3.6	142	66	16	.60	24
MAR 20...	95	27	6.5	33	2	3.2	121	37	12	.50	20
MAY 30...	60	17	4.1	16	.9	2.7	73	18	5.0	.30	14
JUL 24...	71	21	4.6	19	1	3.0	84	20	5.4	.30	17
AUG 29...	130	39	7.9	42	2	4.2	136	57	12	.50	23

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)
NOV 09...	197	220	150	<.100	.040	.70	.090	.040	<.010	10	9
JAN 25...	288	290	227	.260	.040	.30	.100	.040	--	--	--
MAR 20...	210	210	129	.160	.040	.60	.220	.040	.030	<10	9
MAY 30...	114	120	320	<.100	.040	.80	.350	.060	.070	40	8
JUL 24...	138	140	247	.110	.030	.60	.220	.070	.070	--	--
AUG 29...	271	270	113	--	.010	.60	.180	.100	.100	20	10

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
NOV 09...	46	<.5	<1	<1	<3	1	22	<1	34	24	.2
JAN 25...	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	41	.6	<1	<1	<3	2	25	3	30	69	<.1
MAY 30...	34	<1	<1	<1	<3	2	54	8	21	3	<.1
JUL 24...	--	--	--	--	--	--	--	--	--	--	--
AUG 29...	55	1	<1	<1	<3	2	11	2	29	18	<.1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	<10	<1	<1	<1	300	<6	30	30	23	--
JAN 25...	--	--	--	--	--	--	--	57	45	--
MAR 20...	10	1	<1	<1	260	<6	9	126	78	--
MAY 30...	<10	7	<1	<1	170	<6	6	332	932	78
JUL 24...	--	--	--	--	--	--	--	202	361	--
AUG 29...	<10	1	<1	<1	340	<6	9	80	33	--

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'50", long 119°45'50", in SW¼SE¼ sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank 0.5 mi downstream from Markleeville Creek and 1.5 mi north-northeast of Markleeville.

DRAINAGE AREA.--276 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft, from topographic map. Prior to Oct. 1, 1967, at present site at datum 2.00 ft higher.

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.

AVERAGE DISCHARGE.--24 years, 381 ft^3/s, 276,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s Jan. 31, 1963, gage height, 10.21 ft, present datum; minimum, 9.5 ft^3/s Nov. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 17	1400	2,730	5.70	May 13	2300	3,350	6.03
Nov. 24	1400	*3,460	6.12	May 23	2200	2,860	5.73
Dec. 25	1500	1,860	5.04	June 4	2000	2,100	5.20

Minimum discharge, 78 ft^3/s, Sept. 17-18, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	293	363	548	221	225	401	560	1710	661	211	138
2	261	221	350	492	217	229	381	565	1490	660	188	135
3	231	193	338	459	207	222	385	809	1330	643	174	120
4	212	183	311	433	211	219	413	972	1610	611	164	114
5	202	168	311	414	215	207	393	888	1520	591	158	115
6	193	158	328	398	214	224	387	873	1330	588	151	123
7	190	245	323	388	212	236	414	942	1070	548	148	119
8	196	191	347	376	214	253	494	1200	967	503	158	121
9	184	173	392	355	221	273	419	1460	939	441	158	119
10	179	217	374	347	208	287	450	1620	928	402	157	107
11	175	834	424	331	197	286	428	2070	885	379	158	99
12	171	458	345	313	217	271	442	2120	900	356	157	96
13	165	377	401	305	249	376	505	2420	883	351	159	92
14	165	316	461	289	213	396	635	2410	971	354	166	94
15	163	306	422	286	274	338	810	1680	954	334	156	87
16	161	428	387	283	272	307	984	1290	948	328	159	87
17	159	1460	400	247	226	311	997	1280	1030	360	151	81
18	154	610	353	253	213	298	818	1350	1020	382	142	88
19	137	619	342	265	221	297	698	1590	1010	333	139	106
20	134	914	316	242	219	339	616	1960	939	309	136	104
21	131	568	279	258	227	400	555	2000	856	294	150	94
22	129	447	272	245	192	375	563	1950	802	274	148	92
23	134	442	294	237	202	375	663	2180	820	301	145	87
24	144	1410	470	237	205	421	789	2210	846	288	143	86
25	129	788	1250	238	196	437	748	1980	846	254	142	86
26	126	562	1090	230	185	531	625	1860	816	236	140	87
27	124	481	837	214	197	545	574	1760	785	224	135	83
28	122	432	632	223	202	503	524	1830	818	213	133	83
29	120	401	597	221	202	499	509	2050	826	199	144	82
30	150	381	709	222	---	453	532	2210	735	193	143	86
31	200	---	644	224	---	437	---	2030	---	204	140	---
TOTAL	5214	14276	14362	9573	6249	10570	17152	50119	30584	11814	4753	3011
MEAN	168	476	463	309	215	341	572	1617	1019	381	153	100
MAX	273	1460	1250	548	274	545	997	2420	1710	661	211	138
MIN	120	158	272	214	185	207	381	560	735	193	133	81
AC-FT	10340	28320	28490	18990	12390	20970	34020	99410	60660	23430	9430	5970

CAL YR 1983 TOTAL 300491 MEAN 823 MAX 6230 MIN 120 AC-FT 596000
WTR YR 1984 TOTAL 177677 MEAN 485 MAX 2420 MIN 81 AC-FT 352400

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼NE¼ sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank 0.1 mi downstream from Horseshoe Bend, 2 mi east of Mud Lake Reservoir, 4.5 mi downstream from Bryant Creek, and 7 mi southeast of Gardnerville.

DRAINAGE AREA.--356 mi^2.

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.

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft, National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums.

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. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--58 years (1890-93, 1908-10, 1925-28, 1935-37, 1939-84), 396 ft^3/s, 286,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft^3/s Dec. 23, 1955, gage height, 11.88 ft, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurements at gage heights 9.66 ft and 11.88 ft; minimum observed, 7.8 ft^3/s Nov. 20, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 17	1600	2,740	4.55	Dec. 25	1700	1,980	3.88
Nov. 20	0300	1,320	3.17	May 14	0200	2,810	4.61
Nov. 24	1600	*3,430	5.09	May 24	0200	2,500	4.35

Minimum daily discharge, 94 ft^3/s Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	322	393	611	235	240	447	576	1700	667	213	145
2	284	253	379	547	231	257	421	571	1480	662	196	140
3	248	212	399	511	221	249	418	725	1350	652	183	127
4	228	202	343	482	226	250	453	1010	1460	616	173	122
5	215	188	346	462	229	233	431	909	1550	593	167	121
6	206	176	358	440	228	250	421	876	1330	592	162	130
7	201	234	352	428	225	262	435	920	1120	550	158	126
8	207	228	381	415	228	274	536	1120	997	522	167	126
9	196	189	423	393	236	297	459	1380	942	456	166	125
10	191	195	443	385	224	313	478	1510	947	415	166	117
11	188	791	474	367	212	319	465	1860	885	385	165	109
12	185	482	391	346	236	304	468	2000	912	361	162	110
13	179	426	440	341	259	355	518	2130	886	346	165	106
14	178	320	516	324	241	473	646	2310	956	368	174	107
15	177	324	484	316	292	373	815	1730	976	346	163	103
16	175	395	429	319	329	340	993	1310	934	333	167	103
17	173	1450	446	279	256	339	1050	1280	1010	364	159	100
18	171	707	394	280	239	332	867	1320	1020	396	149	98
19	157	561	380	304	248	332	746	1490	1000	341	145	116
20	154	1020	351	271	242	361	656	1810	954	323	144	117
21	150	622	314	285	257	434	586	1930	871	306	153	106
22	148	490	306	270	213	411	581	1830	808	287	154	105
23	148	471	319	263	231	405	665	1970	815	305	151	100
24	164	1470	421	263	233	453	806	2100	851	317	149	99
25	149	938	1280	258	222	475	790	1890	855	268	148	102
26	145	631	1230	250	208	547	655	1800	828	243	146	104
27	143	530	949	231	221	612	604	1690	786	232	139	101
28	141	474	706	242	228	564	553	1730	801	219	137	97
29	140	439	649	237	222	552	530	1890	833	206	149	97
30	160	416	754	238	---	509	542	2070	754	201	148	97
31	182	---	723	238	---	483	---	1940	---	213	145	---
TOTAL	5684	15156	15773	10596	6872	11598	18035	47677	30611	12085	4963	3356
MEAN	183	505	509	342	237	374	601	1538	1020	390	160	112
MAX	301	1470	1280	611	329	612	1050	2310	1700	667	213	145
MIN	140	176	306	231	208	233	418	571	754	201	137	97
AC-FT	11270	30060	31290	21020	13630	23000	35770	94570	60720	23970	9840	6660

CAL YR 1983	TOTAL	320073	MEAN	877	MAX	6390	MIN	140	AC-FT 634900
WTR YR 1984	TOTAL	182406	MEAN	498	MAX	2310	MIN	97	AC-FT 361800

10309050 PINE NUT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°51'34", long 119°34'02", in NE¼SE¼ sec.36, T.11 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on right bank, 11.5 mi southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi^2.

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31 ft^3/s Apr. 11, 1982, gage height, 3.86 ft, maximum gage height 3.88 ft, June 3, 1983; minimum, 0.02 ft^3/s July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft^3/s Nov. 10-11, gage height, 3.54 ft; minimum 0.20 ft^3/s Oct. 5, 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.1	2.2	5.4	1.5	2.0	2.1	2.4	1.3	.75	.68	.86
2	1.1	1.4	2.0	4.3	1.4	2.0	2.1	2.3	1.2	.71	.60	.79
3	1.0	1.3	1.9	3.1	1.3	2.0	2.0	1.9	1.2	.64	.56	.73
4	.28	1.3	1.8	3.1	1.4	1.8	2.1	1.9	1.3	.64	.56	.71
5	.23	1.5	1.9	3.4	1.5	1.6	2.2	2.0	1.3	.70	.54	.73
6	.24	2.0	2.1	3.3	1.4	1.9	1.8	2.0	1.3	.68	.55	.69
7	.33	6.1	2.1	3.0	1.4	1.9	1.8	2.1	1.3	.64	.54	.74
8	.44	7.5	2.1	2.9	1.4	1.9	2.0	1.9	1.2	.60	.51	.70
9	.58	8.3	2.3	2.4	1.5	1.9	1.7	1.7	1.1	.62	.53	.65
10	1.5	11	2.3	1.6	1.4	1.9	1.9	1.8	1.1	.65	.56	.63
11	3.1	12	2.4	1.6	1.4	1.8	1.9	1.9	1.1	.64	.62	.67
12	3.9	11	2.4	1.5	1.7	1.8	1.9	2.1	1.3	.62	.61	.70
13	3.6	10	3.1	1.6	1.6	2.1	2.0	2.4	1.3	.65	.72	.74
14	3.7	9.4	4.3	1.6	1.5	2.2	2.1	3.9	1.6	.65	.68	.71
15	2.0	9.0	3.7	1.7	1.8	2.2	1.7	5.0	1.5	.66	.67	.68
16	2.8	8.0	3.7	1.7	1.9	1.9	1.6	5.6	1.3	.65	.67	.68
17	3.0	7.7	3.8	1.2	1.8	1.8	1.7	5.4	1.2	.76	.65	.69
18	3.1	7.7	3.5	1.4	1.7	2.1	1.9	5.8	1.0	.75	.60	.75
19	2.8	7.1	3.0	1.5	1.8	2.3	2.0	7.4	.90	.78	.57	.88
20	2.7	7.7	2.9	1.5	1.7	2.5	2.1	3.8	.83	.74	.60	.85
21	2.7	5.2	2.3	1.5	1.8	2.4	2.2	2.0	.88	.71	.64	.85
22	2.6	5.2	2.6	1.6	1.6	2.5	2.2	2.0	.85	.68	.66	.75
23	2.5	4.7	2.9	1.6	1.8	2.6	2.1	2.0	.83	.89	.63	.71
24	2.5	4.5	3.4	1.7	1.9	2.7	2.0	2.0	.82	.90	.60	.77
25	2.2	4.0	5.1	1.3	1.8	2.2	2.2	1.9	.85	.73	.71	.80
26	2.1	3.7	4.9	1.2	1.7	2.4	2.2	1.8	.76	.64	.70	.75
27	2.7	3.5	5.5	1.2	1.8	2.5	2.6	1.6	.69	.59	.62	.72
28	2.4	2.9	5.2	1.3	1.9	2.6	2.5	1.5	.70	.61	.62	.69
29	1.6	2.7	5.7	1.4	1.8	2.1	2.6	1.4	.71	.63	1.1	.66
30	1.6	2.4	6.5	1.5	---	2.0	2.5	1.4	.77	.73	.97	.75
31	2.5	---	5.6	1.5	---	2.0	---	1.3	---	.72	.88	---
TOTAL	62.80	170.9	103.2	63.6	47.2	65.6	61.7	82.2	32.19	21.36	20.15	22.03
MEAN	2.03	5.70	3.33	2.05	1.63	2.12	2.06	2.65	1.07	.69	.65	.73
MAX	3.9	12	6.5	5.4	1.9	2.7	2.6	7.4	1.6	.90	1.1	.88
MIN	.23	1.3	1.8	1.2	1.3	1.6	1.6	1.3	.69	.59	.51	.63
AC-FT	125	339	205	126	94	130	122	163	64	42	40	44

CAL YR 1983	TOTAL	1837.02	MEAN	5.03	MAX	20	MIN	.23	AC-FT	3640
WTR YR 1984	TOTAL	752.93	MEAN	2.06	MAX	12	MIN	.23	AC-FT	1490.9

10309070 BUCKEYE CREEK NEAR MINDEN, NV

LOCATION.--Lat 38°58'59", long 119°34'23", in NE¼NW¼ sec.24, T.13 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on left bank 10.5 mi east of Minden.

DRAINAGE AREA.--46.3 mi^2.

PERIOD OF RECORD.--April 1980 to current year.

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

REMARKS.--Records good, except those for winter months and discharges above 20 ft^3/s, which are poor. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft^3/s Aug. 29, 1984, gage height 7.81 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft^3/s Aug. 29, gage height 7.81 ft; minimum daily, 0.02 ft^3/s Jan. 19, result of freezeup.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	.53	.72	1.1	.62	2.2	1.1	.76	.74	.05	.25	.25
2	1.5	.30	1.0	.39	.53	1.7	.93	.64	.70	.05	.21	.16
3	.79	.26	1.6	.46	.41	1.4	.70	.48	.78	.03	.20	.12
4	.50	.22	1.0	.43	.38	.75	.74	.45	1.2	.03	.21	.10
5	.37	.20	.78	.42	.38	.73	.94	.50	1.1	.04	.20	.09
6	.31	.19	.95	.45	.39	.70	1.1	.40	.91	.07	.20	.09
7	.35	.14	1.6	.43	.30	.70	.68	.35	.88	.05	.20	.09
8	.35	.13	2.5	.47	.23	.68	.80	.31	.82	.04	.21	.09
9	.25	.13	2.4	.45	.18	.67	.80	.32	.67	.04	.21	.09
10	.27	.14	.96	.42	.28	.64	.66	.34	.73	.05	.25	.09
11	.28	1.9	.84	.40	.32	.51	.53	.39	.71	.05	.34	.11
12	.27	.31	.73	.37	.36	.46	.49	.42	.76	.05	.35	.11
13	.30	.27	3.5	.40	.50	1.1	.41	.43	.82	.06	.42	.13
14	.83	.25	11	.31	.76	2.5	.37	.99	1.9	.08	.46	.11
15	.43	.36	4.5	.26	1.9	2.4	.33	1.5	1.9	.07	.38	.11
16	.33	.46	2.5	.19	1.5	1.4	.38	1.5	.80	.08	.40	.11
17	.30	9.8	4.5	.14	1.0	2.2	.50	1.2	.50	.18	.38	.11
18	.28	.54	1.4	.10	.70	1.4	.75	1.1	.44	.21	.34	.13
19	.25	3.5	.73	.02	.78	1.5	.97	.83	.25	3.9	.35	7.2
20	.24	3.4	.23	.09	.68	1.6	.89	.77	.22	.37	.45	.21
21	.21	.42	.22	.11	.55	1.5	.67	.78	.23	.13	.56	.14
22	.21	.21	.21	.11	1.4	.93	.50	.72	.20	.15	.66	.12
23	.21	.50	.19	.11	1.6	.90	.46	.76	.17	.38	.66	.11
24	.27	.85	.27	.19	.90	1.1	.46	.79	.16	.38	.61	.12
25	.24	.75	.40	.19	.90	1.1	.60	.84	.16	.19	1.5	.11
26	.23	.60	.56	.32	.93	1.3	.81	.78	.11	.13	1.2	.11
27	.20	.65	.66	.38	.95	1.1	1.0	.76	.08	.11	.90	.11
28	.19	.80	.84	.43	.93	.86	.92	.74	.06	.11	.87	.10
29	.20	.73	1.3	.40	.98	.88	.78	.87	.06	.13	95	.10
30	.27	.35	1.6	.32	---	.95	.69	1.0	.06	.90	5.0	.12
31	.44	---	1.3	.39	---	1.0	---	.85	---	.36	.50	---
TOTAL	14.47	28.89	50.99	10.25	21.34	36.86	20.96	22.57	18.12	8.47	113.47	10.64
MEAN	.47	.96	1.64	.33	.74	1.19	.70	.73	.60	.27	3.66	.35
MAX	3.6	9.8	11	1.1	1.9	2.5	1.1	1.5	1.9	3.9	95	7.2
MIN	.19	.13	.19	.02	.18	.46	.33	.31	.06	.03	.20	.09
AC-FT	29	57	101	20	42	73	42	45	36	17	225	21

CAL YR 1983	TOTAL	1007.81	MEAN	2.76	MAX	36	MIN	.00	AC-FT	2000
WTR YR 1984	TOTAL	357.03	MEAN	.98	MAX	95	MIN	.02	AC-FT	708

10309100 EAST FORK CARSON RIVER AT MINDEN, NV

LOCATION.--Lat 38°56'48", long 119°46'45", in NE¼NE¼SW¼ sec.31, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank on downstream side of bridge on State Highway 88 and 1.0 mi southwest of Minden.

DRAINAGE AREA.--392 mi^2, approximately.

PERIOD OF RECORD.--March 1974 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,716.11 ft, National Geodetic Vertical Datum of 1929 (levels by Nevada Highway Department). Mar. 7 to June 25, 1975, at site 75 ft upstream at same datum.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--10 years (water years 1975-84), 258 ft^3/s, 186,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,000 ft^3/s Jan. 14, 1980, gage height, 11.40 ft; minimum, 0.05 ft^3/s Sept. 23, 24, Oct. 1-5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,570 ft^3/s Nov. 24, gage height, 8.67 ft; minimum daily, 2.1 ft^3/s Sept. 29, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	157	352	656	218	208	347	415	1440	266	2.8	3.3
2	76	135	341	568	215	224	318	410	1100	245	2.5	3.0
3	78	115	384	526	205	217	299	540	951	232	2.4	3.0
4	85	116	326	489	205	217	303	720	1050	207	2.7	2.9
5	103	113	322	460	208	206	276	660	1330	192	3.0	2.9
6	98	107	331	434	210	212	241	630	995	186	3.3	3.0
7	96	122	325	421	203	213	233	660	768	168	3.8	3.2
8	99	139	357	406	208	221	293	840	618	149	3.7	3.5
9	99	104	396	379	209	242	257	980	566	119	3.3	3.6
10	97	106	434	371	207	263	259	1150	579	98	3.3	3.3
11	97	449	424	355	194	267	259	1380	521	86	3.3	3.0
12	96	325	346	330	218	244	259	1480	534	74	3.4	3.0
13	94	299	372	332	224	238	259	1580	489	68	3.6	3.0
14	93	224	451	319	240	419	282	1670	544	60	3.7	3.2
15	90	234	443	303	250	297	404	1290	625	52	3.4	3.0
16	93	243	410	317	346	264	621	847	540	45	3.7	2.7
17	94	967	426	273	236	260	788	739	596	39	3.4	2.5
18	87	581	378	270	218	260	630	752	643	33	3.2	2.3
19	77	517	361	304	226	254	540	938	642	29	2.7	2.4
20	73	802	335	261	219	259	480	1370	604	25	2.8	3.0
21	72	532	296	271	232	325	420	1690	507	23	2.9	3.7
22	70	434	309	257	194	309	420	1530	420	21	3.3	3.7
23	68	402	299	249	207	305	480	1780	405	19	3.3	4.3
24	78	1730	347	248	214	342	580	2090	432	17	3.1	3.9
25	74	900	1460	247	201	363	575	1770	420	14	3.3	3.9
26	67	600	1750	238	192	415	480	1600	381	11	2.7	3.5
27	64	500	1250	219	198	510	440	1390	342	9.0	3.2	2.7
28	54	430	817	225	203	442	400	1450	345	7.0	3.0	2.3
29	43	400	696	221	199	445	380	1690	370	5.6	2.9	2.1
30	45	370	799	221	---	400	390	1980	324	4.4	3.0	2.1
31	71	---	818	221	---	374	---	1810	---	3.5	2.9	---
TOTAL	2507	12153	16355	10391	6299	9215	11913	37831	19081	2507.5	97.6	92.0
MEAN	80.9	405	528	335	217	297	397	1220	636	80.9	3.15	3.07
MAX	103	1730	1750	656	346	510	788	2090	1440	266	3.8	4.3
MIN	43	104	296	219	192	206	233	410	324	3.5	2.4	2.1
AC-FT	4970	24110	32440	20610	12490	18280	23630	75040	37850	4970	194	182

CAL YR 1983	TOTAL	219992	MEAN	603	MAX	4030	MIN	12	AC-FT	436400
WTR YR 1984	TOTAL	128442.1	MEAN	351	MAX	2090	MIN	2.1	AC-FT	254800

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi downstream from bridge on State Highway 88-89, 0.6 mi southwest of Woodsford, and 3.8 mi downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi^2.

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 parts of 1910-11), at site 0.7 mi downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft, National Geodetic Vertical Datum of 1929. 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 lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft downstream at datum 3.06 ft lower.

REMARKS.--Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft.

AVERAGE DISCHARGE.--53 years (1900-1907, 1938-84), 115 ft^3/s, 83,320 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft^3/s Feb. 1, 1963, gage height, 9.0 ft, on basis of slope-area measurement of peak flow; minimum, about 5 ft^3/s Dec. 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft, present datum, from floodmarks, discharge, 3,500 ft^3/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 19	2300	904	3.65	May 11	2300	*999	3.79
Nov. 24	1600	719	3.35	May 23	2400	802	3.50
Apr. 16	2100	589	3.16	May 31	0100	640	3.25
May 3	2100	652	3.24	June 4	1900	623	3.22

Minimum daily discharge, 27 ft^3/s, Sept. 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	149	136	188	73	65	140	278	432	167	59	62
2	67	102	129	168	73	69	133	337	381	165	72	37
3	60	80	93	154	71	69	149	481	364	165	72	33
4	57	75	106	141	70	68	169	503	457	163	74	31
5	56	69	134	129	71	66	159	478	410	159	67	31
6	55	65	129	118	71	69	170	448	375	151	47	30
7	55	81	122	116	71	73	218	454	312	148	45	30
8	55	71	118	112	71	81	227	536	284	135	44	29
9	54	68	118	108	73	90	181	582	269	117	43	28
10	54	80	112	106	70	97	188	615	265	108	41	35
11	51	296	120	102	71	96	177	752	246	102	41	42
12	50	188	112	98	73	90	199	776	251	99	41	63
13	49	146	129	95	71	101	237	793	253	96	48	57
14	50	134	165	91	70	110	302	806	295	93	48	57
15	49	127	159	93	74	99	403	592	307	92	60	54
16	49	143	139	91	65	93	460	457	282	89	68	33
17	49	352	129	83	75	87	490	442	238	106	67	28
18	48	233	118	91	74	88	423	450	284	109	65	29
19	47	313	114	86	73	92	311	482	276	93	41	31
20	47	414	112	83	70	109	263	573	258	92	37	30
21	47	230	97	90	67	129	244	601	233	90	37	28
22	46	173	90	83	71	121	261	576	221	85	36	28
23	49	162	102	80	71	126	324	616	217	82	36	27
24	51	414	127	81	66	147	376	631	228	78	35	35
25	48	330	305	83	64	159	336	533	229	70	35	37
26	46	227	380	78	67	254	263	501	211	66	34	52
27	46	185	273	74	64	236	240	461	200	62	34	52
28	46	162	217	75	63	204	224	481	203	60	44	50
29	47	151	191	77	62	191	227	513	213	58	65	48
30	69	143	233	75	---	163	252	558	188	59	65	34
31	90	---	240	74	---	158	---	517	---	66	65	---
TOTAL	1661	5363	4749	3123	2025	3600	7751	16823	8432	3225	1566	1161
MEAN	53.6	179	153	101	69.8	116	258	543	281	104	50.5	38.7
MAX	90	414	380	188	75	254	490	806	457	167	74	63
MIN	46	65	90	74	62	65	133	278	188	58	34	27
AC-FT	3290	10640	9420	6190	4020	7140	15370	33370	16720	6400	3110	2300

CAL YR 1983	TOTAL	93621	MEAN	256	MAX	1720	MIN	42	AC-FT	185700
WTR YR 1984	TOTAL	59479	MEAN	163	MAX	806	MIN	27	AC-FT	118000

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July, September, and December 1949, March 1950 to March 1952, November 1952, March 1960 to July 1961, February 1962 to current year.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
04...	0935	59	66	--	7.0	--	--	--	--	--
28...	1000	46	68	--	6.0	--	--	--	--	--
NOV										
29...	1100	134	64	--	1.0	--	--	--	--	--
JAN										
05...	1415	142	61	--	2.0	--	--	--	--	--
30...	1415	87	66	--	2.5	--	--	--	--	--
FEB										
28...	1330	76	71	--	3.0	--	--	--	--	--
MAR										
29...	1400	184	57	--	4.0	--	--	--	--	--
APR										
*25...	1100	313	53	7.4	1.5	2.0	--	21	5.9	1.5
30...	1000	252	59	--	4.0	--	--	--	--	--
JUN										
01...	1330	400	44	--	9.0	--	--	--	--	--
JUL										
30...	1440	58	62	--	15.0	--	--	--	--	--
SEP										
04...	0910	32	70	--	11.0	--	--	--	--	--
*18...	0845	27	73	7.8	13.0	--	7.9	26	6.9	2.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, DIS-SOLVED (UG/L AS B)
OCT									
04...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
NOV									
29...	--	--	--	--	--	--	--	--	--
JAN									
05...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB									
28...	--	--	--	--	--	--	--	--	--
MAR									
29...	--	--	--	--	--	--	--	--	--
APR									
*25...	2.6	.3	.70	22	1.0	.50	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUN									
01...	--	--	--	--	--	--	--	--	--
JUL									
30...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--
*18...	4.0	.4	1.7	31	2.1	.60	52	3.8	<10

* Data from Calif. Dept. of Water Resources.

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", in SW¼NW¼ sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi downstream from Clear Creek, 3 mi upstream from Lloyd Bridge on road to Mexico Dam, and 5 mi southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi^2.

PERIOD OF RECORD.--May 1939 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft, National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Date for Gaging Stations."

AVERAGE DISCHARGE.--45 years, 423 ft^3/s, 306,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s Dec. 24, 1955, gage height, 16.0 ft, present datum, from floodmarks, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurements at gage heights 9.40 ft and 16.0 ft, computation of flow over dam at gage height, 12.40 ft, and float measurement at gage height 10.60 ft, all at present datum; minimum daily, 1.6 ft^3/s Aug. 29, 30, Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 13	1000	2,810	5.91	May 24	1500	2,620	5.61
Nov. 25	1300	*3,500	6.53	May 31	1400	2,380	5.38
Dec. 27	1200	2,100	5.22	June 5	1200	1,880	4.90
May 14	1700	3,190	6.05				

Minimum daily discharge, 28 ft^3/s, Sept. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	617	429	820	1150	476	450	691	621	2030	572	98	48
2	580	515	770	1030	471	471	641	621	1660	541	96	50
3	532	429	776	937	461	471	576	653	1450	526	85	63
4	476	401	981	838	455	465	574	1040	1350	497	58	65
5	476	380	833	840	455	456	585	1090	1650	470	69	55
6	454	359	746	800	450	452	542	972	1480	502	84	45
7	440	330	718	776	440	457	522	910	1360	494	99	42
8	431	412	711	758	442	472	591	1020	1120	491	104	33
9	421	349	733	733	445	495	646	1330	988	450	82	28
10	400	335	840	704	456	532	591	1570	939	336	72	30
11	391	704	807	690	442	543	628	1820	900	253	71	48
12	381	1190	838	650	448	528	568	2350	884	209	69	51
13	368	902	788	630	478	496	562	2480	860	159	73	42
14	350	794	831	617	579	762	685	2890	915	119	75	42
15	343	677	888	586	553	663	840	2740	1250	137	62	49
16	351	598	820	586	831	607	1060	2090	1300	157	73	53
17	363	1270	820	580	650	567	1230	1680	1200	162	66	56
18	353	2530	788	544	560	560	1170	1570	1200	173	56	58
19	344	1410	718	598	530	535	994	1670	1160	190	78	65
20	340	1700	677	549	517	531	863	1940	1030	192	96	71
21	328	1700	624	520	517	590	725	2270	908	175	93	72
22	319	1210	573	538	502	613	678	2190	869	149	80	74
23	310	981	561	526	474	594	712	2170	823	173	82	92
24	312	1410	598	515	483	626	788	2360	851	211	57	107
25	340	3190	981	520	461	682	825	2270	857	219	47	108
26	317	2040	1870	509	449	719	788	2050	770	192	48	114
27	305	1310	2040	487	444	905	712	1870	703	156	48	115
28	280	1060	1590	471	458	843	685	1840	667	139	45	121
29	265	930	1250	476	454	821	628	1910	649	119	46	126
30	258	867	1170	471	---	785	615	2110	620	107	64	125
31	306	---	1230	476	---	725	---	2190	---	105	50	---
TOTAL	11751	30412	28540	20155	14381	18421	21715	54287	32443	8375	2226	2048
MEAN	379	1014	921	650	496	594	724	1751	1081	270	71.8	68.3
MAX	617	3190	2040	1150	831	905	1230	2890	2030	572	104	126
MIN	258	330	561	471	440	450	522	621	620	105	45	28
AC-FT	23310	60320	56610	39980	28520	36540	43070	107700	64350	16610	4420	4060

CAL YR 1983	TOTAL	434020	MEAN	1189	MAX	6770	MIN	157	AC-FT 860900
WTR YR 1984	TOTAL	244754	MEAN	669	MAX	3190	MIN	28	AC-FT 485500

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NE¼NE¼ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 2 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA.--4.06 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft, from topographic map.

REMARKS.--Records good. Diversion for municipal use above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--8 years (1977-84), 2.10 ft^3/s, 1,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48 ft^3/s Feb. 15, 1982, gage height, 4.95 ft; maximum gage height, 4.98 ft Dec. 20, 1978 (backwater from ice); minimum daily, 0.16 ft^3/s June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft^3/s Nov. 17, gage height, 4.64 ft; minimum daily, 2.1 ft^3/s May 15, 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.2	5.4	4.9	4.2	3.6	3.4	2.7	4.2	3.6	3.4	3.2
2	5.0	5.2	5.4	4.7	4.0	3.6	3.4	2.6	3.6	3.4	3.2	3.4
3	6.0	5.2	5.4	4.7	3.8	3.6	3.4	2.4	3.2	3.2	3.2	3.4
4	6.0	5.2	5.2	4.7	4.0	3.4	3.4	2.6	3.6	3.2	3.4	3.6
5	6.0	4.9	4.9	4.5	4.0	3.4	3.4	2.4	4.2	3.2	3.4	3.6
6	6.5	4.7	4.9	4.5	3.8	3.4	3.4	2.4	4.2	3.1	3.2	3.4
7	6.5	4.9	4.9	4.2	3.8	3.4	3.4	2.4	4.2	3.1	3.4	3.1
8	6.2	4.7	4.9	4.2	3.8	3.4	3.6	2.4	4.0	3.1	3.4	3.1
9	6.2	4.9	5.2	4.2	3.8	3.4	3.4	2.4	3.8	3.4	3.6	3.1
10	6.0	4.9	5.2	4.5	3.8	3.4	3.4	2.4	3.8	3.7	4.0	2.9
11	6.0	5.7	5.4	4.5	3.8	3.4	3.2	2.4	3.8	3.8	3.6	2.9
12	6.2	5.7	4.9	4.2	3.8	3.4	3.2	2.2	3.8	3.7	3.4	2.7
13	6.2	4.9	5.4	4.2	4.7	4.0	3.1	2.2	3.8	3.7	3.4	2.7
14	6.0	5.2	5.2	4.2	4.2	4.2	3.1	2.2	3.8	3.7	3.6	2.9
15	6.0	5.2	4.9	4.0	4.9	4.0	3.1	2.1	3.4	3.6	3.4	3.1
16	6.0	5.7	5.2	4.0	4.7	3.8	2.9	2.1	3.6	3.6	3.6	2.7
17	5.7	8.7	5.2	4.0	4.2	3.8	2.9	2.2	3.6	3.6	3.4	2.9
18	5.4	5.7	4.7	4.0	4.2	3.6	2.9	2.2	3.4	3.7	3.2	3.1
19	5.7	6.0	4.7	4.2	4.2	3.6	2.9	2.2	3.4	3.6	3.4	3.2
20	5.7	5.7	4.2	4.0	3.8	3.6	2.7	2.2	3.4	3.5	3.4	3.2
21	5.7	5.2	4.2	4.2	3.8	3.7	2.9	2.2	3.4	3.5	3.4	3.2
22	5.7	4.9	4.5	4.5	3.8	3.6	3.1	2.2	3.4	3.5	3.6	3.1
23	5.4	5.2	4.5	4.7	3.6	3.6	2.9	2.4	3.4	3.6	3.8	3.2
24	5.4	6.8	4.7	4.7	3.6	3.6	2.7	2.7	3.6	3.7	3.6	3.2
25	5.2	5.7	5.2	4.7	3.6	3.6	2.7	2.7	3.4	3.6	3.6	3.4
26	5.2	5.4	6.5	4.5	3.6	3.6	2.7	2.7	3.6	3.5	3.6	3.2
27	5.2	5.2	6.8	4.5	3.6	3.6	2.7	3.1	3.6	3.5	3.6	3.2
28	5.2	5.2	5.2	4.2	3.6	3.6	2.6	3.1	3.6	3.5	3.4	2.9
29	5.2	5.2	4.9	4.2	3.6	3.4	2.7	3.6	3.8	3.4	3.4	3.2
30	5.2	5.2	6.0	4.2	---	3.4	2.7	3.6	3.6	3.4	3.4	3.1
31	5.7	---	5.4	4.2	---	3.4	---	3.6	---	3.4	3.2	---
TOTAL	176.4	162.3	159.1	135.0	114.3	111.1	91.9	78.6	110.2	108.1	107.2	93.9
MEAN	5.69	5.41	5.13	4.35	3.94	3.58	3.06	2.54	3.67	3.49	3.46	3.13
MAX	6.5	8.7	6.8	4.9	4.9	4.2	3.6	3.6	4.2	3.8	4.0	3.6
MIN	4.0	4.7	4.2	4.0	3.6	3.4	2.6	2.1	3.2	3.1	3.2	2.7
AC-FT	350	322	316	268	227	220	182	156	219	214	213	186

CAL YR 1983	TOTAL	1929.1	MEAN	5.29	MAX	12	MIN	1.8	AC-FT	3830
WTR YR 1984	TOTAL	1448.1	MEAN	3.96	MAX	8.7	MIN	2.1	AC-FT	2870

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'16", in NW¼SW¼ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft, from topographic map.

REMARKS.--Records good. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--8 years (1977-84), 3.92 ft^3/s, 2,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft^3/s Jan. 13, 1980, gage height, 3.85 ft; minimum daily, 0.80 ft^3/s Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s Nov. 24, gage height, 2.94 ft; minimum daily, 3.5 ft^3/s Sept. 11, 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.8	6.8	7.4	5.0	4.9	5.5	6.5	13	7.7	5.2	3.9
2	7.3	6.2	6.7	7.1	5.0	4.9	5.3	6.6	12	7.5	5.1	3.8
3	6.6	6.0	6.7	6.9	4.9	4.9	5.4	7.8	12	7.3	5.1	3.8
4	6.3	5.8	6.4	6.7	4.9	4.9	5.4	7.8	12	7.0	4.9	3.8
5	6.0	5.8	6.2	6.5	4.9	4.8	5.5	7.7	11	7.2	4.8	3.7
6	6.0	5.8	6.2	6.4	4.9	4.8	5.4	7.8	12	7.2	4.7	3.7
7	6.0	6.0	6.1	6.3	4.9	4.9	5.6	8.0	10	7.0	4.7	3.7
8	6.0	5.6	6.2	6.3	4.9	5.0	5.8	8.7	10	6.9	4.6	3.6
9	6.0	5.6	6.4	6.1	4.9	5.2	5.4	9.2	9.9	6.8	4.5	3.6
10	5.9	6.0	6.4	6.0	4.9	5.2	5.5	9.6	9.8	6.7	4.5	3.6
11	5.9	10	6.8	6.0	4.9	5.2	5.4	12	9.4	6.7	4.5	3.5
12	5.8	7.4	6.3	6.0	4.9	5.2	5.4	12	9.3	6.5	4.4	3.5
13	5.9	6.8	6.3	5.9	5.3	6.3	5.6	13	9.0	6.5	4.5	3.6
14	6.1	6.6	6.7	5.7	5.0	6.3	6.2	13	10	6.5	4.4	3.6
15	5.9	6.5	6.9	5.6	5.4	5.7	6.8	12	10	6.4	4.5	3.6
16	5.9	7.7	6.8	5.6	5.5	5.4	7.1	11	9.1	6.3	4.3	3.6
17	5.8	14	6.8	5.5	5.0	5.3	7.0	12	8.8	6.5	4.2	3.6
18	5.8	8.2	6.5	5.4	5.0	5.3	6.7	12	8.8	6.5	4.1	3.6
19	5.8	10	6.3	5.4	5.0	5.2	6.3	12	8.8	6.3	4.1	3.9
20	5.7	9.6	6.2	5.4	5.0	5.5	6.2	14	8.8	6.0	4.1	3.9
21	5.6	7.8	6.2	5.4	5.0	5.7	6.0	14	8.7	6.0	4.4	3.9
22	5.6	7.2	6.2	5.3	4.9	5.6	6.3	15	8.5	5.8	4.4	3.8
23	6.1	7.1	6.0	5.2	4.9	5.6	6.8	16	8.7	6.3	4.1	3.8
24	6.0	13	6.8	5.2	4.9	5.6	6.9	16	8.4	6.5	4.1	3.8
25	5.8	9.7	7.6	5.2	4.8	5.7	6.5	15	8.3	5.8	4.1	3.9
26	5.7	8.1	8.3	5.2	4.8	6.3	6.3	15	8.1	5.5	4.1	3.9
27	5.6	7.3	8.8	5.0	4.8	6.1	6.3	14	8.0	5.4	4.0	3.8
28	5.6	7.0	7.6	5.0	4.8	5.9	6.1	14	7.9	5.3	4.1	3.8
29	5.5	6.8	7.3	5.0	4.8	5.8	6.3	14	7.8	5.1	4.6	3.8
30	6.2	6.7	8.5	5.0	---	5.6	6.5	15	7.7	5.1	4.0	4.0
31	7.2	---	8.0	5.0	---	5.6	---	14	---	5.2	3.9	---
TOTAL	187.0	227.1	211.0	178.7	143.9	168.4	181.5	364.7	285.8	197.5	137.0	112.1
MEAN	6.03	7.57	6.81	5.76	4.96	5.43	6.05	11.8	9.53	6.37	4.42	3.74
MAX	7.4	14	8.8	7.4	5.5	6.3	7.1	16	13	7.7	5.2	4.0
MIN	5.5	5.6	6.0	5.0	4.8	4.8	5.3	6.5	7.7	5.1	3.9	3.5
AC-FT	371	450	419	354	285	334	360	723	567	392	272	222

CAL YR 1983	TOTAL	3043.3	MEAN	8.34	MAX	25	MIN	3.5	AC-FT	6040
WTR YR 1984	TOTAL	2394.7	MEAN	6.54	MAX	16	MIN	3.5	AC-FT	4750

CARSON RIVER BASIN

10311250 VICEE CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°11'12", long 119°48'53", in SE¼SW¼, Sec.2, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050202, on right bank, 2.1 miles west of intersection of W. Ormsby Blvd. and Combs Canyon Road.

DRAINAGE AREA.--1.30 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,440 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.6 ft^3/s Nov. 17, 1983, gage height 5.75 ft; minimum daily, 0.13 ft^3/s Sept. 6-15, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.6 ft^3/s, Nov. 17, gage height 5.75 ft, minimum daily, 0.14 ft^3/s July 29 to Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					.25	.65	.55	.65	3.6	.62	.22	.16
2					.25	.76	.53	.62	3.0	.62	.21	.16
3					.25	.68	.50	.62	2.6	.55	.20	.15
4					.24	.65	.47	.68	2.7	.53	.18	.14
5					.24	.59	.47	.65	2.5	.50	.18	.14
6					.24	.59	.42	.65	2.5	.50	.18	.13
7					.27	.59	.42	.65	2.4	.50	.18	.13
8					.30	.59	.42	.65	2.3	.47	.18	.13
9					.28	.59	.42	.65	2.2	.47	.18	.13
10					.30	.62	.42	.65	1.9	.47	.24	.13
11					.30	.62	.42	.65	1.9	.42	.24	.13
12					.38	.62	.43	.62	1.5	.42	.22	.13
13					.50	2.9	.42	.62	1.5	.40	.20	.13
14					.68	2.3	.42	.68	1.5	.38	.24	.13
15					.68	1.6	.42	.72	1.4	.38	.25	.13
16					.65	1.3	.42	.76	1.4	.38	.24	.14
17					.47	1.1	.42	.76	1.4	.36	.22	.14
18					.53	.92	.42	.72	1.3	.34	.20	.14
19					.55	.76	.47	.80	1.2	.34	.24	.14
20					.53	.68	.50	.92	1.2	.32	.24	.14
21					.53	.68	.50	1.2	1.1	.28	.24	.14
22					.53	.65	.50	1.5	1.0	.27	.24	.14
23					.53	.62	.53	1.8	.92	.27	.24	.15
24					.53	.55	.59	1.8	.92	.27	.22	.15
25					.50	.55	.55	2.2	.84	.25	.21	.15
26					.55	.50	.59	4.0	.80	.25	.17	.15
27					.53	.42	.55	4.1	.76	.24	.17	.15
28					.47	.50	.59	4.5	.76	.24	.16	.15
29					---	.55	.65	5.0	.68	.22	.15	.15
30					---	.65	.65	4.6	.65	.22	.15	.16
31					---	.80	---	4.0	---	.22	.15	---
TOTAL					12.06	25.58	14.66	48.42	48.43	11.70	6.34	4.24
MEAN					.43	.83	.49	1.56	1.61	.38	.20	.14
MAX					.68	2.9	.65	5.0	3.6	.62	.25	.16
MIN					.24	.42	.42	.62	.65	.22	.15	.13
AC-FT					24	51	29	96	96	23	13	8.4

10311250 VICEE CANYON CREEK NEAR CARSON CITY, NV--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.23	.46	.50	.46	.42	.54	.54	.54	.33	.14	.21
2	.23	.23	.46	.50	.42	.42	.54	.54	.54	.33	.16	.21
3	.23	.23	.46	.50	.42	.42	.54	.58	.54	.33	.16	.21
4	.23	.23	.39	.50	.42	.42	.54	.58	.54	.28	.16	.21
5	.23	.23	.36	.50	.42	.42	.54	.63	.54	.28	.16	.21
6	.23	.25	.39	.50	.42	.42	.54	.63	.54	.28	.17	.21
7	.23	.28	.39	.50	.42	.42	.54	.63	.54	.28	.17	.21
8	.23	.28	.39	.50	.42	.42	.54	.67	.54	.28	.17	.21
9	.23	.28	.46	.50	.42	.42	.50	.78	.50	.25	.17	.19
10	.23	.33	.58	.50	.42	.42	.46	.83	.50	.25	.17	.19
11	.23	.63	.54	.50	.39	.39	.46	.89	.50	.28	.17	.19
12	.23	.54	.58	.50	.39	.39	.46	.96	.50	.30	.17	.19
13	.23	.39	.54	.50	.42	.50	.46	1.0	.50	.30	.17	.19
14	.23	.33	.54	.50	.85	.63	.46	1.1	.63	.28	.17	.19
15	.23	.33	.58	.50	1.1	.54	.54	1.1	.78	.28	.19	.19
16	.23	.63	.67	.50	.54	.54	.58	1.0	.46	.28	.19	.19
17	.23	2.1	.89	.50	.46	.50	.63	.83	.46	.28	.19	.19
18	.23	.96	.72	.50	.42	.46	.63	.83	.42	.28	.19	.19
19	.23	.72	.67	.50	.42	.50	.63	.83	.42	.21	.21	.19
20	.23	.54	.67	.50	.42	.50	.54	.83	.42	.19	.79	.19
21	.23	.67	.58	.50	.42	.50	.54	.83	.42	.19	.76	.19
22	.23	.54	.58	.50	.42	.50	.54	.83	.42	.19	.25	.19
23	.23	.42	.58	.50	.42	.50	.54	1.3	.42	.19	.25	.19
24	.23	2.0	.58	.46	.42	.54	.54	.83	.42	.19	.25	.19
25	.23	2.0	.78	.46	.42	.54	.54	.78	.42	.17	.25	.19
26	.23	2.2	1.8	.46	.42	.54	.54	.72	.42	.17	.25	.19
27	.23	.58	1.0	.46	.42	.54	.54	.67	.42	.17	.25	.19
28	.23	.50	1.1	.46	.42	.54	.54	.63	.42	.16	.21	.21
29	.23	.46	.85	.46	.42	.54	.54	.58	.42	.14	.21	.21
30	.24	.46	.72	.46	---	.54	.54	.58	.36	.14	.21	.21
31	.35	---	.58	.46	---	.54	---	.54	---	.14	.21	---
TOTAL	7.26	19.57	19.89	15.18	13.43	14.97	16.07	24.07	14.55	7.42	7.17	5.92
MEAN	.23	.65	.64	.49	.46	.48	.54	.78	.48	.24	.23	.20
MAX	.35	2.2	1.8	.50	1.1	.63	.63	1.3	.78	.33	.79	.21
MIN	.23	.23	.36	.46	.39	.39	.46	.54	.36	.14	.14	.19
AC-FT	14	39	39	30	27	30	32	48	29	15	14	12

WTR YR 1984 TOTAL 165.50 MEAN .45 MAX 2.2 MIN .14 AC-FT 328

10311260 VICEE CANYON CREEK NEAR SAGEBRUSH RANCH NEAR CARSON CITY, NV

LOCATION.--Lat 39°11'02", long 119°48'53", in NW¼ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050202, on left bank 0.7 mi southwest of intersection of W. Ormsby Blvd. and Combs Canyon Road.

DRAINAGE AREA.--1.33 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1.7 ft^3/s Dec. 27, minimum daily, 0.01 ft^3/s Sept. 3, 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.31	1.3	.45	.28	.49	.74	.57	.24	.07	.02
2			.31	1.4	.45	.40	.49	.74	.59	.21	.10	.02
3			.31	1.0	.45	.40	.49	.74	.61	.20	.10	.01
4			.31	.84	.40	.40	.51	.82	.62	.18	.10	.01
5			.31	.74	.40	.40	.54	.74	.60	.19	.10	.02
6			.31	.67	.40	.40	.49	.61	.57	.17	.08	.04
7			.43	.67	.40	.40	.54	.82	.58	.15	.08	.05
8			.50	.61	.40	.40	.67	.90	.61	.15	.08	.07
9			.54	.63	.40	.40	.59	.90	.54	.15	.08	.07
10			.49	.53	.40	.40	.56	1.2	.58	.14	.08	.08
11			.61	.53	.40	.40	.54	1.2	.49	.14	.08	.09
12			.44	.53	.40	.40	.54	1.2	.43	.12	.08	.11
13			.49	.53	.60	.40	.49	1.5	.51	.13	.08	.08
14			.61	.53	.74	.50	.61	1.2	.60	.18	.08	.09
15			.61	.53	.67	.61	.61	1.2	.67	.13	.09	.10
16			.61	.53	.50	.52	.74	.98	.61	.08	.09	.11
17			.67	.53	.40	.52	.74	.90	.44	.15	.09	.11
18			.61	.53	.40	.52	.82	.82	.34	.20	.07	.12
19			.67	.53	.40	.52	.74	.68	.49	.14	.08	.12
20			.74	.52	.40	.52	.54	.74	.67	.12	1.0	.12
21			.72	.50	.40	.49	.61	.67	.61	.12	1.2	.15
22			.66	.50	.40	.49	.61	.61	.26	.08	.08	.23
23			.56	.50	.40	.49	.74	.61	.38	.08	.09	.23
24			.80	.50	.40	.49	.61	.44	.30	.08	.12	.23
25			.83	.47	.40	.54	.61	.44	.34	.08	.10	.21
26			1.4	.45	.40	.54	.61	.54	.26	.08	.10	.16
27			1.7	.45	.40	.49	.61	.38	.26	.08	.06	.14
28			1.2	.45	.10	.49	.54	.37	.20	.08	.04	.12
29			1.1	.45	.40	.54	.67	.50	.26	.08	.03	.11
30			1.5	.45	---	.61	.67	.59	.26	.08	.02	.13
31			1.3	.45	---	.54	---	.56	---	.08	.02	---
TOTAL			21.65	18.85	12.36	14.50	18.02	24.34	14.25	4.09	4.47	3.15
MEAN			.70	.61	.43	.47	.60	.79	.47	.13	.14	.10
MAX			1.7	1.4	.74	.61	.82	1.5	.67	.24	1.2	.23
MIN			.31	.45	.10	.28	.49	.37	.20	.08	.02	.01
AC-FT			43	37	25	29	36	48	28	8.1	8.9	6.2

10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'52", long 119°41'40", in SW¼NW¼ sec.12, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, on right bank just downstream from Deer Run Road, 500 ft south of Brunswick Road, and 4 mi east of Carson City.

DRAINAGE AREA.--958 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft, from topographic map.

REMARKS.--Records good. No gage-height record July 9 to August 21. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--5 years (1980-84), 697 ft^3/s, 505,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft^3/s Jan. 15, 1980, gage height 13.50 ft, minimum daily, 1.0 ft^3/s Sept. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 18	1100	3,530	9.93	May 14	1800	3,270	9.62
Nov. 25	1200	*4,050	10.46	June 5	1300	2,030	8.07
Dec. 26	0900	2,580	8.82				

Minimum daily discharge, 32 ft^3/s, Sept. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571	397	844	1170	458	419	662	607	2130	573	90	53
2	544	510	803	1020	451	439	620	595	1710	540	84	55
3	503	427	832	932	438	440	560	633	1520	522	60	66
4	448	397	1060	879	421	433	549	972	1420	497	66	66
5	437	373	881	837	424	427	567	1060	1320	470	84	52
6	420	355	777	801	427	417	533	951	1580	439	97	42
7	404	333	758	774	421	426	508	883	1440	490	104	42
8	395	388	738	756	424	437	549	973	1160	478	86	39
9	386	361	766	726	423	456	635	1310	1040	444	76	32
10	366	340	901	700	436	490	568	1580	975	343	72	35
11	355	645	873	683	418	503	615	1870	936	232	70	53
12	349	1330	956	654	418	495	555	2430	911	190	72	52
13	339	963	829	634	462	473	536	2640	885	155	75	42
14	324	846	925	626	551	696	648	2970	959	115	64	45
15	315	697	944	594	531	637	796	2820	1330	125	71	51
16	325	630	862	606	787	581	1000	2110	1390	145	64	57
17	334	1360	864	586	643	541	1200	1690	1250	155	58	63
18	327	3100	833	530	540	533	1160	1600	1250	165	76	65
19	316	1610	747	552	507	512	976	1720	1200	175	95	74
20	320	1900	700	548	494	506	842	2010	1070	180	93	77
21	305	1910	642	533	491	545	732	2400	927	160	163	72
22	298	1300	590	552	482	586	673	2310	894	145	78	76
23	291	1020	582	541	447	561	696	2290	831	170	79	97
24	292	1520	616	530	455	584	747	2530	857	200	56	104
25	318	3620	1070	522	438	637	800	2350	863	205	47	104
26	304	2030	2350	508	424	667	774	2100	782	170	50	113
27	291	1290	2370	475	413	846	707	1930	712	145	47	112
28	273	1070	1670	465	427	812	678	1920	665	125	43	124
29	260	949	1250	465	425	785	623	2010	645	112	47	125
30	254	891	1190	462	---	762	601	2250	624	100	67	121
31	298	---	1380	458	---	691	---	2330	---	98	51	---
TOTAL	10962	32567	30603	20119	13676	17337	21110	55844	33776	8113	2285	2109
MEAN	354	1086	987	649	472	559	704	1801	1126	262	73.7	70.3
MAX	571	3620	2370	1170	787	846	1200	2970	2130	573	163	125
MIN	254	333	582	458	413	417	508	595	624	98	43	32
AC-FT	21740	64600	60700	39910	27130	34390	41870	110800	66990	16090	4530	4180

CAL YR 1983 TOTAL 448834 MEAN 1230 MAX 6770 MIN 145 AC-FT 890300
WTR YR 1984 TOTAL 248501 MEAN 679 MAX 3620 MIN 32 AC-FT 492900

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV
(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, Hydrologic Unit 16050202, on right bank 400 ft downstream from Buckland ditch, 2 mi west of Fort Churchill, and 4.5 mi upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,203 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1917; WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,214.70 ft, National Geodetic Vertical Datum of 1929. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft higher (levels by Truckee-Carson Irrigation District).

REMARKS.--Records good. Many diversions for irrigation above station, including diversions for 720 acres between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft upstream for irrigation below station.

AVERAGE DISCHARGE.--73 years, 379 ft^3/s, 274,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft^3/s Feb. 2, 1963, gage height, 10.83 ft; maximum gage height, about 11 ft in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 18	1800	3,260	4.71	May 25	0200	2,530	4.15
Nov. 26	0100	*3,870	5.02	May 31	2300	2,270	3.98
Dec. 27	1700	2,440	4.10	June 5	2300	1,830	3.64
May 15	0400	2,890	4.38				

Minimum daily discharge, 14 ft^3/s, Aug. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	516	323	934	1320	488	449	688	604	2110	506	51	24
2	550	443	893	1150	481	454	660	596	1840	462	40	24
3	525	460	863	1050	463	469	616	605	1510	435	33	24
4	481	404	1030	984	448	469	566	694	1410	427	29	23
5	445	385	1010	945	439	464	593	997	1520	404	24	25
6	434	371	872	910	451	455	580	971	1600	382	25	27
7	421	352	841	877	443	461	536	862	1480	421	30	24
8	413	346	806	853	435	463	529	852	1250	394	29	22
9	399	402	814	836	444	475	606	1010	1070	401	24	21
10	386	359	871	799	447	499	591	1320	976	351	22	19
11	361	381	936	783	447	530	590	1540	941	280	21	40
12	358	1040	997	751	433	536	593	1950	865	237	21	48
13	354	958	920	722	459	525	534	2270	870	197	22	41
14	348	888	920	711	512	550	567	2490	867	157	23	40
15	335	720	988	692	552	739	672	2770	1050	128	18	45
16	337	667	960	669	637	632	791	2300	1330	118	21	49
17	342	777	904	676	773	589	1000	1740	1220	120	18	51
18	351	2650	928	610	601	570	1130	1540	1160	118	14	54
19	337	2050	843	591	544	564	983	1550	1120	139	24	54
20	325	1530	797	628	528	545	876	1700	1040	139	28	56
21	308	2030	749	586	516	542	765	2050	880	133	27	54
22	296	1480	688	605	527	594	688	2210	825	129	24	54
23	288	1130	668	590	482	594	682	2070	764	115	25	54
24	293	1250	673	580	482	593	684	2190	742	170	24	54
25	303	2970	780	569	481	637	776	2340	762	182	25	54
26	313	2800	1850	562	458	669	790	2080	726	179	25	61
27	296	1540	2370	536	447	722	748	1920	641	149	24	65
28	291	1210	2020	508	453	840	703	1790	588	120	25	64
29	278	1060	1420	511	461	770	651	1840	546	105	25	77
30	270	976	1260	499	---	774	607	1990	545	90	26	92
31	267	---	1370	498	---	717	---	2170	---	67	24	---
TOTAL	11221	32002	31975	22601	14332	17890	20795	51011	32248	7260	791	1340
MEAN	362	1067	1031	729	494	577	693	1646	1075	234	25.5	44.7
MAX	550	2970	2370	1320	773	840	1130	2770	2110	506	51	92
MIN	267	323	668	498	433	449	529	596	545	67	14	19
AC-FT	22260	63480	63420	44830	28430	35480	41250	101200	63960	14400	1570	2660

CAL YR 1983 TOTAL 428483 MEAN 1174 MAX 6260 MIN 135 AC-FT 849900
WTR YR 1984 TOTAL 243466 MEAN 665 MAX 2970 MIN 14 AC-FT 482900

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to current year (published as Carson River near Silver Springs, sta. no. 10312020, October 1962 to September 1970).
CHEMICAL ANALYSES: October 1962 to April 1967, once daily (composited); May 1967 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
SPECIFIC CONDUCTANCES: October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily; October 1982 to current year, four times per year.
BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily; October 1982 to current year, four times per year.
SEDIMENT DATA: January to June 1974, occasional; January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

REMARKS.--Monthly water-quality data are collected from river at gage, or from Buckland Ditch, which leaves river 400 ft upstream from gage, depending on discharge. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Discharge data do not include ditch flow.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 840 micromhos Sept. 13, 1973; minimum, 81 micromhos July 3, 1967.
PHYTOPLANKTON: Maximum, 41,000 cells/mL Aug. 31, 1977; minimum, less than 1 cell/mL May 17, 1979.
FECAL STREPTOCOCCI: Maximum, 36,000 colonies/100 mL (non-ideal colony count) Jan. 12, 1979; minimum, 4 colonies/100 mL (non-ideal colony count) Jan. 2, 1975.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 7, 1972; minimum, freezing point on many days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,950 mg/L Jan. 12, 1979; minimum, 4 mg/L Jan. 2, 1975, Dec. 1, 1976.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
08...	1145	334	265	8.2	7.5	1.5	10.2	99	K20	87	91
MAR											
19...	1230	566	240	7.6	9.0	14	10.4	104	K6	100	81
MAY											
29...	1145	1770	90	7.8	16.0	27	8.3	98	--	730	35
AUG											
28...	1145	E25	570	8.0	19.0	4.0	8.2	103	K20	K34	190

E: ESTIMATED.
K: NON-IDEAL COLONY COUNT.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV 08...	26	6.2	21	1	3.1	88	40	7.3	.30	22	173
MAR 19...	23	5.7	19	1	2.3	85	33	7.4	.20	22	170
MAY 29...	9.5	2.6	6.1	.5	1.7	38	9.6	1.8	<.10	16	--
AUG 28...	56	12	53	2	5.5	159	130	16	.50	30	396

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV 08...	180	156	.270	.090	.70	.170	.140	.110	10	5	48
MAR 19...	160	260	.300	<.010	.40	.140	.090	.080	20	5	43
MAY 29...	70	336	<.100	.040	.60	.200	.080	--	40	2	26
AUG 28...	400	--	<.100	.020	.20	.170	.130	.140	20	6	99

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV 08...	<.5	<1	<1	<3	1	81	<1	27	11	.2
MAR 19...	<.5	<1	<1	<3	2	18	3	19	7	<.1
MAY 29...	<1	<1	<1	<3	1	51	3	10	<1	<.1
AUG 28...	<1	<1	<1	<3	4	--	2	34	24	<.1

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	<10	<1	<1	<1	290	<6	25	14	13	--
MAR 19...	<10	1	<1	<1	270	<6	15	34	52	--
MAY 29...	<10	7	<1	<1	120	<6	7	145	693	74
AUG 28...	<10	1	<1	<1	630	<6	8	12	--	--

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW¼SE¼ sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi west of Fallon.

DRAINAGE AREA.--1,950 mi^2 (not including 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.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to 1966 at datum 3.73 ft lower (Bureau of Reclamation datum).

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 between altitudes, 4,060.0 ft, invert of outlet conduit, and 4,162.0 ft, spillway crest; includes 91 acre-ft of dead storage below altitude 4,070.0 ft. Surface area at spillway altitude, 12,120 acres. Water is used for irrigation of 87,500 acres 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 altitudes furnished by Truckee-Carson Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-inch flashboard on weir), 328,600 acre-ft June 16, 1942, altitude, 4,164.43 ft; minimum observed, 91 acre-ft Sept. 7-9, 1929, altitude, 4,070.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 265,600 acre-ft June 26, 27, altitude, 4,159.34 ft; minimum observed, 127,500 acre-ft Sept. 30, altitude, 4,139.94 ft.

Capacity table (altitude, in feet, contents, in acre-feet)

4,139	122,700	4,147	167,500
4,140	127,800	4,150	187,200
4,142	138,400	4,155	225,600
4,145	155,400	4,160	272,500

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199200	171900	230400	241700	221000	203400	219100	218800	244300	262800	220200	165300
2	198400	171000	232100	242000	219900	203400	219700	218400	248400	261800	218700	163700
3	197900	170500	232800	242300	218900	203400	219900	218100	250000	261100	217200	162100
4	197300	170500	233500	242600	217500	203500	220300	217800	251200	259800	216200	160100
5	196700	170700	234200	242700	215900	203600	220700	217500	252500	258500	213700	158400
6	196100	171000	235300	242500	214400	203700	221000	217000	253000	257400	212300	156700
7	195600	171400	236200	242500	212900	203800	221200	216900	254400	255300	210500	155100
8	195300	172000	236900	242400	211500	204000	221600	216700	255100	252500	208800	153800
9	194600	172500	237700	242300	210300	204400	221900	216900	256100	252800	207000	152500
10	194000	173100	238400	241900	209300	204900	222200	216800	257200	251400	205100	151100
11	193300	173600	238900	241600	208500	205300	222500	216900	257900	250000	203500	149900
12	192700	174600	239200	240700	207700	205900	222700	217000	258700	248200	201600	148800
13	192000	175300	239900	240200	206800	206500	222700	217500	259700	246400	199500	147500
14	191200	176400	240200	239500	206100	207400	222800	218500	259800	244600	197800	146500
15	190600	178300	240600	238600	205700	208100	222700	220300	260300	242800	196200	145200
16	189500	179100	240800	237700	205200	208900	222300	221700	261000	241300	194600	144000
17	188500	179700	241100	236900	204800	209900	222200	223200	261600	239700	193000	142700
18	187500	181900	241300	236000	204500	210700	222100	224700	262300	238000	191200	141500
19	196400	184100	241500	235200	204300	211400	221900	226400	262900	236300	189000	140300
20	185400	186400	241500	234400	204000	212300	221700	228300	263600	234600	187100	139200
21	184300	189000	241400	233500	204000	213200	221700	229600	264200	233400	185300	138000
22	183300	192000	241300	232300	203900	215200	221700	230800	264700	231700	183500	136800
23	182200	185400	241200	230900	203800	215700	221600	232500	265000	230600	181800	135600
24	181000	198500	240700	229900	203800	216500	221200	234200	265200	229300	180100	134400
25	179900	201600	240300	228900	203700	216900	220800	235800	265400	228200	178300	133300
26	178900	204900	239800	227800	203600	217200	220300	237700	265600	227100	176300	132100
27	177600	221100	239600	226800	203400	217400	219800	239600	265600	225900	174400	130900
28	176400	223800	239700	225600	203400	217500	219500	241400	264800	224900	172000	129800
29	175300	226300	240000	224400	203400	218100	219300	242600	264400	223900	171600	128600
30	174100	228900	240200	223200	---	218500	219200	244000	263800	222700	169000	127500
31	172900	---	241300	222100	---	218700	---	245400	---	221600	167200	---
MAX	199200	228900	241500	242700	221000	218700	222800	245400	265600	262800	220200	165300
MIN	172900	170500	230400	222100	203400	203400	219100	216700	244300	221600	167200	127500
†	4147.87	4155.39	4156.79	4154.58	4152.23	4154.18	4154.23	4157.24	4159.16	4154.52	4146.96	4139.94
‡	-27000	+56000	+12400	-19200	-18700	+15300	+500	+26200	+18400	-42200	-54400	-39700

CAL YR 1983 MAX 307500 MIN 168500 ‡ +39900
WTR YR 1984 MAX 265600 MIN 127500 ‡ -72400

† Altitude, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 1.1 mi downstream from Lahontan Dam, and 15 mi west of Fallon.

DRAINAGE AREA.--1,801 mi^2 (not including inflow from Truckee Canal).

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

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,040 ft, from topographic map.

REMARKS.--Records fair. Flow regulated by Lahontan Reservoir, capacity 295,100 acre-ft, and other upstream regulations. One diversion, approximately 2,500 acre-ft per year, between gage and Lahontan Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--18 years, 568 ft^3/s, 411,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft^3/s June 28, 1983, gage height, 8.05 ft; minimum daily, 1.6 ft^3/s Oct. 25 to Nov. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,250 ft^3/s Jan. 18, gage height, 4.75 ft; minimum daily 3.0 ft^3/s Mar. 10-12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	875	490	6.9	1210	1230	337	435	786	1040	1160	935	913
2	820	20	332	1210	1220	333	436	784	1050	1160	941	875
3	820	20	548	1200	1220	333	381	781	1050	1150	952	874
4	721	20	544	1200	1220	330	367	780	987	1150	950	874
5	721	20	544	1200	1220	329	366	777	940	1140	948	884
6	721	19	544	1230	1220	89	367	774	895	1150	955	876
7	718	19	544	1250	1220	4.5	367	785	871	1140	952	865
8	718	19	599	1250	791	4.0	367	795	869	1140	950	851
9	718	19	638	1250	489	4.0	367	800	874	1140	950	766
10	714	18	634	1250	487	3.0	426	897	877	1140	950	662
11	714	16	638	1240	485	3.0	473	963	875	1130	944	659
12	714	13	786	1230	485	3.0	519	997	879	1060	942	655
13	794	14	888	1230	486	55	585	1000	836	1010	940	658
14	840	12	888	1230	485	66	794	1000	806	1010	942	654
15	840	11	958	1240	483	70	832	1010	806	1010	940	649
16	840	9.0	999	1230	484	110	830	1010	812	973	952	643
17	840	8.3	995	1240	485	241	879	1010	809	947	959	637
18	840	12	995	1260	481	316	895	1020	814	938	942	632
19	840	9.7	1060	1250	481	319	896	1020	817	870	933	616
20	840	9.0	1100	1250	482	373	895	1020	898	834	932	608
21	840	11	1100	1250	483	362	892	1030	850	781	932	537
22	840	11	1100	1250	482	361	894	1040	912	762	941	514
23	840	8.3	1100	1240	482	361	895	1040	1050	687	947	517
24	840	6.9	1100	1240	483	407	907	1040	1050	630	958	513
25	836	6.9	1090	1230	485	428	911	1050	1050	631	966	501
26	836	3.4	1090	1240	483	426	913	1050	1050	678	969	495
27	836	4.5	1090	1240	396	435	836	1050	1090	799	971	491
28	836	5.7	1160	1240	339	435	775	1050	1160	847	969	491
29	836	5.1	1200	1230	337	434	781	1050	1200	845	971	456
30	836	5.7	1210	1230	---	431	786	1050	1190	892	968	435
31	836	---	1200	1230	---	434	---	1050	---	936	962	---
TOTAL	24860	846.5	26680.9	38270	19124	7836.5	20067	29509	28407	29740	29463	19801
MEAN	802	28.2	861	1235	659	253	669	952	947	959	950	660
MAX	875	490	1210	1260	1230	435	913	1050	1200	1160	971	913
MIN	714	3.4	6.9	1200	337	3.0	366	774	806	630	932	435
AC-FT	49310	1680	52920	75910	37930	15540	39800	58530	56350	58990	58440	39280

CAL YR 1983 TOTAL 390752.4 MEAN 1071 MAX 3160 MIN 3.4 AC-FT 775100
WTR YR 1984 TOTAL 274604.9 MEAN 750 MAX 1260 MIN 3.0 AC-FT 544700

10312280 CARSON RIVER BELOW FALLON, NV

LOCATION.--Lat 39°40'10", long 118°39'20", in SE¼SW¼ sec.19, T.21 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 15 mi 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, from topographic map.

REMARKS.--Records good. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahonton Reservoir, capacity 295,100 acre-ft. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--18 years, 79.2 ft^3/s, 57,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s June 30, 1983, gage height, 7.99 ft; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 874 ft^3/s Jan. 29, gage height, 6.15 ft; minimum daily, 0.79 ft^3/s, Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	386	6.9	770	871	370	16	32	3.0	16	36	20
2	290	346	6.8	774	870	359	13	19	2.9	14	37	19
3	305	177	97	775	870	335	11	22	4.1	16	41	17
4	314	102	296	775	870	287	8.9	13	2.4	17	38	16
5	321	61	288	775	870	267	12	11	3.3	17	36	13
6	323	51	333	778	870	258	12	9.9	4.0	18	35	13
7	340	47	346	778	870	191	18	11	3.4	20	37	13
8	360	42	357	778	872	128	14	5.9	4.1	24	37	12
9	371	40	389	781	764	58	11	4.7	5.8	22	37	15
10	386	38	427	801	604	50	14	5.8	2.9	24	33	20
11	390	36	442	822	561	45	11	7.2	2.9	22	32	8.0
12	378	35	442	835	543	42	7.7	4.1	3.6	23	35	8.4
13	383	33	456	840	532	40	9.6	4.1	7.3	28	36	7.9
14	419	30	496	840	521	39	15	4.7	12	24	35	8.1
15	449	28	515	840	510	35	17	5.6	7.1	24	32	5.8
16	472	26	538	845	507	33	15	7.4	6.0	22	34	5.2
17	473	23	592	845	500	31	8.3	4.3	20	23	36	4.6
18	471	19	618	845	512	31	8.3	4.1	9.0	23	36	3.7
19	464	18	642	850	525	48	8.6	2.6	18	26	35	4.2
20	415	19	676	854	524	51	10	2.0	14	26	37	3.3
21	379	19	695	865	532	52	9.0	24	8.7	32	33	4.9
22	377	12	707	867	546	27	9.1	31	10	33	32	2.9
23	379	12	720	862	558	20	9.0	9.0	8.9	32	29	3.3
24	387	12	736	860	568	22	8.7	4.3	7.9	31	30	4.8
25	373	11	739	860	553	23	7.5	3.6	9.9	31	30	1.6
26	399	9.2	741	861	539	34	8.6	3.3	11	33	28	.98
27	418	8.7	753	864	540	32	6.6	4.2	11	31	25	.94
28	396	8.2	734	870	475	29	6.3	2.8	11	30	25	1.1
29	385	7.6	705	871	396	30	5.5	2.5	11	33	24	.86
30	380	7.4	733	872	---	25	17	2.1	18	36	22	.79
31	376	---	763	870	---	16	---	4.2	---	33	20	---
TOTAL	11821	1664.1	15989.7	25723	18273	3008	327.7	271.4	243.2	784	1013	239.37
MEAN	381	55.5	516	830	630	97.0	10.9	8.75	8.11	25.3	32.7	7.98
MAX	473	386	763	872	872	370	18	32	20	36	41	20
MIN	248	7.4	6.8	770	396	16	5.5	2.0	2.4	14	20	.79
AC-FT	23450	3300	31720	51020	36240	5970	650	538	482	1560	2010	475

CAL YR 1983 TOTAL 168683.8 MEAN 462 MAX 1570 MIN 6.8 AC-FT 334600
WTR YR 1984 TOTAL 79357.47 MEAN 217 MAX 872 MIN .79 AC-FT 157400

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE¼SE¼ sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi upstream from Hot Springs Creek, 7 mi north of Cross Ranch, and 13 mi north of Deeth.

DRAINAGE AREA.--415 mi^2.

PERIOD OF RECORD.--October 1943 to September 1980, October 1981 to September 1982. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft, from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft higher.

REMARKS.--Records good, except those for winter months, which are fair. Several diversions for irrigation of 7,150 acres, Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--40 years (1943-80, 1982-84), 69.4 ft^3/s, 50,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft^3/s Feb. 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft^3/s on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Apr. 10	1900	227	3.34	May 15	0300	*2,110	8.39
Apr. 17	1800	861	6.49				

Minimum daily discharge, 17 ft^3/s, Sept. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	26	37	34	54	49	143	485	397	377	81	22
2	19	26	38	39	58	48	138	513	851	342	98	21
3	21	27	38	43	59	51	138	570	742	303	79	21
4	21	26	38	42	55	53	134	591	665	293	67	20
5	20	26	34	45	48	55	159	580	644	282	60	20
6	20	26	36	50	55	54	195	560	636	257	54	20
7	20	26	39	55	53	56	208	540	635	256	49	22
8	21	26	44	55	56	61	209	510	606	263	46	22
9	20	25	46	59	54	63	209	475	563	237	43	21
10	20	26	46	61	49	73	220	519	525	211	42	20
11	21	27	48	49	44	85	213	629	521	186	42	18
12	21	27	48	63	50	90	199	785	496	165	42	18
13	21	28	46	50	52	98	197	1020	453	143	41	18
14	21	28	47	48	54	113	250	1350	454	124	39	18
15	22	29	51	45	55	135	325	1840	448	112	40	18
16	22	29	50	43	56	135	424	1730	489	107	40	18
17	22	29	47	41	57	129	674	1320	516	98	39	18
18	22	29	43	38	58	114	623	1000	543	90	38	18
19	22	29	42	36	58	117	616	862	560	86	37	18
20	22	28	40	34	58	134	591	842	573	83	36	18
21	22	27	54	38	56	170	579	938	581	80	33	17
22	22	26	39	40	54	188	570	1070	584	77	32	18
23	23	27	37	42	53	190	630	976	540	75	31	20
24	22	28	41	44	52	192	552	976	487	73	29	20
25	23	29	40	45	52	182	546	1010	461	71	28	21
26	24	29	40	49	51	175	557	939	459	69	27	23
27	23	32	38	64	51	164	542	865	450	67	26	24
28	22	36	35	71	51	153	487	870	427	65	24	25
29	22	32	38	71	50	147	459	839	400	63	23	28
30	22	31	41	66	---	141	449	823	388	62	22	25
31	22	---	38	63	---	143	---	873	---	70	22	---
TOTAL	664	840	1299	1523	1553	3558	11241	26900	16644	4787	1310	610
MEAN	21.4	28.0	41.9	49.1	53.6	115	375	868	555	154	42.3	20.3
MAX	24	36	54	71	59	192	674	1840	897	377	98	28
MIN	19	25	34	34	44	48	134	475	388	62	22	17
AC-FT	1320	1670	2580	3020	3080	7060	22300	53360	33010	9500	2600	1210

CAL YR 1983	TOTAL	49270.1	MEAN	135	MAX	1010	MIN	3.3	AC-FT	97730
WTR YR 1984	TOTAL	70929	MEAN	194	MAX	1840	MIN	17	AC-FT	140700

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'30", long 115°28'30", in NE¼ sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, on left bank 600 ft upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermitt ditch, and 3 mi south of Lamoille.

DRAINAGE AREA.--25 mi^2, 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, 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 downstream at datum 4.28 ft lower.

REMARKS.--Records fair, except those for winter months and period of no gage-height record, which are poor. Records are now obtained upstream from McDermitt ditch and, therefore, include that flow which was previously combined with these figures to give total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--48 years (1915-22, 1943-84) 45.3 ft^3/s, 32,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 829 ft^3/s Sept. 26, 1982, gage height, 6.23 ft, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft^3/s Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 310 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	2000	338	4.74	June 26	unknown	unknown	unknown
May 31	1700	*676	5.70	July 31	2100	325	4.63

Minimum daily discharge, 8.6 ft^3/s Jan. 21, estimate.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	14	9.5	11	14	20	42	510	240	150	30
2	23	21	14	9.2	11	14	19	42	416	230	123	28
3	23	20	14	9.5	11	14	19	43	374	210	119	26
4	22	21	14	11	11	14	19	44	374	200	105	25
5	23	20	15	10	11	14	20	44	365	190	96	24
6	22	20	17	9.8	11	14	21	43	329	180	88	27
7	22	22	21	9.8	11	14	21	42	269	170	80	24
8	22	19	23	9.5	11	14	21	44	218	160	74	23
9	22	18	24	9.5	11	15	21	52	191	155	70	21
10	25	19	24	9.5	11	15	22	66	177	150	70	20
11	23	20	23	9.7	11	16	22	88	158	142	71	20
12	22	19	21	10	11	16	22	130	146	138	65	19
13	21	19	19	10	11	16	23	198	143	132	66	19
14	22	18	19	11	13	17	25	279	164	128	63	19
15	21	19	18	11	11	17	29	307	206	124	74	18
16	21	18	15	11	14	17	35	255	231	120	68	17
17	21	20	16	11	13	18	44	223	279	117	61	17
18	20	19	16	10	12	18	45	218	338	113	57	17
19	19	18	16	9.5	10	18	45	250	364	110	53	17
20	19	18	12	8.8	9.6	19	44	325	385	108	50	18
21	17	18	11	8.6	9.0	19	43	389	380	104	47	24
22	17	18	10	9.0	10	19	42	415	361	100	44	19
23	18	18	9.8	10	9.0	19	46	481	364	98	44	18
24	20	18	9.6	11	11	19	48	514	394	96	42	17
25	18	18	9.8	12	13	19	47	495	424	95	39	16
26	18	17	11	13	12	20	47	511	490	94	38	16
27	18	17	10	13	11	20	46	460	430	93	35	15
28	17	16	9.8	12	11	20	44	461	360	92	33	15
29	17	15	9.7	11	12	20	44	520	300	91	32	14
30	16	14	11	11	---	20	43	573	265	90	30	14
31	19	---	10	11	---	20	---	630	---	141	31	---
TOTAL	630	556	466.7	320.9	323.6	529	987	8184	9405	4211	2018	597
MEAN	20.3	18.5	15.1	10.4	11.2	17.1	32.9	264	314	136	65.1	19.9
MAX	25	22	24	13	14	20	48	630	510	240	150	30
MIN	16	14	9.6	8.6	9.0	14	19	42	143	90	30	14
AC-FT	1250	1100	926	637	642	1050	1960	16230	18650	8350	4000	1180

CAL YR 1983	TOTAL	24654.0	MEAN	67.5	MAX	693	MIN	7.4	AC-FT 48900
WTR YR 1984	TOTAL	28228.2	MEAN	77.1	MAX	630	MIN	8.6	AC-FT 55990

HUMBOLDT RIVER BASIN

10317420 MAHALA CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°20'16", long 115°54'32", in NE¼SE¼ sec.20, T.40 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank 37 mi north of Elko.

DRAINAGE AREA.--4.48 mi^2.

PERIOD OF RECORD.--October 1979 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft, from topographic map. Prior to July 18, 1984, at present site at datum, 3.179 ft lower.

REMARKS.--Records poor, stage-discharge relation indefinite May 17 to July 18. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--5 years, 2.28 ft^3/s, 1,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91 ft^3/s May 11, 1984, gage height, 1.95 ft; no flow many months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91 ft^3/s May 11, gage height, 1.95 ft; no flow Aug. 24 to Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.15	.08	.20	.49	1.1	3.6	7.5	10	2.0	.94	.00
2	.10	.15	.08	.22	.52	1.1	3.5	11	8.4	2.0	.82	.00
3	.10	.15	.08	.25	.54	1.1	3.4	16	7.2	2.0	.66	.00
4	.10	.15	.08	.28	.58	1.1	3.3	19	6.2	1.9	.60	.00
5	.11	.16	.10	.30	.64	1.0	3.7	21	5.7	1.9	.52	.00
6	.11	.15	.13	.31	.69	1.1	4.3	20	5.1	1.9	.38	.00
7	.11	.15	.15	.32	.75	1.2	4.3	18	4.7	1.9	.26	.00
8	.09	.10	.17	.32	.79	1.4	4.5	22	4.4	1.9	.22	.00
9	.09	.14	.17	.32	.81	1.9	4.3	22	4.1	1.9	.19	.00
10	.09	.17	.17	.31	.83	2.6	4.9	38	3.9	1.8	.15	.00
11	.09	.17	.17	.29	.82	2.9	4.6	60	3.7	1.8	.18	.00
12	.09	.13	.17	.28	.82	3.0	4.4	68	3.6	1.8	.16	.00
13	.10	.14	.17	.27	.81	3.1	4.9	56	3.4	1.8	.19	.00
14	.11	.12	.14	.27	.80	4.0	7.0	49	3.3	1.8	.22	.00
15	.09	.13	.14	.26	.84	4.8	11	44	3.1	1.8	.20	.00
16	.09	.15	.14	.26	.86	5.2	20	42	3.0	1.8	.17	.00
17	.09	.17	.14	.26	.88	3.5	26	39	2.9	1.7	.13	.00
18	.09	.13	.14	.26	1.2	4.1	22	35	2.8	1.7	.14	.00
19	.10	.11	.14	.27	1.5	4.0	16	34	2.7	1.7	.12	.00
20	.11	.11	.14	.28	1.4	4.4	12	35	2.6	1.7	.10	.00
21	.12	.08	.10	.29	1.3	5.6	10	36	2.5	1.7	.07	.00
22	.13	.08	.10	.30	1.0	5.8	12	35	2.5	1.7	.03	.00
23	.11	.08	.10	.32	1.3	5.9	14	32	2.4	1.5	.01	.00
24	.12	.08	.10	.33	1.2	6.2	16	27	2.3	1.5	.00	.00
25	.12	.08	.10	.35	.87	5.8	14	25	2.3	1.4	.00	.00
26	.12	.08	.10	.37	1.0	5.7	14	23	2.2	1.2	.00	.00
27	.13	.08	.10	.39	1.3	5.0	13	21	2.2	1.1	.00	.00
28	.13	.08	.11	.40	1.3	4.4	10	19	2.1	1.1	.00	.00
29	.15	.08	.12	.42	1.1	4.2	12	17	2.1	1.1	.00	.00
30	.13	.08	.13	.44	---	3.9	7.8	15	2.1	1.0	.00	.00
31	.13	---	.15	.47	---	3.6	---	13	---	.91	.00	---
TOTAL	3.35	3.63	3.91	9.61	26.94	108.7	290.5	919.5	113.5	51.01	6.46	.00
MEAN	.11	.12	.13	.31	.93	3.51	9.68	29.7	3.78	1.65	.21	.00
MAX	.15	.17	.17	.47	1.5	6.2	26	68	10	2.0	.94	.00
MIN	.09	.08	.08	.20	.49	1.0	3.3	7.5	2.1	.91	.00	.00
AC-FT	6.6	7.2	7.8	19	53	216	576	1820	225	101	13	.00

CAL YR 1983	TOTAL	1543.71	MEAN	4.23	MAX	56	MIN	.08	AC-FT	3060
WTR YR 1984	TOTAL	1537.11	MEAN	4.20	MAX	68	MIN	.00	AC-FT	3050

10317450 GANCE CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°17'45", long 115°57'16", in SW¼NW¼ sec.1, T.39 N., R.53 E., Elko County, Hydrologic Unit 16040102, on left bank 13 mi east of Tuscarora, and 37 mi north of Elko.

DRAINAGE AREA.--6.45 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,560 ft, from topographic map. Prior to July 24, 1984, at site 15 ft downstream at datum, 0.48 ft higher.

REMARKS.--Records good, except for the period May 8 to June 17, which are fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--5 years, 7.05 ft^3/s, 5,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 168 ft^3/s May 11, 1984, gage height, 3.17 ft; minimum daily, 1.2 ft3/s Aug. 2, 3, 23, to Sept. 4, 11, 1981, Oct. 4, 5, 15-18, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft^3/s May 11, gage height, 3.17 ft, minimum daily, 3.0 ft^3/s Oct. 20-22, Nov. 8, 9, and Jan. 20, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.4	3.5	3.5	3.1	3.7	5.9	9.5	29	9.1	7.4	4.8
2	3.1	3.2	3.5	3.5	3.2	3.7	5.8	11	20	9.1	7.1	4.8
3	3.1	3.1	3.5	3.5	3.4	3.7	6.0	12	17	9.1	6.7	4.7
4	3.1	3.1	4.4	3.5	3.4	3.7	6.4	13	15	9.1	6.5	4.6
5	3.2	3.1	3.8	3.6	3.4	3.7	7.2	12	14	9.1	6.3	4.6
6	3.1	3.1	3.9	3.6	3.6	3.8	7.6	12	14	9.1	6.0	4.7
7	3.1	3.1	3.8	3.6	3.5	4.1	7.4	11	11	9.1	6.0	4.5
8	3.1	3.0	3.7	3.6	3.5	4.5	7.6	14	9.7	9.1	6.0	4.5
9	3.1	3.0	3.6	3.6	3.5	5.2	7.7	24	9.4	9.1	5.8	4.5
10	3.1	3.1	3.6	3.5	3.5	5.3	7.6	30	9.4	9.4	5.6	4.5
11	3.1	3.2	3.6	3.5	3.6	5.3	7.3	90	9.1	9.4	5.7	4.4
12	3.1	3.2	3.7	3.4	3.6	5.1	7.3	154	8.4	9.4	5.7	4.3
13	3.1	3.2	3.8	3.2	4.0	6.0	7.6	134	8.4	9.1	5.6	4.3
14	3.1	3.2	3.9	3.4	3.9	6.4	8.9	117	8.4	9.1	5.6	4.3
15	3.1	3.2	4.1	3.4	3.8	6.7	12	91	9.9	9.4	5.6	4.3
16	3.1	3.2	3.9	3.4	3.9	6.5	14	68	12	9.4	5.5	4.3
17	3.1	3.5	3.8	3.2	3.7	6.2	16	58	11	9.4	5.3	4.3
18	3.1	3.4	3.6	3.2	3.7	5.9	16	57	9.9	9.1	5.3	4.1
19	3.1	3.4	3.6	3.1	3.7	6.2	13	55	9.4	8.9	5.3	4.1
20	3.0	3.4	3.6	3.0	3.7	7.6	11	56	8.6	8.8	5.3	4.3
21	3.0	3.4	3.6	3.0	3.7	7.8	11	81	8.6	8.7	5.2	4.4
22	3.0	3.4	3.6	3.1	3.7	7.4	12	80	8.6	8.7	5.2	4.3
23	3.1	3.4	3.5	3.8	3.7	7.2	14	77	8.6	8.6	5.0	4.3
24	3.2	3.4	3.5	3.6	3.7	7.2	15	70	8.9	8.5	4.9	4.2
25	3.1	3.4	3.7	3.4	3.8	7.0	14	61	9.1	9.1	4.9	4.1
26	3.1	3.5	3.8	3.2	3.7	7.1	12	60	9.1	8.7	4.9	4.1
27	3.2	3.5	3.4	3.2	3.7	6.6	11	54	8.9	8.3	4.9	4.1
28	3.2	3.5	3.5	3.2	3.7	6.3	10	49	8.9	7.9	4.8	4.1
29	3.2	3.5	3.7	3.1	3.7	6.1	9.8	43	8.9	7.7	4.7	4.1
30	3.4	3.5	3.8	3.1	---	5.9	9.6	42	9.1	7.3	4.6	4.1
31	3.5	---	3.7	3.1	---	5.9	---	35	---	7.6	4.8	---
TOTAL	97.1	98.6	114.7	104.1	105.1	177.8	300.7	1680.5	332.3	274.4	172.2	130.7
MEAN	3.13	3.29	3.70	3.36	3.62	5.74	10.0	54.2	11.1	8.85	5.55	4.36
MAX	3.5	3.5	4.4	3.8	4.0	7.8	16	154	29	9.4	7.4	4.8
MIN	3.0	3.0	3.4	3.0	3.1	3.7	5.8	9.5	8.4	7.3	4.6	4.1

CAL YR 1983	TOTAL	3548.3	MEAN	9.72	MAX	102	MIN	2.5
WTR YR 1984	TOTAL	3588.2	MEAN	9.80	MAX	154	MIN	3.0

HUMBOLDT RIVER BASIN

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'00", long 115°38'00", in SE¼NE¼ sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi southwest of Ryndon, 1.5 mi upstream from Jackson Creek, 5 mi downstream from North Fork, and 10 mi northeast of Elko.

DRAINAGE AREA.--2,800 mi^2, approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft, National Geodetic Vertical Datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi downstream at different datum.

REMARKS.--Records good, except those during period of ice effect or no gage-height record, Jan. 12 to Mar. 14, which are poor. Diversions for irrigation of 95,800 acres, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--47 years (1896-1902, 1945-84), 266 ft^3/s, 192,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft^3/s Mar. 4, 1983, gage height, 12.18 ft; no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,790 ft^3/s May 17, gage height, 10.22 ft; minimum daily, 63 ft^3/s Sept. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	186	289	487	310	365	1230	2350	3950	2200	724	98
2	147	206	295	499	300	360	1220	2450	4060	2160	729	97
3	151	211	316	495	300	355	1190	2630	3910	2020	703	97
4	152	202	319	399	300	350	1170	2810	3680	1880	617	94
5	151	194	264	371	300	365	1250	2950	3580	1760	559	90
6	148	192	298	379	300	380	1570	2790	3790	1660	509	87
7	142	189	303	408	300	420	1980	2560	3750	1570	463	85
8	140	215	355	375	300	480	2040	2390	3780	1540	417	85
9	141	224	376	389	300	570	2030	2320	3630	1460	382	83
10	145	225	387	361	300	800	1930	2390	3210	1350	352	79
11	149	226	404	329	315	1200	2000	2540	3030	1260	363	75
12	147	234	402	315	325	1600	2100	2830	2900	1170	359	71
13	147	241	388	300	340	1850	2000	3280	2550	1100	326	68
14	151	239	388	290	360	1950	2080	3750	2340	1040	307	67
15	157	236	424	285	380	1900	2370	4430	2220	983	290	67
16	157	240	451	280	410	1740	3000	5340	2150	915	284	67
17	155	248	458	270	430	1670	3860	5700	2130	855	277	67
18	153	281	453	260	440	1430	4640	5250	2160	804	252	65
19	153	291	435	260	450	1250	4800	4600	2220	765	225	63
20	151	299	390	255	460	1240	4190	4040	2330	759	201	66
21	149	305	302	250	440	1490	3800	3700	2410	762	186	68
22	146	277	256	245	425	1660	3420	3760	2480	794	174	70
23	148	286	265	245	410	1650	3310	3990	2510	838	166	74
24	166	298	193	245	400	1670	3370	4100	2420	797	156	76
25	174	320	269	265	390	1750	3350	4310	2340	789	147	86
26	171	304	315	285	385	1690	2910	4350	2330	749	139	91
27	166	272	349	310	380	1700	2770	4200	2320	724	133	94
28	164	279	453	320	375	1550	2880	4110	2300	718	124	100
29	163	290	443	320	373	1420	2620	3950	2250	702	117	102
30	164	283	422	320	---	1350	2400	3710	2200	661	108	104
31	178	---	422	320	---	1240	---	3760	---	623	104	---
TOTAL	4758	7493	11084	10132	10498	37445	77480	111340	84930	35408	9893	2436
MEAN	153	250	358	327	362	1208	2583	3592	2831	1142	319	81.2
MAX	178	320	458	499	460	1950	4800	5700	4060	2200	729	104
MIN	132	186	193	245	300	350	1170	2320	2130	623	104	63
AC-FT	9440	14860	21990	20100	20820	74270	153700	220800	168500	70230	19620	4830

CAL YR 1983 TOTAL 247947 MEAN 679 MAX 6530 MIN 41 AC-FT 491800
WTR YR 1984 TOTAL 402897 MEAN 1101 MAX 5700 MIN 63 AC-FT 799100

10321000 HUMBOLDT RIVER NEAR CARLIN, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°43'40", long 116°00'30", in SE¼SE¼ sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank 1.0 mi downstream from Tonka Creek, 4.5 mi southwest of Moleen, 5 mi upstream from Susie Creek, 5.5 mi east of Carlin, and 15 mi southwest of Elko.

DRAINAGE AREA.--4,310 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft, Nevada State Highway Department Datum.

REMARKS.--Records good. Many diversions for irrigation of 143,000 acres above station.

AVERAGE DISCHARGE.--41 years, 397 ft^3/s, 287,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,250 ft^3/s May 17, 1984, gage height, 10.04 ft; maximum gage height, 10.21 ft Feb. 14, 1962; minimum, 0.1 ft^3/s Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft^3/s, based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,250 ft^3/s May 17, gage height, 10.04 ft; minimum, 132 ft^3/s Sept. 19, 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	251	445	773	390	479	1880	3600	7060	3860	981	184
2	226	278	461	712	364	516	1860	3580	7200	3670	1070	179
3	239	292	484	633	356	600	1820	3740	7020	3540	1070	177
4	235	301	534	637	354	640	1740	4000	6660	3330	1020	170
5	230	295	492	612	356	615	1750	4220	6510	3050	890	154
6	230	284	430	589	360	648	1910	4390	6420	2830	810	156
7	223	281	474	576	373	806	2130	4150	6720	2690	729	166
8	216	284	535	553	381	1050	2490	3830	6500	2540	648	162
9	211	292	616	480	394	1340	2640	3570	6210	2400	591	161
10	211	307	678	443	406	1730	2680	3550	5760	2280	534	157
11	213	313	695	467	402	1810	2880	3790	5080	2120	498	150
12	216	328	718	457	419	1960	2870	4150	4670	1980	498	147
13	218	331	731	465	455	1920	2920	4670	4390	1860	486	143
14	223	334	732	468	586	2550	2900	5520	3870	1780	456	143
15	228	329	1060	356	565	2660	3060	6610	3570	1680	435	143
16	233	322	1030	286	605	2640	3540	7460	3500	1560	424	141
17	230	340	964	311	614	2570	4460	8070	3470	1450	415	138
18	228	378	903	295	533	2270	5650	8090	3580	1330	396	138
19	223	396	863	302	482	2060	6740	7480	3700	1280	364	135
20	220	450	805	290	432	1920	7070	6740	3860	1260	334	135
21	216	451	644	315	430	2030	6040	6280	4000	1260	306	141
22	213	438	483	339	465	2210	5350	6290	4040	1280	286	146
23	216	427	336	355	437	2310	4840	6520	4080	1230	274	149
24	223	434	201	376	437	2320	4750	6950	4130	1230	261	151
25	235	468	270	391	488	2340	4890	7240	4080	1190	247	151
26	241	473	394	417	459	2530	4940	7460	4080	1170	232	156
27	238	452	632	443	439	2580	4520	7450	4080	1120	219	159
28	235	425	618	449	433	2430	4160	7270	4030	1110	205	160
29	228	427	660	430	433	2240	4160	7100	3990	1080	192	156
30	230	440	719	414	---	2070	3880	6950	4000	1030	183	160
31	238	---	778	388	---	1940	---	6840	---	972	194	---
TOTAL	6976	10821	19385	14022	12848	55784	110520	177560	146260	59162	15248	4608
MEAN	225	361	625	452	443	1799	3684	5728	4875	1908	492	154
MAX	241	473	1060	773	614	2660	7070	8090	7200	3860	1070	184
MIN	210	251	201	286	354	479	1740	3550	3470	972	183	135
AC-FT	13840	21460	38450	27810	25480	110600	219200	352200	290100	117300	30240	9140

CAL YR 1983 TOTAL 387056 MEAN 1060 MAX 6830 MIN 71 AC-FT 767700
WTR YR 1984 TOTAL 633194 MEAN 1730 MAX 8090 MIN 135 AC-FT 1256000

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1949 to October 1951, November 1961 to March 1971, September 1971 to current year (published as Humboldt River at Carlin, sta. no. 10321000, October 1965 to September 1968).
CHEMICAL ANALYSES: October 1965 to September 1968, once daily (composited); April 1979 to September 1980, monthly; October 1980 to current year, every two months.
SPECIFIC CONDUCTANCES: October 1965 to September 1968, daily; May 1977 to September 1978, April 1979 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.
BIOLOGICAL DATA: May 1979 to September 1980, monthly (seasonal); October 1980 to September 1981, every two months.
MICROBIOLOGICAL DATA: April 1979 to September 1980, monthly; October 1980 to current year, every two months.
WATER TEMPERATURES: August 1949 to October 1951, monthly (seasonal); November 1961 to March 1971, September 1971 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.
SEDIMENT DATA: May 1979 to September 1980, monthly; October 1980 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 677 micromhos Dec. 21, 22, 1966; minimum, 193 micromhos Feb. 16, 1982.
PHYTOPLANKTON: Maximum, 32,000 cells/mL Aug. 25, 1980; minimum, 150 cells/mL Mar. 27, 1980.
FECAL STREPTOCOCCI: Maximum, 1,700 colonies/100 mL Mar. 6, 1983; minimum, 9 colonies/100 mL (non-ideal colony count) Mar. 27, 1980.
WATER TEMPERATURES: Maximum, 29.0°C July 26, 28, 29, 1968; minimum, freezing point on some days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,440 mg/L May 18, 1984; minimum, 17 mg/L Sept. 30, 1980, and Sept. 20, 1983.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 15...	1250	335	539	8.4	5.5	13	12.2	116	78	470	190
JAN 24...	1445	369	533	7.7	.0	32	10.7	--	--	--	190
MAR 14...	1515	2630	345	8.1	3.5	650	11.0	100	K100	940	110
MAY 18...	1400	8130	357	8.1	15.0	180	8.4	100	240	270	110
JUL 25...	1720	1200	326	--	24.0	39	--	--	K120	K90	130
SEP 27...	1240	160	500	8.5	13.5	7.6	10.6	122	K36	K16	180

K: NON-IDEAL COLONY COUNT.

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV											
15...	54	14	43	1	5.8	230	32	17	.40	28	326
JAN											
24...	53	14	40	1	5.6	222	37	20	.40	31	324
MAR											
14...	32	7.4	30	1	5.9	134	24	13	.20	20	210
MAY											
18...	31	8.0	28	1	10	140	22	13	.40	27	228
JUL											
25...	38	7.5	19	.8	3.7	142	14	6.9	.30	21	206
SEP											
27...	50	13	39	1	7.7	205	37	21	.50	26	325

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV											
15...	330	295	<.10	.130	1.0	.130	.070	.040	<10	5	87
JAN											
24...	330	323	.17	.120	.80	.170	.060	.060	--	--	--
MAR											
14...	210	1490	.13	.130	2.5	1.20	.100	.080	130	5	67
MAY											
18...	220	5000	.10	.070	2.0	.300	.090	.050	10	5	59
JUL											
25...	200	667	.13	.090	.80	.610	--	.050	--	--	--
SEP											
27...	320	140	<.10	.030	.30	.110	.080	.080	10	7	110

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV										
15...	<.5	<1	<1	<3	1	6	<1	36	10	<.1
JAN										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	<.5	2	<1	<3	7	130	<1	18	15	<.1
MAY										
18...	<1	<1	<1	<3	5	9	2	24	14	<.1
JUL										
25...	--	--	--	--	--	--	--	--	--	--
SEP										
27...	<1	<1	<1	<3	3	6	2	34	12	<.1

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV										
15...	<10	<1	<1	<1	350	<6	7	52	47	88
JAN										
24...	--	--	--	--	--	--	--	164	163	80
MAR										
14...	<10	<1	<1	<1	200	<6	130	2440	17300	80
MAY										
18...	<10	<1	<1	<1	190	6	<3	E632	--	--
JUL										
25...	--	--	--	--	--	--	--	200	648	--
SEP										
27...	<10	1	<1	<1	370	<6	8	22	9.5	--

E: Collected using non-standard techniques.

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE¼SE¼ sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank 0.2 mi downstream from Southern Pacific Railroad bridge, 0.5 mi downstream from Palisade, and 0.8 mi upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi^2, approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft, National Geodetic Vertical 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.

REMARKS.--Records good, except for winter months, which are poor. Diversions for irrigation of 143,000 acres of hay and pastureland above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Qualtiy Data for Gaging Stations."

AVERAGE DISCHARGE.--77 years (1902-6, 1911-84) 404 ft^3/s, 292,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft^3/s May 18, 1984, gage height, 10.08 ft, minimum, 2 ft^3/s Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft, present datum, about Feb. 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft^3/s, from rating curve extended above 7,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,370 ft^3/s May 18, gage height, 10.08 ft; minimum daily, 177 ft^3/s Sept. 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	300	492	362	444	596	2540	3870	6430	3710	1120	239
2	264	330	510	321	440	611	2480	3880	6600	3550	1150	235
3	270	348	538	709	434	747	2420	4080	6510	3430	1180	232
4	270	358	586	731	428	764	2390	4350	6260	3280	1140	230
5	261	358	571	764	422	736	2570	4620	6030	3060	1020	225
6	261	344	501	720	416	786	3030	4730	5970	2840	923	218
7	257	337	510	690	407	972	3090	4600	6090	2710	838	213
8	245	330	591	650	425	1240	3310	4340	6050	2570	761	213
9	239	334	656	620	444	1700	3390	4120	5810	2440	692	210
10	233	355	731	590	466	2110	3360	4120	5500	2340	628	207
11	239	373	753	560	483	2250	3590	4330	4990	2190	585	205
12	245	386	770	530	501	2420	3420	4720	4550	2050	572	203
13	248	389	792	500	552	2400	3550	5120	4360	1920	563	199
14	261	389	821	480	616	3270	3660	5670	3950	1830	538	194
15	261	386	1250	450	720	3460	3990	6410	3650	1770	509	191
16	270	376	1210	431	720	3300	4640	7020	3560	1630	494	190
17	270	389	1110	410	809	3300	5520	7510	3510	1530	474	188
18	267	422	1030	390	667	2850	6350	7820	3540	1420	462	184
19	264	437	979	395	641	2640	6910	7430	3600	1350	428	182
20	257	492	916	415	616	2600	7030	6790	3720	1340	401	181
21	254	497	747	430	591	2880	6340	6270	3800	1350	376	179
22	251	479	567	445	581	3050	5520	6090	3850	1390	352	178
23	257	470	475	460	567	3160	5130	6130	3870	1340	333	177
24	267	479	434	475	543	3240	4980	6440	3890	1320	318	179
25	277	515	434	490	591	3260	5030	6730	3880	1290	305	182
26	290	510	483	515	616	3520	5040	6840	3850	1260	286	182
27	290	506	764	490	567	3520	4770	6900	3860	1210	265	185
28	290	474	616	470	543	3200	4290	6840	3820	1200	253	185
29	283	470	775	455	552	3000	4210	6650	3770	1170	247	187
30	283	488	798	444	---	2740	4100	6500	3770	1150	245	189
31	286	---	904	444	---	2600	---	6370	---	1130	243	---
TOTAL	8155	12321	22314	16036	15302	72922	126650	177290	139040	60770	17701	5962
MEAN	263	411	720	543	545	2352	4222	5719	4635	1960	571	199
MAX	290	515	1250	862	809	3520	7030	7820	6600	3710	1180	239
MIN	233	300	434	390	407	596	2390	3870	3510	1130	243	177
AC-FT	16180	24440	44260	33390	31340	144600	251200	351700	275800	120500	35110	11830

CAL YR 1983	TOTAL	471546	MEAN	1292	MAX	6380	MIN	63	AC-FT	935300
WTR YR 1984	TOTAL	675763	MEAN	1846	MAX	7820	MIN	177	AC-FT	1340000

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW¼SE¼ sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, on left bank at mouth of canyon, 22 mi northeast of Battle Mountain.

DRAINAGE AREA.--875 mi^2, 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 in WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft, estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946; at datum 9.45 ft higher Jan. 4, 1946; to July 23, 1964; at datum 7.35 ft higher July 23, 1964, to Oct. 31, 1968; and at datum 6.34 ft higher Nov. 1, 1968, to Oct. 28, 1970.

REMARKS.--Records poor, no gage-height record June 23 to August 8. Seven diversions for irrigation of 4,380 acres, in valleys upstream. Station is above all diversions in Boulder Flat and below tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi upstream, all and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--44 years (1918-23, 1945-84), 41.9 ft^3/s, 30,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s Feb. 11, 1962, gage height, 6.89 ft, from rating curve extended above 2,500 ft^3/s on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 12	1300	146	3.30	Mar. 27	0300	1,180	5.06
Dec. 15	1200	902	4.72	Apr. 17	2400	*2,440	6.59
Mar. 15	1200	1,310	5.22	May 15	1800	1,350	5.26
Mar. 22	0500	1,390	5.32				

Minimum daily discharge, 9.4 ft^3/s, Oct. 1; Nov. 6, 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	46	124	182	132	111	84	66	86	43	12	4.1
2	52	43	123	179	130	108	82	70	92	43	6.7	2.9
3	48	43	158	176	130	106	83	70	89	40	5.8	2.8
4	43	43	129	174	128	104	83	68	95	41	5.5	3.6
5	41	41	133	171	127	103	82	61	89	37	5.1	2.5
6	38	43	140	167	122	101	80	59	100	38	4.8	3.6
7	37	43	134	167	122	100	81	62	92	37	10	3.5
8	38	41	136	166	120	100	93	68	78	34	13	2.4
9	40	43	134	156	134	100	84	71	79	30	10	2.3
10	39	60	149	162	120	98	94	76	79	30	10	2.0
11	41	63	149	160	114	96	88	79	79	29	11	1.9
12	42	63	138	158	113	98	82	80	76	21	9.0	2.0
13	40	73	140	158	130	106	80	89	73	21	6.8	2.4
14	39	62	140	157	120	114	80	88	76	19	6.3	2.5
15	41	70	140	154	130	109	78	88	79	16	3.6	2.1
16	40	109	143	156	142	103	79	83	75	15	3.5	2.5
17	40	89	141	152	135	102	79	80	77	14	3.2	3.0
18	41	83	141	152	133	95	82	79	75	16	3.3	3.9
19	41	96	141	152	131	94	79	80	74	12	5.4	3.6
20	41	109	138	152	131	96	71	84	73	13	4.9	3.9
21	40	102	141	152	134	102	71	82	66	11	4.6	4.3
22	40	100	164	150	127	93	74	85	61	11	5.3	4.9
23	40	102	140	149	126	92	74	89	60	15	4.7	4.3
24	42	141	141	150	131	93	70	88	59	21	4.2	3.7
25	41	208	152	148	119	91	63	86	54	14	4.2	4.1
26	40	131	182	146	116	92	61	88	53	11	7.0	4.8
27	38	123	188	145	116	87	61	86	51	9.6	5.8	5.3
28	37	124	182	144	113	88	61	89	49	9.3	5.5	5.4
29	40	128	182	143	112	81	64	92	48	10	4.5	5.4
30	45	128	184	139	---	94	65	97	44	9.9	4.8	4.4
31	49	---	181	133	---	89	---	90	---	12	4.3	---
TOTAL	1289	2550	4608	4850	3638	3036	2303	2473	2181	682.8	194.8	104.1
MEAN	41.6	85.0	149	156	125	97.9	76.9	79.8	72.7	22.0	6.28	3.47
MAX	55	208	188	182	142	114	94	97	100	43	13	5.4
MIN	37	41	123	133	112	81	61	59	44	9.3	3.2	1.9
AC-FT	2560	5060	9140	9620	7220	6020	4580	4910	4330	1350	386	206

CAL YR 1983	TOTAL	44886	MEAN	123	MAX	286	MIN	37	AC-FT	89030
WTR YR 1984	TOTAL	27914.7	MEAN	76.3	MAX	208	MIN	1.9	AC-FT	55370

HUMBOLDT RIVER BASIN

10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°10'16", long 117°12'23", in NW¼ sec. 36, T.27 N., R.42 E., Lander County, Hydrologic Unit 16040107, on left bank, about 4 mi upstream from the confluence with Reese River, and 36 mi southwest of Battle Mountain.

DRAINAGE AREA.--64.7 mi^2.

PERIOD OF RECORD.--October 1977 to September 1982, October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft, from topographic map.

REMARKS.--Records fair, except those for winter months, and periods of no gage-height record, July 7 to August 10, which are poor. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--5 years (1978-82, 1984), 3.23 ft^3/s, 2,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s July 21, 1979, gage height, 6.65 ft, from floodmarks, from rating curve extended above 32 ft^3/s, on the basis of area-velocity computation to determine peak flow; minimum daily, 0.15 ft^3/s Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64 ft^3/s May 15, gage height 3.11 ft; minimum daily, 2.0 ft^3/s Oct. 10-23, Nov. 8, 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.4	2.6	2.5	4.3	5.5	20	13	15	4.3	4.1	2.3
2	2.6	2.3	2.7	2.5	4.1	5.1	20	13	16	4.1	4.2	2.3
3	2.3	2.3	2.8	2.5	4.1	4.5	23	14	13	3.9	4.1	2.4
4	2.2	2.3	2.7	2.5	4.4	4.3	24	15	14	3.7	4.0	2.3
5	2.2	2.3	2.3	2.5	4.3	4.3	25	15	13	3.6	3.8	2.2
6	2.2	2.3	2.7	2.5	4.3	4.3	25	15	12	3.5	3.7	2.2
7	2.2	2.3	2.7	2.5	4.2	4.5	22	16	11	3.4	3.6	2.2
8	2.1	2.0	2.9	2.5	4.3	4.9	23	16	8.7	3.4	3.4	2.2
9	2.1	2.0	2.9	2.5	4.7	5.3	21	17	9.0	3.4	3.3	2.2
10	2.0	2.1	2.9	2.5	4.5	5.3	21	17	9.3	3.4	3.1	2.2
11	2.0	2.2	2.9	2.5	4.1	5.3	20	18	8.0	3.4	3.0	2.2
12	2.0	2.3	3.0	2.5	4.7	5.5	20	19	7.7	3.4	2.8	2.2
13	2.0	2.4	3.0	2.5	5.8	5.8	21	18	7.7	3.4	2.8	2.2
14	2.0	2.5	3.5	2.5	4.7	5.3	21	22	7.8	3.4	2.8	2.3
15	2.0	2.5	5.4	2.5	5.1	5.1	22	41	8.2	3.4	2.7	2.3
16	2.0	2.5	4.9	2.5	5.8	5.3	23	29	7.5	3.4	2.7	2.3
17	2.0	2.7	4.7	2.5	4.9	5.3	25	25	6.7	3.4	2.7	2.4
18	2.0	2.7	4.7	2.5	4.1	5.3	23	22	11	3.4	2.7	2.3
19	2.0	2.7	4.7	2.5	4.1	5.5	23	20	8.7	3.5	2.6	2.3
20	2.0	2.7	4.4	2.8	4.3	5.1	21	20	7.3	3.9	2.6	2.5
21	2.0	2.5	3.5	3.4	4.5	5.1	20	20	6.8	4.5	2.5	2.2
22	2.0	2.2	3.2	3.6	4.1	5.3	20	20	6.5	5.1	2.5	2.1
23	2.0	2.3	2.9	3.9	4.9	5.3	20	21	6.2	4.9	2.4	2.1
24	2.1	2.4	2.5	3.9	5.1	5.5	21	22	6.0	4.8	2.4	2.1
25	2.1	2.5	2.5	4.3	5.1	5.5	21	22	5.5	4.6	2.4	2.2
26	2.1	2.5	2.5	4.1	4.7	13	20	19	4.9	4.5	2.4	2.2
27	2.1	2.4	2.5	4.1	4.9	23	19	17	4.9	4.4	2.4	2.2
28	2.1	2.5	2.5	4.6	4.9	19	17	16	4.9	4.3	2.4	2.2
29	2.1	2.5	2.5	4.3	6.0	19	16	14	4.7	4.2	2.4	2.2
30	2.1	2.6	2.5	4.3	---	19	14	15	4.5	4.2	2.5	2.3
31	2.2	---	2.5	4.0	---	19	---	15	---	4.1	2.4	---
TOTAL	65.1	71.9	98.0	94.8	135.0	240.2	631	586	256.5	120.9	91.4	67.3
MEAN	2.10	2.40	3.16	3.06	4.66	7.75	21.0	18.9	8.55	3.90	2.95	2.24
MAX	2.6	2.7	5.4	4.6	6.0	23	25	41	16	5.1	4.2	2.5
MIN	2.0	2.0	2.3	2.5	4.1	4.3	14	13	4.5	3.4	2.4	2.1
AC-FT	129	143	194	188	268	476	1250	1160	509	240	181	133

WTR YR 1984 TOTAL 2458.1 MEAN 6.72 MAX 41 MIN 2.0 AC-FT 4880

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°59'33", long 117°19'00", in SE¼ sec.14, T.36 N., R.4 E., Humboldt County, Hydrologic Unit 16040105, on left bank at Comus siding of Southern Pacific Railrooad, 1.0 mi upstream from Kelly Creek, 9 mi northeast of Golconda, and 32 mi northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi^2, approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft, National Geodetic Vertical Datum of 1929, (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 mi downstream at different datums. Sept. 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi of present site at different datum.

REMARKS.--Records good, except for winter months, which are poor. Many diversions above station for irrigation, 206,000 acres; additional acreage not covered by decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--70 years, 337 ft^3/s, 244,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft^3/s Apr. 24, 1984, gage height, 12.25 ft, no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,900 ft^3/s Apr. 24, gage height, 12.25; minimum daily, 151 ft^3/s Sept. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	275	501	967	640	817	4540	6780	6750	2770	1100	277
2	209	279	509	1010	632	798	4340	6380	6620	2690	1100	268
3	256	282	528	992	641	794	4040	5850	6410	2630	1040	257
4	263	291	561	988	679	802	3840	5540	6140	2670	995	248
5	269	307	578	1020	687	883	3720	5240	6010	2630	986	242
6	276	316	596	1040	659	1040	3680	5030	5960	2590	960	234
7	272	326	614	1050	671	1190	3600	4870	6030	2570	932	227
8	261	330	630	1050	699	1260	3490	4890	6170	2510	897	219
9	256	330	590	1040	740	1270	3520	5020	6020	2430	850	203
10	250	328	594	1030	778	1290	3640	5180	5750	2360	795	176
11	244	330	611	962	770	1350	3890	5240	5720	2280	745	175
12	239	333	630	843	837	1450	3970	5210	5640	2200	694	172
13	236	342	660	786	904	1610	4110	5000	5640	2140	647	169
14	229	355	739	732	938	1750	4150	4750	5370	2070	619	168
15	236	362	800	627	968	1920	4180	5160	5080	1990	596	163
16	236	374	833	734	1040	2150	4280	5390	4550	1880	579	161
17	240	382	880	670	1110	2340	4260	5600	4130	1790	557	159
18	244	383	983	556	1130	2500	4360	6050	4000	1700	534	160
19	246	388	1070	514	1200	2610	4530	6410	3720	1620	509	158
20	248	409	1120	605	1210	2970	4950	6910	3530	1560	489	153
21	251	434	1100	645	1190	3350	5600	7600	3260	1520	474	152
22	251	450	1060	513	1010	3510	6860	8420	3080	1560	449	151
23	248	470	1000	452	956	3380	8660	8960	3010	1500	428	152
24	253	480	970	443	916	3170	9590	8940	2980	1410	403	153
25	251	488	940	496	911	3130	9640	8300	2970	1360	385	181
26	255	492	910	566	864	3380	8890	7350	2970	1320	368	178
27	257	502	900	628	846	3670	7920	6770	2930	1280	348	183
28	257	522	900	659	855	3840	7170	6540	2900	1250	334	179
29	259	519	900	675	841	4070	6970	6480	2810	1230	321	180
30	266	509	900	673	---	4150	6960	6490	2750	1170	305	182
31	270	---	921	659	---	4300	---	6700	---	1110	292	---
TOTAL	7687	11588	24528	23625	25322	70744	159350	193050	138900	59840	19731	5685
MEAN	248	386	791	762	873	2282	5312	6227	4630	1930	636	190
MAX	276	522	1120	1050	1210	4300	9640	8960	6750	2770	1100	277
MIN	159	275	501	443	632	794	3490	4750	2750	1110	292	151
AC-FT	15250	22980	48650	46860	50230	140300	316100	382900	275500	118700	39140	11280

CAL YR 1983	TOTAL	557928	MEAN	1529	MAX	5160	MIN	72	AC-FT	1107000
WTR YR 1984	TOTAL	740050	MEAN	2022	MAX	9640	MIN	151	AC-FT	1468000

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¼SE¼ sec.20, T.41 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank 3.5 mi downstream from Bullshead Ranch and 9.5 mi southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi^2, approximately.

PERIOD OF RECORD.--October 1921 to June 1923 (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, from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft upstream at datum 2.21 ft higher.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft, 10 mi upstream, since 1974. Diversions for irrigation of 4,450 acres, Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--46 years (1921-23, 1924-27, 1943-1984), 26.1 ft^3/s, 18,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s Jan. 21, 1969, gage height, 8.40 ft, minimum, 0.46 ft^3/s Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 678 ft^3/s May 15, gage height, 6.46 ft; minimum daily, 8.9 ft^3/s Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	11	18	12	15	20	100	288	285	58	29	27
2	9.7	11	19	12	14	22	96	276	278	54	27	27
3	10	11	19	11	16	20	93	262	265	52	27	27
4	11	11	19	12	17	18	92	262	253	50	27	27
5	11	11	14	13	17	17	102	287	243	48	27	27
6	11	10	15	12	17	21	108	324	239	45	27	27
7	12	11	22	11	17	21	104	341	229	44	27	27
8	12	11	25	11	17	24	99	338	224	41	27	27
9	13	11	21	10	17	29	99	326	213	39	27	27
10	12	11	20	11	18	31	101	317	212	38	26	27
11	10	12	19	12	19	30	102	337	202	37	27	27
12	10	12	21	11	21	29	98	378	193	35	27	26
13	11	11	19	11	31	31	96	437	184	33	27	26
14	12	12	22	10	29	42	95	511	175	32	27	25
15	10	11	25	10	26	39	95	644	166	31	27	26
16	9.3	11	21	9.0	27	31	95	655	160	31	27	26
17	9.3	14	20	10	23	30	103	656	153	30	27	26
18	9.3	14	20	11	21	28	142	622	148	30	27	26
19	9.7	12	19	12	19	26	214	562	143	30	27	26
20	9.7	16	17	11	20	30	276	503	138	30	26	26
21	9.6	14	15	11	18	31	306	460	132	30	26	26
22	9.4	11	13	12	17	29	320	439	106	31	26	26
23	11	12	12	12	16	60	319	431	83	31	27	26
24	11	15	12	12	17	76	323	416	81	30	27	27
25	9.7	20	11	13	18	79	344	403	79	29	27	27
26	9.2	16	14	13	19	83	372	387	77	29	27	27
27	9.3	13	16	13	17	83	372	367	74	29	27	27
28	9.2	14	14	13	17	82	349	352	71	30	26	28
29	9.5	15	11	13	18	90	322	336	66	29	26	28
30	9.6	16	13	13	---	92	301	318	61	29	26	28
31	9.9	---	14	13	---	95	---	297	---	29	26	---
TOTAL	318.3	380	540	360.0	558	1339	5638	12532	4938	1114	831	800
MEAN	10.3	12.7	17.4	11.6	19.2	43.2	188	404	165	35.9	26.8	26.7
MAX	13	20	25	13	31	95	372	656	285	58	29	28
MIN	8.9	10	11	9.0	14	17	92	262	61	29	26	25
AC-FT	631	754	1070	714	1110	2660	11180	24860	9790	2210	1650	1590

CAL YR 1983	TOTAL	19048.2	MEAN	52.2	MAX	495	MIN	8.0	AC-FT	37780
WTR YR 1984	TOTAL	29348.3	MEAN	80.2	MAX	656	MIN	8.9	AC-FT	58210

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.6 mi upstream from Humboldt County Recreation Park and 7 mi northeast of Paradise Valley.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft, from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft of present site at different datums.

REMARKS.--Records good. Diversion for irrigation of 40 acres, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--63 years, 34.4 ft^3/s, 24,920 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft^3/s Jan. 21, 1943, gage height, 11.1 ft, site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft^3/s Feb. 6, 1945.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 10	unknown	unknown	unknown	Apr. 16	2300	668	3.46
Mar. 14	0300	638	3.46	May 4	0200	457	2.89
Mar. 20	2200	490	3.08	May 15	0700	*1,130	4.35
Apr. 5	2400	256	2.31				

Minimum daily discharge, 7.4 ft^3/s, Aug. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	18	23	24	62	121	184	421	106	19	9.3
2	12	13	18	23	24	62	119	222	353	98	16	9.3
3	11	12	19	23	24	54	114	281	300	92	16	9.3
4	10	12	21	23	24	45	133	368	297	80	15	8.5
5	9.7	12	25	23	24	43	199	309	312	77	14	8.9
6	9.5	12	34	23	24	45	216	262	297	73	13	9.3
7	9.3	14	28	23	25	47	158	237	288	72	12	8.9
8	9.3	14	32	23	26	51	197	241	259	70	11	8.9
9	9.4	13	35	23	28	90	169	326	221	64	11	8.5
10	10	12	45	23	32	148	163	450	200	58	10	8.2
11	10	19	51	23	36	132	164	527	182	54	10	7.8
12	9.7	19	45	23	42	129	154	706	166	49	10	8.0
13	9.7	15	47	23	50	177	165	782	163	44	10	8.1
14	9.9	14	66	23	60	409	223	815	166	39	11	8.2
15	10	13	170	23	65	223	362	985	168	36	10	8.1
16	10	13	90	23	64	159	485	734	189	33	10	7.7
17	10	42	70	23	60	147	537	597	200	32	9.3	8.1
18	10	31	60	23	51	118	409	523	198	31	9.3	7.8
19	10	22	52	23	52	136	332	507	203	33	8.5	7.6
20	10	19	47	23	59	239	267	597	198	31	8.5	8.8
21	9.9	16	40	24	57	297	243	661	189	30	8.1	8.9
22	9.9	16	35	24	44	192	288	607	172	30	8.0	9.4
23	11	15	31	24	45	191	361	560	159	30	8.9	9.6
24	11	22	29	24	45	206	374	556	150	28	8.3	9.7
25	11	37	28	24	38	165	287	513	143	26	8.1	10
26	10	24	27	24	34	181	241	509	140	24	8.1	11
27	10	20	26	24	37	152	216	511	132	22	7.8	11
28	10	20	25	24	43	129	194	478	125	22	7.8	10
29	11	18	24	24	48	120	185	460	119	21	7.8	10
30	11	18	24	24	---	119	183	497	116	19	7.4	11
31	11	---	23	24	---	130	---	497	---	18	8.1	---
TOTAL	318.3	539	1285	724	1185	4398	7259	15502	6226	1442	322.0	269.9
MEAN	10.3	18.0	41.5	23.4	40.9	142	242	500	208	46.5	10.4	9.00
MAX	13	42	170	24	65	409	537	985	421	106	19	11
MIN	9.3	12	18	23	24	43	114	184	116	18	7.4	7.6
AC-FT	631	1070	2550	1440	2350	8720	14400	30750	12350	2860	639	535

CAL YR 1983	TOTAL	39371.7	MEAN	108	MAX	946	MIN	7.4	AC-FT 78090
WTR YR 1984	TOTAL	39470.2	MEAN	108	MAX	985	MIN	7.4	AC-FT 78290

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼SE¼ sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank 1 mi upstream from Callahan bridge and 4 mi northwest of Imlay.

DRAINAGE AREA.--15,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,130 ft, from Geological Survey vertical-angle bench mark. Prior to Apr. 28, 1945, at site 1 mi downstream at different datum. Apr. 28, 1945, to Aug. 20, 1947, at present site at datum 1 ft higher.

REMARKS.--Records fair, except for period of no gage-height record, Dec. 20 to Feb. 1, which are poor. Humboldt-Lovelock Irrigation, Light and Power Co.'s feeder canal diverts water at times from river above station to Pitt-Taylor Reservoirs. Flow affected by many diversions above station for irrigation.

AVERAGE DISCHARGE.--45 years, 274 ft^3/s, 198,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft^3/s May 27, 1984, gage height, 13.20 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,270 ft^3/s May 27, gage height, 13.20 ft; minimum daily, 158 ft^3/s Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	227	446	810	760	1090	3460	7480	6740	2830	1630	420
2	167	227	457	820	760	1060	3650	7140	6750	2810	1580	405
3	165	227	466	850	760	1050	3810	6980	6960	2790	1530	389
4	169	230	480	870	770	1020	3900	6750	7010	2770	1470	375
5	183	233	480	880	790	988	4080	6450	7100	2760	1420	362
6	200	239	489	880	800	958	4060	5960	7120	2750	1370	349
7	213	237	495	890	800	944	3830	5470	6990	2720	1310	341
8	227	241	507	910	790	966	3770	5110	6700	2690	1270	332
9	233	246	522	930	764	1020	3600	4740	6510	2670	1240	323
10	235	254	535	940	772	1070	3460	4520	6570	2640	1200	316
11	233	263	557	930	787	1120	3260	4400	6660	2620	1150	304
12	233	263	547	910	839	1160	3210	4350	6630	2580	1090	291
13	239	279	534	880	910	1200	3190	4480	6400	2540	1040	281
14	230	259	547	840	958	1230	3260	4610	6260	2490	969	275
15	222	259	570	800	992	1260	3460	4860	6160	2430	901	269
16	219	263	604	770	1040	1300	3590	4930	6160	2370	853	265
17	213	284	709	720	1090	1350	3670	4880	5820	2310	812	260
18	208	281	799	690	1110	1410	3740	4760	5500	2260	775	258
19	205	298	819	680	1140	1470	3770	5120	4970	2230	739	256
20	203	303	860	670	1160	1520	3830	5450	4470	2170	700	254
21	203	306	920	660	1190	1630	3850	5840	4160	2120	666	252
22	205	315	990	650	1210	1770	3890	6260	3880	2080	639	245
23	213	325	980	640	1240	1960	4060	6830	3650	2050	617	240
24	216	338	970	640	1270	2130	4400	7570	3450	2010	589	236
25	213	350	950	640	1280	2350	5130	8450	3240	1970	561	235
26	211	365	900	640	1240	2640	6920	9060	3080	1940	535	234
27	211	392	870	660	1210	2820	8450	9190	2980	1910	513	238
28	211	410	830	700	1170	2840	8830	8780	2930	1850	492	240
29	213	413	810	740	1140	2830	8630	8130	2910	1790	473	242
30	216	426	800	760	---	2920	7900	7400	2880	1730	458	258
31	219	---	800	760	---	3190	---	6970	---	1670	436	---
TOTAL	6486	8753	21243	24160	28742	50266	134660	192920	160640	72550	29028	8745
MEAN	209	292	685	779	991	1621	4489	6223	5355	2340	936	292
MAX	239	426	990	940	1280	3190	8830	9190	7120	2830	1630	420
MIN	158	227	446	640	760	944	3190	4350	2880	1670	436	234
AC-FT	12860	17360	42140	47920	57010	99700	267100	382700	318600	143900	57580	17350

CAL YR 1983 TOTAL 457240 MEAN 1253 MAX 4170 MIN 152 AC-FT 906900
WTR YR 1984 TOTAL 738193 MEAN 2017 MAX 9190 MIN 158 AC-FT 1464000

10333000 HUMBOLDT RIVER NEAR IMLAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1950, August 1951 to April 1952, October 1952, February 1960 to current year.
SPECIFIC CONDUCTANCES: October 1975 to November 1980, monthly; December 1980 to current year, every two months.
WATER TEMPERATURES: July 1949 to November 1950, August 1951 to April 1952, October 1952, and February 1960 to June 1961, monthly; November 1961 to October 1962, occasional; November 1962 to October 1968, monthly; November 1968 to September 1969, occasional; October 1969 to November 1980, monthly; December 1980 to current year, every two months.
SEDIMENT DATA: January 1974 to November 1980, monthly; December 1980 to current year, every two months.

REMARKS.--No samples were collected from March to September due to backwater from Rye Patch Reservoir.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 988 micromhos Aug. 24, 1983; minimum, 377 micromhos Feb. 26, 1979.
WATER TEMPERATURES: Maximum, 30.5°C July 26, 1968; minimum, freezing point on some days during winter months of some years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,200 mg/L Feb. 26, 1979; minimum, 9 mg/L Oct. 24, 1974.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
14...	1210	233	787	13.0	212	133	96
DEC							
01...	1020	446	677	3.0	226	272	91
FEB							
09...	1640	772	805	4.0	--	--	--
MAR							
21...	1620	1650	729	10.0	--	--	--

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION.--Lat 40°18'15", long 118°18'30", in NW¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2, approximately.

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

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is National Geodetic Vertical Datum of 1929 (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft between altitudes 4,072.5 ft, sill of trashrack structure, and 4,136.0 ft, top of spillway gates (since June 1976). Dead storage negligible. Altitude of spillway (gate sill) is 4,119 ft. 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 altitude furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft Apr. 9, 1946, altitude, 4,134.62 ft, capacity table then in use; maximum altitude, 4,135.9 ft, July 27 to Aug. 3, 1983, and July 11-15, 1984; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 193,100 acre-ft July 11-15, altitude, 4,135.9 ft; minimum, 67,930 acre-ft Mar. 23-24, altitude, 4,122.7 ft.

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

4,122	63,800	4,131	133,200
4,124	76,000	4,132	144,200
4,125	82,700	4,133	157,200
4,127	97,300	4,134	170,800
4,129	113,900	4,135	182,400
4,130	123,200	4,136	194,300

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181200	178900	183600	157200	116700	107900	79350	148100	173100	188400	189500	174200
2	181200	178900	183600	155900	115800	106200	82030	152000	173100	190700	189500	174200
3	181200	178900	183600	154600	114800	104500	84830	153300	173100	190700	189500	173100
4	181200	178900	183600	153300	113900	101300	87670	157200	171900	190700	188400	173100
5	181200	178900	183600	152000	114800	99700	90550	159900	174200	190700	188400	173100
6	181200	178900	183600	150700	115800	98100	93550	161300	174200	190700	188400	173100
7	181200	178900	182400	148100	117600	95050	95800	162600	175400	191900	188400	173100
8	181200	178900	181200	146800	119500	92800	98100	162600	176600	191900	187200	173100
9	181200	178900	181200	145500	120400	89800	99700	161300	177700	191900	187200	173100
10	182400	178900	181200	144200	120400	87670	101300	161300	177700	191900	186000	173100
11	182400	178900	180100	144200	120400	85540	102900	158600	178900	193100	184800	173100
12	182400	178900	178900	143100	119500	82700	102900	158600	181200	193100	183600	173100
13	182400	178900	177700	143100	118600	80690	103700	157200	183600	193100	182400	173100
14	182400	178900	176600	142000	117600	79350	105300	155900	184800	193100	181200	173100
15	181200	178900	176600	140900	116700	78010	107000	154600	186000	193100	180100	173100
16	181200	178900	175400	138700	116700	76000	107900	154600	186000	191900	178900	171900
17	181200	178900	174200	137600	115800	74110	108700	154600	187200	191900	177700	171900
18	180100	178900	174200	136500	114800	72220	109600	153300	187200	191900	176600	171900
19	180100	178900	173100	134300	113900	70330	110500	153300	188400	190700	175400	171900
20	180100	178900	173100	133200	113900	69700	111300	152000	189500	190700	174200	171900
21	180100	178900	171900	131200	113000	69110	112200	152000	189500	190700	174200	171900
22	178900	178900	170800	130200	113000	68520	113000	153300	189500	190700	173100	171900
23	178900	178900	169400	128200	112200	67930	113900	154600	189500	190700	174200	171900
24	178900	178900	168000	126200	111300	67930	114800	155900	187200	190700	174200	170800
25	178900	178900	166700	125200	111300	68520	116700	157200	186000	190700	174200	170800
26	178900	182400	165300	124200	111300	69700	118600	164000	186000	190700	174200	170800
27	178900	182400	164000	123200	111300	70960	120400	168000	186000	190700	174200	170800
28	178900	182400	162600	121300	110500	73480	130200	170800	186000	190700	174200	170800
29	178900	182400	161300	119500	109600	76000	136500	171900	187200	190700	174200	169400
30	178900	183600	159900	118600	---	76670	142000	173100	188400	190700	174200	169400
31	178900	---	158600	117600	---	78010	---	174200	---	189500	174200	---
MAX	182400	183600	183600	157200	120400	107900	142000	174200	189500	193100	189500	174200
MIN	178900	178900	158600	117600	109600	67930	79350	148100	171900	188400	173100	169400
†	4134.7	4135.1	4133.1	4129.4	4128.5	4124.3	4131.8	4134.3	4135.5	4135.6	4134.3	4133.9
‡	-2300	+4700	-25000	-41000	-8000	-31590	+63990	+32200	+14200	-1100	-15300	-4800

CAL YR 1983 MAX 193100 MIN 152000 ‡ -10800
WTR YR 1984 MAX 193100 MIN 67930 ‡ -11800

† Altitude, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV
(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, Hydrologic Unit 16040108, on left bank 1,000 ft downstream from Rye Patch Dam and 1.5 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2, 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."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft, National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi downstream at different datum.

REMARKS.--Records good. Flow completely regulated by Rye Patch Reservoir, capacity 194,300 acre-ft since June 1976. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--70 years (1899-1909, 1910-16, 1917-22, 1930-32,1935-41, 1943-84), 243 ft^3/s, 176,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft^3/s May 28, 1984, gage height, 13.65 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,960 ft^3/s May 28, gage height, 13.65 ft; minimum daily 9.2 ft^3/s Feb. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	242	444	1270	1220	2050	2780	5240	7060	2410	1270	453
2	135	242	497	1260	1210	2160	2870	5880	6730	2550	1180	452
3	135	242	531	1260	957	2310	2910	6060	6850	2630	1120	451
4	104	243	531	1250	646	2270	2920	5720	6820	2630	1110	423
5	83	242	595	1250	237	2220	2900	5780	6660	2470	1110	309
6	109	243	719	1240	18	2180	2870	5790	6470	2380	1100	228
7	124	242	718	1290	9.2	2190	2880	5810	6190	2380	1100	228
8	124	242	839	1320	120	2310	2950	5830	5920	2380	1090	227
9	124	240	906	1370	627	2330	3000	5820	5870	2370	1090	228
10	141	240	904	1410	1100	2430	2990	5810	5710	2230	1130	229
11	201	240	903	1400	1220	2350	2990	5780	5270	2230	1230	228
12	240	240	951	1390	1380	2290	3080	5770	5150	2280	1220	228
13	245	240	1060	1390	1390	2210	3180	5760	5470	2270	1220	226
14	245	239	1060	1380	1430	2150	3210	5760	5640	2270	1210	227
15	267	240	1060	1380	1430	2180	3290	5900	5630	2270	1190	229
16	338	240	1060	1370	1420	2250	3550	5960	5480	2170	1060	229
17	405	230	1060	1360	1410	2190	3720	6080	5250	2000	1060	227
18	420	235	1050	1350	1410	2120	3850	6150	4940	1930	1050	227
19	409	235	1130	1340	1400	2050	3910	6130	4660	1810	1050	227
20	374	235	1210	1340	1400	1980	3890	6110	4450	1750	924	227
21	329	254	1200	1320	1390	1950	3910	6110	4230	1740	733	226
22	292	290	1200	1310	1390	1910	4020	6130	4140	1730	701	227
23	260	290	1200	1300	1380	1880	4100	6290	4120	1730	565	226
24	242	290	1200	1290	1380	1920	4180	6410	3870	1570	469	226
25	242	288	1190	1280	1380	1930	4320	6400	3500	1470	446	227
26	242	287	1180	1270	1380	2030	4390	6660	3130	1370	382	227
27	242	289	1180	1260	1380	2100	4520	7200	2820	1300	355	226
28	242	309	1170	1250	1570	2240	4590	7720	2540	1290	413	226
29	242	351	1160	1240	1830	2490	4740	7840	2430	1290	428	227
30	242	395	1200	1230	---	2520	4860	7510	2420	1280	399	228
31	242	---	1250	1230	---	2630	---	7250	---	1280	451	---
TOTAL	7175	7835	30358	40600	33114.2	67820	107370	192660	149420	61460	27856	7769
MEAN	231	261	979	1310	1142	2188	3579	6215	4981	1983	899	259
MAX	420	395	1250	1410	1830	2630	4860	7840	7060	2630	1270	453
MIN	83	230	444	1230	9.2	1880	2780	5240	2420	1280	355	226
AC-FT	14230	15540	60220	80530	65680	134500	213000	382100	296400	121900	55250	15410

CAL YR 1983 TOTAL 436904.0 MEAN 1197 MAX 3930 MIN 2.0 AC-FT 866600
WTR YR 1984 TOTAL 733437.2 MEAN 2004 MAX 7840 MIN 9.2 AC-FT 1455000

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 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.
CHEMICAL ANALYSES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to February 1968, once daily (composited); March 1968 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to current year, every two months.
SPECIFIC CONDUCTANCES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily; October 1981 to current year, every two months.
BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to September 1981, monthly; October 1981 to current year, every two months.
WATER TEMPERATURES: July 1949 to November 1951, monthly (seasonal); December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily; October 1981 to current year, every two months.
SEDIMENT DATA: January 1974, and October 1974 to September 1981, monthly; October 1981 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.
PHYTOPLANKTON: Maximum, 7,000 cells/mL Oct. 23, 1975; minimum, 8 cells/mL Mar. 26, 1976.
FECAL STREPTOCOCCI: Maximum, 2,400 colonies/100 mL (non-ideal colony count) June 24, 1977; minimum, less than 2 colonies/100 mL several days during period of record.
WATER TEMPERATURES: Maximum, 29.5°C July 25, 1968; minimum, freezing point on several days in Jan., 1980.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 136 mg/L Dec. 3, 1981; minimum, 14 mg/L Dec. 13, 1974, Apr. 29, 1980, and Feb. 18, 1981.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
17...	1040	239	818	8.6	10.0	22	10.0	104	K5	250	170
FEB											
01...	1230	1220	858	8.4	3.0	18	12.1	--	<5	140	180
MAR											
15...	1515	2080	937	8.1	7.0	9.4	12.4	119	<5	<5	190
SEP											
06...	0900	228	675	8.5	20.0	12	7.9	102	K100	K20	170

K: NON-IDEAL COLONY COUNT.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV											
17...	45	15	110	4	14	271	60	64	.70	27	500
FEB											
01...	46	17	110	4	11	276	73	70	.80	28	515
MAR											
15...	48	16	120	4	13	254	85	100	1.0	29	547
SEP											
06...	48	13	74	3	11	252	40	43	.60	28	422

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV										
17...	500	323	<.10	.090	1.4	.120	.070	.060	<10	23
FEB										
01...	520	1700	<.10	.070	.80	.100	.070	.070	--	--
MAR										
15...	570	3070	<.10	.080	.40	.100	.080	.070	<10	21
SEP										
06...	410	260	<.10	.030	.80	.150	.110	--	20	18

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV										
17...	37	<.5	<1	1	<3	5	6	2	78	2
FEB										
01...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	66	<.5	<1	<1	<3	5	8	1	86	2
SEP										
06...	34	<1	2	<1	<3	8	7	5	53	4

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV										
17...	<.1	<10	1	1	<1	380	14	8	41	26
FEB										
01...	--	--	--	--	--	--	--	--	62	204
MAR										
15...	<.1	<10	<1	<1	<1	370	13	15	15	84
SEP										
06...	.1	<10	7	<1	<1	350	12	12	26	16

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE¼NW¼ sec.3 T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi north of the Pyramid, 1.6 mi northeast of Anaho Island, and 13 mi northwest of Nixon.

DRAINAGE AREA.--2,720 mi^2.

PERIOD OF RECORD.--1867-1925 (occasional altitudes in some years), June 1926 to current year (occasional altitudes in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WDR NV-67-1: 1966.

GAGE.--Nonrecording gage. Datum of gage is 3,940.29 ft, National Geodetic Vertical Datum of 1929, (U.S. Coast and Geodetic Survey Bench Mark N-21), supplementary adjustment of 1956. Prior to January 1934, altitudes were determined from Bench Mark No. 1 of General Lake Office using altitude of 3,882.26 ft, adjustment of 1912; to convert these records to present datum, add 0.81 ft. January 1934 to September 1955, altitudes were determined from Bench Mark N-21 using altitudes of 3,940.04 ft, datum of 1929; to convert these records to present datum, add 0.25 ft. October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Altitudes are given to the nearest 0.1 ft and contents to four 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. Altitudes published in WSP 1314 for 1867 and 1871 (3,875.9 and 3,884.9 ft, respectively) have been revised to 3,867 and 3,876 ft, respectively, on the basis the data and conclusions of Hardman and Venstrom (American Geophysical Union Transactions, 1941, p. 71-90) and Harding (University of California Archives Report 16, 1965).

EXTREMES FOR PERIOD OF RECORD.--Maximum altitude observed, 3,877.9 ft in 1891 (see remarks paragraph); minimum observed, 3,783.9 ft Feb. 6, Mar. 6, 1967.

MONTH-END ALTITUDES AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	3,805.4	22,320,000	--
Oct. 31	3,805.4	22,320,000	0
Nov. 30	3,806.4	22,440,000	+120,000
Dec. 31	3,808.1	22,630,000	+190,000
CAL YR 1983	--	--	+1,560,000
Jan. 31	3,809.9	22,840,000	+210,000
Feb. 29	3,811.0	22,960,000	+120,000
Mar. 31	3,811.7	23,040,000	+ 80,000
Apr. 30	3,812.1	23,090,000	+ 50,000
May 31	3,812.6	23,150,000	+ 60,000
June 30	3,813.2	23,220,000	+ 70,000
July 31	3,812.9	23,190,000	- 30,000
Aug. 31	3,812.4	23,130,000	- 60,000
Sep. 30	3,811.9	23,070,000	- 60,000
WTR YR 1983-84	--	--	+750,000

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

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'26", long 119°56'41", in SW¼NE¼ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.05 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to September 1973, February to September 1975, October 1977 to current year.

REVISED RECORDS.--WDR NV-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,234.03 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months, which are fair. One transmountain diversion to Washoe Valley.

AVERAGE DISCHARGE.--11 years (1970-73, 1978-84), 9.00 ft^3/s, 6,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s June 18, 1982, gage height, 3.40 ft; maximum gage height, 3.77 ft Jan. 23, 1973, backwater from ice; minimum discharge, 0.66 ft^3/s Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 13	1830	54	2.84	May 30	1830	*78	3.03

Minimum daily discharge, 3.9 ft^3/s, Feb. 17, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	8.0	6.4	4.8	4.3	8.0	12	41	21	9.0	5.0
2	12	11	7.5	5.9	4.6	4.5	8.0	11	40	20	8.2	4.9
3	11	10	7.1	5.9	4.6	4.7	8.3	13	37	20	6.3	4.8
4	9.5	9.8	6.8	6.4	4.6	4.5	8.6	15	37	20	6.0	4.9
5	8.5	8.8	6.4	6.6	4.8	4.6	8.9	15	32	18	5.8	5.2
6	8.5	8.6	7.0	6.6	4.8	4.8	8.9	15	30	18	5.6	5.0
7	11	9.3	7.2	6.6	4.8	5.1	9.3	18	28	17	5.4	5.0
8	12	7.8	7.4	6.4	4.6	5.3	10	21	26	16	5.3	4.9
9	9.8	9.9	7.8	6.4	4.8	5.5	9.5	24	25	15	5.2	4.8
10	8.9	13	7.7	5.9	4.8	5.7	9.8	29	25	14	5.5	4.8
11	8.5	17	8.5	5.9	4.6	5.5	9.8	36	26	13	5.6	4.9
12	8.3	12	7.7	5.7	4.9	5.2	9.5	38	26	12	5.5	4.9
13	8.7	9.0	7.8	5.5	4.7	5.7	10	42	26	12	5.8	4.9
14	9.3	9.7	9.9	5.3	5.7	6.4	12	40	32	12	5.6	4.8
15	8.8	12	9.1	5.2	4.8	5.9	14	32	31	12	5.8	4.8
16	8.5	14	8.6	5.2	4.3	5.7	16	25	30	11	5.5	4.8
17	8.7	18	8.4	4.8	3.9	5.9	16	22	32	11	5.3	4.7
18	8.0	12	7.4	4.5	4.2	5.9	11	25	32	11	5.2	4.7
19	7.9	13	7.0	4.8	4.3	6.2	13	31	32	11	5.2	5.3
20	7.7	12	6.7	5.0	4.4	7.2	12	38	31	11	5.2	5.0
21	7.3	10	6.3	4.8	4.5	7.5	11	41	29	10	5.4	4.9
22	7.1	7.8	5.9	4.7	4.5	7.2	12	44	27	10	5.4	4.8
23	8.2	9.0	6.3	4.6	4.4	7.2	14	52	27	11	5.2	4.7
24	7.7	14	9.6	4.8	4.3	8.0	15	49	26	12	5.1	4.7
25	7.2	11	12	4.8	4.1	8.1	15	47	25	11	5.2	4.7
26	7.1	6.6	9.8	4.7	4.0	8.9	13	47	24	9.9	5.1	4.7
27	6.9	7.4	8.0	4.6	3.9	8.3	12	47	22	9.4	5.0	4.7
28	6.9	7.9	6.0	4.7	4.1	8.3	12	48	22	9.2	4.9	4.8
29	7.0	8.0	6.6	4.5	4.0	8.1	11	55	22	9.0	4.9	4.8
30	11	8.0	9.8	4.6	---	8.0	11	58	22	9.1	5.1	5.1
31	16	---	7.2	4.8	---	8.3	---	48	---	9.0	5.2	---
TOTAL	282.0	319.6	241.5	166.6	130.8	196.5	338.6	1038	865	404.6	173.5	146.0
MEAN	9.10	10.7	7.79	5.37	4.51	6.34	11.3	33.5	28.8	13.1	5.60	4.87
MAX	16	18	12	6.6	5.7	8.9	16	58	41	21	9.0	5.3
MIN	6.9	6.6	5.9	4.5	3.9	4.3	8.0	11	22	9.0	4.9	4.7
AC-FT	559	634	479	330	259	390	672	2060	1720	803	344	290

CAL YR 1983	TOTAL	5413.1	MEAN	14.8	MAX	67	MIN	3.6	AC-FT	10740
WTR YR 1984	TOTAL	4302.7	MEAN	11.8	MAX	58	MIN	3.9	AC-FT	8530

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1975, 1978 to current year.
WATER TEMPERATURES: Water years 1980 to current year.
SEDIMENT RECORDS: Water years 1980 to current year.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS: January 1980 to current year.

COOPERATION.--Selected sediment samples and water temperature observations furnished by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 800 mg/L June 18, 1980; minimum daily mean, 0 mg/L on several days during October 1980 and December 8, 1981.
SEDIMENT DISCHARGE: Maximum daily, 183 tons June 19, 1982; minimum daily, 0 ton on many days during October 1980 and December 8, 1981.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 139 mg/L May 23; minimum daily mean, 1 mg/L July 28 to Aug. 12.
SEDIMENT DISCHARGE: Maximum daily, 23 tons May 23; minimum daily, 0.01 ton Aug. 7-10, 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.5	---	---	---	---	---	---	4.5	---	---	---
2	---	7.5	---	---	---	---	---	5.0	9.5	10.0	---	---
3	---	---	---	---	---	---	---	9.0	6.0	---	11.0	---
4	---	7.0	---	---	---	---	---	4.0	6.0	---	---	---
5	---	---	---	---	---	---	---	6.5	---	---	---	11.5
6	7.0	---	---	---	---	---	---	---	5.0	16.5	---	---
7	---	---	3.0	---	4.5	---	---	4.0	13.5	---	---	---
8	---	---	---	---	---	6.5	---	3.5	---	---	---	---
9	---	4.0	---	4.0	---	---	3.5	7.5	---	---	---	---
10	---	5.0	---	---	---	---	---	3.0	4.5	---	---	---
11	---	4.5	---	---	---	---	---	3.0	5.5	---	---	---
12	---	4.0	---	---	---	---	7.0	4.5	8.5	13.0	---	---
13	7.0	---	3.5	---	---	3.0	10.0	4.0	10.0	---	---	---
14	---	---	---	---	---	---	---	7.0	6.0	---	---	11.0
15	---	---	---	---	---	4.0	5.0	2.0	---	---	---	---
16	---	---	---	---	---	---	6.0	3.5	6.0	---	---	---
17	---	0.0	---	---	---	---	5.5	6.5	---	---	---	---
18	---	---	---	---	---	---	---	4.0	7.5	---	---	---
19	---	3.0	3.0	---	---	---	5.0	4.5	---	---	---	13.0
20	---	---	---	---	---	---	---	9.0	11.0	---	11.0	10.5
21	---	---	---	---	---	---	---	3.5	---	---	12.0	---
22	---	---	---	---	0.0	---	9.0	3.5	9.5	---	---	---
23	---	---	---	---	---	---	5.0	5.0	---	---	---	---
24	---	3.0	---	---	---	---	3.5	4.0	14.0	16.5	11.0	---
25	9.0	---	---	---	---	---	2.0	8.0	6.5	---	---	---
26	---	---	---	1.0	---	6.0	0.5	4.0	---	---	---	---
27	---	---	2.0	---	---	---	4.5	8.0	11.5	---	---	---
28	---	2.0	---	---	2.5	---	---	---	---	---	---	---
29	---	---	---	---	---	---	7.0	7.0	13.0	---	---	---
30	7.0	---	3.5	---	---	---	5.0	5.0	---	---	---	8.5
31	6.5	---	4.0	---	---	---	---	9.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	14	14	.53	13	7	.25	8.0	4	.09
2	12	7	.23	11	4	.12	7.5	4	.08
3	11	2	.06	10	3	.08	7.1	3	.06
4	9.5	2	.05	9.8	2	.05	6.8	3	.06
5	8.5	2	.05	8.8	2	.05	6.4	3	.05
6	8.5	2	.05	8.6	3	.07	7.0	3	.06
7	11	12	.73	9.3	6	.15	7.2	3	.06
8	12	10	.32	7.8	5	.11	7.4	3	.06
9	9.8	4	.11	9.9	13	.35	7.8	3	.06
10	8.9	4	.10	13	17	.60	7.7	3	.06
11	8.5	4	.09	17	47	4.1	8.5	4	.09
12	8.3	4	.09	12	15	.68	7.7	4	.08
13	8.7	5	.12	9.0	5	.12	7.8	4	.08
14	9.3	5	.13	9.7	7	.18	9.9	4	.11
15	8.8	5	.12	12	12	.58	9.1	4	.10
16	8.5	5	.11	14	12	.45	8.6	4	.09
17	8.7	5	.12	18	49	3.2	8.4	4	.09
18	8.0	4	.09	12	8	.26	7.4	4	.08
19	7.9	3	.06	13	16	.56	7.0	4	.08
20	7.7	2	.04	12	10	.32	6.7	4	.07
21	7.3	2	.04	10	9	.24	6.3	4	.07
22	7.1	2	.04	7.8	8	.17	5.9	4	.06
23	8.2	5	.11	9.0	6	.15	6.3	4	.07
24	7.7	2	.04	14	28	1.3	9.6	32	.83
25	7.2	2	.04	11	6	.18	12	27	.87
26	7.1	2	.04	6.6	6	.11	9.8	11	.29
27	6.9	2	.04	7.4	5	.10	8.0	7	.15
28	6.9	2	.04	7.9	4	.09	6.0	6	.10
29	7.0	2	.04	8.0	4	.09	6.6	5	.09
30	11	17	.50	8.0	4	.09	9.8	24	.64
31	16	33	2.3	---	---	---	7.2	8	.16
TOTAL	282.0	---	6.43	319.6	---	14.80	241.5	---	4.84

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)
		JANUARY			FEBRUARY			MARCH	
1	6.4	8	.14	4.8	4	.05	4.3	4	.05
2	5.9	8	.13	4.6	5	.06	4.5	4	.05
3	5.9	8	.13	4.6	5	.06	4.7	4	.05
4	6.4	8	.14	4.6	5	.06	4.5	4	.05
5	6.6	8	.14	4.8	5	.06	4.6	4	.05
6	6.6	8	.14	4.8	5	.06	4.8	4	.05
7	6.6	8	.14	4.8	5	.06	5.1	8	.11
8	6.4	8	.14	4.6	5	.06	5.3	7	.10
9	6.4	8	.14	4.8	5	.06	5.5	6	.09
10	5.9	8	.13	4.8	5	.06	5.7	7	.11
11	5.9	8	.13	4.6	5	.06	5.5	6	.09
12	5.7	7	.11	4.9	5	.07	5.2	5	.07
13	5.5	7	.10	4.7	5	.06	5.7	37	.57
14	5.3	7	.10	5.7	5	.08	6.4	32	.55
15	5.2	7	.10	4.8	5	.06	5.9	18	.29
16	5.2	6	.08	4.3	5	.06	5.7	10	.15
17	4.8	6	.08	3.9	5	.05	5.9	13	.21
18	4.5	6	.07	4.2	5	.06	5.9	14	.22
19	4.8	6	.08	4.3	5	.06	6.2	14	.23
20	5.0	5	.07	4.4	5	.06	7.2	15	.29
21	4.8	5	.06	4.5	5	.06	7.5	13	.26
22	4.7	5	.06	4.5	11	.13	7.2	12	.23
23	4.6	5	.06	4.4	5	.06	7.2	12	.23
24	4.8	4	.05	4.3	5	.06	8.0	12	.26
25	4.8	4	.05	4.1	5	.06	8.1	12	.26
26	4.7	4	.05	4.0	4	.04	8.9	11	.26
27	4.6	4	.05	3.9	4	.04	8.3	11	.25
28	4.7	4	.05	4.1	4	.04	8.3	11	.25
29	4.5	4	.05	4.0	4	.04	8.1	11	.24
30	4.6	4	.05	---	---	---	8.0	11	.24
31	4.8	4	.05	---	---	---	8.3	10	.22
TOTAL	166.6	---	2.87	130.8	---	1.74	196.5	---	6.08

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
		APRIL			MAY			JUNE	
1	8.0	10	.22	12	6	.19	41	47	5.2
2	8.0	10	.22	11	7	.21	40	43	4.6
3	8.3	10	.22	13	20	.70	37	34	3.4
4	8.6	10	.23	15	20	.81	37	30	3.0
5	8.9	10	.24	15	15	.61	32	22	1.9
6	8.9	10	.24	15	19	.77	30	14	1.1
7	9.3	11	.28	18	28	1.4	28	14	1.1
8	10	12	.32	21	43	2.4	26	12	.84
9	9.5	14	.36	24	60	3.9	25	12	.81
10	9.8	10	.26	29	75	5.9	25	11	.74
11	9.8	9	.24	36	88	9.7	26	10	.70
12	9.5	6	.15	38	97	11	26	13	.91
13	10	10	.27	42	113	14	26	13	.91
14	12	18	.58	40	72	7.8	32	22	1.9
15	14	29	1.1	32	37	3.2	31	18	1.5
16	16	37	1.6	25	19	1.3	30	16	1.3
17	16	15	.65	22	16	.95	32	17	1.5
18	11	15	.45	25	29	2.0	32	17	1.5
19	13	12	.42	31	47	3.9	32	18	1.6
20	12	10	.32	38	73	7.5	31	14	1.2
21	11	10	.30	41	74	8.2	29	13	1.0
22	12	11	.36	44	101	13	27	14	1.0
23	14	12	.45	52	139	23	27	13	.95
24	15	13	.53	49	83	11	26	13	.91
25	15	10	.41	47	68	8.6	25	8	.54
26	13	9	.32	47	66	8.4	24	7	.45
27	12	8	.26	47	61	7.7	22	9	.53
28	12	8	.26	48	77	10	22	7	.42
29	11	8	.24	55	126	21	22	8	.48
30	11	5	.15	58	119	19	22	9	.53
31	---	---	---	48	64	8.3	---	---	---
TOTAL	338.6	---	11.65	1038	---	216.44	865	---	42.52

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)
		JULY			AUGUST			SEPTEMBER	
1	21	8	.45	9.0	1	.02	5.0	4	.05
2	20	8	.43	8.2	1	.02	4.9	4	.05
3	20	8	.43	6.3	1	.02	4.8	4	.05
4	20	7	.38	6.0	1	.02	4.9	5	.07
5	18	7	.34	5.8	1	.02	5.2	5	.07
6	18	7	.34	5.6	1	.02	5.0	5	.07
7	17	7	.32	5.4	1	.01	5.0	4	.05
8	16	6	.26	5.3	1	.01	4.9	4	.05
9	15	6	.24	5.2	1	.01	4.8	3	.04
10	14	6	.23	5.5	1	.01	4.8	3	.04
11	13	5	.18	5.6	1	.02	4.9	3	.04
12	12	5	.16	5.5	1	.01	4.9	2	.03
13	12	5	.16	5.8	2	.03	4.9	2	.03
14	12	5	.16	5.6	2	.03	4.8	2	.03
15	12	5	.16	5.8	2	.03	4.8	2	.03
16	11	5	.15	5.5	2	.03	4.8	2	.03
17	11	5	.15	5.3	2	.03	4.7	2	.03
18	11	5	.15	5.2	2	.03	4.7	2	.03
19	11	5	.15	5.2	2	.03	5.3	98	1.7
20	11	5	.15	5.2	2	.03	5.0	6	.08
21	10	5	.14	5.4	2	.03	4.9	2	.03
22	10	5	.14	5.4	2	.03	4.8	2	.03
23	11	12	.36	5.2	3	.04	4.7	2	.03
24	12	14	.45	5.1	3	.04	4.7	2	.03
25	11	3	.09	5.2	3	.04	4.7	2	.03
26	9.9	2	.05	5.1	3	.04	4.7	2	.03
27	9.4	2	.05	5.0	3	.04	4.7	2	.03
28	9.2	1	.02	4.9	3	.04	4.8	2	.03
29	9.0	1	.02	4.9	3	.04	4.8	2	.03
30	9.1	1	.02	5.1	4	.06	5.1	7	.10
31	9.0	1	.02	5.2	4	.06	---	---	---
TOTAL	404.6	---	6.35	173.5	---	0.89	146.0	---	2.94

10336698 THIRD CREEK NEAR CRYSTAL BAY NV--Continued

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR											
13...	1820	7.2	1.0	87	1.7	86	--	--	--	--	--
MAY											
09...	1855	32	5.0	158	14	39	--	--	--	--	--
23...	1900	78	5.0	384	81	26	--	--	--	--	--
29...	1910	78	7.0	315	66	29	41	57	74	92	100
SEPT.											
19...	1545	8.3	13.0	904	20	80	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
APR								
30...	1210	5.0	1	11	2	6	19	42
30...	1215	5.0	1	11	--	1	4	10
30...	1220	5.0	1	11	--	2	14	36
30...	1225	5.0	1	11	--	2	12	40
30...	1230	5.0	1	11	8	27	71	95

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
APR						
30...	69	91	99	100	--	--
30...	25	72	98	99	100	--
30...	51	69	86	95	98	100
30...	76	92	99	99	100	--
30...	99	100	--	--	--	--

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54 15", in SW¼SE¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft upstream from left side of dam, and 7.5 mi west of Carson City.

DRAINAGE AREA.--2.86 mi^2.

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

REVISED RECORDS.--WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (spillway altitude furnished in written communication from Walter Reid, 1971).

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 altitude in 1959. Present capacity, 11,780 acre-ft at spillway altitude 7,838.0 ft. Figures given herein represent total contents. Stored water is used for spawning Cutthroat Trout 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,220 acre-ft June 18-20, 1983, altitude, 7,839.01 ft; minimum, 10,970 acre-ft Nov. 10-13, 1976, altitude, 7,835.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,060 acre-ft Nov. 20 to Dec. 3, altitude, 7,838.65 ft; minimum, 11,750 acre-ft Sept. 25, 30; altitude, 7837.91 ft.

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

7,836	11,030	7,838	11,790
7,837	11,410	7,839	12,220

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11900	11880	12060	11970	11870	11900	11880	11920	11990	11900	11830	11770
2	11910	11890	12060	11960	11870	11900	11880	11920	11980	11900	11830	11780
3	11910	11890	12060	11950	11870	11890	11880	11930	11980	11890	11820	11780
4	11900	11890	12050	11940	11870	11890	11880	11930	11970	11890	11820	11780
5	11900	11890	12050	11930	11870	11880	11880	11940	11970	11890	11820	11770
6	11900	11890	12040	11920	11870	11880	11880	11940	11960	11880	11810	11770
7	11890	11880	12040	11930	11860	11880	11890	11940	11970	11880	11810	11770
8	11890	11880	12030	11910	11860	11870	11890	11950	11970	11870	11810	11770
9	11880	11880	12030	11910	11860	11870	11890	11960	11960	11860	11810	11770
10	11870	11900	12030	11900	11870	11870	11900	11970	11950	11860	11810	11770
11	11870	11980	12020	11900	11880	11870	11900	11980	11950	11860	11810	11770
12	11860	12000	12020	11900	11890	11880	11900	12000	11950	11860	11800	11770
13	11860	12000	12010	11900	11900	11880	11900	12010	11950	11860	11800	11770
14	11850	12000	12000	11900	11900	11880	11900	12020	11950	11860	11800	11770
15	11850	12010	11990	11900	11910	11890	11910	12020	11980	11850	11800	11770
16	11840	12030	11990	11900	11920	11890	11910	12030	11980	11850	11800	11770
17	11840	12030	11980	11900	11920	11890	11930	12020	11980	11850	11800	11770
18	11830	12040	11970	11900	11920	11890	11940	12030	11980	11850	11800	11770
19	11830	12050	11970	11900	11920	11890	11950	12030	11970	11850	11800	11770
20	11830	12060	11960	11900	11920	11890	11950	12030	11960	11850	11790	11780
21	11830	12060	11950	11890	11920	11890	11940	12030	11960	11850	11790	11780
22	11830	12060	11960	11890	11920	11890	11940	12030	11940	11840	11790	11770
23	11830	12060	11970	11890	11920	11890	11940	12030	11940	11840	11790	11770
24	11830	12060	11980	11890	11920	11890	11940	12030	11940	11860	11780	11760
25	11830	12060	11980	11880	11920	11890	11930	12030	11930	11860	11780	11750
26	11830	12060	11990	11880	11910	11890	11930	12030	11930	11860	11780	11760
27	11830	12060	11990	11880	11910	11880	11930	12020	11920	11850	11780	11760
28	11830	12060	11990	11880	11900	11880	11930	12020	11920	11850	11780	11760
29	11830	12060	11980	11880	11900	11880	11930	12010	11910	11850	11780	11760
30	11850	12060	11980	11870	---	11880	11930	12000	11900	11840	11780	11750
31	11880	---	11970	11870	---	11880	---	12000	---	11840	11780	---
MAX	11910	12060	12060	11970	11920	11900	11950	12030	11990	11900	11830	11780
MIN	11830	11880	11950	11870	11860	11870	11880	11920	11900	11840	11780	11750
†	7838.22	7838.64	7838.44	7838.21	7838.27	7838.22	7838.33	7838.49	7838.27	7838.11	7837.97	7837.92
‡	-20	+180	-90	-100	+30	-20	+50	+70	-100	-60	-60	-30

CAL YR 1983 MAX 12220 MIN 11790 ‡ +30
WTR YR 1984 MAX 12060 MIN 11750 ‡ -150

† Altitude, in feet NGVD, at end of month.
‡ Change in contents, in acre feet.

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE¼SW¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank about 300 ft below dam on Marlette Lake, 0.7 mi upstream from Marlette Reservoir, and 7 mi west of Carson City.

DRAINAGE AREA.--2.86 mi^2.

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

REVISED RECORDS.--WDR NV-80-1.

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Marlette Lake. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--11 years, 2.79 ft^3/s, 2,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft^3/s June 22, 1983, gage height, 3.00 ft; no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s Nov. 24, gage height, 2.64 ft; minimum daily, 0.01 ft^3/s Sept. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.8	11	9.7	3.4	4.0	4.2	7.9	5.9	4.4	1.4	.09
2	5.4	5.6	10	8.8	3.3	3.8	4.1	7.8	5.4	4.2	1.2	.04
3	5.4	5.2	13	8.0	3.0	3.7	3.9	8.2	5.3	3.9	1.2	.04
4	5.1	5.0	13	7.4	2.8	3.7	3.8	7.7	6.0	3.6	1.2	.04
5	4.9	4.6	12	6.8	2.8	3.4	4.2	7.5	6.0	3.5	1.1	.04
6	4.8	5.2	11	6.4	2.7	3.3	4.4	7.3	6.5	3.3	.94	.03
7	4.6	5.3	9.7	6.0	2.7	3.2	4.3	6.4	6.0	3.2	.87	.03
8	4.5	4.2	8.6	5.6	2.8	3.1	4.9	6.3	5.8	3.0	.84	.03
9	3.7	4.0	8.9	5.3	3.2	3.0	5.4	7.1	6.0	2.6	.80	.03
10	3.9	4.6	11	5.3	4.0	3.0	5.9	7.7	5.6	2.5	.73	.02
11	3.7	8.7	13	5.2	3.8	3.1	5.3	8.6	5.2	2.4	.72	.02
12	3.5	9.1	13	4.9	4.0	3.0	5.1	9.0	5.2	2.2	.63	.02
13	3.4	11	11	4.9	4.1	3.2	4.8	9.0	4.7	2.2	.57	.03
14	3.4	12	9.9	5.1	6.0	4.1	4.7	8.0	3.6	2.0	.57	.03
15	3.2	11	9.4	4.9	7.4	5.0	4.9	8.7	4.7	1.9	.56	.01
16	3.1	10	8.6	5.2	10	5.0	5.2	8.8	4.7	2.0	.55	.03
17	2.9	19	9.5	5.0	9.5	5.5	6.5	8.6	4.8	1.9	.53	.05
18	2.9	20	8.6	4.8	8.6	5.0	7.3	8.6	5.3	2.0	.49	.08
19	2.8	18	8.2	4.6	7.8	4.7	8.5	8.4	5.2	2.0	.40	.05
20	2.8	21	7.8	4.4	7.1	4.8	8.3	9.2	6.3	2.0	.37	.23
21	2.8	21	7.6	4.4	7.6	4.7	7.7	9.0	7.2	1.9	.36	.22
22	2.7	18	7.1	4.4	7.2	4.3	7.5	8.5	6.8	1.6	.36	.21
23	2.8	18	6.9	4.1	6.5	4.1	7.5	9.0	6.3	1.9	.33	.20
24	2.7	21	6.7	3.9	6.6	4.0	7.8	8.8	6.1	2.3	.31	.19
25	2.5	23	6.6	3.9	5.5	4.0	7.4	8.7	6.0	2.1	.19	.18
26	2.6	20	7.3	3.7	5.0	3.9	7.5	8.6	6.1	2.1	.16	.19
27	2.5	17	8.6	2.8	4.7	3.9	7.4	8.2	5.9	1.9	.17	.16
28	2.5	15	10	3.6	4.4	3.9	7.4	7.4	5.7	1.8	.09	.17
29	2.5	13	11	3.4	4.2	3.8	7.5	7.3	5.2	1.6	.10	.17
30	3.2	12	11	3.2	---	3.8	7.4	6.9	4.7	1.6	.10	.31
31	4.4	---	11	3.2	---	3.9	---	6.4	---	1.5	.10	---
TOTAL	110.1	367.3	301.0	158.9	150.7	121.9	180.8	249.6	168.2	75.1	17.94	2.94
MEAN	3.55	12.2	9.71	5.13	5.20	3.93	6.03	8.05	5.61	2.42	.58	.10
MAX	5.4	23	13	9.7	10	5.5	8.5	9.2	7.2	4.4	1.4	.31
MIN	2.5	4.0	6.6	2.8	2.7	3.0	3.8	6.3	3.6	1.5	.09	.01

CAL YR 1983	TOTAL	3450.23	MEAN	9.45	MAX	41	MIN	.25
WTR YR 1984	TOTAL	1904.48	MEAN	5.20	MAX	23	MIN	.01

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

LOCATION.--Lat 39°04'00", long 119°56'04", in NW 1/4 NW 1/4 sec.23, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on right bank 0.1 mi downstream from unnamed tributary, 0.3 mi upstream from U.S. Highway 50, and 1.6 mi south of Glenbrook.

DRAINAGE AREA.--2.08 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft, from topographic map.

REMARKS.--Records fair. One small diversion for domestic use 50 ft upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0545	3.0	4.45	May 10	1715	*3.7	4.50
Apr. 16	1715	3.4	4.48	June 14	2115	3.0	4.45

Minimum daily, 0.39 ft^3/s Aug. 16-19, 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.6	1.4	1.6	1.1	.94	1.5	1.9	1.6	.65	.58	.50
2	1.3	1.3	1.4	1.6	1.1	.94	1.3	2.0	1.4	.62	.58	.49
3	1.0	1.2	1.4	1.5	1.0	.94	1.3	2.7	1.3	.62	.54	.46
4	1.0	1.2	1.4	1.4	1.0	.94	1.5	2.8	1.4	.62	.51	.48
5	1.0	1.1	1.4	1.4	1.0	.94	1.4	2.7	1.3	.64	.49	.47
6	1.0	1.1	1.4	1.4	1.0	.94	1.4	2.6	1.3	.64	.47	.49
7	1.0	1.1	1.4	1.4	1.0	.94	1.5	2.7	1.2	.60	.48	.48
8	1.1	1.1	1.4	1.4	1.0	.95	1.6	3.0	1.2	.55	.44	.49
9	1.0	1.1	1.4	1.4	1.0	1.0	1.4	3.1	1.1	.61	.44	.46
10	1.0	1.2	1.4	1.4	1.0	1.0	1.4	3.3	1.1	.61	.45	.47
11	1.0	2.2	1.4	1.4	1.0	1.0	1.3	3.4	1.3	.59	.45	.49
12	1.0	1.6	1.4	1.3	1.0	1.0	1.4	3.3	1.3	.59	.41	.46
13	1.0	1.3	1.4	1.3	1.0	1.0	1.7	3.2	1.2	.55	.42	.47
14	1.0	1.3	1.4	1.3	1.0	1.0	2.2	3.0	1.5	.58	.41	.48
15	1.1	1.3	1.5	1.2	1.0	1.0	2.6	2.9	1.8	.57	.40	.49
16	1.0	1.4	1.5	1.2	1.0	1.0	2.8	2.7	1.4	.59	.39	.48
17	1.0	1.8	1.5	1.2	1.0	1.0	2.8	2.5	1.4	.59	.39	.46
18	1.0	1.7	1.4	1.2	1.0	1.0	2.4	2.4	1.2	.66	.39	.48
19	1.0	1.8	1.4	1.1	1.0	1.0	2.1	2.3	1.1	.58	.39	.55
20	1.0	2.1	1.4	1.1	1.0	1.2	1.9	2.3	1.1	.57	.41	.63
21	1.0	1.6	1.3	1.1	1.0	1.4	1.8	2.3	.96	.59	.43	.58
22	.97	1.6	1.3	1.1	1.0	1.3	2.0	2.2	.85	.56	.43	.52
23	1.1	1.5	1.3	1.1	1.0	1.3	2.3	2.0	.75	.65	.53	.49
24	1.1	1.9	1.5	1.1	1.0	1.4	2.5	1.9	.72	.69	.39	.49
25	1.0	1.8	2.2	1.1	1.0	1.6	2.3	1.7	.70	.63	.40	.49
26	1.0	1.6	2.1	1.1	.98	1.7	1.9	1.5	.71	.58	.45	.49
27	1.0	1.5	1.8	1.1	.94	1.7	1.8	1.4	.66	.53	.46	.49
28	1.0	1.5	1.6	1.1	.94	1.7	1.7	1.4	.64	.62	.47	.49
29	1.0	1.5	1.6	1.1	.94	1.6	1.8	1.5	.64	.57	.46	.49
30	1.1	1.5	1.6	1.1	---	1.5	2.0	1.6	.66	.55	.49	.51
31	1.5	---	1.6	1.1	---	1.5	---	1.3	---	.63	.52	---
TOTAL	32.37	44.5	46.2	38.9	29.00	36.43	55.6	73.6	33.49	18.63	14.07	14.82
MEAN	1.04	1.48	1.49	1.25	1.00	1.18	1.85	2.37	1.12	.60	.45	.49
MAX	1.5	2.2	2.2	1.6	1.1	1.7	2.8	3.4	1.8	.69	.58	.63
MIN	.97	1.1	1.3	1.1	.94	.94	1.3	1.3	.64	.53	.39	.46
AC-FT	64	88	92	77	58	72	110	146	66	37	28	29

WTR YR 1984 TOTAL 437.61 MEAN 1.20 MAX 3.4 MIN .39 AC-FT 868

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1984.
WATER TEMPERATURES: October 1983 to September 1984.
SEDIMENT RECORDS: October 1983 to September 1984.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS: October 1983 to September 1984.

REMARKS.--Sediment record for October to April considered poor because of insuficient samples.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 23 mg/L Nov. 11; minimum daily mean, 0 mg/L on several days in November.
SEDIMENT DISCHARGE: Maximum daily, .16 tons Nov. 11; minimum daily, 0 ton on many days.

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

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

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.1	2	.01	1.6	2	.01	1.4	1	.00
2	1.3	2	.01	1.3	1	.00	1.4	1	.00
3	1.0	2	.01	1.2	1	.00	1.4	1	.00
4	1.0	2	.01	1.2	1	.00	1.4	1	.00
5	1.0	2	.01	1.1	0	.00	1.4	1	.00
6	1.0	2	.01	1.1	0	.00	1.4	1	.00
7	1.0	2	.01	1.1	0	.00	1.4	1	.00
8	1.1	2	.01	1.1	0	.00	1.4	1	.00
9	1.0	2	.01	1.1	0	.00	1.4	1	.00
10	1.0	2	.01	1.2	2	.01	1.4	1	.00
11	1.0	2	.01	2.2	23	.16	1.4	1	.00
12	1.0	2	.01	1.6	3	.01	1.4	1	.00
13	1.0	2	.01	1.3	2	.01	1.4	1	.00
14	1.0	2	.01	1.3	1	.00	1.4	1	.00
15	1.1	2	.01	1.3	1	.00	1.5	1	.00
16	1.0	2	.01	1.4	2	.01	1.5	1	.00
17	1.0	2	.01	1.8	8	.04	1.5	1	.00
18	1.0	2	.01	1.7	2	.01	1.4	1	.00
19	1.0	2	.01	1.8	8	.05	1.4	1	.00
20	1.0	2	.01	2.1	5	.03	1.4	1	.00
21	1.0	2	.01	1.6	1	.00	1.3	1	.00
22	.97	2	.01	1.6	1	.00	1.3	1	.00
23	1.1	2	.01	1.5	1	.00	1.3	1	.00
24	1.1	2	.01	1.9	1	.01	1.5	5	.03
25	1.0	2	.01	1.8	1	.00	2.2	11	.07
26	1.0	1	.00	1.6	1	.00	2.1	3	.02
27	1.0	1	.00	1.5	1	.00	1.8	2	.01
28	1.0	1	.00	1.5	1	.00	1.6	1	.00
29	1.0	1	.00	1.5	1	.00	1.6	1	.00
30	1.1	1	.00	1.5	1	.00	1.6	1	.00
31	1.5	8	.04	---	---	---	1.6	1	.00
TOTAL	32.37	---	0.29	44.5	---	0.35	46.2	---	0.13

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)
		JANUARY			FEBRUARY			MARCH	
1	1.6	1	.00	1.1	2	.01	.94	1	.00
2	1.6	1	.00	1.1	2	.01	.94	1	.00
3	1.5	1	.00	1.0	2	.01	.94	1	.00
4	1.4	1	.00	1.0	2	.01	.94	1	.00
5	1.4	1	.00	1.0	2	.01	.94	1	.00
6	1.4	1	.00	1.0	2	.01	.94	2	.01
7	1.4	1	.00	1.0	2	.01	.94	2	.01
8	1.4	1	.00	1.0	2	.01	.95	2	.01
9	1.4	1	.00	1.0	2	.01	1.0	2	.01
10	1.4	1	.00	1.0	2	.01	1.0	2	.01
11	1.4	1	.00	1.0	2	.01	1.0	2	.01
12	1.3	1	.00	1.0	2	.01	1.0	2	.01
13	1.3	1	.00	1.0	2	.01	1.0	2	.01
14	1.3	1	.00	1.0	2	.01	1.0	2	.01
15	1.2	1	.00	1.0	2	.01	1.0	2	.01
16	1.2	1	.00	1.0	2	.01	1.0	2	.01
17	1.2	1	.00	1.0	2	.01	1.0	2	.01
18	1.2	1	.00	1.0	2	.01	1.0	2	.01
19	1.1	1	.00	1.0	2	.01	1.0	2	.01
20	1.1	1	.00	1.0	2	.01	1.2	2	.01
21	1.1	1	.00	1.0	2	.01	1.4	2	.01
22	1.1	1	.00	1.0	2	.01	1.3	2	.01
23	1.1	1	.00	1.0	1	.00	1.3	2	.01
24	1.1	1	.00	1.0	1	.00	1.4	2	.01
25	1.1	1	.00	1.0	1	.00	1.6	2	.01
26	1.1	1	.00	.98	1	.00	1.7	2	.01
27	1.1	1	.00	.94	1	.00	1.7	2	.01
28	1.1	1	.00	.94	1	.00	1.7	2	.01
29	1.1	2	.01	.94	1	.00	1.6	2	.01
30	1.1	2	.01	---	---	---	1.5	2	.01
31	1.1	2	.01	---	---	---	1.5	2	.01
TOTAL	38.9	---	0.03	29.00	---	0.22	36.43	---	0.26

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
		APRIL			MAY			JUNE	
1	1.5	2	.01	1.9	3	.02	1.6	5	.02
2	1.3	3	.01	2.0	3	.02	1.4	3	.01
3	1.3	3	.01	2.7	4	.03	1.3	3	.01
4	1.5	3	.01	2.8	4	.03	1.4	6	.02
5	1.4	3	.01	2.7	5	.04	1.3	5	.02
6	1.4	3	.01	2.6	3	.02	1.3	5	.02
7	1.5	3	.01	2.7	5	.04	1.2	4	.01
8	1.6	3	.01	3.0	7	.06	1.2	4	.01
9	1.4	3	.01	3.1	8	.07	1.1	4	.01
10	1.4	3	.01	3.3	10	.09	1.1	4	.01
11	1.3	3	.01	3.4	13	.12	1.3	4	.01
12	1.4	3	.01	3.3	8	.07	1.3	4	.01
13	1.7	4	.02	3.2	6	.05	1.2	7	.02
14	2.2	4	.02	3.0	4	.03	1.5	8	.04
15	2.6	4	.03	2.9	4	.03	1.8	8	.04
16	2.8	4	.03	2.7	2	.01	1.4	5	.02
17	2.8	3	.02	2.5	3	.02	1.4	5	.02
18	2.4	2	.01	2.4	5	.03	1.2	5	.02
19	2.1	2	.01	2.3	3	.02	1.1	4	.01
20	1.9	2	.01	2.3	4	.02	1.1	4	.01
21	1.8	2	.01	2.3	5	.03	.96	4	.01
22	2.0	3	.02	2.2	3	.02	.85	5	.01
23	2.3	6	.04	2.0	4	.02	.75	6	.01
24	2.5	5	.03	1.9	3	.02	.72	6	.01
25	2.3	3	.02	1.7	3	.01	.70	5	.01
26	1.9	3	.02	1.5	4	.02	.71	4	.01
27	1.8	3	.01	1.4	3	.01	.66	4	.01
28	1.7	3	.01	1.4	3	.01	.64	4	.01
29	1.8	3	.01	1.5	3	.01	.64	4	.01
30	2.0	3	.02	1.6	3	.01	.66	4	.01
31	---	---	---	1.3	3	.01	---	---	---
TOTAL	55.6	---	0.46	73.6	---	0.99	33.49	---	0.44

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)
		JULY			AUGUST			SEPTEMBER	
1	.65	4	.01	.58	9	.01	.50	5	.01
2	.62	4	.01	.58	8	.01	.49	5	.01
3	.62	5	.01	.54	7	.01	.46	5	.01
4	.62	6	.01	.51	6	.01	.48	5	.01
5	.64	7	.01	.49	6	.01	.47	5	.01
6	.64	7	.01	.47	6	.01	.49	4	.01
7	.60	7	.01	.48	5	.01	.48	4	.01
8	.55	8	.01	.44	5	.01	.49	4	.01
9	.61	8	.01	.44	5	.01	.46	4	.00
10	.61	8	.01	.45	5	.01	.47	4	.01
11	.59	8	.01	.45	5	.01	.49	4	.01
12	.59	8	.01	.41	5	.01	.46	6	.01
13	.55	8	.01	.42	5	.01	.47	8	.01
14	.58	8	.01	.41	6	.01	.48	10	.01
15	.57	8	.01	.40	6	.01	.49	8	.01
16	.59	12	.02	.39	6	.01	.48	6	.01
17	.59	15	.02	.39	6	.01	.46	6	.01
18	.66	15	.03	.39	6	.01	.48	6	.01
19	.58	15	.02	.39	6	.01	.55	7	.01
20	.57	14	.02	.41	6	.01	.63	7	.01
21	.59	14	.02	.43	10	.01	.58	5	.01
22	.56	14	.02	.43	8	.01	.52	5	.01
23	.65	14	.02	.53	4	.01	.49	5	.01
24	.69	14	.03	.39	4	.00	.49	5	.01
25	.63	13	.02	.40	5	.01	.49	5	.01
26	.58	12	.02	.45	5	.01	.49	5	.01
27	.53	11	.02	.46	5	.01	.49	5	.01
28	.62	11	.02	.47	5	.01	.49	5	.01
29	.57	11	.02	.46	5	.01	.49	5	.01
30	.55	11	.02	.49	5	.01	.51	6	.01
31	.63	10	.02	.52	5	.01	---	---	---
TOTAL	18.63	---	0.49	14.07	---	0.30	14.82	---	0.29
YEAR	437.61		4.25						

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY						
10...	1715	3.6	8.5	25	.24	51

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
APR							
30...	1435	4.0	1	1.9	1	3	11
30...	1440	4.0	1	1.9	--	1	1

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
APR							
30...	23	34	52	79	97	100	--
30...	2	4	8	14	28	56	100

10336759 EDGEWOOD CREEK NEAR STATELINE, NV

LOCATION.--Lat 38°57'50", long 119°55'24", in SW 1/4 NE 1/4 sec.26, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank 0.1 mi upstream from unnamed tributary, 0.9 mi upstream from U.S. Highway 50, and 1.1 mi northeast of Stateline.

DRAINAGE AREA.--3.20 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft, from topographic map.

REMARKS.--Records good. No known diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24 ft^3/s May 27, 1983, gage height, 2.41 ft; minimum daily, 1.5 ft^3/s Sept. 6, 9, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 11	0615	*16	2.05
June 14	2030	15	1.98

Minimum daily, 1.5 ft^3/s Sept. 6, 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.2	4.1	5.1	3.9	4.0	4.3	4.4	3.1	2.4	1.8	1.7
2	5.0	3.6	4.1	5.0	3.8	4.1	4.3	4.5	3.1	2.3	1.8	1.6
3	3.6	3.5	4.0	4.9	3.7	4.0	4.4	4.7	3.1	2.3	1.8	1.6
4	3.5	3.5	4.0	4.9	3.8	3.9	4.4	4.6	3.4	2.3	1.7	1.6
5	3.2	3.3	3.8	4.9	3.8	3.9	4.5	4.5	3.2	2.3	1.7	1.6
6	3.3	3.3	4.0	4.9	3.9	4.0	4.3	4.4	3.5	2.2	1.7	1.5
7	3.2	3.6	4.0	4.8	3.8	4.1	4.5	4.3	3.2	2.1	1.6	1.6
8	3.6	3.2	4.1	4.7	3.8	4.3	4.5	4.4	3.1	2.1	1.6	1.6
9	3.3	3.3	4.1	4.6	3.9	4.4	4.4	4.4	3.0	2.1	1.6	1.5
10	3.2	4.6	3.9	4.5	3.9	4.4	4.7	4.4	3.0	2.0	1.6	1.6
11	3.4	9.2	4.6	4.4	3.8	4.2	4.4	4.4	3.0	2.0	1.6	1.6
12	3.3	5.3	4.1	4.3	4.0	4.1	4.5	4.3	3.1	2.0	1.6	1.7
13	3.3	4.4	4.7	4.2	3.9	4.7	4.6	4.3	3.2	2.0	1.7	1.6
14	3.4	4.4	6.2	4.2	3.9	4.9	4.9	4.3	5.2	2.0	1.7	1.7
15	4.0	4.4	5.4	4.2	4.0	4.5	5.2	4.3	3.9	2.0	1.7	1.6
16	3.4	5.6	4.8	4.2	3.9	4.3	5.4	4.1	3.2	2.0	1.7	1.7
17	3.4	7.3	4.7	4.0	3.8	4.3	5.6	3.9	3.0	2.2	1.7	2.0
18	3.4	5.3	4.4	4.0	3.8	4.3	5.2	3.8	2.9	2.2	1.6	1.9
19	3.5	7.0	4.3	4.0	3.8	4.5	5.1	3.8	2.8	2.0	1.6	2.3
20	3.3	6.2	4.2	3.9	4.0	5.0	4.9	3.8	2.7	2.0	1.6	2.3
21	3.5	5.2	3.8	4.6	3.9	4.9	4.7	3.7	2.7	1.9	1.7	2.0
22	3.4	4.7	3.9	3.9	3.7	4.1	4.7	3.7	2.6	1.9	1.7	1.9
23	3.9	4.7	4.0	3.9	3.7	4.3	4.7	3.6	2.6	2.2	1.6	1.9
24	3.5	7.5	5.8	4.0	3.7	4.5	4.7	3.6	2.6	2.2	1.6	1.9
25	3.7	5.5	8.2	4.0	3.7	4.6	4.4	3.5	2.6	2.0	1.6	1.9
26	3.4	4.8	6.7	3.8	3.6	5.7	4.3	3.4	2.5	1.9	1.7	1.9
27	3.5	4.5	5.6	3.8	3.8	5.0	4.2	3.3	2.5	1.8	1.6	1.9
28	3.5	4.6	5.1	3.9	3.7	4.9	4.2	3.3	2.5	1.8	1.6	1.9
29	3.7	4.2	5.4	3.9	3.7	4.6	4.2	3.2	2.4	1.8	1.7	1.9
30	4.4	4.2	6.3	3.9	---	4.5	4.2	3.2	2.4	1.9	1.7	2.0
31	5.8	---	5.4	4.0	---	4.4	---	3.1	---	1.8	1.7	---
TOTAL	112.5	145.1	147.7	133.4	110.7	137.4	138.4	123.2	90.1	63.7	51.6	53.5
MEAN	3.63	4.84	4.76	4.30	3.82	4.43	4.61	3.97	3.00	2.05	1.66	1.78
MAX	5.8	9.2	8.2	5.1	4.0	5.7	5.6	4.7	5.2	2.4	1.8	2.3
MIN	3.2	3.2	3.8	3.8	3.6	3.9	4.2	3.1	2.4	1.8	1.6	1.5
AC-FT	223	288	293	265	220	273	275	244	179	126	102	106

CAL YR 1983 TOTAL 1773.7 MEAN 4.86 MAX 21 MIN 1.9 AC-FT 3520
WTR YR 1984 TOTAL 1307.3 MEAN 3.57 MAX 9.2 MIN 1.5 AC-FT 2590

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.
WATER TEMPERATURES: Water years 1983 to current year.
SEDIMENT RECORDS: Water years 1983 to current year.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS: October 1982 to current year.

COOPERATION.--Selected sediment samples and water temperature observations furnished by Lahontan Regional Water Quality Control Board.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 403 mg/L May 21, 1983; minimum daily mean, 2 mg/L Dec. 13-19, 1983.
SEDIMENT DISCHARGE: Maximum daily, 22 tons May 21, 1983; minimum daily, 0.01 ton several days in each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 233 mg/L Nov. 11; minimum daily mean, 3 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 8.7 tons Nov. 11; minimum daily, 0.01 ton July 27-29, 31 to Aug. 20.

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

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

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT									
31...	1625	8.8	6.5	448	11	67	--	--	--
NOV									
24...	1015	11	1.5	140	4.2	35	--	--	--
DEC									
30...	1130	7.1	3.5	65	1.2	96	96	99	100
MAR									
13...	1505	5.3	4.0	65	.93	77	--	--	--
APR									
16...	1515	5.5	9.0	36	.53	55	--	--	--
MAY									
10...	1915	4.5	10.5	23	.28	60	--	--	--
JUN									
07...	1330	3.2	7.0	38	.33	89	--	--	--
14...	2110	14	9.0	1050	40	60	--	--	--

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE 1/4 NE 1/4 sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi northeast of Tahoe City, and 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--506 mi^2 at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Monthend elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft Bureau of Reclamation datum, 6,218.86 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1957, nonrecording 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 east of dam at lake outlet.

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 between elevations 6,223 ft, natural rim of lake and 6,229.1 ft, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft Dec. 26, 1934

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,228.73 ft July 4-6; minimum, 6226.97 ft Mar. 12.

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

6,223	0	6,227	486,800
6,224	121,400	6,228	609,300
6,225	243,000	6,229	732,300
6,226	364,800		

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.27	8.20	8.58	8.32	7.46	7.16	7.15	7.45	8.26	8.70	8.56	8.03
2	8.27	8.18	8.58	8.32	7.41	7.15	7.17	7.47	8.25	8.72	8.53	7.99
3	8.28	8.18	8.59	8.27	7.38	7.12	7.18	7.47	8.30	8.72	8.53	7.98
4	8.27	8.14	8.57	8.25	7.36	7.10	7.18	7.50	8.33	8.73	8.50	7.95
5	8.27	8.13	8.57	8.22	7.33	7.09	7.19	7.53	8.39	8.73	8.48	7.93
6	8.27	8.12	8.53	8.20	7.31	7.07	7.19	7.53	8.40	8.73	8.46	7.93
7	8.26	8.10	8.53	8.18	7.27	7.06	7.17	7.57	8.41	8.71	8.46	7.92
8	8.27	8.05	8.53	8.15	7.23	7.05	7.24	7.58	8.42	8.70	8.45	7.90
9	8.23	8.04	8.54	8.13	7.26	7.03	7.20	7.58	8.41	8.72	8.43	7.89
10	8.21	8.15	8.49	8.09	7.26	7.02	7.26	7.60	8.43	8.72	8.42	7.86
11	8.22	8.19	8.51	8.05	7.26	6.98	7.27	7.64	8.44	8.72	8.40	7.85
12	8.21	8.18	8.48	8.03	7.24	6.97	7.28	7.67	8.46	8.71	8.38	7.81
13	8.20	8.30	8.45	8.03	7.32	7.09	7.29	7.71	8.49	8.70	8.37	7.82
14	8.17	8.25	8.39	7.95	7.27	7.07	7.30	7.73	8.55	8.69	8.35	7.80
15	8.17	8.27	8.40	7.92	7.35	7.09	7.30	7.75	8.58	8.69	8.34	7.78
16	8.16	8.35	8.42	7.92	7.34	7.12	7.30	7.78	8.58	8.70	8.31	7.78
17	8.16	8.54	8.37	7.90	7.33	7.12	7.31	7.80	8.60	8.71	8.30	7.77
18	8.15	8.52	8.38	7.87	7.31	7.12	7.35	7.83	8.62	8.70	8.28	7.77
19	8.14	8.59	8.40	7.83	7.30	7.12	7.40	7.85	8.62	8.69	8.26	7.77
20	8.14	8.67	8.33	7.80	7.26	7.11	7.40	7.88	8.62	8.67	8.25	7.75
21	8.13	8.64	8.27	7.79	7.31	7.12	7.41	7.92	8.64	8.66	8.24	7.73
22	8.12	8.60	8.23	7.75	7.28	7.12	7.42	7.95	8.64	8.64	8.22	7.71
23	8.12	8.64	8.23	7.73	7.25	7.14	7.43	7.97	8.66	8.66	8.18	7.67
24	8.11	8.74	8.29	7.71	7.25	7.13	7.43	8.00	8.68	8.67	8.17	7.66
25	8.11	8.74	8.37	7.68	7.20	7.11	7.43	8.05	8.68	8.67	8.13	7.62
26	8.11	8.71	8.38	7.65	7.19	7.14	7.43	8.08	8.69	8.64	8.11	7.60
27	8.11	8.69	8.37	7.60	7.18	7.14	7.43	8.11	8.70	8.63	8.10	7.59
28	8.10	8.67	8.34	7.58	7.15	7.15	7.44	8.15	8.70	8.61	8.08	7.58
29	8.12	8.64	8.33	7.55	7.14	7.15	7.44	8.18	8.70	8.61	8.07	7.56
30	8.12	8.61	8.34	7.53	---	7.12	7.44	8.19	8.70	8.60	8.03	7.60
31	8.19	---	8.32	7.50	---	7.15	---	8.24	---	8.58	8.04	---
MEAN	8.18	8.39	8.42	7.92	7.28	7.10	7.31	7.80	8.53	8.68	8.30	7.79
MAX	8.28	8.74	8.59	8.32	7.46	7.16	7.44	8.24	8.70	8.73	8.56	8.03
MIN	8.10	8.04	8.23	7.50	7.14	6.97	7.15	7.45	8.25	8.58	8.03	7.56
a	632700	684300	648700	548000	503900	505200	540700	638800	695400	680600	614200	560300
b	-12300	+51600	-35600	-100700	-44100	+1300	+35500	+98100	+56600	-14800	-66400	-53900

CAL YR 1983 b +81000
WTR YR 1984 b -84700

a Usable contents, in acre-feet, at end of month.
b Change in contents, in acre-feet.
Note.--Add 6,220 ft to obtain elevation, Bureau of Reclamation datum, at 2400 hours.

10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE 1/4 NE 1/4 sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.5 mi upstream from Mystic Canyon, 0.7 mi downstream from Farad powerplant, 2.5 mi north of Floriston, 3.4 mi downstream from Bronco Creek, and 3.5 mi upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi^2.

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.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). See WSP 2127 for history of changes prior to Aug. 26, 1957.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede, and Boca Reservoirs (stations 10337000, 10339380, 10340300, 10344300, and 10344490), Donner and Independence Lakes, and by several powerplants.

AVERAGE DISCHARGE.--85 years (water years 1900-84), 820 ft^3/s, 594,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s Nov. 21, 1950, gage height, 14.5 ft present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft^3/s Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,420 ft^3/s Nov. 24, gage height, 7.98 ft; minimum daily, 272 ft^3/s Oct. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	1070	3520	4630	2310	1580	1270	918	1990	666	634	508
2	835	1060	3470	4490	2220	1590	1210	963	2060	637	557	504
3	446	1130	3500	4350	2190	1620	1160	1110	2170	618	505	503
4	274	1200	3430	4150	2180	1620	1090	1280	2630	658	524	499
5	272	1290	3270	3930	2170	1620	1020	1270	2820	754	525	523
6	400	1360	3120	3710	2160	1630	1000	1310	2660	837	524	510
7	427	1550	3190	3370	2100	1650	987	1350	2330	889	501	506
8	413	1610	3210	3290	1500	1670	1060	1440	2030	868	496	500
9	324	1730	3240	3240	1550	1590	1080	1500	1800	820	492	498
10	432	1980	3210	3210	1550	1160	1130	1510	1710	749	492	503
11	428	2990	3310	3160	1550	1170	1090	1540	1600	674	495	510
12	379	2320	3390	3110	1550	1160	1060	1600	1600	567	493	513
13	345	2230	3580	3080	1620	1220	1030	1630	1780	592	494	519
14	365	2090	3580	3040	1620	1160	1010	1730	1750	570	493	515
15	376	2030	3480	3000	1630	1050	1100	1540	1580	544	498	513
16	372	2170	3460	2950	1640	1050	1220	1370	1480	538	497	512
17	368	3680	3430	2810	1590	1100	1280	1430	1400	587	492	510
18	364	2660	3380	2740	1580	1050	1290	1480	1170	631	497	496
19	388	2960	3330	2670	1580	1040	1290	1770	1020	678	495	565
20	387	3620	3300	2570	1610	1050	1140	1900	887	673	494	499
21	395	3140	3130	2530	1660	1100	946	1910	773	693	495	502
22	414	3190	2910	2520	1630	982	939	1970	700	706	492	458
23	428	3310	2930	2520	1630	953	966	2220	593	710	489	454
24	440	4360	3110	2510	1620	1120	988	2360	603	663	494	470
25	479	3820	4030	2500	1620	1330	939	2000	589	524	507	527
26	428	3040	4780	2480	1610	1520	833	1980	562	461	507	528
27	378	2860	4920	2440	1610	1600	829	2050	563	566	510	519
28	343	2970	4560	2430	1610	1450	883	2120	580	657	511	502
29	355	3290	4250	2420	1600	1410	903	2150	667	712	509	506
30	483	3360	4680	2410	---	1330	912	2210	687	696	511	488
31	829	---	4780	2380	---	1290	---	2110	---	642	513	---
TOTAL	13677	74070	111480	94640	50490	40865	31655	51721	42784	20580	15735	15160
MEAN	441	2469	3596	3053	1741	1318	1055	1668	1426	664	508	505
MAX	1110	4360	4920	4630	2310	1670	1290	2360	2820	889	634	565
MIN	272	1060	2910	2380	1500	953	829	918	562	461	488	454
AC-FT	27130	146900	221100	187700	100100	81060	62790	102600	84860	40820	31210	30070

CAL YR 1983 TOTAL 936930 MEAN 2567 MAX 6150 MIN 272 AC-FT 1858000
WTR YR 1984 TOTAL 562857 MEAN 1538 MAX 4920 MIN 272 AC-FT 1116000

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'53", long 119°47'07", in NW¼ sec.7, T.19 N., R., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft downstream from Kietzke Lane bridge, 0.5 mi downstream from Scott Island, 1.5 mi east of Reno Post Office, and 5 mi upstream from Steamboat Creek, and at mile 59.07 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 mi^2.

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.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft, National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi upstream at different datum.

REMARKS.--Records good. 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. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--58 years (1906-21, 1925-26, 1930-34, 1946-84), 712 ft^3/s, 515,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft^3/s Dec. 23, 1955; maximum gage height, 13.83 ft Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,920 ft^3/s Nov. 24, gage height, 8.90 ft; minimum, 123 ft^3/s Oct. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	1010	3500	4770	2340	1620	1390	778	1820	372	386	267
2	755	1060	3430	4610	2240	1630	1340	817	1830	360	336	253
3	464	1110	3570	4430	2200	1660	1270	950	1940	332	276	250
4	173	1170	3430	4230	2190	1660	1220	1210	2320	338	254	249
5	149	1260	3260	3970	2180	1660	1130	1190	2670	448	268	247
6	203	1330	3070	3800	2170	1670	1070	1240	2510	544	267	269
7	284	1460	3120	3380	2180	1700	1030	1280	2180	664	255	253
8	257	1540	3200	3290	1610	1730	1140	1390	1900	630	244	252
9	217	1630	3230	3230	1590	1740	1150	1460	1630	601	244	252
10	242	1860	3260	3200	1610	1290	1200	1490	1560	528	238	250
11	276	3120	3390	3160	1610	1290	1160	1590	1440	454	240	247
12	253	2320	3340	3100	1600	1280	1120	1860	1430	336	237	253
13	206	2320	3570	3080	1730	1380	1060	1690	1560	329	241	252
14	217	2080	3610	3040	1700	1420	974	1760	1590	285	239	257
15	231	1980	3500	3000	1750	1220	1050	1570	1440	254	243	255
16	224	2080	3500	2970	1780	1170	1170	1370	1340	246	249	258
17	231	4370	3500	2800	1670	1260	1240	1400	1300	279	236	259
18	227	2830	3390	2730	1650	1190	1250	1370	1100	342	238	239
19	238	2820	3340	2680	1650	1180	1230	1630	882	371	232	295
20	249	3860	3330	2600	1660	1180	1090	1930	731	390	228	287
21	245	3170	3180	2540	1730	1250	807	2010	585	383	233	262
22	268	3140	2900	2530	1690	1140	791	1950	520	413	258	245
23	284	3260	2920	2530	1680	1070	829	2170	355	494	240	218
24	324	4990	3020	2520	1660	1190	857	2350	352	480	228	215
25	336	4230	3870	2520	1650	1440	840	1950	357	364	256	275
26	353	3100	5100	2490	1640	1600	701	1870	333	259	267	298
27	284	2880	5210	2460	1640	1730	671	1930	290	259	257	303
28	264	2890	4740	2450	1650	1590	720	1960	300	356	254	290
29	249	3230	4370	2430	1640	1520	751	1970	349	428	248	293
30	307	3290	4850	2410	---	1460	765	2050	398	447	249	297
31	600	---	5080	2400	---	1410	---	1990	---	408	257	---
TOTAL	9690	75390	112780	95350	52090	44330	31016	50175	37012	12394	7898	7840
MEAN	313	2513	3638	3076	1796	1430	1034	1619	1234	400	255	261
MAX	1080	4990	5210	4770	2340	1740	1390	2350	2670	664	386	303
MIN	149	1010	2900	2400	1590	1070	671	778	290	246	228	215
AC-FT	19220	149500	223700	189100	103300	87930	61520	99520	73410	24580	15670	15550

CAL YR 1983 TOTAL 900362 MEAN 2467 MAX 5910 MIN 149 AC-FT 1786000
WTR YR 1984 TOTAL 535965 MEAN 1464 MAX 5210 MIN 149 AC-FT 1063000

10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in SW¼NW¼NE¼ sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft upstream from McCarren Boulevard bridge, 1 mi south of Southern Pacific Railroad in Sparks, 2.5 mi upstream from Steamboat Creek, and at mile 56.15 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,070 mi^2, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,390 ft, from topographic map.

REMARKS.--Records good. 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 stations.

AVERAGE DISCHARGE.--7 years, 981 ft^3/s, 710,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft^3/s Jan. 14, 1980, gage height, 12.03 ft, maximum gage height 12.23 ft Dec. 20, 1981; minimum, 2.0 ft^3/s, Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,460 ft^3/s Nov. 24, gage height, 10.23 ft; minimum daily, 143 ft^3/s Oct. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	1010	3600	4700	2440	1760	1450	745	1750	278	276	211
2	749	1080	3550	4540	2340	1770	1400	802	1760	264	238	204
3	461	1160	3670	4380	2300	1810	1310	997	1850	243	177	205
4	160	1240	3530	4170	2300	1800	1270	1200	2200	277	160	194
5	143	1320	3330	4040	2290	1810	1150	1190	2540	362	174	183
6	183	1430	3160	3700	2280	1820	1090	1200	2400	441	175	215
7	269	1590	3200	3460	2280	1860	1060	1250	2080	564	165	195
8	246	1650	3260	3400	1690	1900	1150	1380	1810	533	149	195
9	209	1890	3300	3330	1680	1900	1180	1460	1550	507	149	198
10	220	1950	3380	3300	1700	1400	1240	1490	1490	435	146	193
11	261	3010	3490	3260	1700	1370	1200	1590	1360	365	144	186
12	242	2410	3440	3220	1700	1360	1140	1860	1340	247	144	191
13	192	2400	3650	3170	1860	1450	1090	1700	1480	233	148	192
14	206	2200	3680	3140	1810	1560	975	1760	1530	190	148	196
15	213	2110	3610	3110	1870	1290	1050	1580	1380	166	152	196
16	206	2180	3590	3080	1910	1230	1180	1330	1260	163	165	198
17	213	4300	3610	2900	1790	1320	1260	1370	1220	184	155	200
18	213	2900	3520	2830	1750	1260	1260	1320	1010	240	157	183
19	216	2850	3440	2800	1760	1250	1260	1610	783	273	149	245
20	231	3880	3380	2700	1780	1250	1110	1890	635	282	145	254
21	227	3220	3130	2620	1860	1310	795	1970	496	271	146	226
22	249	3190	2970	2620	1800	1210	766	1890	431	303	174	214
23	261	3320	2970	2640	1810	1130	805	2120	273	410	160	184
24	309	4850	3350	2620	1800	1220	834	2290	268	430	149	183
25	318	4260	4430	2610	1780	1530	806	1910	265	292	171	243
26	352	3200	5090	2590	1760	1690	682	1830	235	178	189	266
27	265	2940	5010	2560	1770	1870	650	1880	196	158	179	267
28	253	2950	4510	2550	1790	1740	711	1900	211	236	181	243
29	234	3300	4390	2540	1770	1640	731	1910	254	312	173	245
30	281	3400	5100	2530	---	1570	746	1980	301	340	178	256
31	550	---	4860	2500	---	1490	---	1920	---	300	195	---
TOTAL	9222	77190	115200	97610	55370	47570	31351	49324	34358	9477	5211	6361
MEAN	297	2573	3716	3149	1909	1535	1045	1591	1145	306	168	212
MAX	1090	4850	5100	4700	2440	1900	1450	2290	2540	564	276	267
MIN	143	1010	2970	2500	1680	1130	650	745	196	158	144	183
AC-FT	18290	153100	228500	193600	109800	94360	62180	97830	68150	18800	10340	12620

CAL YR 1983 TOTAL 912696 MEAN 2501 MAX 6090 MIN 143 AC-FT 1810000
WTR YR 1984 TOTAL 538244 MEAN 1471 MAX 5100 MIN 143 AC-FT 1068000

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in NW¼SW¼SE¼ sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank 300 ft upstream from Red House diversion dam, 0.2 mi upstream from Red House, and 6.1 mi northwest of Carson City.

DRAINAGE AREA.--3.24 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,380 ft, from topographic map.

REMARKS.--Records fair, no gage-height record Nov. 24 to Jan. 6. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake during dry years. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--10 years (1975-84) 3.86 ft^3/s, 2,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft^3/s April 12, 1982, gage height, 2.60 ft; minimum gage height, 3.68 ft, Jan. 8, 1975, backwater from ice or snowblock; minimum discharge, 0.48 ft^3/s Sept. 9-11, 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft^3/s May 11, gage height, 2.23 ft; maximum gage height, 2.61 ft Feb. 18, backwater from ice; minimum daily, 2.8 ft^3/s July 8, Sept. 12-17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	7.8	5.5	6.2	4.6	3.8	4.6	11	17	5.4	3.8	3.5
2	7.3	6.6	5.5	5.8	4.6	3.9	4.6	11	17	5.2	3.7	3.4
3	6.8	5.6	5.4	5.4	4.5	3.9	4.8	15	16	5.3	3.7	3.2
4	5.9	5.1	5.2	5.1	4.6	3.8	4.9	16	16	5.1	3.7	3.1
5	5.5	4.8	5.0	4.8	4.6	3.8	4.8	15	15	4.0	3.7	3.1
6	5.5	4.7	5.0	4.7	4.6	3.9	4.8	15	15	3.4	3.6	3.1
7	5.4	4.8	5.0	4.7	4.7	3.9	5.5	15	14	3.3	3.6	3.0
8	5.3	4.6	5.0	4.7	4.2	4.1	6.2	17	14	2.8	3.6	3.1
9	5.5	4.7	5.2	4.7	4.4	3.9	4.9	19	13	3.6	3.5	3.2
10	5.3	5.6	5.2	4.7	4.5	4.1	4.7	23	13	4.0	3.5	3.2
11	5.3	10	5.5	4.7	4.5	4.1	4.5	27	12	4.1	3.5	3.0
12	5.0	7.4	5.2	4.7	4.5	4.0	4.6	23	12	4.1	3.5	2.8
13	4.8	6.8	5.2	4.7	4.6	4.2	5.7	26	11	4.1	3.6	2.8
14	5.1	6.5	5.5	4.7	4.7	4.3	6.8	26	11	4.0	3.7	2.8
15	5.0	6.0	5.7	4.6	4.8	4.3	8.2	18	10	4.1	3.6	2.8
16	4.9	6.2	5.6	4.6	4.8	4.1	9.8	15	9.7	4.2	3.6	2.8
17	6.4	8.3	5.5	4.6	5.0	3.9	11	15	9.3	4.4	3.5	2.8
18	6.3	7.0	5.4	4.6	4.5	4.0	9.5	16	9.0	4.7	3.4	2.9
19	4.8	7.3	5.2	4.6	4.2	3.8	8.6	17	8.7	4.4	3.3	3.0
20	4.6	9.1	5.1	4.6	4.3	4.0	7.7	22	8.3	4.2	3.3	3.1
21	4.5	7.7	5.1	4.5	4.4	4.3	7.5	23	7.9	4.2	3.3	3.1
22	4.4	6.8	5.1	4.5	4.4	4.4	8.2	22	7.6	4.1	3.6	3.2
23	4.7	6.8	5.0	4.5	4.4	4.5	10	23	7.3	4.6	3.5	3.2
24	5.2	8.8	5.9	4.6	4.4	4.8	12	24	6.9	5.2	3.4	3.1
25	5.0	7.8	7.0	4.7	4.2	5.4	11	20	6.6	4.7	3.3	3.1
26	4.8	6.6	8.0	4.5	4.1	7.1	9.1	19	6.3	4.2	3.3	3.2
27	4.6	6.2	8.8	4.7	4.1	6.4	8.4	18	5.7	3.9	3.4	3.1
28	4.5	5.8	8.0	4.6	3.8	6.2	8.2	18	5.6	4.0	3.1	3.2
29	4.5	5.6	7.4	4.5	3.7	5.5	8.9	18	5.4	3.8	3.2	3.1
30	6.3	5.4	7.7	4.5	---	4.8	10	18	5.3	3.9	3.4	3.2
31	8.0	---	6.8	4.5	---	4.7	---	17	---	3.8	3.4	---
TOTAL	168.1	196.4	180.7	147.3	128.7	137.9	219.5	582	315.6	130.8	108.3	92.2
MEAN	5.42	6.55	5.83	4.75	4.44	4.45	7.32	18.8	10.5	4.22	3.49	3.07
MAX	8.0	10	8.8	6.2	5.0	7.1	12	27	17	5.4	3.8	3.5
MIN	4.4	4.6	5.0	4.5	3.7	3.8	4.5	11	5.3	2.8	3.1	2.8
AC-FT	333	390	358	292	255	274	435	1150	626	259	215	183

CAL YR 1983	TOTAL	3040.9	MEAN	8.33	MAX	41	MIN	2.7	AC-FT	6030
WTR YR 1984	TOTAL	2407.5	MEAN	6.58	MAX	27	MIN	2.8	AC-FT	4780

PYRAMID AND WINNEMUCCA LAKES BASIN

10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°16'30", long 119°47'35", in S½SE¼ sec.1, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on Washoe County boat dock on northeast shore about 6.8 mi north of Carson City.

DRAINAGE AREA.--83.8 mi^2, including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to September 1982 (monthly observations only), October 1982 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1982, nonrecording gage at different site but same level.

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 55,700 acre-ft between altitudes 5,017.5 ft and 5,032.0 ft. Figures given herein represent total contents includig 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 Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum altitude recorded, 5,031.5 ft Mar. 15, 1983; minimum observed, 5,021.8 ft Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude recorded, 5,031.05 ft Dec. 30, 31; minimum recorded, 5,027.4 ft Sept. 29.

Capacity table (altitude, in feet, and volume, in acre-feet)

5,027	26,600	5,030	43,300
5,028	32,000	5,031	49,200
5,029	37,400	5,032	55,700

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.30	9.22	10.58	11.03	10.63	10.41	10.05	9.75	9.68	9.20	8.47	8.00
2	9.30	9.23	10.58	11.03	10.60	10.40	10.04	9.75	9.68	9.18	8.47	7.98
3	9.31	9.23	10.67	11.01	10.60	10.38	10.03	9.74	9.67	9.17	8.48	7.95
4	9.31	9.22	10.65	11.01	10.58	10.37	10.02	9.73	9.63	9.13	8.50	7.93
5	9.32	9.21	10.64	10.99	10.58	10.34	10.05	9.72	9.57	9.11	8.53	7.90
6	9.32	9.20	10.63	10.98	10.57	10.34	10.02	9.72	9.56	9.08	8.54	7.88
7	9.32	9.20	10.63	10.97	10.54	10.32	10.00	9.71	9.55	9.04	8.54	7.87
8	9.26	9.17	10.62	10.95	10.53	10.30	10.02	9.70	9.55	9.02	8.53	7.85
9	9.27	9.17	10.62	10.93	10.52	10.28	10.00	9.68	9.55	8.98	8.50	7.83
10	9.27	9.18	10.68	10.95	10.50	10.27	9.99	9.68	9.52	8.95	8.47	7.81
11	9.27	9.32	10.75	10.92	10.49	10.25	9.98	9.68	9.51	8.93	8.42	7.78
12	9.23	9.37	10.73	10.91	10.47	10.23	9.97	9.69	9.50	8.90	8.41	7.77
13	9.23	9.47	10.76	10.89	10.56	10.24	9.97	9.68	9.50	8.88	8.40	7.75
14	9.24	9.48	10.76	10.89	10.55	10.23	9.95	9.72	9.53	8.88	8.39	7.73
15	9.23	9.50	10.75	10.88	10.55	10.25	9.93	9.72	9.54	8.85	8.37	7.71
16	9.21	9.52	10.78	10.88	10.59	10.25	9.93	9.71	9.53	8.83	8.35	7.68
17	9.21	9.88	10.78	10.87	10.59	10.24	9.93	9.70	9.52	8.81	8.33	7.67
18	9.21	9.92	10.80	10.85	10.58	10.24	9.92	9.71	9.50	8.78	8.31	7.64
19	9.20	10.00	10.78	10.83	10.56	10.23	9.91	9.70	9.47	8.77	8.28	7.62
20	9.19	10.17	10.75	10.82	10.54	10.20	9.88	9.70	9.43	8.74	8.27	7.62
21	9.18	10.20	10.73	10.80	10.53	10.20	9.88	9.70	9.42	8.72	8.25	7.60
22	9.16	10.22	10.72	10.79	10.50	10.23	9.88	9.72	9.42	8.69	8.20	7.55
23	9.17	10.22	10.74	10.78	10.50	10.15	9.87	9.72	9.39	8.67	8.19	7.55
24	9.16	10.52	10.77	10.77	10.47	10.16	9.86	9.72	9.38	8.65	8.17	7.52
25	9.15	10.56	10.82	10.76	10.46	10.13	9.84	9.72	9.36	8.62	8.16	7.50
26	9.16	10.56	10.94	10.75	10.43	10.13	9.83	9.72	9.33	8.60	8.13	7.50
27	9.15	10.57	11.02	10.74	10.42	10.13	9.82	9.73	9.30	8.57	8.11	7.48
28	9.15	10.57	11.04	10.73	10.40	10.13	9.81	9.73	9.25	8.55	8.08	7.48
29	9.15	10.58	11.01	10.71	10.38	10.08	9.80	9.72	9.23	8.53	8.07	7.40
30	9.15	10.58	11.05	10.70	---	10.05	9.77	9.71	9.22	8.51	8.03	7.43
31	9.18	---	11.05	10.69	---	10.05	---	9.70	---	8.48	8.02	---
MAX	9.32	10.58	11.05	11.03	10.63	10.41	10.05	9.75	9.68	9.20	8.54	8.00
MIN	9.15	9.17	10.58	10.69	10.38	10.05	9.77	9.68	9.22	8.48	8.02	7.40
†	38460	46580	49520	47250	45410	43570	41940	41530	38700	34590	32110	28920
‡	-710	+8120	+2940	-2270	-1840	-1840	-1630	-410	-2830	-4110	-2480	-3190

CAL YR 1983 MAX 11.51 MIN 9.02 ‡ +700
WTR YR 1984 MAX 11.05 MIN 7.40 ‡ -10250

† Useable contents, in acre-feet, at end of month.
‡ Change in contents, in acre-feet.

NOTE.--Add 5,020 ft to obtain an altitude, in feet NGVD, at 2400 hours.

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°19'45", long 119°48'00", in NE¼NW¼ sec.24, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at outlet (head of Steamboat Creek) and 5.5 mi southwest of Steamboat.

DRAINAGE AREA.--83.8 mi^2.

PERIOD OF RECORD.--April 1963 to September 1970, October 1982 to current year (monthly observations only), October 1970 to September 1982 (daily elevations).

GAGE.--Nonrecording gage. From October 1970 to September 1982, recording gage at same site and datum. Datum of gage is National Geodetic Vertical Datum of 1929.

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."

EXTREMES FOR PERIOD OF RECORD.--Maximum altitude observed, 5,031.3 ft Mar. 3, 1983; no contents Sept. 13 to Dec. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude observed, 5,030.9 ft Jan. 9; minimum observed, 5,028.0 ft Sept. 5.

MONTH-END ALTITUDES AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	5,029.4	690	--
Oct. 31	5,029.2	670	-20
Nov. 30	5,030.5	790	+120
Dec. 31	5,031.0	850	+60
CAL YR 1983	--	--	+40
Jan. 31	5,030.6	800	-50
Feb. 29	5,030.4	780	-20
Mar. 31	5,030.0	750	-30
Apr. 30	5,029.9	740	-10
May 31	5,029.9	740	0
June 30	5,029.2	670	-70
July 31	5,028.3	530	-140
Aug. 31	5,028.0	500	-30
Sep. 30	5,027.4	440	-60
WTR YR 1983-84	--	--	-250

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

10348900 GALENA CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°21'43", long 119°49'37", in SW¼SW¼ sec.2, T.17, N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank 1 mi upstream from Jones Creek, 3.5 mi upstream from mouth, 4.5 mi west-southwest of Steamboat, and 12 mi south of Reno.

DRAINAGE AREA.--8.5 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft, National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft higher.

REMARKS.--Records good, except those for winter months, which are fair. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake during winter months. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--23 years, 9.83 ft^3/s, 7,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft^3/s Aug. 15, 1965, gage height not determined, from slope-area measurement of peak flow; no flow for parts of many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 12	1000	31	2.97	May 11	2100	56	3.16
Apr. 26	0700	34	3.01	May 31	1900	*72	3.26

Minimum daily discharge, 8.1 ft^3/s, Feb. 6-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	14	13	8.8	10	12	18	58	28	16	18
2	18	16	13	12	8.7	10	12	20	51	27	16	19
3	16	15	13	12	8.6	10	12	25	54	25	16	19
4	16	16	13	12	8.5	10	12	24	56	25	15	18
5	16	14	12	12	8.4	10	12	23	53	25	15	18
6	15	14	13	12	8.1	10	12	24	52	25	14	18
7	15	14	13	12	8.1	11	12	26	47	23	14	15
8	15	13	13	12	8.1	11	13	29	44	22	14	13
9	14	13	15	12	8.1	12	15	33	41	21	13	12
10	14	16	13	12	13	11	13	35	38	21	14	10
11	14	18	15	12	15	12	12	41	36	21	13	8.5
12	13	17	21	12	9.1	11	13	42	35	21	13	9.9
13	13	14	14	11	10	13	13	45	34	22	13	11
14	14	15	16	11	12	13	15	44	37	22	13	12
15	13	14	15	11	11	12	17	39	39	20	12	12
16	13	15	15	11	12	12	19	36	38	20	12	13
17	13	20	14	11	15	14	19	34	40	20	12	12
18	13	16	14	11	12	12	17	33	40	20	12	12
19	13	17	13	11	11	12	17	36	39	20	12	13
20	13	16	12	11	11	12	16	39	37	19	12	13
21	13	14	12	11	11	12	16	40	35	18	13	13
22	12	12	13	10	11	12	17	43	34	18	13	13
23	13	14	12	10	11	12	19	45	33	20	13	12
24	13	16	11	10	11	12	20	48	33	20	13	13
25	13	15	10	10	11	12	19	48	32	17	13	13
26	13	13	12	10	10	12	21	49	30	16	14	13
27	12	15	14	9.8	10	12	18	47	29	16	13	12
28	12	18	18	9.6	10	12	17	48	29	16	15	13
29	12	17	13	9.4	10	12	18	48	29	16	16	13
30	18	14	13	9.2	---	12	18	54	29	16	17	14
31	17	---	13	9.0	---	12	---	63	---	16	19	---
TOTAL	438	458	422	341.0	301.5	360	466	1179	1182	636	430	405.4
MEAN	14.1	15.3	13.6	11.0	10.4	11.6	15.5	38.0	39.4	20.5	13.9	13.5
MAX	19	20	21	13	15	14	21	63	58	28	19	19
MIN	12	12	10	9.0	8.1	10	12	18	29	16	12	8.5
AC-FT	869	908	837	676	598	714	924	2340	2340	1260	853	804

CAL YR 1983	TOTAL	8558.6	MEAN	23.4	MAX	91	MIN	4.7	AC-FT 16980
WTR YR 1984	TOTAL	6618.9	MEAN	18.1	MAX	63	MIN	8.1	AC-FT 13130

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft upstream from Steamboat ditch, 0.2 mi southwest of Steamboat Post Office, and 11 mi southeast of Reno.

DRAINAGE AREA.--123 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft, from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

AVERAGE DISCHARGE.--23 years, 20.8 ft^3/s, 15,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft^3/s Jan. 31, 1963, gage height, 5.44 ft, from rating curve extended above 360 ft^3/s; minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 353 ft^3/s Nov. 25, gage height, 3.52 ft; minimum daily, 1.9 ft^3/s Sept. 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	46	124	182	132	111	84	66	86	43	12	4.1
2	52	43	123	179	130	108	82	70	92	43	6.7	2.9
3	48	43	158	176	130	106	83	70	89	40	5.8	2.8
4	43	43	129	174	128	104	83	68	95	41	5.5	3.6
5	41	41	133	171	127	103	82	61	89	37	5.1	2.5
6	38	43	140	167	122	101	80	59	100	38	4.8	3.6
7	37	43	134	167	122	100	81	62	92	37	10	3.5
8	38	41	136	166	120	100	93	68	78	34	13	2.4
9	40	43	134	156	134	100	84	71	79	30	10	2.3
10	39	60	149	162	120	98	94	76	79	30	10	2.0
11	41	63	149	160	114	96	88	79	79	29	11	1.9
12	42	63	138	158	113	98	82	80	76	21	9.0	2.0
13	40	73	140	158	130	106	80	89	73	21	6.8	2.4
14	39	62	140	157	120	114	80	88	76	19	6.3	2.5
15	41	70	140	154	130	109	78	88	79	16	3.6	2.1
16	40	109	143	156	142	103	79	83	75	15	3.5	2.5
17	40	89	141	152	135	102	79	80	77	14	3.2	3.0
18	41	83	141	152	133	95	82	79	75	16	3.3	3.9
19	41	96	141	152	131	94	79	80	74	12	5.4	3.6
20	41	109	138	152	131	96	71	84	73	13	4.9	3.9
21	40	102	141	152	134	102	71	82	66	11	4.6	4.3
22	40	100	164	150	127	93	74	85	61	11	5.3	4.9
23	40	102	140	149	126	92	74	89	60	15	4.7	4.3
24	42	141	141	150	131	93	70	88	59	21	4.2	3.7
25	41	208	152	148	119	91	63	86	54	14	4.2	4.1
26	40	131	182	146	116	92	61	88	53	11	7.0	4.8
27	38	123	188	145	116	87	61	86	51	9.6	5.8	5.3
28	37	124	182	144	113	88	61	89	49	9.3	5.5	5.4
29	40	128	182	143	112	81	64	92	48	10	4.5	5.4
30	45	128	184	139	---	84	65	97	44	9.9	4.8	4.4
31	49	---	181	133	---	89	---	90	---	12	4.3	---
TOTAL	1289	2550	4608	4850	3638	3036	2308	2473	2181	682.8	194.8	104.1
MEAN	41.6	85.0	149	156	125	97.9	76.9	79.8	72.7	22.0	6.28	3.47
MAX	55	208	188	182	142	114	94	97	100	43	13	5.4
MIN	37	41	123	133	112	81	61	59	44	9.3	3.2	1.9
AC-FT	2560	5060	9140	9620	7220	6020	4580	4910	4330	1350	386	206

CAL YR 1983	TOTAL	44886	MEAN	123	MAX	286	MIN	37	AC-FT	89030
WTR YR 1984	TOTAL	27914.7	MEAN	76.3	MAX	208	MIN	1.9	AC-FT	55370

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'05", long 119°40'58", in NW¼NE¼ sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 800 ft downstream from Southern Pacific Raiload bridge, 0.9 mi southeast of Vista, 1.5 mi downstream from Steamboat Creek, and 4 mi southeast of Sparks, and at mile 52.23 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,431 mi^2.

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.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft, National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Apr. 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to Aug. 17, 1959, water-stage recorder at site 1,200 ft upstream at datum 5.59 ft higher.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Stampede, Boca, and Prosser Creek Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--56 years, 844 ft^3/s, 611,500 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s Feb. 1, 1963, gage height, 16.76 ft from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 7 ft^3/s Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,230 ft^3/s Nov. 24, gage height, 11.19 ft; minimum discharge, 312 ft^3/s July 17, Aug. 15, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	1180	3530	4930	2640	1870	1540	984	2020	534	481	430
2	1110	1240	3470	4750	2540	1860	1490	1020	2020	521	460	418
3	813	1250	3730	4560	2510	1900	1400	1100	2110	487	373	417
4	477	1320	3630	4400	2500	1890	1380	1380	2380	463	346	401
5	414	1380	3350	4140	2480	1880	1280	1350	2750	560	356	381
6	433	1470	3160	4010	2470	1890	1230	1390	2620	658	362	422
7	536	1600	3180	3600	2460	1900	1190	1410	2360	780	357	388
8	521	1710	3260	3510	1970	1930	1260	1520	2090	750	335	387
9	491	1770	3270	3470	1890	1930	1290	1610	1850	732	332	394
10	475	1980	3350	3430	1910	1510	1360	1660	1800	658	334	389
11	536	3200	3470	3390	1910	1460	1340	1750	1660	578	329	387
12	522	2390	3410	3350	1890	1450	1270	2010	1650	468	328	396
13	471	2470	3580	3310	1980	1510	1240	1890	1760	449	337	405
14	479	2240	3630	3280	2030	1680	1130	1930	1820	403	338	411
15	487	2120	3530	3250	2010	1410	1180	1780	1690	370	334	405
16	477	2180	3530	3240	2140	1350	1300	1570	1570	355	340	404
17	483	4460	3560	3090	1980	1430	1390	1590	1560	364	334	402
18	473	3090	3440	2980	1940	1360	1400	1550	1370	449	332	396
19	475	2820	3390	2980	1940	1350	1430	1800	1120	495	331	450
20	488	3910	3360	2880	1940	1340	1320	2070	957	505	335	484
21	476	3260	3240	2830	2010	1410	1030	2150	797	486	329	447
22	495	3180	2980	2830	1960	1330	999	2080	733	530	370	429
23	514	3300	2970	2840	1960	1230	1030	2270	570	671	354	386
24	571	5210	3040	2830	1940	1320	1050	2450	539	722	341	385
25	567	4890	3800	2830	1920	1590	1050	2130	533	541	374	443
26	613	3280	5120	2790	1900	1740	925	2030	504	401	409	469
27	514	2990	5350	2760	1900	1890	883	2080	442	346	396	465
28	492	2980	4900	2740	1900	1770	937	2110	463	435	380	421
29	456	3290	4420	2730	1880	1680	963	2150	486	529	371	422
30	495	3330	4910	2720	---	1620	975	2210	550	567	382	427
31	748	---	5310	2690	---	1560	---	2180	---	525	399	---
TOTAL	17522	79490	114870	103140	60500	50040	36262	55204	42774	16332	11179	12461
MEAN	565	2650	3705	3327	2086	1614	1209	1781	1426	527	361	415
MAX	1420	5210	5350	4930	2640	1930	1540	2450	2750	780	481	484
MIN	414	1180	2970	2690	1880	1230	883	984	442	346	328	381
AC-FT	34750	157700	227800	204600	120000	99250	71930	109500	84840	32390	22170	24720

CAL YR 1983 TOTAL 1042267 MEAN 2856 MAX 7010 MIN 414 AC-FT 2067000
WTR YR 1984 TOTAL 599774 MEAN 1639 MAX 5350 MIN 328 AC-FT 1190000

10350400 TRUCKEE RIVER BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank on upstream side of bridge, 200 ft downstream from Tracy powerplant, and 13 mi east of Sparks, and at mile 40.62 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,590 mi^2.

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft, National Geodetic Vertical Datum of 1929, (levels by S.E.A. Engineers, Sparks, Nev.)

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--12 years, 975 ft^3/s, 706,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft^3/s Jan. 14, 1980, gage height, 11.11 ft, maximum gage height 11.46 ft Dec. 20, 1981; minimum, 22 ft^3/s Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,640 ft^3/s Nov. 24, gage height, 10.59 ft; minimum, 282 ft^3/s Aug. 18, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	1140	3750	5040	2560	1790	1470	841	1930	467	439	352
2	1140	1310	3700	4870	2430	1780	1440	884	1910	464	434	351
3	819	1270	3940	4680	2400	1820	1350	953	2010	451	360	344
4	488	1350	3930	4540	2390	1820	1330	1240	2250	422	328	339
5	398	1420	3600	4240	2370	1810	1210	1210	2700	480	335	314
6	394	1500	3390	4120	2350	1820	1160	1240	2570	576	337	348
7	486	1620	3400	3650	2350	1840	1120	1260	2320	698	334	327
8	481	1780	3490	3540	1880	1860	1190	1370	2040	686	318	322
9	457	1820	3520	3500	1750	1880	1230	1470	1780	668	306	329
10	422	2050	3610	3460	1780	1480	1290	1510	1730	617	304	323
11	486	3320	3690	3410	1770	1380	1260	1600	1590	542	303	326
12	479	2680	3640	3360	1770	1380	1170	1870	1570	447	294	329
13	433	2710	3820	3310	1830	1410	1130	1790	1660	421	293	343
14	429	2510	3900	3290	1940	1660	1020	1810	1780	390	306	351
15	436	2340	3800	3250	1870	1340	1080	1650	1640	363	301	347
16	437	2360	3770	3230	2040	1270	1190	1440	1500	345	311	355
17	431	4480	3810	3080	1870	1350	1280	1440	1490	337	305	359
18	435	3520	3680	2960	1830	1290	1280	1410	1350	406	294	363
19	426	3010	3610	2950	1830	1280	1320	1640	1070	442	298	388
20	440	4200	3570	2840	1830	1260	1220	1960	866	476	305	451
21	433	3560	3480	2790	1900	1320	912	2070	728	448	294	419
22	444	3430	3180	2780	1850	1260	864	1980	666	484	323	410
23	457	3540	3180	2780	1850	1150	908	2150	524	572	308	370
24	509	5210	3220	2780	1840	1210	919	2370	477	724	298	363
25	497	5390	3920	2770	1820	1510	919	2060	474	538	302	399
26	557	3620	5120	2730	1810	1670	802	1910	451	408	338	439
27	477	3260	5410	2690	1810	1860	738	1980	392	338	334	440
28	453	3170	5120	2670	1810	1740	795	2040	404	391	329	401
29	420	3490	4620	2640	1800	1630	814	2060	427	473	319	397
30	444	3550	4920	2630	---	1560	836	2120	469	506	323	402
31	653	---	5350	2600	---	1490	---	2100	---	494	327	---
TOTAL	16291	84610	121140	103180	57330	47920	33247	51428	40768	15074	10000	11001
MEAN	526	2820	3908	3328	1977	1546	1108	1659	1359	486	323	367
MAX	1430	5390	5410	5040	2560	1880	1470	2370	2700	724	439	451
MIN	394	1140	3180	2600	1750	1150	738	841	392	337	293	314
AC-FT	32310	167800	240300	204700	113700	95050	65950	102000	80860	29900	19840	21820

CAL YR 1983	TOTAL	1041890	MEAN	2854	MAX	6840	MIN	394	AC-FT	2067000
WTR YR 1984	TOTAL	591989	MEAN	1617	MAX	5410	MIN	293	AC-FT	1174000

10350500 TRUCKEE RIVER AT CLARK, NV

WATER-QUALITY RECORDS

LOCATION.--Lat 39°33'55", long 119°29'02", in SE¼SW¼ sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 30 ft downstream from Clark Bridge, about 2 mi downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi west of Clark.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--April 1972 to current year.
SPECIFIC CONDUCTANCES: October 1983 to current year, hourly.
WATER TEMPERATURES: April and May 1972, monthly; June 1972 to September 1977, continuous; October 1977 to May 1978, monthly; June 1978 to February 1980, four times per hour; March 1980 to May 1982, twice per hour; June 1982 to current year, hourly.

INSTRUMENTATION.--Temperature recorder from June 1972 to current year. Specific-conductance recorder since October 1983.

REMARKS.--Periods of no record due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 293 micromhos Aug. 11, 1984; minimum, 87 micromhos Nov. 14, 1983.
WATER TEMPERATURES: Maximum, 29.5°C June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days during winter months of some years.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 293 micromhos Aug. 11; minimum, 87 micromhos Nov. 14.
WATER TEMPERATURES: Maximum, 26.5°C Aug. 8; minimum, 3.5°C Jan. 18.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	12.5	12.0	8.0	7.5	6.0	5.5	7.0	6.0	8.5	6.5
2	---	---	12.5	11.5	8.0	7.5	5.5	5.0	6.5	5.5	9.0	7.5
3	---	---	12.5	11.5	8.0	6.0	5.5	5.0	6.0	5.5	8.5	7.5
4	---	---	12.5	10.5	6.0	5.5	5.5	5.0	6.5	5.5	8.0	6.5
5	18.0	13.5	10.5	9.0	5.5	4.5	5.5	5.5	7.0	6.0	7.5	6.0
6	19.0	14.5	10.5	9.0	7.0	5.5	6.0	5.5	7.5	6.5	8.5	6.5
7	18.0	15.5	11.0	10.5	7.5	6.5	6.0	5.5	7.0	6.0	9.0	7.5
8	17.5	15.0	11.0	9.0	7.5	6.5	6.0	6.0	7.5	6.0	9.5	8.0
9	17.5	15.0	10.0	8.5	7.5	7.0	6.0	5.5	8.5	7.0	10.0	8.0
10	16.5	14.0	9.5	7.5	7.0	6.0	5.5	5.5	8.0	5.5	10.5	8.5
11	15.5	13.0	8.0	6.5	7.0	6.0	6.0	5.5	5.5	5.0	10.0	8.0
12	15.0	13.0	9.0	7.5	6.0	4.5	5.5	5.0	7.5	5.5	9.0	7.5
13	14.5	12.5	10.0	9.0	7.5	6.0	5.0	4.5	8.0	7.0	9.5	8.0
14	14.0	11.5	10.0	6.5	8.0	7.5	5.0	4.0	6.5	5.0	8.5	6.5
15	14.0	11.0	7.5	6.5	8.0	7.0	5.0	4.5	7.0	5.5	8.5	7.0
16	14.0	10.5	9.0	7.5	7.5	7.0	5.0	4.5	7.0	5.0	7.5	6.0
17	14.0	11.0	8.5	6.5	7.5	7.0	5.0	4.0	6.0	4.5	7.5	5.5
18	15.0	11.0	7.0	5.5	7.0	6.5	4.0	3.5	6.0	4.5	8.0	6.0
19	14.5	11.5	7.0	6.0	7.0	7.0	5.0	4.0	6.5	5.0	9.0	7.0
20	14.0	12.0	7.5	6.5	7.0	5.5	5.0	4.5	7.0	5.5	10.0	8.0
21	14.0	12.0	8.0	7.5	5.5	4.5	6.5	5.0	7.5	6.0	10.0	8.5
22	13.5	11.5	---	---	5.0	4.0	6.5	5.5	6.0	4.5	9.5	7.5
23	13.0	11.0	---	---	4.5	4.0	6.0	5.5	5.5	4.5	9.5	7.5
24	13.5	10.5	---	---	5.0	4.0	6.5	5.5	7.0	5.0	10.0	8.0
25	14.0	11.5	---	---	6.0	5.0	6.5	6.0	6.5	5.5	9.5	8.0
26	14.0	11.5	---	---	6.0	5.5	6.5	6.0	6.5	5.0	9.5	8.0
27	14.0	12.5	---	---	6.0	5.5	6.0	5.0	7.0	5.5	9.5	7.5
28	12.5	11.5	---	---	5.0	4.0	6.0	5.5	8.0	6.5	9.5	7.5
29	11.5	10.5	6.5	6.0	6.0	5.0	6.5	5.5	6.5	6.0	9.5	7.0
30	11.5	10.0	7.0	6.5	7.0	6.0	7.0	6.0	---	---	9.0	6.0
31	12.5	10.5	---	---	6.5	5.5	7.0	6.0	---	---	8.5	7.5
MONTH	19.0	10.0	12.5	5.5	8.0	4.0	7.0	3.5	8.5	4.5	10.5	5.5

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	7.0	11.0	9.0	14.5	12.5			---	---	22.0	17.0
2	9.5	6.5	12.5	9.0	15.0	13.0			---	---	22.5	17.0
3	10.5	8.0	14.0	11.0	15.0	12.5			---	---	23.0	17.5
4	10.5	9.0	13.5	11.5	14.5	13.0			26.0	19.5	23.5	18.5
5	9.5	8.5	12.0	11.0	14.0	11.5			25.0	20.0	24.0	19.5
6	10.0	8.0	11.5	10.0	14.0	12.5			25.0	19.0	22.5	18.5
7	10.5	8.0	12.0	10.0	14.5	11.0			25.5	19.5	23.0	17.5
8	10.5	9.0	13.5	11.0	15.0	12.5			26.5	20.5	23.5	18.0
9	9.5	7.0	14.0	12.0	15.0	13.0			26.0	21.5	24.0	19.0
10	9.5	7.0	13.0	11.0	14.5	12.5			25.0	21.0	24.0	19.0
11	10.0	7.0	14.0	12.0	---	---			23.5	20.0	22.5	18.0
12	11.5	9.0	13.5	11.0	---	---			24.5	20.0	22.0	17.0
13	12.0	9.5	15.0	13.0	---	---			22.0	20.0	22.5	17.0
14	13.5	10.5	14.0	12.0	---	---			25.0	19.5	23.0	18.5
15	14.5	12.0	11.0	9.0	---	---			25.0	21.0	23.0	18.5
16	13.5	11.0	11.0	8.0	---	---			24.5	19.5	22.5	17.5
17	13.0	11.0	13.5	11.0	---	---			26.0	20.0	23.0	17.5
18	12.0	8.5	14.0	11.0	---	---			25.5	20.5	23.0	19.0
19	9.0	7.5	15.0	13.0	---	---			25.0	20.0	21.5	19.0
20	10.0	7.5	15.0	13.0	---	---			25.5	19.5	20.0	18.0
21	11.5	8.0	14.0	12.0	---	---			25.0	20.0	19.5	17.5
22	14.0	10.5	15.0	12.0	---	---			24.5	20.0	19.0	15.0
23	14.5	12.5	14.0	13.0	---	---			25.0	20.5	18.0	14.5
24	14.5	11.5	13.0	13.0	---	---			24.0	19.5	17.0	13.5
25	11.5	7.5	14.0	11.0	---	---			21.0	18.5	16.0	12.0
26	9.0	6.5	15.0	12.5	---	---			23.0	17.5	17.0	12.5
27	9.0	7.0	14.5	12.5	---	---			24.5	19.5	18.5	14.0
28	11.0	8.0	15.0	12.5	---	---			24.5	19.5	18.5	14.5
29	12.0	10.0	15.0	14.0	---	---			25.0	20.5	18.5	14.5
30	11.0	10.0	15.0	12.5	---	---			24.5	20.5	16.5	13.5
31	---	---	15.0	12.5	---	---			22.5	17.5	---	---
MONTH	14.5	6.5	15.0	8.0	15.0	11.0			26.5	17.5	24.0	12.0
YEAR	26.5	3.5										

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	244	236	125	123	126	124	144	143	152	147
2	---	---	247	211	128	124	125	124	146	144	152	145
3	---	---	209	203	139	129	125	123	146	144	152	146
4	---	---	211	203	140	137	125	123	147	145	154	147
5	---	---	206	179	137	132	126	124	147	146	153	146
6	---	---	176	165	134	132	126	124	148	145	153	147
7	---	---	175	164	134	133	127	126	147	145	153	146
8	---	---	185	176	136	134	128	126	154	145	153	147
9	---	---	198	186	136	134	127	126	155	153	153	146
10	---	---	195	175	136	133	127	126	156	153	156	151
11	---	---	182	172	136	132	127	125	155	153	162	155
12	---	---	181	176	136	131	126	125	156	154	162	154
13	---	---	177	173	131	129	127	126	157	154	164	156
14	---	---	171	87	132	129	128	126	160	154	171	162
15	---	---	120	95	131	129	128	127	159	157	170	163
16	---	---	112	105	130	129	133	126	163	158	172	164
17	---	---	104	94	133	130	131	127	163	158	171	162
18	---	---	105	100	132	130	131	126	159	157	173	164
19	275	253	105	98	132	130	131	129	159	156	172	160
20	265	251	98	92	131	129	133	131	158	156	172	161
21	258	239	97	95	130	128	135	132	157	154	170	160
22	247	239	---	---	132	130	137	136	157	153	171	163
23	248	219	---	---	132	129	140	137	156	153	173	170
24	253	225	---	---	131	128	151	140	156	154	173	170
25	258	246	---	---	131	128	143	140	155	152	171	152
26	260	254	---	---	129	126	142	139	155	152	160	149
27	273	258	---	---	129	127	141	139	153	150	156	148
28	269	213	---	---	127	124	141	139	153	151	151	148
29	253	214	125	123	128	126	143	142	153	150	150	147
30	251	241	124	121	128	124	144	142	---	---	148	147
31	242	236	---	---	126	124	143	142	---	---	146	144
MONTH	275	213	247	87	140	123	151	123	163	143	173	144

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	146	144	152	148	101	95			---	---	266	255
2	148	143	151	149	104	97			---	---	259	251
3	147	142	151	136	106	103			---	---	265	249
4	147	144	148	128	105	104			---	---	268	258
5	152	143	130	107	105	101			---	---	277	262
6	156	152	116	107	101	91			260	255	274	259
7	155	152	109	106	104	92			263	250	263	245
8	154	151	109	106	108	100			282	257	266	253
9	160	151	114	105	115	109			285	262	266	254
10	160	153	108	105	118	110			290	273	267	253
11	162	158	107	104	---	---			293	276	266	254
12	162	158	113	104	---	---			284	271	267	256
13	161	158	112	103	---	---			279	268	261	250
14	161	158	106	103	---	---			289	271	264	250
15	168	160	105	102	---	---			285	277	263	251
16	168	157	111	102	---	---			281	273	261	248
17	164	157	110	101	---	---			282	266	259	246
18	159	156	110	101	---	---			279	266	262	246
19	157	148	109	100	---	---			276	268	258	241
20	154	147	103	100	---	---			275	266	239	225
21	157	147	102	99	---	---			282	265	240	225
22	163	156	101	99	---	---			283	262	243	233
23	161	154	107	98	---	---			281	264	255	231
24	162	154	101	98	---	---			280	266	254	247
25	155	152	100	97	---	---			288	274	253	230
26	155	151	100	97	---	---			269	256	231	215
27	154	151	97	95	---	---			269	254	226	217
28	154	152	97	95	---	---			272	262	231	223
29	158	150	97	95	---	---			274	262	232	225
30	153	150	97	94	---	---			286	265	233	226
31	---	---	98	94	---	---			273	264	---	---
MONTH	168	142	152	94	118	91			293	250	277	215
YEAR	293	87										

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION.--Lat 39°36 25", long 119°18'35", in NW¼NE¼ sec.17, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, on left bank at upstream end of Tunnel No. 3, 2 mi southwest of Wadsworth, and at mile 22.85 upstream from terminal weir at Lahontan Reservoir.

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

REVISED RECORDS.--WDR NV-77-1: 1975.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft, from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi downstream from base gage.

REMARKS.--Records fair, except those for October thru March, which are poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

AVERAGE DISCHARGE.--18 years , 260 ft^3/s, 188,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft^3/s June 10, 1970; no flow at times in some years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	42	32	21	19	20	80	175	247	253	198	266
2	88	3.2	31	18	22	19	79	179	254	270	209	276
3	88	2.7	31	16	24	20	74	183	258	281	193	274
4	19	32	31	15	28	21	73	180	257	274	182	275
5	15	48	29	17	32	20	70	178	234	274	194	252
6	2.7	49	29	18	38	20	81	185	218	226	218	258
7	8.6	47	28	18	43	22	100	187	210	209	252	266
8	73	48	27	14	34	86	101	196	198	215	241	242
9	89	48	24	10	.77	85	114	201	197	217	227	246
10	63	48	23	7.9	16	65	94	214	193	211	215	258
11	85	46	23	6.5	45	37	75	214	189	209	210	258
12	87	46	30	6.3	66	33	84	192	184	233	201	250
13	80	43	1.2	8.1	81	34	96	192	189	237	173	260
14	62	43	.56	9.9	41	173	106	195	190	251	192	261
15	84	43	1.8	12	28	180	104	197	172	221	207	250
16	87	42	2.7	14	22	160	115	197	150	243	205	247
17	83	45	27	16	23	117	126	194	153	277	214	239
18	87	42	46	17	22	102	130	187	168	256	211	144
19	59	41	43	17	22	100	133	186	153	131	217	133
20	33	43	22	13	22	99	126	201	162	144	215	146
21	78	43	19	10	23	102	118	177	180	129	206	134
22	86	42	18	7.8	25	105	118	176	185	125	219	126
23	101	42	17	6.0	23	93	132	204	184	145	227	118
24	92	42	16	4.8	22	92	161	235	224	133	212	111
25	95	28	18	3.5	21	107	145	181	204	155	205	110
26	91	39	23	2.7	21	113	127	230	203	194	232	115
27	62	37	22	3.0	21	88	142	255	235	169	246	95
28	4.8	37	21	7.5	21	83	153	227	273	231	239	65
29	1.0	40	20	13	20	69	162	234	273	244	233	82
30	.62	40	18	16	---	67	173	247	288	236	234	84
31	133	---	21	16	---	69	---	248	---	242	253	---
TOTAL	2023.72	1191.9	695.26	365.0	825.77	2401	3392	6247	6225	6635	6680	5841
MEAN	65.3	39.7	22.4	11.8	28.5	77.5	113	202	208	214	215	195
MAX	133	49	46	21	81	180	173	255	288	281	253	276
MIN	.62	2.7	.56	2.7	.77	19	70	175	150	125	173	65
AC-FT	4010	2360	1380	724	1640	4760	6730	12390	12350	13160	13250	11590

CAL YR 1983	TOTAL	41363.58	MEAN	113	MAX	327	MIN	.00	AC-FT	82040
WTR YR 1984	TOTAL	42522.65	MEAN	116	MAX	288	MIN	.56	AC-FT	84340

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION.--Lat 39°29'56", long 119°02'29", in SW¼NE¼ sec.23, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft downstream from Bango check dam and 4.5 mi southwest of Hazen.

PERIOD OF RECORD.--October 1966 to current year. Records since Oct. 1, 1980 equivalent if records for the KX lateral are added to flow past station.

GAGE.--Water-stage recorder. Datum of gage is 4,166.53 ft, Bureau of Reclamation datum. Since Oct. 1, 1980, at site 500 ft downstream from Bango check dam. From Mar. 17, 1972, to Sept. 30, 1980, gage on left bank 0.1 mi downstream from Hazen check dam and auxiliary water-stage recorder 20 ft upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi downstream from base gage.

REMARKS.--Records poor. No gage-height record June 5 to July 9. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--18 years (1967-84) 190 ft^3/s, 137,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft^3/s Feb. 3, 1967; no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	15	19	3.8	.00	3.7	18	42	93	88	138	88
2	72	60	13	4.1	1.5	.00	30	70	130	88	77	98
3	121	10	12	3.4	6.1	.00	37	68	195	87	105	115
4	42	2.0	12	1.9	12	3.4	29	64	194	86	36	134
5	8.0	2.0	11	.81	11	3.7	20	51	180	84	18	125
6	5.0	20	14	.23	14	.62	13	64	120	82	40	160
7	2.8	27	7.1	.00	5.7	1.7	29	77	78	78	68	181
8	1.4	28	6.6	.00	3.9	2.3	54	58	56	76	64	126
9	74	26	4.8	.00	3.1	15	77	54	50	51	59	111
10	70	27	2.3	.00	2.1	9.7	81	79	49	39	54	155
11	39	27	.00	.00	.77	4.1	22	69	48	8.4	51	236
12	88	27	2.8	.00	.77	2.0	18	64	47	48	50	180
13	79	26	19	.00	1.1	11	14	90	46	55	48	222
14	75	21	25	.00	1.4	21	35	135	46	45	49	165
15	65	20	15	.41	.57	168	20	146	45	93	52	174
16	56	21	1.1	.00	1.0	147	14	167	44	66	55	200
17	65	22	.00	.00	.53	22	24	151	44	111	57	219
18	70	31	.06	.00	.88	49	42	143	44	116	58	170
19	68	24	29	.00	2.6	70	69	43	45	92	58	79
20	70	21	26	.00	6.4	69	76	48	45	69	53	87
21	34	24	9.5	.00	7.6	56	26	122	46	59	57	105
22	20	25	4.8	.00	8.4	77	33	49	47	50	60	103
23	44	22	3.0	.00	9.0	75	53	12	49	106	64	85
24	50	24	2.6	.00	11	47	70	116	52	128	60	106
25	56	21	1.7	.00	8.2	41	39	96	55	64	62	108
26	52	7.0	2.6	.00	6.1	87	41	38	60	117	64	125
27	53	14	4.8	.00	5.7	89	10	83	66	110	70	135
28	50	14	9.2	.00	5.4	36	15	127	74	41	73	35
29	30	13	6.0	.00	5.0	34	61	106	82	82	74	.09
30	8.0	19	4.9	.00	---	34	76	139	86	126	74	.13
31	8.0	---	3.7	.00	---	12	---	139	---	130	80	---
TOTAL	1546.2	640.0	272.56	14.65	141.82	1191.22	1146	2710	2216	2480.4	1933	3827.22
MEAN	49.9	21.3	8.79	.47	4.89	38.4	38.2	87.4	73.9	80.0	62.4	128
MAX	121	60	29	4.1	14	168	81	167	195	130	138	236
MIN	1.4	2.0	.00	.00	.00	.00	10	12	44	8.4	18	.09
AC-FT	3070	1270	541	29	281	2360	2270	5380	4400	4920	3830	7590

CAL YR 1983 TOTAL 15715.79 MEAN 43.1 MAX 210 MIN .00 AC-FT 31170
WTR YR 1984 TOTAL 18119.07 MEAN 49.5 MAX 236 MIN .00 AC-FT 35940

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW¼SE¼ sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, on right bank 1,500 ft downstream from Derby Dam, 3.2 mi downstream from Clark, 9 mi southwest of Wadsworth, and at mile 34.49 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,676 mi^2.

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.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft, from topographic map.

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.

AVERAGE DISCHARGE.--65 years (1918-57, 1958-84), 388 ft^3/s, 281,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft^3/s Feb. 1, 1963, gage height, 14.26 ft, from rating curve extended above 1,500 ft^3/s on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,760 ft^3/s Nov. 24, gage height, 9.76 ft; minimum daily, 15 ft^3/s Oct. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	849	3570	4840	2340	1630	1320	711	1690	175	108	41
2	776	1220	3520	4690	2240	1620	1280	747	1680	172	106	44
3	409	1180	3720	4490	2210	1660	1210	792	1760	165	54	40
4	84	1250	3780	4360	2200	1660	1200	1040	1960	143	34	39
5	85	1320	3440	4070	2190	1650	1090	1040	2480	174	34	35
6	49	1390	3200	3980	2180	1660	1020	1060	2370	254	34	42
7	29	1450	3210	3530	2170	1670	957	1070	2160	364	37	39
8	28	1580	3280	3410	1790	1690	993	1180	1880	360	43	37
9	27	1640	3310	3360	1600	1720	1040	1260	1610	341	41	37
10	23	1880	3410	3320	1620	1390	1100	1310	1530	299	41	37
11	27	3080	3460	3280	1620	1270	1100	1380	1410	234	40	37
12	28	2480	3470	3230	1610	1260	1020	1610	1380	165	40	42
13	15	2520	3650	3190	1650	1250	998	1550	1430	133	39	45
14	42	2330	3690	3160	1780	1490	899	1560	1560	104	40	47
15	24	2160	3570	3120	1700	1190	938	1430	1450	43	39	46
16	30	2160	3590	3120	1860	1120	1030	1260	1310	39	40	48
17	32	4120	3600	2980	1710	1190	1110	1230	1260	36	40	49
18	60	3410	3480	2860	1660	1140	1110	1220	1210	58	39	50
19	145	2810	3440	2860	1670	1120	1170	1380	932	88	40	61
20	110	3910	3430	2760	1660	1120	1090	1680	665	117	40	112
21	29	3370	3350	2710	1730	1160	857	1800	534	96	39	87
22	27	3210	3040	2700	1690	1120	804	1710	467	120	41	80
23	28	3310	3030	2700	1700	1020	792	1860	328	163	40	54
24	36	4840	3060	2690	1690	1050	768	2090	195	436	38	47
25	47	5460	3690	2680	1660	1300	775	1860	186	241	37	62
26	47	3440	4890	2650	1640	1430	690	1650	170	91	41	97
27	258	3020	5270	2600	1650	1640	638	1730	134	42	40	100
28	447	2890	4970	2580	1650	1550	668	1770	130	62	40	72
29	409	3220	4410	2580	1640	1450	690	1800	141	118	38	66
30	359	3370	4650	2470	---	1400	708	1870	172	154	37	73
31	226	---	5210	2380	---	1330	---	1860	---	149	36	---
TOTAL	5036	78869	115390	99350	52510	42950	29065	44510	34184	5136	1356	1666
MEAN	162	2629	3722	3205	1811	1385	969	1436	1139	166	43.7	55.5
MAX	1100	5460	5270	4840	2340	1720	1320	2090	2480	436	108	112
MIN	15	849	3030	2380	1600	1020	638	711	130	36	34	35
AC-FT	9990	156400	228900	197100	104200	85190	57650	88290	67800	10190	2690	3300

CAL YR 1983	TOTAL	926958	MEAN	2540	MAX	6280	MIN	15	AC-FT	1839000
WTR YR 1984	TOTAL	510022	MEAN	1394	MAX	5460	MIN	15	AC-FT	1012000

10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°38'19", long 119°16'09", in SW¼SW¼ sec.34, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050102, in Pyramid Lake Indian Reservation, on right bank 0.5 mi downstream from U.S. Highway 40 bridge and 0.2 mi northeast of Wadsworth, and at mile 23.11 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,728 mi^2.

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

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,037.90 ft, National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956.

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. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--19 years, 717 ft^3/s, 519,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,820 ft^3/s Jan. 14, 1980, gage height, 12.41 ft; minimum daily discharge, 3.1 ft^3/s Sept. 4, 1978, Nov. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,490 ft^3/s Nov. 25, gage height, 11.21 ft; minimum daily, 46 ft^3/s July 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1360	1010	3780	5260	2640	1910	1550	842	1820	227	295	48
2	1080	1270	3810	5110	2550	1890	1510	872	1800	195	255	56
3	858	1250	3870	4910	2480	1920	1440	903	1870	161	219	58
4	621	1310	4190	4760	2430	1940	1400	1140	2040	137	161	58
5	445	1370	3710	4460	2480	1930	1260	1210	2580	147	136	57
6	391	1460	3440	4350	2470	1920	1200	1210	2560	302	114	57
7	397	1570	3410	3920	2460	1950	1080	1250	2370	468	60	71
8	401	1680	3500	3700	2160	1990	1110	1360	2070	496	59	65
9	362	1760	3540	3630	1850	2010	1180	1410	1760	493	56	59
10	347	1950	3670	3570	1890	1720	1270	1450	1660	457	53	51
11	349	2840	3650	3530	1890	1510	1310	1510	1590	389	50	52
12	357	2920	3770	3450	1890	1520	1210	1790	1530	281	53	56
13	357	2620	3910	3420	1910	1490	1160	1790	1570	190	99	65
14	403	2530	3990	3390	2130	1660	1020	1780	1730	149	87	68
15	292	2310	3910	3350	1990	1320	1040	1660	1680	140	58	69
16	320	2250	3840	3340	2150	1270	1130	1500	1540	103	55	67
17	320	3470	3860	3210	2010	1350	1220	1410	1470	46	58	60
18	320	4380	3720	3040	1930	1330	1230	1410	1420	89	51	198
19	386	2990	3660	3040	1940	1290	1300	1520	1120	326	51	211
20	418	3990	3630	2920	1940	1290	1250	1880	837	350	58	271
21	330	3790	3570	2860	2000	1320	995	2050	698	350	60	267
22	310	3420	3260	2840	1990	1320	876	1970	598	365	67	255
23	281	3470	3190	2850	1990	1200	861	2040	455	382	63	225
24	359	4130	3180	2840	1970	1200	841	2230	269	692	58	201
25	372	6400	3710	2850	1960	1460	928	2150	318	459	55	199
26	410	4060	4950	2820	1920	1600	904	1810	305	208	61	251
27	504	3360	5560	2760	1910	1900	791	1820	213	153	59	278
28	505	3100	5410	2740	1920	1820	778	1910	133	89	50	326
29	463	3370	4820	2720	1910	1710	803	1950	140	162	55	256
30	454	3560	4850	2680	---	1680	835	2000	151	269	53	248
31	239	---	5540	2690	---	1580	---	2010	---	279	51	---
TOTAL	14011	83590	122900	107010	60760	50000	33482	49837	38297	8554	2660	4203
MEAN	452	2786	3965	3452	2095	1613	1116	1608	1277	276	85.8	140
MAX	1360	6400	5560	5260	2640	2010	1550	2230	2580	692	295	326
MIN	239	1010	3180	2680	1850	1200	778	842	133	46	50	48
AC-FT	27790	165800	243800	212300	120500	99180	66410	98850	75960	16970	5280	8340

CAL YR 1983 TOTAL 1022217 MEAN 2801 MAX 7270 MIN 239 AC-FT 2028000
WTR YR 1984 TOTAL 575304 MEAN 1572 MAX 6400 MIN 46 AC-FT 1141000

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV
(National Stream-Quality Accounting Network and Pesticide Network Station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW¼NW¼ sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank 1.0 mi upstream from Numana Dam, 4 mi south of Nixon, and at mile 9.42 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,827 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to Sept. 1957 at site 1.0 mi downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Inidan 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.

REVISED RECORDS.--WDR NV-83-1: 1980 (monthly runoff).

GAGE.--Water-stage recorder. Altitude of gage is 3,940 ft, from topographic map.

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 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.

AVERAGE DISCHARGE.--27 years, 576 ft^3/s, 417,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft^3/s Feb. 2, 1963, gage height, 14.39 ft; minimum daily, 8.1 ft^3/s July 7, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a stage of 14.1 ft, from floodmarks, discharge, 14,000 ft^3/s, by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,560 ft^3/s Nov. 25, gage height, 9.30 ft; minimum daily, 55 ft^3/s Sept. 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	810	3680	5010	2690	1850	1490	763	1810	239	274	68
2	1090	1130	3730	4850	2600	1820	1460	778	1760	240	256	72
3	823	1140	3760	4660	2540	1860	1400	819	1830	190	222	74
4	627	1190	4080	4540	2510	1860	1370	1040	1960	166	174	69
5	430	1250	3700	4290	2500	1860	1260	1170	2590	158	143	69
6	389	1320	3490	4190	2480	1860	1210	1180	2580	265	137	71
7	379	1410	3440	3860	2460	1880	1090	1190	2410	424	86	75
8	392	1540	3510	3670	2220	1910	1100	1270	2090	471	75	66
9	350	1610	3540	3610	1830	1940	1180	1340	1790	471	74	63
10	340	1770	3650	3560	1860	1720	1230	1390	1670	448	69	57
11	334	2590	3610	3510	1860	1460	1320	1430	1600	389	64	55
12	340	2860	3760	3460	1840	1460	1230	1660	1540	317	59	59
13	338	2520	3810	3420	1850	1440	1170	1720	1550	240	88	74
14	352	2480	3890	3380	2060	1590	1040	1680	1680	174	98	78
15	296	2250	3860	3340	1930	1310	1050	1610	1670	170	76	83
16	305	2170	3800	3330	2070	1240	1130	1480	1530	166	69	83
17	300	3080	3810	3230	1970	1310	1220	1370	1450	91	72	85
18	301	4170	3720	3090	1890	1300	1250	1380	1430	76	69	145
19	339	3000	3660	3090	1880	1270	1310	1440	1170	261	68	208
20	377	3700	3650	2980	1880	1260	1270	1740	885	314	68	241
21	312	3650	3600	2930	1930	1280	1050	1980	727	336	71	265
22	290	3360	3360	2910	1940	1300	897	1900	622	347	77	256
23	263	3440	3270	2900	1920	1170	891	1950	526	356	79	245
24	314	3860	3270	2890	1910	1170	826	2140	323	576	74	219
25	329	5800	3650	2890	1880	1380	883	2100	337	480	74	217
26	351	4050	4670	2860	1870	1510	863	1790	336	267	77	256
27	420	3420	5280	2820	1860	1780	753	1770	288	190	77	281
28	446	3210	5200	2800	1860	1750	725	1850	175	141	73	343
29	410	3430	4680	2780	1860	1650	740	1890	172	134	72	293
30	395	3560	4630	2740	---	1610	765	1940	176	251	72	278
31	227	---	5310	2730	---	1530	---	1960	---	296	70	---
TOTAL	13129	79770	121070	106320	59950	48330	33173	47720	38677	8644	3057	4448
MEAN	424	2659	3905	3430	2067	1559	1106	1539	1289	279	98.6	148
MAX	1270	5800	5310	5010	2690	1940	1490	2140	2590	576	274	343
MIN	227	810	3270	2730	1830	1170	725	763	172	76	59	55
AC-FT	26040	158200	240100	210900	118900	95860	65800	94650	76720	17150	6060	8820

CAL YR 1983 TOTAL 989346 MEAN 2711 MAX 6490 MIN 227 AC-FT 1962000
WTR YR 1984 TOTAL 564288 MEAN 1542 MAX 5800 MIN 55 AC-FT 1119000

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to November 1961, May 1962 to current year.
CHEMICAL ANALYSES: January 1969 to December 1971 and January 1973 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
SPECIFIC CONDUCTANCES: January to December 1969, monthly or more frequently; January 1970 to April 1980, monthly; May 1980 to September 1983, hourly; October 1983 to current year, four times per year.
BIOLOGICAL DATA: January 1973 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: February 1973 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
WATER TEMPERATURES: March 1960 to November 1961 and May 1962 to March 1965, monthly; April 1965 to June 1975, monthly or more frequently; July 1975 to April 1980, monthly; May 1980 to September 1983, hourly; October 1983 to current year, four times per year.
SEDIMENT DATA: December 1964 to June 1975, monthly or more frequently; July 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 1,110 micromhos Nov. 18, 1977; minimum, 74 micromhos Apr. 12, 1983.
PHYTOPLANKTON: Maximum, 31,000 cells/mL July 21, 1976, Aug. 10, 1978; minimum, 150 cells/mL May 12, 1980.
FECAL STREPTOCOCCI: Maximum, 5,300 colonies/100 mL Jan. 15, 1980; minimum, 2 colonies/100 mL Mar. 15, 1973, Dec. 11, 1974.
WATER TEMPERATURES: Maximum, 28.5°C July 3, 4, 1981, July 30, 1982; minimum, freezing point Jan. 4, 1973, Dec. 15, 1975, Dec. 20, 1978, and Dec. 8-11, 1980.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,530 mg/L Mar. 17, 1967; minimum, 2 mg/L several times during period of record.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
10...	1215	1820	140	7.9	9.0	11	9.5	96	66	310	43
MAR											
21...	1200	1260	180	7.7	8.5	8.5	11.0	109	K6	120	55
MAY											
31...	1200	1980	105	7.6	15.0	15	8.4	96	K80	730	35
AUG											
30...	1100	72	520	9.1	22.0	12	9.3	123	K20	1300	150

K: NON-IDEAL COLONY COUNT.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV											
10...	11	3.7	11	.8	2.3	53	6.3	7.3	<.10	16	85
MAR											
21...	14	4.7	15	.9	2.2	66	14	11	.10	20	125
MAY											
31...	9.0	3.1	8.2	.6	1.8	39	7.6	5.3	<.10	19	71
AUG											
30...	36	14	54	2	6.1	110	64	68	.10	14	325

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)
NOV										
10...	90	418	.300	.140	1.0	.100	.030	<.010	30	4
MAR										
21...	120	425	.290	.080	.40	.040	.010	.020	10	6
MAY										
31...	78	380	.220	.090	.80	.080	.050	.060	30	4
AUG										
30...	320	63	.290	<.010	1.3	.110	.010	<.010	20	8

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV										
10...	22	<.5	<1	<1	<3	1	36	<1	25	13
MAR										
21...	29	<.5	<1	<1	<3	2	11	3	28	9
MAY										
31...	28	<1	<1	<1	<3	1	50	5	22	--
AUG										
30...	73	1	<1	<1	<3	2	21	2	46	9

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV										
10...	.1	<10	<1	<1	<1	110	<6	13	68	334
MAR										
21...	<.1	<10	<1	<1	<1	150	<6	15	32	109
MAY										
31...	<.1	<10	1	<1	<1	99	<6	8	76	406
AUG										
30...	<.1	<10	2	<1	<1	350	7	8	42	8.2

10352500 McDERMITT CREEK NEAR McDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE¼SE¼ sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on right bank at mouth of canyon, 6.5 mi southwest of McDermitt.

DRAINAGE AREA.--225 mi^2.

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

REVISED RECORDS.--WSP 1214: 1949-50 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft, from topographic map. Prior to May 11, 1972, at site approximately 300 ft downstream on left bank at same datum.

REMARKS.--Records good, except those for winter months, which are poor. One diversion for about 1,500 acres above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--36 years, 33.7 ft^3/s, 24,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft^3/s about Feb. 1, 1963, gage height, 8.64 ft, in gage well, from rating curve extended above 250 ft^3/s on basis of slope-area measurement of peak flow, maximum gage height, 8.70 ft about Mar. 17, 1983; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Dec. 15	1100	249	4.68	Apr. 6	0200	402	5.21
Mar. 1	2100	163	4.36	Apr. 15	2300	*816	6.29
Mar. 14	0400	418	5.32	May 3	2400	428	5.26
Mar. 21	0300	531	5.63	May 15	0700	528	5.56

Minimum daily discharge, 6.0 ft^3/s, Aug. 20, 22-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	9.9	21	18	16	83	219	249	215	72	27	17
2	9.9	11	21	17	17	84	220	296	195	71	25	14
3	9.9	12	21	16	19	70	226	339	186	67	22	12
4	9.7	12	19	15	21	61	272	342	184	64	20	11
5	9.1	12	18	15	24	56	321	309	196	61	19	9.9
6	9.1	12	21	15	26	63	338	271	211	58	17	8.4
7	8.4	11	26	15	30	74	279	255	220	64	16	7.8
8	8.4	9.9	31	15	33	95	383	257	179	64	14	9.1
9	13	9.1	31	15	39	177	293	320	157	58	13	9.1
10	12	9.9	50	15	44	219	260	350	157	53	12	9.1
11	11	17	60	15	50	197	243	388	147	50	11	9.1
12	11	22	56	15	56	178	222	453	143	47	10	9.1
13	11	17	50	15	66	207	266	447	124	44	10	8.4
14	12	14	56	15	80	348	358	471	120	42	10	9.1
15	12	12	194	15	86	292	518	469	115	41	9.9	8.4
16	11	12	124	15	85	209	608	375	112	40	9.9	7.6
17	11	15	92	15	77	185	627	322	113	37	9.9	7.6
18	9.9	37	75	15	67	154	518	301	111	40	9.1	7.1
19	9.1	26	69	15	66	182	435	289	112	42	6.6	6.6
20	8.4	25	58	15	80	301	333	302	109	43	6.0	6.6
21	8.4	21	54	15	73	418	314	304	109	43	6.6	6.6
22	8.4	15	37	15	57	292	361	279	101	42	6.0	7.1
23	9.1	18	35	15	57	287	404	269	97	40	6.0	7.1
24	9.9	20	32	15	60	323	367	269	92	38	6.0	11
25	9.9	29	30	15	54	278	297	258	89	36	6.0	14
26	9.9	23	30	15	44	278	264	247	86	34	6.0	14
27	9.9	22	27	15	48	258	238	247	81	32	6.0	14
28	9.9	23	24	15	54	229	219	239	79	29	6.0	14
29	9.9	21	22	15	58	218	219	226	76	30	6.0	12
30	9.9	20	20	15	---	202	224	236	76	31	6.0	12
31	9.1	---	19	15	---	232	---	241	---	30	19	---
TOTAL	310.1	517.8	1423	471	1487	6250	9846	9620	3992	1443	357.0	298.8
MEAN	10.0	17.3	45.9	15.2	51.3	202	328	310	133	46.5	11.5	9.96
MAX	13	37	194	18	86	418	627	471	220	72	27	17
MIN	8.4	9.1	18	15	16	56	219	226	76	29	6.0	6.6
AC-FT	615	1030	2820	934	2950	12400	19530	19080	7920	2860	708	593

CAL YR 1983	TOTAL	32541.7	MEAN	89.2	MAX	700	MIN	6.0	AC-FT	64550
WTR YR 1984	TOTAL	36015.7	MEAN	98.4	MAX	627	MIN	6.0	AC-FT	71440

10353500 QUINN RIVER NEAR McDERMITT, NV

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to October 1951, April 1952, November 1961 to current year.
CHEMICAL ANALYSES, MICROBIOLOGICAL AND SEDIMENT DATA: November 1977 to September 1981, monthly; October 1981 to current year, every two months.
SPECIFIC CONDUCTANCES: April 1977 to July 1980, monthly; August 1980 to September 1983, hourly; October 1983 to current year, every two months.
BIOLOGICAL DATA: November 1977 to September 1981, monthly (seasonal).
WATER TEMPERATURES: July 1949 to October 1951, April 1952, and November 1961 to July 1980, monthly; August 1980 to September 1983, hourly; October 1983 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 992 micromhos Sept. 28, 1984; minimum, 253 micromhos Feb. 22, 1982.
PHYTOPLANKTON: Maximum, 51,000 cells/mL July 12, 1978; minimum, 100 cells/mL May 28, 1980.
FECAL STREPTOCOCCI: Maximum, 3,900 colonies/100 mL Nov. 22, 1982; minimum, 9 colonies/100 mL (non-ideal colony count) Sept. 17, 1982.
WATER TEMPERATURES: Maximum, 31.0°C June 21, 23, 1981; minimum, freezing point on some days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 476 mg/L Feb. 27, 1980; minimum, 2 mg/L Oct. 25, 1978.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
16...	1345	7.9	764	8.3	6.5	2.8	10.9	104	K12	130	190
FEB											
02...	1015	133	557	8.1	.0	27	12.0	--	K40	K90	140
MAR											
22...	1415	820	404	8.2	7.0	95	10.9	105	K24	K40	110
SEP											
28...	1200	4.5	992	8.1	11.5	5.3	10.2	109	44	160	200

K: NON-IDEAL COLONY COUNT.

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

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

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV											
16...	51	15	89	3	7.5	205	85	63	1.0	47	474
FEB											
02...	36	11	69	3	5.2	178	57	41	1.0	40	365
MAR											
22...	32	8.1	43	2	5.6	140	32	22	.70	36	260
SEP											
28...	52	18	120	4	8.3	216	130	110	1.3	45	628

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
NOV											
16...	480	10	<.10	.070	.80	.100	.080	.070	<10	12	55
FEB											
02...	370	131	<.10	.070	.70	.130	.060	.060	--	--	--
MAR											
22...	260	576	<.10	.090	.90	.650	.080	.070	--	9	33
SEP											
28...	610	7.6	<.10	.040	.20	.080	.060	.060	10	13	75

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)
NOV										
16...	<.5	<1	1	<3	3	7	<1	67	17	<.1
FEB										
02...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	<.5	<1	<1	<3	5	--	<1	38	20	<.1
SEP										
28...	<1	<1	<1	<3	2	6	2	85	32	<.1

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV										
16...	<10	<1	<1	<1	290	14	10	13	.28	--
FEB										
02...	--	--	--	--	--	--	--	86	31	97
MAR										
22...	<10	<1	<1	<1	160	11	--	--	--	--
SEP										
28...	10	2	<1	<1	350	12	4	28	.34	--

BLACK ROCK DESERT

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW¼SE¼ sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank 2.8 mi downstream from Little Creek, 5 mi upstream from Kings River Ranch, and 36 mi northwest of Orovada.

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--October 1962 to September 1968, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft, from topographic map.

REMARKS.--Recrods good except those for winter months which are poor. No diversion or regulation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--14 years (1962-68, 1978-84), 7.27 ft^3/s, 5,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft^3/s Feb. 1, 1963, gage height 4.00 ft from rating curve extended above 24 ft^3/s on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft^3/s May 13, gage height, 2.88 ft; minimum daily, 2.8 ft^3/s Sept. 18, 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.9	4.3	4.2	5.8	25	38	38	51	28	6.2	3.7
2	3.1	3.8	3.9	4.1	6.3	28	36	38	46	26	5.8	3.3
3	3.0	3.7	4.1	5.0	6.8	29	37	44	40	27	5.6	3.1
4	2.9	3.5	4.3	5.2	8.6	29	40	50	38	24	5.2	3.0
5	3.0	3.6	4.5	5.4	10	33	43	50	40	19	4.9	3.1
6	2.9	3.4	4.7	5.5	11	33	45	47	40	17	4.8	3.4
7	2.9	3.5	4.8	5.5	11	39	44	45	38	15	4.3	3.4
8	3.0	3.3	4.7	5.4	12	56	48	48	35	13	4.1	3.1
9	3.2	3.4	5.6	5.3	14	72	44	67	33	12	4.0	3.0
10	3.1	3.6	7.2	5.4	14	57	43	83	33	11	3.8	3.0
11	3.1	4.6	9.8	5.5	13	55	39	100	31	9.8	4.0	3.1
12	3.1	3.7	5.8	4.5	20	55	39	113	31	9.3	3.9	3.1
13	3.2	3.5	5.6	4.3	21	58	43	112	33	8.5	3.9	3.0
14	3.3	3.5	20	4.1	17	63	53	106	34	7.8	3.8	3.0
15	3.3	3.4	25	3.9	18	66	75	90	36	7.5	3.8	3.1
16	3.2	3.4	10	3.7	22	59	104	68	39	7.1	3.8	3.0
17	3.2	4.8	8.8	3.5	19	56	98	54	42	6.6	3.7	2.9
18	3.1	3.9	7.8	3.6	13	50	82	48	44	6.4	3.6	2.8
19	3.1	4.0	7.5	3.8	14	52	70	45	45	6.1	3.6	2.8
20	3.1	4.1	6.5	3.9	13	59	60	49	46	6.0	3.5	3.1
21	3.1	4.5	6.3	4.1	17	71	58	54	43	6.6	3.5	3.6
22	3.0	4.2	4.8	4.2	14	44	56	53	39	6.5	3.5	3.5
23	3.3	4.2	4.1	4.3	16	46	63	57	38	6.1	3.5	3.5
24	3.1	4.3	5.0	4.4	17	47	63	58	39	6.0	3.4	3.5
25	3.1	4.4	5.9	4.5	18	46	59	55	39	5.6	3.5	3.6
26	3.1	4.2	6.0	4.7	16	62	54	54	37	5.3	3.4	3.6
27	3.1	4.0	5.0	4.7	17	51	51	53	36	5.0	3.3	3.5
28	3.2	3.8	3.7	4.9	18	47	47	52	34	5.0	3.3	3.4
29	3.2	3.8	5.2	5.0	19	45	42	51	35	4.8	3.6	3.4
30	3.6	3.9	6.7	5.1	---	42	39	54	32	4.6	4.4	3.4
31	3.8	---	5.6	5.6	---	40	---	57	---	5.1	4.4	---
TOTAL	97.6	115.9	213.2	143.3	421.5	1515	1613	1893	1147	327.7	126.1	97.0
MEAN	3.15	3.86	6.88	4.62	14.5	48.9	53.8	61.1	38.2	10.6	4.07	3.23
MAX	3.8	4.8	25	5.6	22	72	104	113	51	28	6.2	3.7
MIN	2.9	3.3	3.7	3.5	5.8	25	36	38	31	4.6	3.3	2.8
AC-FT	194	230	423	284	836	3010	3200	3750	2280	650	250	192

CAL YR 1983	TOTAL	7886.0	MEAN	21.6	MAX	125	MIN	2.0	AC-FT	15640
WTR YR 1984	TOTAL	7710.3	MEAN	21.1	MAX	113	MIN	2.8	AC-FT	15290

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank 150 ft east of State Highway 34 and 25 mi north of Gerlach.

DRAINAGE AREA.--31 mi^2, 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, approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft lower.

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

AVERAGE DISCHARGE.--11 years (1974-84) 0.89 ft^3/s, 645 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 476 ft^3/s, Mar. 1, 1983, gage height, 4.13 ft, from rating curve extended above 400 ft^3/s on basis of slope conveyance determination of peak flow; no flow most of the time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of unknown date reached a stage of 9.4 ft, present datum, from floodmarks, estimated discharge, 3,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft^3/s Dec. 14, gage height, 1.36 ft; no flow Sept. 3-17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.41	4.4	9.1	2.3	3.2	2.0	1.9	.66	.22	.01	.01
2	.02	.36	8.4	7.3	2.3	4.5	1.8	1.9	.67	.17	.01	.01
3	.02	.32	8.1	6.1	1.6	3.4	1.5	1.9	.64	.14	.02	.00
4	.02	.30	6.1	6.2	2.2	2.4	1.5	1.9	.68	.13	.02	.00
5	.03	.32	5.1	7.7	3.1	1.3	2.6	1.7	.94	.11	.02	.00
6	.03	.29	4.9	8.3	3.2	1.1	2.9	1.6	1.1	.13	.02	.00
7	.03	.39	10	7.3	2.7	1.8	1.8	1.5	1.1	.12	.01	.00
8	.03	.30	12	6.4	2.8	2.8	1.9	1.3	.78	.10	.01	.00
9	.03	.23	12	6.5	4.7	3.5	1.7	1.2	.68	.09	.01	.00
10	.03	.26	11	5.9	3.3	3.5	2.1	1.1	.84	.07	.01	.00
11	.03	.69	16	4.9	1.8	3.3	2.0	1.2	.79	.05	.02	.00
12	.05	.78	11	3.8	2.7	2.7	1.7	1.3	.71	.03	.02	.00
13	.08	1.1	9.5	3.8	6.1	2.3	1.5	1.4	.60	.03	.02	.00
14	.14	.90	20	2.8	4.1	2.5	1.4	1.6	.65	.02	.01	.00
15	.25	.79	14	2.6	3.6	2.9	1.6	1.8	.52	.01	.01	.00
16	.26	.79	9.6	1.5	2.9	3.4	1.7	1.7	.48	.01	.01	.00
17	.28	.86	15	1.0	1.5	2.7	1.9	1.6	.48	.01	.01	.00
18	.26	.97	10	.82	1.1	2.3	2.0	1.4	.43	.01	.01	.00
19	.26	1.1	8.4	.70	.78	2.0	2.0	1.0	.41	.01	.01	.17
20	.26	1.8	5.8	.60	.75	2.5	2.0	.93	.42	.01	.01	.16
21	.18	1.5	3.9	.58	1.7	2.7	1.9	.95	.46	.01	.01	.09
22	.16	1.0	3.1	.55	.79	2.2	1.8	.88	.40	.01	.01	.05
23	.18	.98	1.8	.64	.74	1.6	1.7	.83	.36	.01	.01	.03
24	.22	6.9	2.4	1.6	.70	1.1	1.7	.94	.32	.01	.01	.04
25	.23	8.4	3.1	6.1	.45	1.2	1.6	.97	.29	.01	.01	.04
26	.23	5.7	4.1	5.5	.40	3.5	1.7	.88	.27	.01	.01	.03
27	.22	4.8	5.6	4.0	.38	3.3	2.1	.87	.27	.01	.01	.02
28	.20	4.6	4.0	4.6	.53	2.4	1.9	.77	.25	.01	.01	.02
29	.20	4.5	4.6	4.7	.80	2.3	1.8	.69	.22	.01	.01	.02
30	.22	4.2	9.6	3.4	---	1.8	1.8	.66	.23	.01	.01	.03
31	.31	---	12	2.6	---	2.0	---	.66	---	.01	.01	---
TOTAL	4.48	55.54	255.5	127.59	60.02	78.2	55.6	39.03	16.65	1.58	.38	.72
MEAN	.14	1.85	8.24	4.12	2.07	2.52	1.85	1.26	.55	.05	.01	.02
MAX	.31	8.4	20	9.1	6.1	4.5	2.9	1.9	1.1	.22	.02	.17
MIN	.02	.23	1.8	.55	.38	1.1	1.4	.66	.22	.01	.01	.00
AC-FT	8.9	110	507	253	119	155	110	77	33	3.1	.7	1.4

CAL YR 1983	TOTAL	1485.47	MEAN	4.07	MAX	152	MIN	.02	AC-FT	2950
WTR YR 1984	TOTAL	695.29	MEAN	1.90	MAX	20	MIN	.00	AC-FT	1380

SNAKE RIVER BASIN

GOOSE CREEK BASIN

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi upstream from maximum flow line of Oakley Reservoir, 5 mi upstream from Trapper Creek, 5 mi south of Oakley Dam, and 9 mi southwest of Oakley, and at river mile 35.1.

DRAINAGE AREA.--633 mi^2. Mean altitude, 6,030 ft.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft, by barometer. Prior to Aug. 29, 1912, at site 200 ft downstream at different datum.

REMARKS.--Records good. Decreed water rights are reported to apply to about 2,700 acres above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see station 13083500).

AVERAGE DISCHARGE.--70 years, 48.4 ft^3/s, 35,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s Feb. 11, 1962, gage height, 9.3 ft, from rating curve extended above 20 ft^3/s on basis of slope-area measurement of peak flow; no flow July 22 to Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft^3/s May 15, gage height, 7.29 ft; minimum, 14 ft^3/s Dec. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	33	21	39	41	75	102	238	635	129	65	39
2	38	35	34	32	38	61	100	265	605	130	92	40
3	26	34	38	38	40	55	95	286	557	118	71	40
4	32	33	39	47	37	50	101	318	515	104	72	39
5	30	32	32	45	36	41	104	356	497	103	66	38
6	27	31	22	40	37	48	123	360	491	99	62	42
7	25	31	46	43	37	54	113	344	456	98	58	43
8	24	32	45	41	36	59	115	320	430	95	56	44
9	25	31	50	46	36	66	122	329	406	89	54	43
10	26	31	56	41	36	76	128	372	394	81	52	41
11	27	30	52	45	33	90	139	420	370	76	51	40
12	27	31	49	49	40	105	128	482	341	74	49	39
13	27	33	46	43	57	103	122	557	309	73	50	38
14	31	34	44	40	39	110	122	770	286	70	52	37
15	36	33	41	35	35	129	133	1320	265	68	51	37
16	39	32	38	32	43	126	167	1140	267	65	53	38
17	34	32	42	31	39	114	218	1030	257	64	55	38
18	31	36	38	24	35	103	267	910	244	64	54	37
19	30	37	39	28	30	96	278	758	238	62	52	36
20	28	38	28	31	35	114	267	701	230	63	51	36
21	27	35	23	35	47	142	248	729	208	73	48	39
22	27	31	21	38	45	137	233	794	199	109	45	39
23	26	32	23	42	40	126	235	794	192	100	45	39
24	28	39	26	47	45	121	261	774	181	95	45	39
25	28	48	31	54	49	109	288	798	172	83	44	40
26	27	40	38	50	47	107	297	782	161	73	44	41
27	27	26	42	45	45	110	286	722	150	74	44	41
28	27	37	33	44	56	102	259	718	143	73	42	41
29	28	31	40	41	61	98	242	698	133	74	40	41
30	29	25	43	38	---	102	235	653	135	70	39	41
31	31	---	45	40	---	98	---	641	---	65	39	---
TOTAL	903	1003	1165	1244	1195	2927	5533	19379	9457	2614	1641	1136
MEAN	29.1	33.4	37.6	40.1	41.2	94.4	184	625	315	84.3	52.9	39.5
MAX	39	48	56	54	61	142	297	1320	635	130	92	44
MIN	24	25	21	24	30	41	95	238	133	62	39	36
AC-FT	1790	1990	2310	2470	2370	5810	10970	38440	18760	5180	3250	2350

CAL YR 1983 TOTAL 26958 MEAN 73.6 MAX 385 MIN 14 AC-FT 53270
WTR YR 1984 TOTAL 48247 MEAN 132 MAX 1320 MIN 21 AC-FT 95700

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 mi north of San Jacinto.

DRAINAGE AREA.--1,450 mi^2, approximately. Mean altitude, 6,350 ft.

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."

REVISED RECORDS.--WSP 1934: 1943 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi downstream (see station 13106500).

AVERAGE DISCHARGE.--72 years (1922-16, 1919-34), 146 ft^3/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft^3/s May 16, 1984, gage height, 14.27 ft; minimum discharge, 2.6 ft^3/s Sept. 4, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,860 ft^3/s May 16, gage height, 14.27 ft; minimum discharge, 39 ft^3/s Dec. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	89	95	102	132	128	249	826	2020	695	200	93
2	90	86	99	80	131	155	246	942	1910	639	253	89
3	89	85	107	87	128	151	233	1130	1710	556	233	85
4	80	84	108	119	129	139	235	1520	1550	520	202	85
5	75	82	77	118	127	120	278	1680	1540	490	184	87
6	74	82	89	120	126	117	362	1540	1530	448	172	93
7	72	84	98	113	128	151	362	1210	1480	464	160	93
8	71	84	106	115	128	221	380	1040	1380	467	147	87
9	74	85	113	116	125	276	380	1070	1240	421	133	81
10	76	84	117	109	127	327	396	1340	1270	387	126	74
11	77	82	116	117	122	286	395	1660	1390	358	119	69
12	76	85	115	116	124	222	357	1970	1160	332	117	67
13	77	90	111	119	210	200	372	2300	1060	302	121	70
14	84	92	108	116	245	234	413	2820	1070	294	126	70
15	86	88	116	81	173	310	543	3420	1060	281	119	70
16	81	85	104	70	146	271	778	3620	1110	265	117	72
17	81	86	101	70	134	242	1200	3160	1120	248	112	72
18	79	93	104	60	123	208	1550	2570	1150	236	108	70
19	77	99	106	65	105	211	1540	2260	1170	230	103	69
20	75	99	101	69	103	252	1330	2210	1130	233	103	69
21	75	96	67	80	117	316	1070	2330	1170	256	99	72
22	74	93	52	91	126	322	934	2510	1140	334	97	79
23	74	90	55	105	112	299	998	2450	1050	346	91	81
24	77	92	61	118	119	302	1250	2380	950	271	89	76
25	75	99	61	138	120	322	1270	2410	908	236	91	70
26	72	89	89	139	117	329	1050	2300	886	226	91	76
27	74	86	104	140	109	286	1060	2170	852	236	91	79
28	74	89	100	158	106	259	926	2140	785	250	85	76
29	74	95	89	157	109	256	826	2040	725	228	81	76
30	76	94	104	151	---	244	770	1980	718	218	83	78
31	85	---	115	133	---	238	---	1980	---	204	87	---
TOTAL	2410	2667	2988	3372	3801	7394	21763	63028	36284	10671	3940	2328
MEAN	77.7	88.9	96.4	109	131	239	725	2033	1209	344	127	77.6
MAX	90	99	117	158	245	329	1550	3620	2020	695	253	93
MIN	71	82	52	60	103	117	233	826	718	204	81	67
AC-FT	4780	5290	5930	6690	7540	14670	43170	125000	71970	21170	7810	4620

CAL YR 1983 TOTAL 81807 MEAN 224 MAX 1250 MIN 35 AC-FT 162300
WTR YR 1984 TOTAL 160646 MEAN 439 MAX 3620 MIN 52 AC-FT 318600

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi upstream from McDonald Creek and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi^2. Area at crest-stage site, 380 mi^2.

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, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

REMARKS.--Records poor, no gage-height record Oct. 20 to Feb. 6, and May 6 to July 17. Minor diversions for irrigation above station. Monthly measurements of specific conductance and water temperature in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--23 years, 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s May 14, 1984, gage height, 12.01 ft, minimum daily, 2.5 ft^3/s Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 22	0200	296	4.51	May 3	2400	1,360	8.94
Apr. 18	0200	1,430	9.25	May 14	0600	*2,140	12.01
Apr. 24	0700	1,380	9.04				

Minimum daily discharge, 32 ft^3/s, Sept. 18, 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	37	44	51	80	80	188	755	980	560	182	50
2	47	37	44	51	80	81	185	932	900	520	175	47
3	42	37	44	52	80	81	181	1180	850	480	146	45
4	37	37	44	52	80	79	196	1300	830	450	136	43
5	36	37	44	52	80	74	239	1210	800	435	116	42
6	35	37	44	53	80	85	291	1080	780	420	107	45
7	36	37	44	54	81	84	272	947	760	410	100	45
8	36	37	44	55	82	91	300	977	750	380	94	42
9	39	37	44	56	80	109	305	1230	740	350	87	39
10	42	37	44	56	82	125	322	1430	720	310	90	37
11	42	37	44	57	81	131	322	1560	710	275	100	36
12	39	37	44	58	81	141	320	1720	690	250	94	35
13	40	38	44	59	101	147	322	1890	670	220	91	35
14	49	39	44	60	108	178	381	2070	660	200	90	33
15	45	39	45	61	92	188	632	1960	660	185	88	33
16	41	40	45	62	98	191	998	1610	660	172	81	34
17	41	41	45	63	89	189	1350	1450	690	168	79	35
18	40	41	45	64	76	166	1370	1350	720	166	73	32
19	39	41	45	65	75	185	1170	1250	760	163	68	32
20	37	42	46	66	72	219	962	1200	780	165	63	33
21	37	43	46	68	68	284	831	1200	800	187	61	42
22	37	44	46	69	72	281	952	1180	820	200	57	39
23	37	44	47	70	78	263	1210	1180	820	182	57	38
24	37	44	47	72	80	267	1330	1180	790	153	56	44
25	37	44	47	73	78	241	1120	1170	730	168	55	44
26	37	44	48	74	73	248	975	1120	700	142	62	43
27	37	44	48	75	68	218	870	1050	680	144	56	43
28	37	44	49	76	79	200	769	1000	660	142	55	43
29	37	44	49	76	79	204	741	900	630	136	56	42
30	37	44	50	77	---	188	725	900	580	124	52	42
31	37	---	50	78	---	186	---	950	---	122	53	---
TOTAL	1223	1204	1414	1955	2353	5204	19829	38931	22320	7979	2680	1193
MEAN	39.5	40.1	45.6	63.1	81.1	168	661	1256	744	257	86.5	39.8
MAX	53	44	50	78	108	284	1370	2070	980	560	182	50
MIN	35	37	44	51	68	74	181	755	580	122	52	32
AC-FT	2430	2390	2800	3880	4670	10320	39330	77220	44270	15830	5320	2370

CAL YR 1983	TOTAL	64781	MEAN	177	MAX	1590	MIN	19	AC-FT	128500
WTR YR 1984	TOTAL	106285	MEAN	290	MAX	2070	MIN	32	AC-FT	210800

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'10", long 115°50'35", in NE¼ NW¼ sec.25, T.44 N., R.54 3., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, at Wild Horse Dam on Owyhee River, 8 mi west of Gold Creek, and 13 mi southeast of Mountain City.

DRAINAGE AREA.--109 mi^2.

PERIOD OF RECORD.--March 1938 to current year. Month-end contents for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. New dam completed in June 1969, capacity, 71,500 acre-ft between altitudes 6,138.50 ft, sill of outlet gate, and 6,205 ft spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents recorded, 80,020 acre-ft May 15, 1984, altitude 6,207.68 ft; minimum observed, no contents at times in each year (1938-41), 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 80,020 acre-ft May 15, altitude 6,207.68 ft; minimum recorded, 48,670 acre-ft Apr. 13, altitude 6,196.49.

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

6,196	47,520	6,204	68,510
6,198	52,310	6,206	74,590
6,200	53,390	6,208	81,070
6,202	62,780		

MONTH-END ALTITUDES AND CONTENTS AT 2400, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	6,198.93	54,640	--
Oct. 31	6,198.62	53,860	-780
Nov. 30	6,199.21	55,350	+1,490
Dec. 31	6,200.40	58,450	+3,100
CAL YR 1983	--	--	+2,170
Jan. 31	6,200.24	58,020	-430
Feb. 29	6,199.24	55,430	-2,590
Mar. 31	6,197.18	50,310	-5,120
Apr. 30	6,202.97	65,520	+15,210
May 31	6,206.49	76,150	+10,630
June 30	6,205.68	73,600	-2,550
July 31	6,204.86	71,090	-2,510
Aug. 31	6,202.48	64,140	-6,950
Sep. 30	6,200.95	59,910	-4,230
WTR YR 1983-84	--	--	+5,270

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'15", long 115°50'38", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank 500 ft downstream from Wild Horse Dam, 0.1 mi upstream from Beaver Creek, 8 mi west of Gold Creek, and 12 mi southeast of Mountain City.

DRAINAGE AREA.--209 mi^2.

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.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft, Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft downstream at different datum, while new dam was being constructed 300 ft downstream from old dam.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir, capacity, 71,660 acre-ft, 0.1 mi upstream beginning Mar. 18, 1938. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--56 years (1917-25, 1936-84), 45.5 ft^3/s, 32,960 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft^3/s May 5, 1922, gage height, 10.11 ft, site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft^3/s May 14, gage height, 5.20 ft; minimum daily, 3.0 ft^3/s Nov. 16 to Dec. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	3.1	3.0	48	46	107	159	496	546	117	115	162
2	58	3.1	3.0	48	47	107	159	503	526	110	115	158
3	57	3.1	3.0	48	47	107	164	590	499	99	115	160
4	55	3.1	3.0	46	47	104	174	634	489	100	117	132
5	54	3.1	3.0	46	48	106	170	653	449	100	119	107
6	59	3.1	3.0	46	55	104	174	683	392	100	120	110
7	59	3.1	3.0	46	57	103	174	703	403	100	119	112
8	50	3.1	3.0	46	58	103	174	738	403	100	113	111
9	56	3.1	3.0	46	57	103	170	811	382	100	105	108
10	55	3.1	3.0	46	65	103	170	976	375	100	104	108
11	41	3.1	3.0	46	87	103	170	925	396	105	105	107
12	32	3.1	3.0	45	88	103	170	1030	392	105	106	111
13	32	3.1	3.0	45	88	116	170	1190	372	105	104	75
14	29	3.1	3.0	45	88	132	166	1340	348	106	103	29
15	29	3.1	3.0	47	38	132	168	1160	350	105	102	29
16	29	3.0	3.0	46	88	130	168	1040	333	105	101	29
17	14	3.0	3.0	47	89	133	103	867	323	105	101	29
18	3.1	3.0	3.0	47	89	133	107	733	300	105	98	29
19	3.1	3.0	3.0	47	96	133	186	757	284	105	103	29
20	3.1	3.0	3.0	46	93	143	214	806	260	105	101	30
21	3.1	3.0	3.0	45	92	155	232	839	245	105	100	34
22	3.1	3.0	3.0	44	92	159	232	839	220	105	117	37
23	3.1	3.0	3.0	44	92	159	232	817	211	105	131	38
24	3.1	3.0	3.0	44	92	159	232	795	199	105	130	38
25	3.1	3.0	3.0	44	92	159	322	771	180	105	132	38
26	3.1	3.0	3.0	44	92	159	325	738	171	110	131	38
27	3.1	3.0	3.0	45	93	155	408	704	165	110	130	38
28	3.1	3.0	3.0	44	93	150	479	670	157	110	131	38
29	3.1	3.0	3.0	45	99	150	486	637	139	110	144	37
30	3.1	3.0	26	45	---	159	493	608	128	115	158	36
31	3.1	---	48	45	---	159	---	570	---	115	159	---
TOTAL	808.4	91.5	161.0	1416	2258	4028	6801	24623	9637	3272	3629	2137
MEAN	26.1	3.05	5.19	45.7	77.9	130	227	794	321	106	117	71.2
MAX	59	3.1	48	48	99	159	493	1340	546	117	159	162
MIN	3.1	3.0	3.0	44	46	103	103	496	128	99	98	29
AC-FT	1600	181	319	2810	4480	7990	13490	48840	19110	6490	7200	4240

CAL YR 1983	TOTAL	38781.1	MEAN	106	MAX	1100	MIN	2.4	AC-FT	76920
WTR YR 1984	TOTAL	58861.9	MEAN	161	MAX	1340	MIN	3.0	AC-FT	116800

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW¼ sec.6, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft downstream from Skull Creek, 1 mi upstream from China diversion dam, and 2 mi southeast of Owyhee.

DRAINAGE AREA.--458 mi^2.

PERIOD OF RECORD.--March 1939 to April 1984 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1939, at datum 1.48 ft higher.

REMARKS.--Records fair, except for winter months, which are poor. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data Gaging Stations."

AVERAGE DISCHARGE.--44 years, 149 ft^3/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft^3/s about May 18, 1975, gage height, 10.84 ft, from inside high-water marks; minimum, 1.8 ft^3/s Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft^3/s April 17, gage height, 10.23 ft, minimum daily, 34 ft^3/s Oct. 27-29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	46	63	80	112	205	386					
2	85	44	63	72	150	195	398					
3	82	40	58	68	140	190	402					
4	78	38	48	62	135	175	466					
5	75	37	57	58	128	160	580					
6	74	37	74	68	120	170	677					
7	74	40	72	80	115	183	562					
8	75	41	89	102	110	190	617					
9	81	38	94	96	118	207	594					
10	81	37	100	88	130	233	577					
11	80	38	97	80	118	240	587					
12	65	41	99	74	100	252	577					
13	58	41	70	68	130	292	682					
14	68	39	80	62	100	513	791					
15	64	39	86	58	120	482	1070					
16	61	38	60	55	135	434	1540					
17	60	48	66	52	150	408	1910					
18	49	68	62	62	115	373	1670					
19	37	54	68	71	90	381	1420					
20	35	53	54	80	105	471	1250					
21	34	53	45	92	125	611	1080					
22	34	58	39	102	155	537	1170					
23	34	51	35	112	130	503	1390					
24	36	60	43	125	140	521	1480					
25	35	84	56	150	150	455	1310					
26	35	61	70	140	140	450	1220					
27	34	63	90	130	128	413	1160					
28	34	63	70	120	135	388	1090					
29	34	53	60	112	150	385	1040					
30	35	47	76	105	---	369	980					
31	40	---	86	100	---	384	---					
TOTAL	1752	1450	2130	2724	3674	10770	28676					
MEAN	56.5	48.3	68.7	87.9	127	347	956					
MAX	85	84	100	150	155	611	1910					
MIN	34	37	35	52	90	160	386					
AC-FT	3480	2880	4220	5400	7290	21360	56880					

CAL YR 1983 TOTAL 117430 MEAN 322 MAX 2170 MIN 15 AC-FT 232900

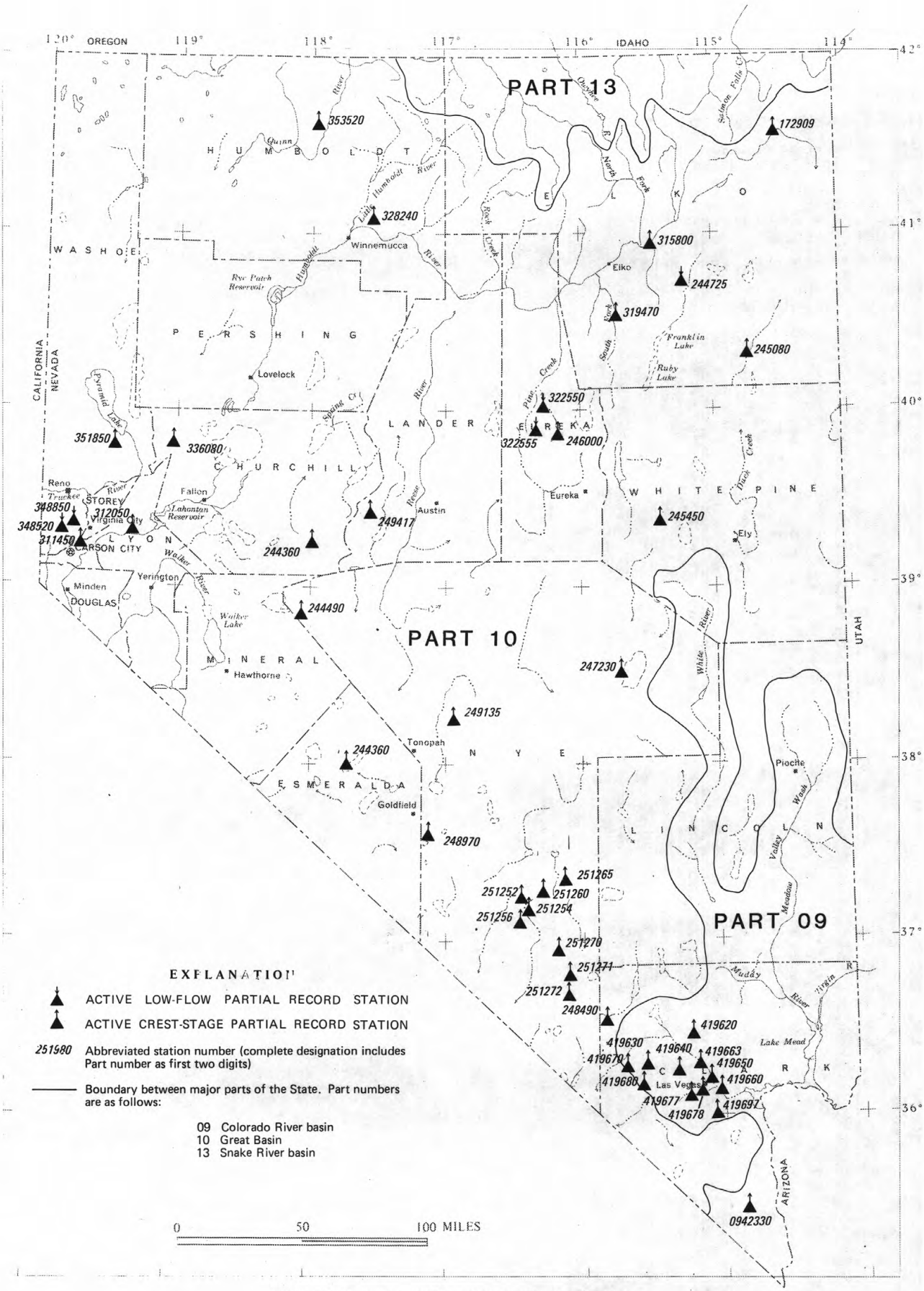

FIGURE 5.—Streamflow partial-record stations listed in this report.

Because the number of sites for which streamflow information would be useful far exceeds the number of stream-gaging stations that can feasibly be operated at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited data are collected systematically at a site over a period of years for use in hydrologic analysis, the site is called a partial-record station. Data collected at these stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. Discharge measurements also are made at additional locations, termed miscellaneous sites, that are not included in the partial-record program.

Data collected at partial-record stations are presented in two tables. The first lists discharge measurements at low-flow partial-record stations, and the second tabulates annual maximum stages and discharges at crest-stage partial-record stations. Discharge measurements made at miscellaneous sites are given in a third table.

Low-Flow Partial-Record Stations

The following table contains streamflow data for partial-record stations during water year 1983. Normally, these measurements are made during periods of base flow when streamflow is primarily from ground-water storage. Such measurements, when correlated with the data for a nearby stream where continuous records are available, give a picture of the low-flow potential of a stream. For Nevada, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained. The column labeled "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Discharge (ft^3/s)
		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 miles upstream from Pete Hanson Creek, 11 miles from mouth, and 42 miles south of Palisade.	150	1972-84	11-15-83 2-13-84 5-31-84	0 15.5 47.0
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 miles upstream from mouth and 33 miles northwest of Eureka.	5.0	1972-84	11-15-83 5-31-84	0.72 19.1
		Pyramid and Winnemucca Lakes basin				
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE¼NW¼ sec.14, T.17 N., R.19 E., Washoe County, 1.5 miles upstream from mouth and 5.0 miles southwest of Steamboat.	3.6	1972-84	11-13-83 2-06-84 5-03-84	3.44 1.36 1.95

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges at crest-stage stations during water year 1984. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge values determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations or weather records, or by local inquiry, is not always certain. Only the maximum discharge for each water year is given below. Information on peaks of lesser magnitude may have been obtained but is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined.

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		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 Headquarters of U.S. Fish and Wildlife Service and 20 miles north of Las Vegas.	A115	1962-84	8-84	--	480
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 157, 5.8 miles east of Charleston Park.	7.20	1962-84	8-84	5.44	70
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 feet below culvert on State Highway 157, 10 miles east of Charleston Park.	35.9	1961-84	8-84	1.02	24
09419650	Las Vegas Wash at North Las Vegas, Nev.	Lat 36°12'40", long 115°06'20", in SW¼NE¼ sec.13, T.20 S., R.61 E., Clark County, on right bank 100 feet upstream from U.S. Highway 91 and 3.5 miles northeast of Fremont Street, Las Vegas.	E720	1963-78, 1982-84	7-22-84	6.18	2,950
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, 1.5 miles southwest of Nellis Air Force Base.	18.1	1961-84	7-22-84	6.28	380
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 gage of Nellis Air Force Base.	A1.2	1963-81 1983-84	8-14-84	--	240
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	1962-84	7-22-84	--	2,660
09419677	Flamingo Wash at Maryland Parkway, at Las Vegas, Nev.	Lat 36°07'05", long 115°08'15", in SE¼SE¼ sec.15, T.21 S., R.61 E., Clark County, on right bank 90 feet upstream from box culverts on Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.	A106	1969-84	7-28-84	9.81	3,500
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 feet upstream from culvert on U.S. Highway 93, 95, and 466, 3.2 miles southeast of Las Vegas Post Office.	A117	1969-84	7-28-84	--	4,000

E: ESTIMATED.
A: APPROXIMATE.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Las Vegas Valley					
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, 3 miles southwest of Blue Diamond.	18.3	1961-84	8-84	5.90	110
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NE¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466, 0.7 mile southeast of Whitney.	239	1961-81 1984	8-19-84	7.44	920
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, 2.5 miles west of downtown Henderson.	1.17	1967-81 1984	1984	12.36	1,950
		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 164, 1 mile west of Searchlight.	A3.4	1967-81 1984	7-21-84	4.88	46
		Great Salt Lake Desert					
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	1969-78, 1981-84	1984	2.82	0.5
		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 376, 19 miles north of Tonopah.	A3.42	1965-82 1984	8-14-84	--	130
		Smith Creek Valley					
10249417	Smith Creek Valley tributary near Austin, Nev.	Lat 36°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, 22 miles west of Austin.	0.62	1968-79, 1981-82 1984	7-84	--	130
		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, 6 miles west of Eastgate.	A11	1961-84	8-84	3.99	90

A: APPROXIMATE.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Gabbs Valley					
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 361 and about 12 miles south of Gabbs.	207	1974-78, 1981-84	12-83	9.73	2,330
		Steptoe and Goshute Valleys					
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, 2.5 miles northwest of Currie.	A0.7	1961-84	1984	--	0
		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 feet upstream from Illipah Creek and 10.5 miles northeast of Hamilton.	5.47	1962-84	3-84	1.34	7
		Monitor Valley-Diamond Valley system					
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, at culvert on State Highway 278, 24 miles northwest of Eureka.	2.12	1962-84	5-31-84	4.78	0.4
		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, 8 miles west of Indian Springs.	A29	1964-82 1984	8-19-84	3.97	130
		Stonewall Flats basin					
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE¼NW¼ sec.13, T.4 S., R.42 E., Esmeralda County, 8 miles south of Goldfield.	0.53	1964-79 1981, 1983-84	7-28-84	--	26
		Ione Valley-Tonopah Flat area					
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, 95, 3.5 miles east of Blair Junction.	11.4	1961-84	8-14-84	--	330
		Amargosa Desert					
10251252	Yucca Wash, Nevada Test Site, Nev.	Lat 36°52'00", long 116°23'40", Nye County, about 37 miles northwest of Mercury.	16.6	1982-84	7-84	2.72	940
10251254	Drill Hole Wash, Nevada Test Site, Nev.	Lat 36°49'20", long 116°24'00", Nye County, about 32 miles northwest of Mercury.	15.4	1983-84	7-23-84	3.38	790

A: APPROXIMATE.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Amargosa Desert--Continued					
10251256	Busted Butte Wash, Nevada Test Site, Nev.	Lat 36°47'20", long 116°24'10", Nye County, about 30 miles west of Mercury.	6.6	1982-84	8-19-84	2.05	14
10251260	Topopah Wash near Lathrop Wells, Nev.	Lat 36°46'18", long 116°19'10", Nye County, about 22 miles northeast of Lathrop Wells.	--	1984	8-19-84	--	1,500
10251265	Cane Spring tributary near Mercury, Nev.	Lat 36°48'28", long 116°05'33", Nye County, about 25 miles northwest of Mercury.	10.2	1984	7-24-84	--	0.5
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95, 9 miles southwest of Mercury.	110	1963-81 1984	8-19-84	6.29	1,400
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 160, 3.5 miles northwest of Johnnie, Nev.	2.21	1967-81 1984	8-84	7.23	95
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W½NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 160, 1.2 miles north of Johnnie, Nev.	2.49	1968-81 1984	8-84	3.45	2
		Carson River basin					
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	1966-78, 1980-84	7-23-84	2.19	90
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, 5.5 miles southwest of Silver Springs.	4.39	1962-78, 1981-84	7-18-84	--	0.5
		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, 1.5 miles north of Halleck.	A3	1966-79, 1981-84	3-84	5.77	35
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 288, 6 miles north of Jiggs.	0.82	1962-79, 1982-84	8-84	2.36	1
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.	A1.9	1968-78, 1980-84	3-84	--	0.5
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, 6.5 miles northeast of Bradys Hot Springs.	11	1962-81 1984	8-84	10.29	710

A: APPROXIMATE.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Pyramid and Winnemucca Lakes basin					
10351350	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°23'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on former Southern Pacific Railroad right-of-way, 6.5 miles west of Nixon.	1.94	1968-79, 1981-84	11-25-83	--	40
		Black Rock Desert basin					
10353520	Eagle Creek near Orovada, 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, 5.6 miles north of Orovada.	3.44	1962-78, 1980-84	6-84	6.26	10

Miscellaneous Sites

The following table lists measurements of streamflow at miscellaneous sites during water year 1984. Generally, this category of measurements represent base flood conditions and were made when streamflow was primarily from ground-water storage to give areal coverage to low flow.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Big Smokey Valley (Northern basin)						
Willow Creek	Big Smokey Valley	Lat 39°32'42", long 116°59'20", in NE¼NE¼ sec.2, T.19 N., R.44 E., Lander County, Hydrologic Unit 16060004, 1.4 miles northwest of Grass Valley Road.	--	--	7-12-84	0.33
Bade Creek	Big Smokey Valley	Lat 39°28'29", long 117°00'10", in SW¼SW¼ sec.26, T.19 N., R.44 E., Lander County, Hydrologic Unit 16060004, 30 feet upstream of culvert at State Highway 50.	--	--	7-12-84	0.53
Birch Creek	Big Smokey Valley	Lat 39°22'29", long 117°00'44", in SE¼ sec.34, T.18 N., R.44 E., Lander County, Hydrologic Unit 16060004, at mouth of canyon.	[a]17.5	1968	6-28-84 1984	14.3 [b]70
Tar Creek	Big Smokey Valley	Lat 39°20'21", long 117°02'26", in NW¼ sec.16, T.17 N., R.44 E. Lander County, Hydrologic Unit 16060004, at mouth of canyon.	[a]2.2	1968	6-28-84	2.61
Sheep Canyon Creek	Big Smokey Valley	Lat 39°19'30", long 117°02'25", in NW¼ sec.21, T.17 N., R.44 E., Lander County, Hydrologic Unit 16060004, at mouth of canyon.	[a]2.3	1968	6-28-84 5-84	0.25 [b]90
Globe Creek	Big Smokey Valley	Lat 39°16'57", long 117°03'32", in NW¼ sec.5, T.16 N., R.44 E., Lander County, Hydrologic Unit 16060004, at mouth of canyon.	--	--	6-28-84	1.45
Blakeley Canyon Creek	Big Smokey Valley	Lat 39°13'32", long 117°05'49", in NW¼ sec.25, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, at mouth of canyon.	--	--	6-27-84	1.25
Kingston Creek	Big Smokey Valley	Lat 39°12'46", long 117°06'31", in NW¼NE¼ sec.35, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, at mouth of canyon 0.5 mile upstream from gage.	--	--	6-27-84	48.0
Bowman Creek	Big Smokey Valley	Lat 39°10'26", long 117°05'51", in SW¼ sec.12, T.15 N., R.43 E., Lander County, Hydrologic Unit 16060004, 0.7 mile upstream from State Highway 376.	--	--	2-24-84	4.45
Bowman Creek	Big Smokey Valley	Lat 39°09'31", long 117°05'18", in SE¼ sec.13, T.15 N. R.43 E., Nye County, Hydrologic Unit 16060004, 0.8 mile upstream from State Highway 376.	--	--	7-12-84	6.80

[a] Approximately.
[b] Peak flow for year.

Miscellaneous Sites

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Big Smokey Valley (Northern basin)--Continued						
Aiken Creek	Big Smokey Valley	Lat 39°08'16", long 117°07'06", in NW¼NW¼ sec.26, T.15 N., R.43 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	--	--	7-12-84	1.57
Decker Creek	Big Smokey Valley	Lat 39°07'03", long 117°09'08", in SW¼SE¼ sec.33, T.15 N., R.43 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon below south tributary.	[a]2.4	1968	7-12-84	2.45
McCloud Creek	Big Smokey Valley	Lat 39°03'45", long 117°11'29", in NW¼ sec.19, T.14 N., R.43 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	[a]2.9	1968	7-13-84	0.96
Summit Creek	Big Smokey Valley	Lat 39°58'15", long 117°14'59", in SW¼ sec.22, T.13 N., R.42 E., Nye County, Hydrologic Unit 16060004, just below Forest Service boundary.	[a]2.9	1968	7-13-84	1.76
Ophir Canyon Creek	Big Smokey Valley	Lat 38°56'25", long 117°14'54", in SE¼SW¼ sec.34, T.13 N., R.42 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	[a]3.9	1968	7-13-84	2.40
Last Chance Creek	Big Smokey Valley	Lat 38°55'32", long 117°14'39", in SW¼NE¼ sec.3, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	--	--	8-20-84	0.37
Last Chance Creek	Big Smokey Valley	Lat 38°55'12", long 117°13'24", in NE¼ sec.11, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, 1.3 miles below canyon.	--	--	8-20-84	0
North Twin River	Big Smokey Valley	Lat 38°53'27", long 117°15'06", in NW¼ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	--	1968	8-20-84	5.02
Beleher Canyon Creek	Big Smokey Valley	Lat 38°50'28", long 117°13'06", in NW¼ sec.1, T.11 N., R.42 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	[a]5.1	1968	8-21-84	1.5
Broad Canyon Creek	Big Smokey Valley	Lat 38°45'54", long 117°12'50", in SE¼SW¼ sec.36, T.11 N., R.43 E., Nye County, Hydrologic Unit 16060004, upstream from canyon mouth tributary and spring inflow.	[a]6.1	1968	8-21-84	0.93
Jet Canyon Creek	Big Smokey Valley	Lat 38°43'36", long 117°13'50", in sec.14, T.10 N., R.42 E., Nye County, Hydrologic Unit 16060004, upstream from Round Mountain diversion and 2.05 miles above canyon mouth.	--	--	8-21-84	2.73
Jet Canyon Creek	Big Smokey Valley	Lat 38°43'35", long 117°12'44", in sec.13, T.10 N., R.42 E., Nye County, Hydrologic Unit 16060004, below diversion.	[a]7.3	1968	8-21-84	1.33

[a] Approximately.

Miscellaneous Sites

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Big Smokey Valley (Northern basin)--Continued						
Moores Creek	Big Smokey Valley	Lat 38°52'13, long 116°58'47", in NE¼SE¼ sec.25, T.12 N., R.44 E., Nye County, Hydrologic Unit 16060004, at mouth of canyon.	[a]8.5	1968	8-22-84	2.29
Shoshone Creek	Big Smokey Valley	Lat 38°42'29", long 117°02'20", in SE¼ sec.21, T.10 N., R.44 E., Nye County, Hydrologic Unit 16060004, 1.75 miles east of Round Mountain.	[a]6.1	1968	8-22-84	0.71
Shoshone Creek	Big Smokey Valley	Lat 38°42'43", long 117°02'36", in SW¼ sec.35, T.10 N., R.44 E., Nye County, Hydrologic Unit 16060004, about 2.5 miles above canyon mouth and 3.75 miles southeast of Round Mountain.	--	1968	8-22-84	0.52
Jefferson Creek	Big Smokey Valley	Lat 38°43'41", long 117°01'53", in SW¼NW¼ sec.15, T.10 N., R.44 E., Nye County, Hydrologic Unit 16060004, at Forest Service boundary.	--	--	8-22-84	3.78
Black Rock Desert basin						
10353500 Quinn River near McDermitt	Quinn River main stem	Lat 41°46'30", long 117°48'15", in SW¼ sec.15, T.45 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, 1.5 miles upstream from Flat Creek and 15.5 miles south of McDermitt.	[a]1,100	1949-82‡	10-14-83 11-16-83 2-10-84 3-22-84 [a]4-15-84 7-27-84 9-28-84	3.96 7.89 183 820 1,300 20.8 4.50
10353520 Eagle Creek	Quinn River	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, at culvert on U.S. Highway 95, 5.6 miles north of Orovada.	3.44	1962-78† 1980-83†	5-22-84	3.31
Carson River basin						
10310500 Clear Creek	Carson River	Lat 39°06'50", long 119°47'50", in NW¼NW¼ sec.1, T.14 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 3 miles upstream from mouth and 3.5 miles southwest of Carson City.	15.5	1943-62‡ 1963-81†	2-21-84	14.4
Humboldt River basin						
10322980 Cole Creek	Humboldt River	Lat 40°35'05", long 116°08'53", in SE¼NE¼ sec.7, T.31 N., R.52 E., Eureka County, Hydrologic Unit 16040104, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-82†	5-30-84	0.62

[a] Approximately.
† Operated as a crest-state partial-record station.
‡ Operated as a continuous gaging station.

Miscellaneous Sites

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Humboldt River basin--Continued						
10323200 Bob Creek	Humboldt River	Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, Hydrologic Unit 16040105, at culvert on Interstate 80, 6 miles northeast of Beowawe.	13.9	1962-82 †	3-02-84	3.0
10323400 Humboldt River near Dunphy	Humboldt River main stem	Lat 40°41'53", long 116°30'25", in SE¼SW¼ sec.25, T.32 N., R.48 E., Eureka County, Hydrologic Unit 16040101, 24.5 miles east of Battle Mountain on Interstate 80.	--	1980-82 ‡	10-03-83 11-30-83	313 471
Pahrump Valley						
10251890 Peak Spring Canyon Creek	Pahrump Valley	Lat 36°14'40", long 115°43'09", in SW¼NE¼ sec.6, T.20 S., R.56 E., Clark County, Hydrologic Unit 16060015, 200 feet upstream from Carpenter Road, 11 miles east of State Highway 16, and 14.5 miles east of Pahrump.	3.09	1979-83 ‡	10-06-83 11-03-83 12-07-83 1-05-84 2-07-84 3-14-84 4-12-84 5-07-84 7-06-84 8-13-84	1.53 0.81 0.55 0.75 0.38 0.29 0.26 0.32 0 2.14
Virgin River basin						
09415230 Virgin River above Halfway Wash near Riverside	Virgin River main stem	Lat 36°40'28", long 114°17'54, in NE¼SW¼NE¼ sec.32, T.14 S., R.69 E., Clark County, Hydrologic Unit 15010010, 1.3 miles upstream from Halfway Wash and 6.1 miles southeast of Riverside.	[a]5,980	1977-83 ‡	11-30-83 12-29-83 1-29-84 2-26-84 3-26-84 4-26-84 5-24-84 6-21-84 7-27-84 9-26-84	383 504 331 255 152 291 103 24.1 243 54.9
09418500 Meadow Valley Wash near Caliente	Muddy River	Lat 37°33'20", long 114°33'50", in NE¼ sec.35 T.4 S., R.66 E., Lincoln County, Hydrologic Unit 15010013, 0.5 mile east of Etna and 6 miles downstream from Clover Creek.	1,670	1952-60 ‡ 1965-83 ‡	11-28-83 12-27-83 1-27-84 2-24-84 3-24-84 4-24-84 5-22-84 6-19-84 7-25-84 8-21-84	6.6 8.2 7.93 9.15 6.24 3.75 2.56 1.63 11.8 29.4
09419000 Muddy River near Glendale	Virgin River	Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 N., R.67 E., Clark County, Hydrologic Unit 15010012 at Narrows, 150 feet downstream from Weiser Wash, 2 miles southeast of Glendale.	[a]6,780	1950-83 ‡	10-04-83 11-02-83 12-06-83 1-04-84 2-09-84 3-16-84 5-25-84 6-22-84 7-22-84 8-14-84 8-24-84 9-27-84	35.0 38.0 45.0 42.0 45.5 35.2 34.0 25.0 [b]5,830 2,140 55.3 33.2
09419515 Muddy River above Lake	Virgin River	Lat 36°31'21", long 114°24'49", in SE¼SW¼ sec.20, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010005, in Overton State Wildlife Management Area, 0.8 mile downstream from diversion dam, 2.3 miles southeast of Overton.	[a]8,310	1979-83 ‡	11-09-83 12-06-83 1-04-84 2-09-84 3-16-84 5-25-84 6-07-84 6-22-84 8-14-84 8-24-84 9-27-84	5.0 5.03 3.92 3.18 3.15 2.96 2.50 1.83 42.4 52.5 3.95

[a] Approximately.
[b] Peak discharge for year.
† Operated as a crest-stage partial-record station.
‡ Operated as a continuous gaging station.

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, AZ

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

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 04...	1030	900	8.1	22.0	330	84	29	100

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT 04...	2	4.1	130	280	87	8.3	670	.220

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ

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

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT 04...	0945	950	8.2	18.5	320	80	29	100

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT 04...	3	4.1	127	280	89	7.2	670	.120

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL RECORD STATIONS

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CA

WATER-QUALITY RECORDS

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
APR										
25...	1130	E741	86	7.4	3.0	3.0	--	--	32	8.8
AUG										
28...	1045	E129	96	8.3	15.5	1.0	8.0	.5	--	--
SEP										
18...	0925	E85	116	8.4	16.0	1.0	8.2	.6	40	11

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	BORON, DIS-SOLVED (UG/L AS B)
APR									
25...	2.5	4.6	.4	.90	36	4.5	1.0	61	--
AUG									
28...	--	--	--	--	--	--	--	--	--
SEP									
18...	3.1	6.6	.5	1.5	47	5.2	1.7	74	100

E: ESTIMATED.

* Data from Calif. Dept. of Water Resources.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV (LAT 37°33'20" LONG 114°33'50")									
NOV, 1983					MAY, 1984				
28...	1500	6.6	880	6.0	22...	1620	2.6	--	27.0
JAN, 1984					JUN				
27...	1400	7.9	--	8.0	19...	1500	1.6	--	28.0
MAR					JUL				
24...	1400	6.2	835	15.0	25...	1700	12	760	32.0
APR					AUG				
24...	1700	3.8	900	18.0	21...	1550	24	590	26.5
10245900 PINE CREEK NEAR BELMONT, NV (LAT 38°47'40" LONG 116°51'13")									
OCT, 1983					JUN, 1984				
19...	1045	4.3	69	5.0	20...	1500	16	52	8.5
JAN, 1984					JUL				
10...	1500	2.2	73	.5	24...	1030	16	50	8.5
MAR					AUG				
20...	0905	2.0	77	1.5	23...	0800	13	63	9.0
APR					SEP				
18...	1020	4.8	--	2.0	24...	1740	5.7	68	7.5
MAY									
22...	1130	55	54	7.0					
10245910 MOSQUITO CREEK NEAR BELMONT, NV (LAT 38°48'22" LONG 116°40'43")									
OCT, 1983					JUN, 1984				
18...	1725	1.4	118	7.0	20...	1330	8.3	102	9.5
JAN, 1984					JUL				
10...	1600	1.0	116	.5	23...	1800	3.0	108	10.0
MAR					AUG				
20...	1110	.84	116	2.0	22...	1545	1.9	112	12.0
APR					SEP				
18...	1110	2.7	122	3.0	24...	1845	1.1	110	7.0
MAY									
22...	0845	42	81	6.0					
10245925 STONEBERGER CREEK NEAR AUSTIN, NV (LAT 39°08'24" LONG 116°36'05")									
OCT, 1983					JUN, 1984				
18...	1410	2.3	390	8.5	20...	1635	12	294	13.0
JAN, 1984					JUL				
10...	1300	2.0	406	1.0	23...	1545	5.7	343	13.5
MAR					AUG				
20...	1300	2.0	414	6.5	23...	1030	4.3	336	10.5
APR					SEP				
18...	0900	5.7	312	3.0	24...	1610	2.4	382	9.0
MAY									
23...	1130	34	223	10.5					
10249190 WILLOW CREEK NEAR WARM SPRINGS, NV (LAT 38°34'35" LONG 116°35'05")									
OCT, 1983					JUN, 1984				
20...	1030	.61	224	5.0	20...	1025	.36	216	10.0
DEC					JUL				
20...	0910	.53	219	.5	24...	1205	.55	221	18.5
MAR, 1984					AUG				
19...	1630	.84	196	6.5	22...	1230	1.7	178	14.0
MAY					SEP				
22...	1330	.79	184	19.0	25...	1020	.44	223	8.5
10249280 KINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV (LAT 39°12'45" LONG 117°06'45")									
OCT, 1983					JUN, 1984				
20...	1500	11	390	9.0	19...	1610	48	392	10.0
DEC					JUL				
19...	1315	11	438	4.0	25...	1130	25	402	11.0
MAR, 1984					AUG				
19...	1250	12	414	6.5	21...	1050	18	408	11.5
APR					SEP				
17...	1320	90	426	1.5	26...	0750	13	414	8.0
MAY									
21...	1330	E330	393	11.0					

E: ESTIMATED.

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)
10288500 WALKER LAKE NEAR HAWTHORNE, NV (LAT 38°35'05" LONG 118°42'15")									
OCT, 1983					MAY, 1984				
06...	1300	3967.41	12500	19.0	03...	1320	3970.44	12400	7.0
NOV					JUN				
03...	1200	3967.89	12500	17.0	11...	1300	3971.07	12500	13.0
JAN, 1984					JUL				
11...	1230	3969.82	12500	.0	13...	1430	3971.47	12400	23.5
26...	1330	3970.19	12400	3.5	AUG				
MAR					06...	1320	3971.43	11800	18.5
06...	1150	3972.39	12300	2.0					
APR									
04...	1050	3970.39	--	2.0					

DATE	TIME	STREAMFLOW, INSTANTANEOUS (FT^3/S)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (FT^3/S)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)
10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA (LAT 38°21'39" LONG 119°26'38")									
OCT, 1983					APR, 1984				
03...	1150	50	142	8.0	27...	1245	63	150	1.5
NOV					MAY				
28...	1310	63	163	1.0	29...	1525	232	63	13.0
DEC					JUL				
29...	1220	46	199	2.0	30...	1430	58	116	14.0
JAN, 1984					AUG				
30...	1210	31	207	1.0	29...	1145	32	163	12.5
FEB									
24...	1145	E31	218	2.0					
10296500 WEST WALKER RIVER NEAR COLEVILLE, CA (LAT 38°'30'55" LONG 119°27'15")									
OCT, 1983					APR, 1984				
03...	1030	210	92	6.0	27...	1115	378	87	1.0
25...	0950	125	119	5.5	MAY				
NOV					30...	1240	1750	38	13.0
28...	1050	181	112	.5	JUN				
DEC					27...	1110	1020	41	8.5
29...	1100	226	122	1.5	JUL				
JAN, 1984					30...	1145	300	73	13.5
30...	1015	120	138	.5	AUG				
FEB					29...	0945	149	108	13.0
24...	1005	99	132	2.5					
10297500 WEST WALKER RIVER AT HOYE BRIDGE NEAR WELLINGTON, NV (LAT 38°43'40" LONG 119°25'40")									
APR, 1984					JUL, 1984				
27...	1215	418	165	3.0	12...	1545	602	118	20.5
MAY									
10...	1200	596	153	7.5					
10300600 WALKER RIVER NEAR MASON, NV (LAT 38°55'11" LONG 119°11'20")									
MAY, 1984					JUL, 1984				
09...	1310	305	255	7.5	12...	1230	381	208	22.0

DATE	TIME	STREAMFLOW, INSTANTANEOUS (FT^3/S)	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (FT^3/S)	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)
10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV (LAT 38°50'50" LONG 119°42'10")											
OCT, 1983						MAR, 1984					
04...	1410	227	148	--	15.0	30...	1000	502	125	7.6	4.5
28...	1230	141	175	--	10.0	APR					
NOV						30...	1230	546	108	7.4	9.0
29...	1330	416	148	--	2.5	JUN					
JAN, 1984						01...	1220	1660	53	7.4	8.5
05...	1125	456	153	--	2.0	JUL					
31...	1320	234	163	7.4	5.0	30...	1100	198	125	--	19.0
FEB						SEP					
28...	1002	227	180	7.4	4.0	09...	1450	124	161	--	20.0

E: ESTIMATED.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10309100 EAST FORK CARSON RIVER AT MINDEN, NV (LAT 38°56'48" LONG 119°46'45")									
OCT, 1983					APR, 1984				
04...	1115	85	160	10.5	04...	1300	309	133	6.5
NOV					MAY				
18...	1455	618	130	2.5	16...	1415	1290	60	7.0
JAN, 1984					JUN				
05...	1545	445	158	3.0	12...	1105	572	74	12.5
FEB					AUG				
02...	1325	218	168	1.0	01...	1205	2.9	187	20.0
10311000 CARSON RIVER NEAR CARSON CITY, NV (LAT 39°06'30" LONG 119°42'40")									
OCT, 1983					APR, 1984				
06...	0945	459	225	13.5	04...	0930	562	175	9.0
NOV					MAY				
03...	0917	431	210	9.0	10...	1140	1660	102	10.0
DEC					JUN				
07...	1200	711	234	3.0	08...	1230	1120	110	13.5
JAN, 1984					JUL				
19...	1450	580	244	2.0	02...	1000	528	157	18.5
FEB					31...	1130	103	383	20.0
06...	1300	455	219	5.5	SEP				
MAR					06...	1010	46	437	15.0
01...	1500	451	228	9.0					
10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV (LAT 39°09'14" LONG 119°48'24")									
OCT, 1983					APR, 1984				
04...	1450	5.9	70	6.5	04...	1040	3.5	115	3.0
NOV					MAY				
18...	1130	5.7	100	1.5	07...	1320	2.5	116	9.5
DEC					JUN				
06...	1145	5.0	118	1.5	13...	1400	3.8	78	9.5
JAN, 1984					JUL				
07...	1515	4.3	116	.5	10...	1500	3.7	73	11.0
FEB					AUG				
02...	1110	4.0	108	.0	01...	1505	3.4	71	10.5
MAR					SEP				
07...	1640	3.5	127	5.5	11...	1400	3.0	74	10.5
10311200 ASH CANYON CREEK NEAR CARSON CITY, NV (LAT 39°10'35" LONG 119°48'16")									
OCT, 1983					APR, 1984				
04...	1330	6.4	73	5.5	04...	0935	5.4	87	2.5
NOV					MAY				
18...	1035	8.4	86	2.0	07...	1135	7.5	75	6.0
DEC					JUN				
06...	1010	6.2	83	1.0	12...	1340	8.9	62	8.5
JAN, 1984					JUL				
09...	1415	6.1	86	1.5	10...	1320	6.4	68	10.5
FEB					AUG				
02...	1000	5.0	86	.5	01...	1420	4.7	72	10.5
MAR					SEP				
07...	1420	4.9	88	6.5	11...	1235	3.6	80	10.5
10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV (LAT 39°10'52" LONG 119° 41'40")									
APR, 1984					AUG, 1984				
26...	1330	790	160	--	02...	1220	90	397	17.0
JUL									
24...	1120	225	314	15.0					
10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR NEAR FALLON, NV (LAT 39°27'50" LONG 119°02'45")									
JAN, 1984					JUL, 1984				
03...	1455	1210	214	2.0	31...	1200	939	209	14.0
JUN									
01...	1130	1040	245	8.5					
27...	1215	1200	235	17.0					
10312280 CARSON RIVER BELOW FALLON, NV (LAT 39°40'10" LONG 118°39'20")									
OCT, 1983					JUL, 1984				
01...	1300	389	240	10.0	23...	1235	32	608	17.0
MAY , 1984									
01...	1040	31	510	5.0					
31...	1300	2.0	941	7.0					

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK NEAR DEETH, NV (LAT 41°15'10" LONG 115°15'20")									
NOV, 1983					MAY, 1984				
28...	1205	39	242	4.0	15...	1700	1830	175	11.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)
10316500 LAMOILLE CREEK NEAR LAMOILLE, NV (LAT 40°41'30" LONG 115°28'30")											
MAY, 1984						JUL, 1984					
07...	1530	42	189	--	13.0	31...	1140	106	91	7.7	10.0
18...	1530	205	155	--	11.5						

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10317420 MAHALA CREEK NEAR TUSCARORA, NV (LAT 41°20'16" LONG 115° 54'32")									
DEC, 1983					MAY, 1984				
08...	1210	.16	515	8.0	16...	1315	42	322	6.5
FEB, 1984					JUL				
21...	1115	1.2	538	5.0	18...	1750	1.7	391	15.5
APR									
12...	1210	4.2	519	8.0					
10317450 GANCE CREEK NEAR TUSCARORA, NV (LAT 41°17'45" LONG 115°57'16")									
OCT, 1983					APR, 1984				
04...	1110	3.3	388	11.5	12...	1330	7.3	325	6.5
DEC					MAY				
08...	1330	3.7	361	6.0	17...	1220	53	204	5.0
FEB, 1984					JUL				
21...	1235	3.8	314	5.0	19...	1210	8.9	276	16.0
10318500 HUMBOLDT RIVER NEAR ELKO, NV (LAT 40°56'00" LONG 115°38'00")									
OCT, 1983					MAY, 1984				
05...	1410	152	554	16.0	09...	1435	2300	406	15.5
NOV					17...	1200	5720	353	13.5
28...	1515	284	507	4.0					
10322500 HUMBOLDT RIVER AT PALISADE, NV (LAT 40°36'25" LONG 116°12'05")									
NOV, 1983					AUG, 1984				
28...	1355	473	483	3.0	28...	1235	255	525	21.5
APR, 1984									
24...	1150	4920	384	11.5					

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPR-ATURE, WATER (DEG C)
10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40°49'30" LONG 116°34'45")											
NOV, 1983						AUG, 1984					
30...	1235	26	--	8.3	2.0	02...	1150	20	369	8.4	22.5
JUL, 1984											
02...	1230	55	390	8.5	24.0						

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)
10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40°10'16" LONG 117°12'23")											
OCT, 1983						MAY, 1984					
13...	1310	1.9	554	--	13.5	16...	1245	29	299	--	13.5
NOV						JUN					
22...	1430	3.3	505	8.3	3.5	19...	1405	8.3	389	8.4	18.5
JAN, 1984						AUG					
30...	1325	4.0	520	--	--	02...	1455	4.2	496	8.6	24.5
MAR											
07...	1355	4.6	489	8.2	12.0						

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10327500 HUMBOLDT RIVER AT COMUS, NV (LAT 40°59'33" LONG 117°19'00")									
OCT, 1983					FEB, 1984				
13...	1625	237	637	14.5	09...	1245	732	822	2.5
10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41°24'55" LONG 117°22'22")									
JAN, 1984					MAY, 1984				
26...	1120	13	452	9.0	23...	1420	430	291	16.0
MAR					SEP				
08...	1210	23	483	12.0	18...	1825	25	331	--
APR									
11...	1315	101	328	8.0					

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, WATER (DEG C)
10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV (LAT 41°32'00" LONG 117°25'40")											
JAN, 1984						MAY, 1984					
26...	1010	24	171	--	5.0	23...	1105	542	108	7.6	8.5
APR											
11...	1110	134	182	8.0	4.0						

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10336715 MARLETTE CREEK NEAR CARSON CITY, NV (LAT 39°10'20" LONG 119°54'25")									
OCT, 1983					JUN, 1984				
12...	1050	3.5	38	10.0	26...	1105	6.2	36	15.0
JAN, 1984					AUG				
06...	1330	6.3	36	.5	03...	1120	1.2	37	15.0
APR					SEP				
13...	1105	4.7	37	2.0	21...	1140	.21	44	12.5
MAY									
21...	1240	9.6	36	6.0					
10348000 TRUCKEE RIVER AT RENO,NV (LAT 39°31'53" LONG 119°47'07")									
OCT, 1983					MAR, 1984				
05...	0940	154	165	12.0	05...	0910	1680	102	4.5
NOV					APR				
01...	1100	914	93	9.0	09...	0915	1120	102	5.0
DEC					MAY				
02...	1000	3370	90	7.0	07...	1400	1270	86	8.0
JAN, 1984					AUG				
16...	1420	3000	--	4.5	01...	1300	388	119	19.0
FEB					SEP				
08...	1330	1520	106	3.5	11...	0910	242	137	15.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV (LAT 39°12'12" LONG 119°52'17")									
OCT, 1983					JUN, 1984				
12...	1240	4.8	47	7.5	22...	1145	7.5	43	13.0
JAN, 1984					AUG				
06...	1500	4.8	50	.0	03...	0935	3.7	52	12.5
APR					SEP				
13...	1220	4.7	49	5.0	21...	1030	2.8	57	12.0
MAY									
18...	1150	15	34	11.0					

DATE	TIME	ELEV-ATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	ELEV-ATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10348700 WASHOE LAKE NEAR CARSON CITY, NV (LAT 39°16'30" LONG 119°47'35")									
NOV, 1983					MAR, 1984				
02...	1200	5029.23	330	14.5	01...	1305	5030.43	270	1.0
JAN, 1984					APR				
09...	1300	5030.98	302	.0	03...	1330	5030.03	270	8.0
FEB					30...	1330	5029.78	306	5.0
01...	1300	5030.68	--	.5	MAY				
					30...	1330	5029.68	284	13.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10348900 GALENA CREEK NEAR STEAMBOAT, NV (LAT 39°21'43" LONG 119°49'37")									
MAY, 1984					AUG, 1984				
08...	1030	25	65	--	02...	1145	16	63	5.5
JUL									
11...	1010	22	59	9.0					
10350400 TRUCKEE RIVER BELOW TRACY, NV (LAT 39°33'52" LONG 119°31'02")									
OCT, 1983					APR, 1984				
05...	1505	400	300	15.0	09...	1230	1210	156	7.0
DEC					MAY				
05...	1150	3550	128	2.0	09...	1235	1580	126	11.0
JAN, 1984					JUN				
11...	1230	3370	116	3.0	07...	1240	2360	100	12.0
FEB					SEP				
06...	1445	2350	126	6.0	10...	1155	320	270	20.0
MAR									
06...	1130	1810	142	6.5					
10351650 TRUCKEE RIVER AT WADSWORTH, NV (LAT 39°38'19" LONG 119°16'09")									
OCT, 1983					APR, 1984				
03...	0935	867	200	12.5	03...	1315	1490	144	10.0
27...	1000	428	240	8.0	MAY				
NOV					01...	1050	824	185	10.5
30...	0925	3600	124	5.5	31...	1445	2210	100	15.0
JAN, 1984					JUN				
17...	1100	3320	129	5.0	26...	1100	313	225	21.0
FEB					JUL				
09...	1230	1820	147	7.0	26...	1500	200	227	25.0
MAR					SEP				
06...	0845	1960	149	6.0	11...	1250	54	302	20.5
10352500 McDERMITT CREEK NEAR McDERMITT, NV (LAT 41°58'00" LONG 117°50'01")									
APR, 1984					AUG, 1984				
10...	1450	252	286	6.5	06...	1915	17	284	26.5
MAY					SEP				
02...	0940	319	249	7.0	18...	1350	7.1	402	20.0
JUN									
13...	1000	122	282	15.0					

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, WATER (DEG C)
10353600 KINGS RIVER NEAR OROVADA, NV (LAT 41°54'25" LONG 118°18'30")									
NOV, 1983					JUN, 1984				
08...	1545	3.1	155	4.0	12...	1430	31	106	11.5
FEB, 1984					AUG				
07...	1155	11	135	3.5	07...	1435	4.2	143	24.0
MAR									
22...	1320	42	144	9.0					
13161500 BRUNEAU RIVER AT ROWLAND, NV (LAT 41°56'00" LONG 115°40'25")									
OCT, 1983					MAY, 1984				
20...	1130	38	237	8.0	02...	1100	907	155	--
FEB, 1984					JUL				
01...	1400	80	185	--	17...	1335	169	189	19.0
13174500 OWYHEE RIVER NEAR GOLD CREEK, NV (LAT 41°41'15" LONG 115°50'38")									
OCT, 1983					MAY, 1984				
19...	1240	3.1	178	13.5	01...	1515	499	181	3.0
NOV									
29...	1310	E3.0	172	7.0					
13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM NEAR OWYHEE, NV (LAT 41°55'20" LONG 116°04'10")									
OCT, 1983					APR, 1984				
25...	1250	36	279	4.5	26...	1355	1160	149	3.5
NOV									
29...	1135	55	243	4.5					

E: ESTIMATED.

HYDROGRAPHIC AREAS, STATE OF NEVADA

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) Orovada 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. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek--Tenmile 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. Pumpernickel 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. Warm 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. Skedaddle Creek V.
99. Red Rock V.
100. Cold Spring V.

8-CARSON RIVER BASIN
101. Carson Desert
    (A) Packard 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. Huntoon 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. Ralston 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 Park
    (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. Pahrump 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. Tippett 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. Pahranagat 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

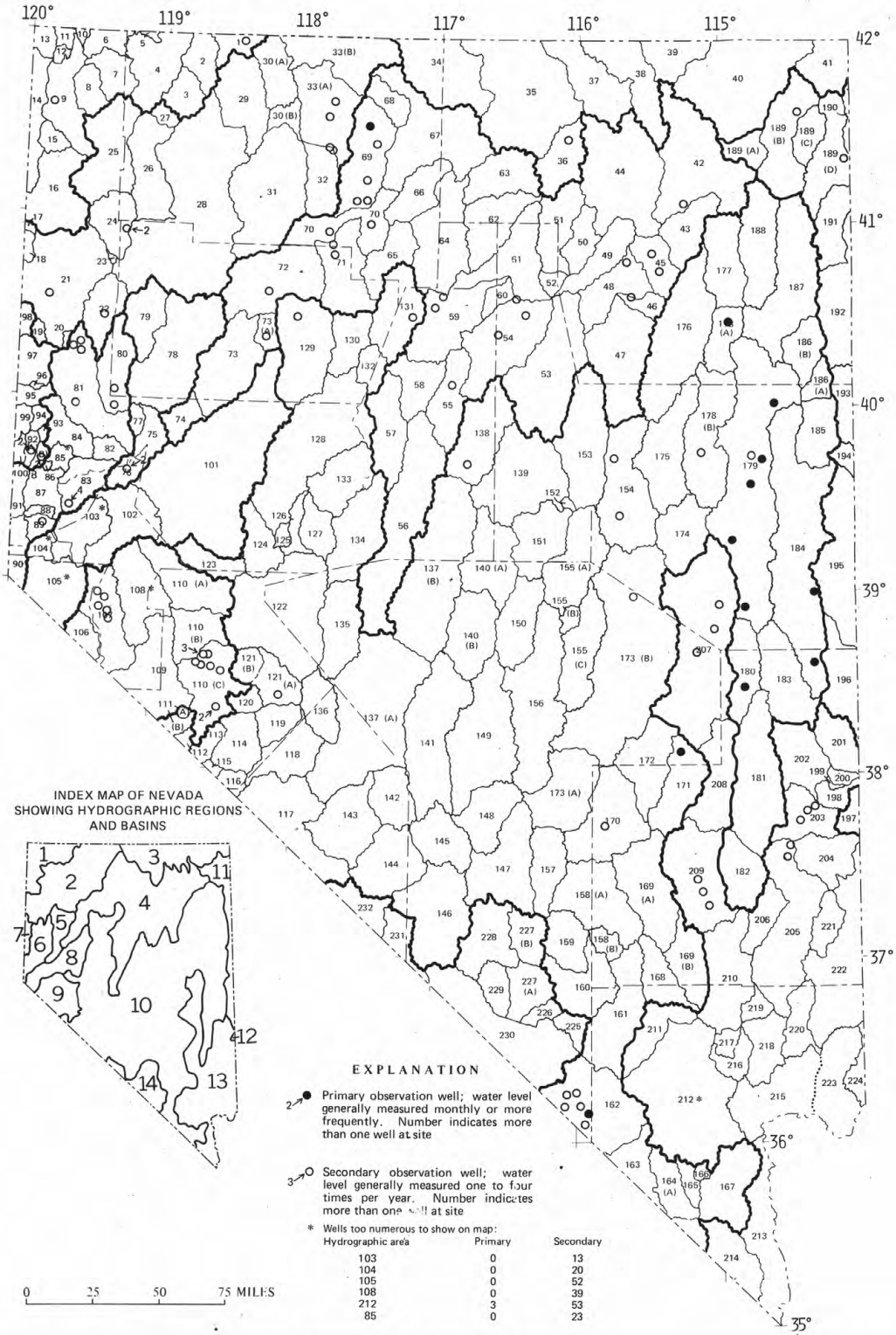

FIGURE 6.—Observation wells listed in this report.

BUTTE VALLEY

402555114591801. Local number, 178A N30 E62 33CAC1.
LOCATION.--Lat 40°25'55", long 114°59'18", Hydrologic Unit 16060007, in Elko County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in. depth 89 ft, cased to 89 ft.
DATUM.--Altitude of land-surface datum is 6,030 ft. Measuring point: Top of casing, 1.1 ft above land-surface datum.
REMARKS.--In Butte Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.08 ft, below land-surface datum, May 31, 1984; lowest measured, 34.97 ft below land-surface datum, Sept. 20, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	34.90	34.76	34.63	34.61	34.50	34.50	34.27	--	34.09	34.24	34.56	34.81
10	34.87	34.73	34.63	34.59	34.50	34.50	34.26	--	34.09	34.30	34.62	34.82
15	34.85	34.72	34.62	34.53	34.50	34.32	34.25	--	34.10	34.38	34.67	34.82
20	34.83	34.67	34.62	34.53	34.50	34.31	34.24	--	34.10	34.44	34.70	34.81
25	34.81	34.66	34.62	34.50	34.50	34.30	34.21	34.10	34.14	34.49	34.74	34.80
EOM	34.77	34.64	34.62	34.50	34.50	34.28	--	34.08	34.18	34.52	34.78	34.76

CAVE VALLEY

382807114521001. Local number, 180 N07 E63 14BADD1.
LOCATION.--Lat 38°28'07", long 114°52'10", Hydrologic Unit 16060009, in Lincoln County.
Owner: U.S. Air Force.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 17 in, depth 460 ft, cased to 460 ft, perforated 210 to 250 ft, 375 to 435 ft.
DATUM.--Altitude of land-surface datum is 6,008 ft. Measuring point: Top of casing, 2.0 ft above land-surface datum.
REMARKS.--In Cave Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225.6 ft below land-surface datum, Sept. 30, 1984; lowest measured, 226.9 ft below land-surface datum, Oct. 24, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	226.7	226.6	226.8	226.4	226.4	226.4	--	226.1	226.1	226.0	226.1	226.0
10	226.7	226.6	226.6	226.5	226.2	226.4	--	226.0	226.0	226.2	226.1	225.9
15	226.7	226.8	226.5	226.6	226.5	226.3	--	226.0	226.1	226.2	226.1	226.0
20	226.7	226.3	226.3	226.6	226.5	226.3	--	226.1	226.0	226.1	226.1	225.8
25	226.8	226.5	226.5	226.4	226.3	--	--	226.1	226.1	226.1	226.1	226.1
EOM	226.6	226.6	226.6	226.4	226.3	--	--	226.0	226.1	226.1	225.9	225.7

COAL VALLEY

380758115204601. Local number, 171 N03 E59 10BD1.
LOCATION.--Lat 38°07'58", long 115°20'46", Hydrologic Unit 16060014,in Nye County.
Owner: U.S. Geological Survey.
AQUIFER.--Guilmette Formation of Upper Devonian age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 1,837 ft, cased to 118 ft.
DATUM.--Altitude of land-surface datum is 5,600 ft. Measuring point: Top of casing, which is at LAND-surface datum.
REMARKS.--In Nye County.
PERIOD OF RECORD.--October 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 802.3 ft below land-surface datum, March 26, 1984; lowest measured, 803.0 ft below land-surface datum, Oct. 10, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	802.9	802.8	802.9	802.7	802.7	802.7	802.6	802.6	802.6	802.6	802.6	--
10	802.9	802.7	802.7	802.8	802.5	802.7	802.6	802.6	802.6	802.7	802.6	--
15	802.8	802.8	802.7	802.8	802.7	802.6	802.7	802.5	802.6	802.8	--	--
20	802.8	802.5	802.5	802.8	802.8	802.6	802.7	802.6	802.6	802.7	--	802.4
25	803.0	802.6	802.7	802.7	802.6	802.6	802.5	802.7	802.7	802.7	--	802.7
EOM	802.7	802.7	802.8	802.7	802.6	802.5	802.7	802.6	802.6	802.6	--	802.5

LAS VEGAS VALLEY

361843115161001. Local number 212 S19 E60 09BCC1.
LOCATION.--Lat 36°18'43", long 115°16'10", Hydrologic Unit 15010015, in Clark County.
Owner: J. P. Goumond.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 830 ft, cased to 140 ft.
DATUM.--Altitude of land-surface datum is 2,510 ft. Measuring point: Top of casing, 0.5 ft above land-surface datum.
REMARKS.--State Engineer well no. 427, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.65 ft below land-surface datum, June 3, 1946; lowest measured, 161.70 ft below land-surface, Sept. 10, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	--	154.97	153.84	153.14	--	--	--	155.74	--	--	--	154.12
10	--	154.98	153.60	--	152.22	--	--	155.09	156.80	--	--	154.56
15	155.28	154.44	153.34	156.00	153.28	--	154.20	155.86	157.00	--	--	154.77
20	155.48	153.93	153.36	155.50	154.08	--	155.06	156.46	156.92	--	--	153.64
25	155.14	153.90	153.03	--	154.23	--	155.35	156.35	156.91	--	--	154.74
EOM	155.01	154.35	153.16	--	--	--	155.70	156.51	--	--	--	153.82

361611115151301. Local number, 212 S19 E60 27BDC1.
LOCATION.--Lat 36°16'11", long 115°15'13", Hydrologic Unit 15010015, in Clark County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 905 ft, cased to 84 ft.
DATUM.--Altitude of land-surface datum is 2,360.80 ft. Measuring point: Hole on west side of casing, 1.2 ft above land-surface datum.
REMARKS.--Measurements supplied by Office of Nevada State Engineer and U.S. Geological Survey personnel.
PERIOD OF RECORD.--1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.90 ft above land-surface datum, June 3, 1946; lowest measured, 86.80 ft below land-surface datum, June 25, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 3	80.97	Nov. 1	81.00	Dec. 5	77.59	Jan. 3	75.78	Feb. 6	75.51	Mar. 5	77.10
10	80.22	7	80.80	13	77.14	9	75.60	13	75.00	12	77.27
17	80.15	14	80.30	19	77.06	16	75.27	21	76.25	19	77.75
24	80.44	21	78.90	27	75.91	23	75.20	27	78.24	26	77.45
		28	78.38			30	75.30				

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 2	77.78	May 7	81.95	June 4	85.03	July 2	86.44	Aug. 6	82.90	Sept. 4	81.80
9	78.13	14	82.22	11	85.18	9	86.09	20	81.58	10	82.80
16	79.85	21	83.14	18	85.15	16	86.33	27	81.06	17	82.20
23	80.01	29	84.45	25	86.18	30	82.38			25	82.70
30	80.55										

360349115100001. Local number, 212 S22 E61 04BCB1.
LOCATION.--Lat 36°03'49", long 115°10'00", Hydrologic Unit 15010015, in Clark County.
Owner: Fitzpatrick.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in., depth 355 ft above land-surface datum.
DATUM.--Altitude of land-surface datum is 2,224.91 ft. Measuring point: Top of casing, 0.8 ft above land-surface datum.
REMARKS.--State Engineer well no. 189, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, Jan. 25, 1939; lowest measured, 161.07 ft below land-surface datum, July 9, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 3	158.95	Nov. 7	158.55	Dec. 5	158.00	Jan. 3	157.48	Feb. 6	157.17	Mar. 5	157.56
10	158.80	14	158.68	13	157.80	9	157.34	13	157.10	12	157.62
17	158.95	28	158.17	19	157.60	16	157.37	21	157.13	19	157.88
24	158.88			27	157.18	23	157.18	27	157.40	26	157.68
						30	157.16				

LAS VEGAS VALLEY--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 2	158.03	May 7	158.54	June 4	160.34	July 2	160.68	Aug. 6	160.56	Sept. 4	161.00
9	158.15	14	159.42	11	160.28	9	161.07	13	160.81	10	160.96
16	158.65	21	159.67	18	160.60	16	161.06	20	160.34	17	160.74
30	158.95	29	160.37	25	160.94	30	160.25	27	160.66	25	160.94

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10ACC1.
LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.
Owner: E. S. Bowman.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 800 ft, cased to 472 ft, perforated 100 to 450 ft.
DATUM.--Altitude of land-surface datum is 2,885 ft. Measuring point: Edge of recorder shelf, 1.2 ft above land-surface datum.
REMARKS.--State Engineer well no. 22, measurements supplied by Office of the Nevada State Engineer.
PERIOD OF RECORD.--1944, 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.34 ft below land-surface datum, Oct. 13, 1944; lowest measured, 112.70 ft below land-surface datum, Nov. 7, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	--	--	97.50	95.10	--	100.31	101.28	--	--	--	--	98.11
10	104.54	99.64	96.70	94.90	95.18	100.40	100.50	--	--	103.80	104.59	99.59
15	103.98	99.69	96.89	94.73	96.64	100.53	100.03	--	--	--	103.44	98.72
20	103.98	97.93	96.04	94.80	99.16	100.92	101.37	--	--	--	100.30	98.51
25	102.50	98.60	95.84	94.11	100.67	101.23	--	--	--	--	99.05	--
EOM	100.60	93.38	95.61	93.86	100.01	101.23	--	--	--	--	98.48	--

PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25C1.
LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft, depth 17.4 ft, cased with iron.
DATUM.--Altitude of land-surface datum is 4,523 ft. Measuring point: Top of concrete floor, 5.2 ft below land-surface datum.
REMARKS.--In Paradise Valley.
PERIOD OF RECORD.--1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.19 ft below land-surface datum, May 23, 1983; lowest measured, 11.03 ft below land-surface datum, Nov. 16, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 14	-5.93	Jan. 26	-3.64	Apr. 26	-1.47	July 27	-4.45
Nov. 17	-6.00	Feb. 28	-2.36	May 23	-1.19	Aug. 29	-5.46
Dec. 28	-2.78	Mar. 29	-1.22	June 13	-2.52	Sept. 18	-5.70

SPRING VALLEY

38704114225001. Local number, 184 N09 E68 30AA1.
LOCATION.--Lat 38°37'04", long 114°22'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 699 ft, cased to 681.5 ft.
DATUM.--Altitude of land-surface datum is 5,990 ft. Measuring point: Top of casing, 0.75 ft above land-surface datum.
REMARKS.--In Spring Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 226.8 ft below land-surface datum, Dec. 3, 1983; lowest measured, 227.6 ft below land-surface datum, Dec. 28, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	227.4	227.3	227.2	227.3	227.3	227.3	--	227.2	227.2	227.1	227.1	227.2
10	227.4	227.1	227.4	227.2	227.2	227.3	--	227.2	227.2	227.2	227.1	227.1
15	227.4	227.1	227.3	227.4	227.4	227.3	--	227.2	227.2	227.2	227.1	227.2
20	227.4	226.9	227.2	227.4	227.3	227.2	227.4	227.1	227.1	227.1	227.1	227.1
25	227.5	227.0	227.3	227.2	227.3	--	227.2	227.2	227.1	227.1	227.2	227.3
EOM	227.3	227.1	227.4	227.3	227.2	--	227.2	227.1	227.2	227.1	227.1	--

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

SPRING VALLEY--Continued

385715114254501. Local number, 184 N13 E67 34AAAA1.
LOCATION.--Lat 38°57'15", long 114°25'45", Hydrologic Unit 16060008, in White Pine County.
Owner: L. Larson.
AQUIFER.--Alluvium of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 16 in., depth 916 ft, cased to 874 ft.
DATUM.--Altitude of land-surface datum is 5,805 ft. Measuring point: Top of casing, 1.90 ft above land-surface datum.
REMARKS.--In Spring Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.17 ft below land-surface datum, Sept. 30, 1984; lowest measured, 2.54 ft below land-surface datum, April 19, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	2.34	2.28	2.23	2.15	2.04	1.93	1.66	1.48	1.39	1.31	1.32	1.24
10	2.33	2.27	2.22	2.13	2.02	1.91	1.64	1.46	1.37	1.31	1.32	1.23
15	2.32	2.26	2.21	2.12	2.00	1.88	1.61	1.43	1.35	1.32	1.31	1.21
20	2.31	2.25	2.19	2.10	1.98	1.85	1.58	1.45	1.33	1.33	1.29	1.20
25	2.31	2.24	2.19	2.08	1.97	1.83	1.55	1.43	1.32	1.32	1.27	1.19
EOM	2.29	2.24	2.17	2.06	1.95	1.79	1.53	1.41	1.31	1.32	1.25	1.18

STEPTOE VALLEY

385521114503601. Local number, 179 N12 E63 12AB1.
LOCATION.--Lat 38°55'21", long 114°50'36", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFERS.--Ely Limestone of Middle Pennsylvanian Age, Chainman Shale of Upper Mississippian Age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth unknown, cased to 958 ft, perforated 500 to 543 ft, and 743 to 940 ft.
DATUM.--Altitude of land-surface datum is 7,320 ft. Measuring point: Top of casing, 1.3 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 410.3 ft below land-surface datum, July 31, 1983; lowest measured, 414.4 ft below land-surface datum, Nov. 8, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov. 8	414.4	June 11	410.4	July 31	410.3	Sept. 21	411.4
May 11	413.6						

391634114484901. Local number, 179 N16 E64 06CBDC1.
LOCATION.--Lat 39°16'34", long 114°48'49", Hydrologic Unit 16000008, in White Pine County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary Age.
WELL CHARACTERISTICS.--Drilled stock well, diameter 6 in., depth 306 ft, cased to 306 ft, perforated 270 to 306 ft.
DATUM.--Altitude of land-surface datum is 6,407 ft. Measuring point: Top of casing, 1.5 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1951, 1965, 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 226.0 ft below land-surface datum, Sept. 20, 1984; lowest measured, 268.5 ft below land-surface datum, June 10, 1951.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	236.1	235.2	234.7	343.6	232.4	231.2	229.9	228.9	227.8	227.0	226.6	226.4
10	236.0	235.1	234.6	233.4	232.1	231.0	229.7	228.7	227.6	227.0	226.6	226.2
15	235.8	235.1	234.3	233.4	232.0	230.7	229.7	228.5	227.6	226.9	226.5	226.3
20	235.7	234.6	234.0	233.1	231.8	230.5	229.6	228.3	227.4	226.7	226.5	226.2
25	235.7	234.7	234.0	232.8	231.6	230.3	229.2	228.2	227.4	226.7	226.4	226.4
EOM	235.4	234.6	233.9	232.6	231.3	230.0	229.1	228.0	227.2	226.6	226.3	226.2

STEPTOE VALLEY--Continued

393310114475002. Local number, 179 N20 E64 32C2.
LOCATION.--Lat 39°33'10", long 114°47'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled test well, diameter 10 in., depth 110 ft, cased to 122 ft, perforated 20 to 120 ft.
DATUM.--Altitude of land-surface datum is 6,070 ft. Measuring point: Top of casing, 1.0 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1918, 1949-57, 1959, 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.68 ft below land-surface datum, May 14, 1984; lowest measured, 17.87 ft below land-surface datum, Dec. 17, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	10.65	10.35	10.11	9.82	9.56	9.33	9.00	8.73	8.87	9.36	9.60	9.47
10	10.59	10.31	10.05	9.77	9.52	9.28	8.93	8.70	8.91	9.47	9.67	9.47
15	10.53	10.27	10.01	9.74	9.49	9.23	8.89	8.69	8.98	9.56	9.67	9.37
20	10.48	10.21	9.96	9.70	9.45	9.18	8.85	8.70	9.04	9.63	9.56	9.27
25	10.45	10.17	9.92	9.64	9.40	9.13	8.79	8.76	9.16	9.60	9.50	9.20
EOM	10.40	10.13	9.87	9.60	9.36	9.06	8.77	8.83	9.26	9.57	9.48	9.13

394101114551. Local number, 179 N21 E64 17DCBB1.
LOCATION.--Lat 39°41'01", long 114°45'51", Hydrologic Unit 16060008, in White Pine County.
Owner: Glen Tree.
AQUIFER.--Alluvium of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 16 in., depth 300 ft, cased to 300 ft, perforated 60 to 300 ft.
DATUM.--Altitude of land-surface datum is 6,027 ft. Measuring point: Top of casing 1.4 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.3 ft below land-surface datum, May 14, 1984; lowest water level measured, 61.0 ft below land-surface datum, Aug. 5, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	60.6	60.3	60.2	60.0	59.8	59.7	59.6	59.4	59.5	59.6	59.7	59.7
10	60.5	60.3	60.2	60.0	59.8	59.7	59.5	59.4	59.5	59.6	59.8	59.7
15	60.5	60.3	60.1	60.0	59.8	59.7	59.5	59.4	59.5	59.6	59.8	59.6
20	60.4	60.2	60.0	59.9	59.8	59.6	59.5	59.4	59.6	59.6	59.7	59.6
25	60.4	60.2	60.0	59.9	59.8	59.6	59.5	59.5	59.6	59.6	59.8	59.6
EOM	60.4	60.2	60.0	59.8	59.7	59.6	59.5	59.5	59.6	59.7	59.8	59.5

400016114401601. Local number, 179 N25 E65 31BBDD1.
LOCATION.--Lat 40°00'16", long 114°40'16", Hydrologic Unit 16060008, in White Pine County.
Owner: J. Parsons.
AQUIFER.--Alluvium of Quaternary Age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 235 ft, cased to 235 ft, perforated 155 to 235 ft.
DATUM.--Altitude of land-surface datum is 5,971 ft. Measuring point: Top of casing, 2.3 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.3 ft below land-surface datum, Sept. 10, 1984; lowest measured, 106.1 ft below land-surface datum, Nov. 14, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	--	--	106.0	105.9	105.8	105.7	105.6	105.6	--	--	--	105.4
10	--	106.0	106.0	105.8	105.8	105.7	105.6	105.6	--	--	--	105.3
15	--	106.0	105.9	105.9	105.8	105.7	105.6	105.6	--	--	--	105.4
20	--	105.9	105.9	105.8	105.8	105.7	105.6	105.6	--	--	--	105.4
25	--	106.0	105.9	105.8	105.8	105.7	105.6	--	--	--	--	105.4
EOM	--	106.0	105.9	105.8	105.8	105.6	105.6	--	--	--	105.4	105.3

County codes: 510, Carson City; 001, Churchill; 003, Clark; 005, Douglas; 007, Elko; 009, Esmeralda; 011, Eureka; 013, Humboldt; 015, Lander; 017, Lincoln; 019, Lyon; 021, Mineral; 023, Nye; 027, Pershing; 029, Storey; 031, Washoe; 033, White Pine.
Water-use-codes: F, fire; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.
Geologic-unit-codes: 110LSVG, Quaternary Las Vegas Formation; 110VLFL, Quaternary valley fill, undifferentiated; 121 KTPK, Pliocene Kate Peak Formation; 121 MDCK, Pliocene Muddy Creek Formation; 122ALTA, Miocene ALTA Formation.
Aquifer codes: A, artesian; U, unknown; W, watertable.

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
1	N47 E30 15CDCD1	415800118370001	PINE FOREST FRM	13	I	110VLFL	U	200.
9	N43 E19 33BB 1	413630119520001		31	S	110VLFL	U	70.
21	N31 E19 26B 1	403200119490001	USBLM	31	S	110VLFL	U	111.
22	N30 E23 29B 1	402700119250001		31	U	110VLFL	U	109.
24	N35 E24 32DDC 1	405208119161501	USGS	27	U	110VLFL	W	15.
24	N35 E24 32DDC 2	405208119161502	USGS	27	U	110VLFL	A	66.
32	N41 E37 32AAAC1	412854117495001	E F RUNOW	13	I	110VLFL	U	250.
32	N41 E37 33BDAB1	413310117482002	DREES	13	I	110VLFL	U	95.
33A	N42 E37 04BDCA1	413300117494001	DONALD MORRIS	13	I	110VLFL	U	360.
33A	N44 E37 33AAAA1	412934117483001	ALBISU	13	I	110VLFL	U	550.
42	N37 E59 25BCBC1	410400115164001	MARBLE RANCH	7	H	110VLFL	W	14.
45	N33 E58 19ADDD1	404350115281001	H CONRAD	7	H	110VLFL	W	16.
45	N34 E57 24CDDD1	404822115300801	BALBOA	7	H	110VLFL	A	97.
46	N31 E56 16ADDA1	403400115400001		7	S	110VLFL	U	
48	N33 E56 08CAAD1	404521115395801	MOFAT	7	H	110VLFL	W	12.
54	N29 E48 03BDCB1	402450116324001	DEAN RANCH	11	S	110VLFL	U	
54	N29 E48 29CACC2	402100116352001	BEOWAWE FARMS	11	I	110VLFL	U	300.
54	N31 E49 05CACC1	403500116234501	WILLIAM CONNELLY	11	H	110VLFL	W	10.
55	N26 E45 28CBAC1	400540116550001	HENRY FILIPPINI	15	S	110VLFL	U	16.
59	N30 E44 18ADBD1	402831117034201	COPPER CYN MINING	15	I	110VLFL	U	264.
59	N31 E44 01DACA1	403520117181101	USGS	15	U	110VLFL	W	52.
69	N37 E38 02AAC 1	410704117394001	TOLLHOUSE WELL	13	U	110VLFL	W	79.
69	N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	58.
69	N38 E39 28CDDD1	410806117353501	W G LONG	13	I	110VLFL	U	256.
69	N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
70	N35 E37 08DDCA2	405521117503301	G MCNINCH	13	I		U	77.
70	N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71	N34 E37 22ACAA1	404940117475001	J BALLARD	27	U	110VLFL	U	50.
71	N35 E37 34AACC2	405130117480002		13	U		U	83.
72	N32 E33 33AAAA1	403620118153001	C&C CAMPBELL	27	I	110VLFL	U	288.
73A	N29 E33 33AAAC1	402000118160001	LOVELOCK MEADOWS	27		110VLFL	U	395.
76	N20 E25 18CCC 1	393539119133001	JOE GARBARINO	19	U	110VLFL	U	28.
76	N20 E25 18CCC 2	393539119133002	JOE GARBARINO	19	U	110VLFL	U	155.
80	N24 E23 36CBA 1	395422119210701	W J CERESOLA	31	U	110VLFL	U	73.
80	N25 E23 23CDBA1	400100119220001		31		110VLFL	W	12.
81	N24 E22 31CCC 2	395357119333401	USBIA	31	U	110VLFL	U	226.
81	N27 E21 09BDA 1	401352119380201	USGS	31	U	110VLFL	U	47.

Depths, diameter, and altitude: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and altitude are rounded to nearest foot. Well diameter is rounded to nearest inch. Altitude is that of LSD, with reference to sea level.
Period of record: Interval shown spans period from earliest measurement to latest measurement, and may include intervals with no record.
Water levels: Levels above LSD are listed as negative values.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4380.	1968-	45.58	03/20/68	56.80	05/01/69	47.43	04/24/84
6.		5200.	1968-	10.22	03/13/72	14.66	04/10/79	12.09	04/27/84
6.		4000.	1966-	37.91	09/15/66	54.97	04/17/79	53.87	04/27/84
6.		4013.	1966-	45.20	04/09/69	51.29	03/14/84	51.29	03/14/84
2.		4031.	1967-	3.77	04/16/73	14.86	04/27/84	14.86	04/27/84
2.		4031.	1967-	-2.25	06/14/67	11.48	04/27/84	11.48	04/27/84
16.	150.- 250.	4200.	1971-	47.44	04/24/84	78.11	04/29/71	47.44	04/24/84
16.		4220.	1948-	36.54	04/21/48	116.58	03/23/77	69.96	04/24/84
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	95.66	04/24/84
16.	175.- 545.	4280.	1972-	95.69	04/06/78	144.57	04/06/82	130.58	04/24/84
48.		5350.	1938-	0.32	04/28/69	10.80	03/30/55	1.81	04/18/84
48.		5950.	1934-	0.09	04/28/46	15.10	12/15/40	7.13	04/16/84
8.		5550.	1944-	-1.48	02/26/53	7.10	12/26/52	0.60	04/20/84
6.		5650.	1964-	70.79	04/16/84	90.92	03/17/70	70.79	04/16/84
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	4.83	04/16/84
8.		4740.	1973-	-0.45	04/26/84	0.40	03/18/81	-0.45	04/26/84
14.		4800.	1958-	54.66	04/10/78	69.28	09/28/66	55.83	04/26/84
48.		4698.	1948-	4.46	04/26/84	8.33	09/22/54	4.46	04/26/84
10.		5100.	1965-	3.64	04/29/82	10.45	03/23/76	3.80	04/26/84
12.		4609.	1947-	5.25	04/30/69	6.91	03/29/82	5.35	04/17/84
2.		4557.	1964-	29.81	04/13/71	32.48	05/28/64	31.09	04/17/84
6.		4334.	1945-	26.07	03/18/53	49.66	10/19/82	43.68 42.97	11/08/83 02/27/84
10.	20.- 75.	4317.	1968-	8.10	11/08/71	29.80	09/03/81	15.17	11/08/83
16.		4317.	1968-	9.86	04/18/72	26.44	11/21/81	17.14	11/08/83
8.		4414.	1970-	0.69	04/23/71	9.01	11/12/81	1.15	04/24/84
16.		4300.	1947-	50.74	03/17/53	76.52	04/07/83	58.18	04/25/84
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	24.73	04/25/84
6.		4329.	1946-	9.31	03/21/56	14.16	04/12/82	10.76	04/23/84
10.		4301.	1946-	17.68	05/16/46	28.79	04/07/83	23.42	04/25/84
14.		4150.	1954-	28.18	04/23/84	45.85	03/25/70	28.18	04/23/84
12.	100.- 395.	4300.	1968-	119.10	04/23/69	126.15	04/06/83	124.22	04/23/84
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	6.92	03/14/84
10.		4135.	1953-	3.33	09/02/53	21.18	03/27/78	20.74	03/14/84
6.		3845.	1969-	23.65	07/31/69	27.14	07/14/70	23.94	03/12/84
48.		3800.	1968-	2.47	04/18/73	4.22	03/21/83	4.09	03/14/84
8.		3988.	1970-	10.25	03/09/72	24.28	03/12/84	24.28	03/12/84
2.	45.- 47.	3845.	1967-	5.90	07/28/67	11.35	04/21/83	10.57	03/13/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
81 N27 E21 16ABD 1	401245119374401	USGS	31	U	110VLFL	U	44.
81 N28 E21 33CCD 1	401443119381201	USGS	31	U	110VLFL	U	60.
83 N18 E21 32ABCD1	392313119384201	JOHN CHOATE	29	H	122ALTA	U	300.
83 N18 E21 32CBBD1	392254119392001	MICHAEL DEVANY	29	H	122ALTA	U	180.
83 N18 E21 33BABC1	392320119375301	CARLSBURG DEVEL CORP	29	U	121KTPK	U	300.
83 N18 E21 33BABC2	392320119375302	MERAK DEVEL CORP	29	F		U	200.
85 N20 E20 01CBAB1	393743119413601	CUSTOM BUILDERS	31	H		U	130.
85 N20 E20 01DACB1	393737119411501	CUSTOM BUILDERS	31	H		U	125.
85 N20 E20 03BCDC1	393744119435101	JIM PATERSON	31	H		U	379.
85 N20 E20 03DBAC1	393738119432101	E A BECKER	31	P		U	815.
85 N20 E20 10CDAB1	393637119432901	DAVE KILEY	31	S		U	105.
85 N20 E20 10DBBC1	393649119432301	DAVID L KILEY	31	S		U	300.
85 N20 E20 10DBBC2	393649119432302	DAVID L KILEY	31	S		U	250.
85 N20 E20 11BDDA1	393655119421901	JOE GASPARI	31	S		U	199.
85 N20 E20 21AABC1	393529119441601	DEAN SMITH	31	U		U	194.
85 N20 E20 21BDDA1	393513119443501		31	U		U	215.
85 N20 E21 07BCBA1	393707119403001	JIM SWEGER	31	U		U	119.
85 N20 E21 07CBCB1	393648119403301	JIM SWEGER	31	U		U	350.
85 N20 E21 07CCCC1	393631119403401	JIM SWEGER	31			U	44.
85 N20 E21 18DABD1	393558119395001	RICHARD BAILEY	31	I		U	262.
85 N20 E21 18DADB1	393544119394701	HARLEY A MILLS	31	I		U	121.
85 N20 E21 18DADB2	393554119395001		31			U	
85 N20 E21 18DDBA1	393548119395101	RICHARD L BAILEY	31	I		U	250.
85 N21 E20 12DACD1	394154119405401	WILLIAM L WARDRUP	31	H		U	500.
85 N21 E20 24ACDB1	394025119410601	RICHARD T DONOVAN	31	I		U	303.
85 N21 E20 24BCBA1	394032119414601	RICHARD T DONOVAN	31	I		U	217.
85 N21 E20 26DDCC1	393904119420701	ROCKWELL INTERNATIONA	31	N		U	787.
85 N21 E21 20BBDC1	394038119392601	CHARLES WILTSIE	31	H		U	480.
85 N21 E21 31CACA1	393828119401601	BUD MAY	31	H		U	421.
89 N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	31	U	110VLFL	U	94.
92A N20 E18 02DDDD1	393718119550601	DEPT ANDERSON FIR	31	H		U	170.
92A N21 E19 20BDCD1	394022119541201	USGS	31	U		U	67.
92B N20 E19 05DADA1	393737119514801		31	U		U	
92B N20 E19 08DDCB1	393630119520201		31	U		U	387.
92B N20 E19 16AAAA1	393624119504301	FITZGERALD	31	U		U	81.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	16.91	03/13/84
2.	58.- 60.	3865.	1967-	15.31	07/28/67	19.61	04/21/83	18.72	03/13/84
6.	265.- 295.	5980.	1977-	63.65	05/01/84	91.59	04/04/79	63.65	05/01/84
6.	160.- 180.	6242.	1977-	83.00	05/01/84	98.67	04/04/79	83.00	05/01/84
8.	83.- 300.	5785.	1977-	9.10	05/01/84	23.22	12/06/77	9.10	05/01/84
9.	80.- 200.	5785.	1980-	10.47	05/01/84	20.11	03/11/81	10.47	05/01/84
6.	101.- 130.	4490.	1979-	9.55	05/02/84	12.10	04/21/81	9.55 10.17	05/02/84 06/15/84
6.	105.- 125.	4504.	1979-	12.48	04/20/83	22.84	07/18/80	12.72 14.68	05/02/84 06/15/84
8.		4642.	1964-	67.67	04/20/83	103.06	07/11/79	75.70 76.22	05/02/84 06/18/84
16.	238.- 813.	4521.	1964-	54.90	11/18/80	61.59	06/23/81	55.80	06/18/84
8.	59.- 105.	4497.	1979-	25.19	09/20/80	30.08	05/02/84	30.08 28.84	05/02/84 06/18/84
12.	100.- 300.	4485.	1979-	18.64	07/10/79	32.70	04/20/83	22.90 21.70	05/02/84 06/18/84
10.	50.- 250.	4485.	1979-	19.36	07/10/79	23.55	05/02/84	23.55	05/02/84
6.	80.- 160.	4463.	1964-	0.96	02/19/81	5.27	08/31/64	1.08 1.23	05/02/84 06/15/84
10.	50.- 194.	4497.	1979-	90.80	01/19/81	97.09	06/23/81	93.74	06/18/84
8.		4540.	1979-	89.54	01/19/81	95.87	06/18/84	91.70 95.87	05/02/84 06/18/84
6.		4503.	1979-	27.29	06/15/84	28.82	07/24/79	27.29	06/15/84
8.	100.- 350.	4490.	1979-	4.99	06/15/84	5.91	07/18/80	4.99	06/15/84
11.		4514.	1979-	25.89	10/17/80	28.51	06/23/81	25.93	06/15/84
9.	86.- 126.	4528.	1979-	34.00	05/04/83	36.99	07/23/79	34.36	06/15/84
6.	00.- 121.	4531	1979-	47.64	05/02/84	50.55	07/23/79	47.64	05/02/84
		4530.	1980-	39.85	05/04/83	45.18	05/02/84	45.18 40.03	05/02/84 05/15/84
8.		4538.	1979-	40.03	05/15/84	44.73	07/23/79	40.03 41.04	05/15/84 06/15/84
6.	310.- 494.	4875.	1979-	340.36	07/03/79	342.85	05/02/84	342.85	05/02/84
6.	223.- 303.	4678.	1979-	168.90	05/02/84	198.63	04/21/81	168.90	05/02/84
12.	137.- 217.	4569.	1979-	95.18	04/20/83	99.70	07/25/79	96.79	05/02/84
10.	37.- 787.	4550.	1964-	63.09	03/18/81	69.06	04/21/81	64.70	05/02/84
6.	330.- 480.	4918.	1979-	228.83	07/16/79	252.23	05/02/84	252.23	05/02/84
8.	141.- 291.	4668.	1979-	132.64	04/20/83	135.94	10/17/80	133.61	05/02/84
12.		5065.	1968-	5.18	03/09/72	7.20	04/25/84	7.20	04/25/84
7.	100.- 170.	5222.	1963-	19.16	03/10/83	44.08	06/23/81	20.00 19.91 24.99	01/26/84 04/06/84 06/21/84
2.	65.- 67.	5025.	1971-	52.07	12/09/80	59.64	06/27/80	53.84 53.62 53.52	01/26/84 04/06/84 06/21/84
8.		5020.	1966-	28.95	04/06/84	57.10	06/14/77	30.75 28.95 31.28	01/26/84 04/06/84 06/21/84
			1974-	10.42	04/17/75	18.32	10/14/77	11.14 11.12 11.88	01/26/84 04/06/84 06/21/84
6.		5125.	1971-	63.00	03/14/72	78.69	01/26/84	78.69 78.30 78.12	01/26/84 04/06/84 06/21/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
92B N21 E19 15BACD1	394126119502101		31	U		U	
92B N21 E19 22DBAB1	394017119500201	USGS	31	U		U	150.
92B N21 E19 26CCCA1	393907119493101	USGS	31	U		U	62.
92B N21 E19 28CBCB1	393921119515001	USGS	31	U		U	53.
92B N21 E19 29DACB1	393920119520701	USGS	31	U		U	84.
103 N17 E22 27CBAC1	391830119301801	USGS	19	U	110VLFL	U	86.
103 N17 E22 32CADA1	391733119321001	GERALDINE SMITH	19	U	110VLFL	U	101.
103 N17 E22 33BACD1	391756119311401	USGS	19	U	110VLFL	U	66.
103 N17 E23 01DDBA1	392129119205301	STAGE COAC LAND CO	19	U		U	276.
103 N17 E23 02CDCC1	392143119222401	USGS	19	U	110VLFL	U	86.
103 N17 E23 04DDCC1	392141119240601	DUTCH HUGHES	19	U	110VLFL	U	435.
103 N17 E23 07DDDD1	392047119260501	UTAH MINE & CONST CO	19	U	110VLFL	U	386.
103 N17 E23 09CCDC1	392050119244701	USGS	19	U	110VLFL	U	82.
103 N17 E23 09DAAA1	392110119235001	USGS	19	U	110VLFL	U	84.
103 N17 E23 10ABCD1	392126119230901	USGS	19	U	110VLFL	U	88.
103 N17 E23 18DDDD1	391954119260601	UTAH MINE & CONST CO	19	U	110VLFL	U	822.
103 N17 E23 19ACBC1	391933119263301	NORRIS LEEGARD	19	U		U	240.
103 N17 E23 27ABAC1	391857119230701	STEELE HOLMAN	19	H	110VLFL	U	220.
104 N15 E19 01DDDD1	391113119471501	CITY OF CARSON	25	P		U	400.
104 N15 E19 12ADAA1	391057119471901	CITY OF CARSON	25	P		U	507.
104 N15 E19 12DAAD1	391041119471601	DR.WILLIAM R KING	25	H		U	150.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.		5025.	1971-	133.28	06/13/72	155.82	06/21/84	150.48	01/26/84
								148.93	04/06/84
								155.82	06/21/84
2.	148.- 150.	4919.	1971-	17.36	04/20/72	36.50	06/21/84	32.18	01/26/84
								31.97	04/06/84
								36.50	06/21/84
2.	60.- 62.	4919.	1971-	12.80	03/16/72	30.72	01/26/84	30.72	01/26/84
								29.69	04/06/84
								30.45	06/21/84
2.	51.- 53.	4930.	1971-	10.30	04/06/84	17.00	09/15/77	10.88	01/26/84
								10.30	04/06/84
								11.02	06/21/84
2.	82.- 84.	5035.	1971-	38.54	06/23/81	53.11	06/27/80	44.19	01/26/84
								43.54	04/06/84
								44.11	06/21/84
2.	66.- 86.	4335.	1977-	60.56	04/01/83	66.24	09/22/77	61.26	05/01/84
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	53.70	05/01/84
2.		4339.	1977-	50.35	05/01/84	54.30	09/22/77	50.35	05/01/84
8.	240.- 276.	4455.	1972-	224.19	07/14/72	229.52	05/01/84	229.52	05/01/84
2.	83.- 86.	4286.	1977-	56.01	07/26/77	65.54	04/11/83	64.98	05/01/84
12.	287.- 395.	4322.	1977-	90.12	04/11/78	96.06	12/20/79	92.87	05/01/84
12.	12.-	4324.	1970-	73.98	08/05/70	87.01	10/16/80	85.50	05/01/84
2.	52.- 82.	4271.	1977-	33.42	09/22/77	40.10	04/11/83	39.78	05/01/84
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	57.10	05/01/84
2.		4277.	1977-	48.51	04/11/78	53.86	05/01/84	53.86	05/01/84
17.	137.- 265.	4286.	1970-	34.84	08/05/70	46.36	09/10/80	45.36	05/01/84
10.	175.- 255.	4279.	1980-	30.76	05/02/80	32.46	04/11/83	32.44	05/01/84
9.	180.- 220.	4286.	1970-	51.14	06/05/70	56.15	07/18/80	53.60	05/01/84
26.	231.- 380.	4845.	1977-	94.50	03/25/77	168.13	10/04/83	168.13	10/04/83
								153.07	12/07/83
								137.32	03/15/84
								136.29	03/30/84
16.	295.- 494.	4860.	1972-	94.00	07/08/72	164.53	09/07/82	158.03	10/04/83
								149.74	01/24/84
								155.09	01/30/84
								149.52	02/11/84
								151.92	02/13/84
								143.81	02/14/84
								143.56	02/15/84
								143.36	02/16/84
								143.32	02/17/84
								142.52	02/21/84
								141.44	02/28/84
								140.11	03/15/84
								140.22	03/30/84
								142.26	04/23/84
								146.74	06/18/84
8.	80.- 150.	4825.	1960-	50.00	01/19/60	107.80	01/05/84	107.46	10/06/83
								107.20	10/25/83
								107.38	12/07/83
								107.80	01/05/84
								106.45	02/01/84
								100.04	02/07/84
								101.73	03/15/84
								97.77	03/30/84
								97.02	04/23/84
								97.58	05/11/84
								97.49	06/11/84
								97.52	06/22/84
								98.53	07/13/84
								99.34	08/08/84
								100.05	08/28/84

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104	N15 E19 12DADD1	391035119471501	CITY OF CARSON	25	P		U	470.
104	N15 E20 04DBDC1	391126119441901	NEVADA-DWR	25	U		U	89.
104	N15 E20 04DBDC2	391126119441902	USGS	25	U		U	33.
104	N15 E20 05BBCA1	391155119460401	NEVADA-DWR	25	U		U	102.
104	N15 E20 05BBCA2	391155119460402	USGS	25	U		U	62.
104	N15 E20 07BBAB1	391110119470501	NEVADA-DWR	25	U		U	150.
104	N15 E20 07CBAA1	391044119470201	JAMES HARKENRIDER	25	H		U	105.
104	N15 E20 15BDBA1	391004119433301	NEVADA-DWR	25	U		U	105.
104	N15 E20 15BDBA2	391004119433302	USGS	25	U		U	20.
104	N15 E20 16BCAA1	391004119444901	NEVADA-DWR	25	U		U	105.
104	N15 E20 17BCCD1	390954119460401	NEVADA-DWR	25	U		U	102.
104	N15 E20 17CACD1	390940119454701	NEV BLDG & GRNDS DEPT	25	P		U	595.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	136.- 285.	4805.	1961-	33.09	08/05/64	92.97	09/15/81	87.30	12/08/83
								79.59	02/21/84
								78.03	03/22/84
								81.48	06/11/84
2.	68.- 88.	4682.	1975-	17.97	04/24/84	24.87	01/06/75	18.60	11/02/83
								17.97	04/24/84
								18.23	07/17/84
2.	30.- 32.	4682.	1977-	17.92	04/24/84	30.01	07/25/77	18.44	11/02/83
								17.92	04/24/84
								18.17	07/17/84
2.	82.- 102.	4737.	1975-	12.38	02/12/75	51.37	06/24/81	38.80	11/02/83
								36.90	04/24/84
								46.39	07/17/84
2.		4737.	1977-	24.97	02/17/78	42.23	09/16/81	33.80	11/02/83
								31.46	04/24/84
								38.34	07/17/84
2.		4800.	1975-	44.74	04/21/75	61.43	08/08/84	60.95	10/04/83
								61.02	10/25/83
								61.01	11/02/83
								61.08	12/07/83
								61.12	01/05/84
								61.13	02/01/84
								61.15	02/15/84
								60.74	02/17/84
								61.19	03/15/84
								61.25	04/23/84
								61.24	04/24/84
								61.28	05/11/84
								61.30	06/11/84
								61.33	06/22/84
								61.37	07/13/84
								61.34	07/17/84
								61.43	08/08/84
								61.39	08/28/84
8.	85.- 105.	4802.	1972-	58.68	12/27/76	88.05	07/29/82	83.96	10/06/83
								83.63	10/25/83
								83.32	12/07/83
								82.64	01/05/84
								82.77	02/01/84
								80.14	02/17/84
								78.38	03/15/84
								77.49	03/30/84
								76.78	04/23/84
								76.45	05/11/84
								76.10	06/11/84
								75.98	06/22/84
								76.27	07/13/84
								76.88	08/08/84
								77.22	08/28/84
2.	85.- 105.	4620.	1975-	6.76	03/23/83	13.99	05/16/75	7.42	11/02/83
								6.84	04/24/84
								7.35	07/17/84
2.	18.- 20.	4620.	1977-	5.71	04/24/84	10.78	07/25/77	6.44	11/02/83
								5.71	04/24/84
								6.23	07/17/84
2.	82.- 102.	4641.	1975-	0.76	03/23/83	12.20	07/24/79	3.78	11/02/83
								5.74	04/24/84
								7.84	07/17/84
2.	82.- 102.	4680.	1961-	16.90	04/11/83	27.45	07/24/79	19.01	11/02/83
								19.76	04/23/84
								20.89	07/17/84
18.		4662.	1946-	1.84	03/13/52	23.80	09/17/64	12.50	04/25/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 18BDDA1	390958119464301	NEVADA-DWR	25	U		U	102.
104 N15 E20 20CCBB1	391235119521501	PHILIP HARPER	25	I	110VLFL	W	38.
104 N15 E20 29DAAB1	390807119450901	NEVADA-DWR	25	U		U	105.
104 N15 E20 32BDAA1	390728119453801	NEVADA-DWR	25	U		U	105.
104 N16 E20 33CCDD1	391205119444901	NEVADA-DWR	25	U		U	118.
105 N11 E20 06ABB 1	385051119464101	USGS	5	U	110VLFL	U	16.
105 N12 E19 01BDCD	385557119475701	USGS MOTTS-W	5	U		U	19.
105 N12 E19 02BBD	385559119485701	JOHN C FEIL	5	S		U	262.
105 N12 E19 02CBAA	385556119491501	USGS MOTTS-B	5	U		U	22.
105 N12 E19 11CDCC	385439119490901	BLANKENSHIP	5	S		U	
105 N12 E19 13BAAB	385436119475501	SARMAN	5	H		U	222.
105 N12 E19 23CDBB	385304119460601	USGS SCOSSA	5			U	27.
105 N12 E19 36ADDA	385138119471801	&CATTLE CO LEWALLEN LAN	5	U		U	198.
105 N12 E20 04BAA 2	385620119453101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06ABC 1	385612119464101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06BADD1	385612119464401	ROLPH III	5	I		U	430.
105 N12 E20 07DBC 1	385452119464101	USGS	5	U	110VLFL	U	15.
105 N12 E20 09BCAD	385512119444801	JOHN H WHITE	5	I		U	450.
105 N12 E20 10AAAB	385528119425801	STODDARD JACOBSEN	5	U		U	355.
105 N12 E20 14AABA	385437119415201	NO. 5 USFISH HATCH	5	N		U	800.
105 N12 E20 14BAC 1	385430119422401	USGS	5	U	110VLFL	U	21.
105 N12 E20 17BA 1	385430119455001	JOHN HELWINKEL	5	I		U	365.
105 N12 E20 19ABBB	385343119464101	USGS VERDE W	5	U		U	17.
105 N12 E20 21BCBC	385327119445801	TUSH	5	U		U	81.
105 N12 E20 23DACA	385311119415301	NO. 2 US FISH HATC	5	N		U	500.
105 N12 E20 24DABC	385314119404901	JOHN PASAK	5	I		U	220.
105 N13 E19 09DDAB	390016119504101	GENOA PARK	5	P		U	386.
105 N13 E19 11CCDD1	385951119491801	USGS GENOA R	5			U	18.
105 N13 E19 11CCDD2	385951119492001	USGS GENOA R	5			U	18.
105 N13 E19 12BBAD	390037119480701	RANCHES SETTLEMEYER	5	S		U	400.
105 N13 E19 22CAAA	385815119500301	USGSMULL-BRO	5	U		U	16.
105 N13 E19 22CC 1	385813119502601	ALEXANDER	5	I	110VLFL	U	172.
105 N13 E19 23DAA 1	385816119482401	USGS	5	U	110VLFL	U	21.
105 N13 E19 24CADD	385821119475001	DANGBERG-MUL	5	S		U	401.
105 N13 E19 33DADD	385637119503701	ALLERMAN	5	U		U	80.
105 N13 E20 03BCBB	390122119424701	HECKMAN	5	U		U	108.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	82.- 102.	4739.	1975-	2.34	01/06/75	18.96	09/17/81	15.47	11/02/83
								13.89	04/24/84
								14.06	07/17/84
48.		4685.	1962-	20.53	03/29/71	28.63	03/24/82	21.60	04/25/84
2.	80.- 100.	4698.	1975-	27.70	03/12/75	50.49	07/16/80	38.02	11/02/83
								39.71	04/24/84
								48.85	07/17/84
2.	82.- 102.	4720.	1975-	32.03	02/12/75	45.11	09/07/82	35.99	11/02/83
								37.02	04/24/84
								41.10	07/17/84
2.	94.- 118.	4732.	1975-	44.22	04/11/83	49.24	09/17/81	45.80	11/02/83
								44.80	04/24/84
								45.18	07/17/84
2.	13.- 16.	4845.	1977-	0.58	05/06/78	6.01	09/28/77	1.89	10/12/83
1.		4700.	1982-	4.72	07/20/82	6.66	03/18/82	5.42	10/12/83
3.		4696.	1981-	-13.85	12/21/83	-5.17	07/23/81	-11.55	11/01/83
								-13.85	12/21/83
								-11.67	02/16/84
1.		4705.	1982-	5.68	10/12/83	14.20	03/09/82	5.68	10/12/83
4.		4714.	1981-	-19.50	03/30/83	-12.58	09/18/81	-18.25	11/01/83
3.		4711.	1981-	-8.33	07/20/82	-2.83	09/18/81	-6.93	11/01/83
1.		4795.	1982-	0.0	05/19/83	5.46	02/14/82	1.68	10/12/83
12.		4794.	1981-	0.56	08/16/83	4.91	09/18/81	1.14	10/21/83
2.	11.- 21.	4759.	1977-	4.33	06/06/78	9.07	03/28/79	5.56	10/11/83
2.	18.- 21.	4716.	1977-	1.95	06/10/80	6.21	10/11/77	3.43	10/12/83
16.		4716.	1981-	1.70	02/24/83	8.95	08/18/81	2.43	10/12/83
								4.50	12/21/83
2.	13.- 15.	4718.	1977-	1.33	03/28/79	3.52	10/11/77	1.70	10/12/83
16.		4769.	1981-	12.45	06/18/81	22.43	04/20/82	14.14	10/11/83
16.		4821.	1981-	23.76	10/11/83	34.63	08/17/81	23.76	10/11/83
16.		4883.	1981-	44.20	09/22/82	54.20	05/19/83	46.29	10/11/83
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	4.19	10/11/83
18.		4775.	1955-	9.26	07/11/67	26.81	09/18/81	12.94	10/11/83
1.		4735.	1982-	1.66	05/19/83	5.65	02/09/82	2.67	10/12/83
8.		4820.	1981-	29.35	09/22/82	63.92	04/20/82	36.54	10/12/83
16.		4891.	1981-	16.92	08/16/83	22.54	08/17/81	18.49	10/11/83
8.		4977.	1980-	94.47	05/19/83	104.02	07/22/81	97.90	10/11/83
13.		4776.	1981-	19.51	05/19/83	51.95	10/21/81	29.50	10/12/83
1.		4673.	1982-	2.53	02/16/82	7.87	08/18/82	7.37	10/12/83
1.		4673.	1982-	1.46	02/16/82	8.55	08/18/82	8.12	10/12/83
4.		4667.	1981-	-18.27	04/23/81	8.69	08/18/81	-15.48	11/01/83
1.		4677.	1982-	3.30	02/19/82	5.35	02/05/82	5.13	10/12/83
12.	69.- 169.	4760.	1977-	54.23	06/22/82	71.74	10/21/81	54.61	10/12/83
2.	18.- 21.	4681.	1977-	0.79	06/22/82	5.03	09/20/81	2.59	10/12/83
3.		4685.	1981-	-15.35	06/23/82	-3.77	09/20/81	-13.53	11/01/83
								-14.34	12/20/83
8.		4755.	1981-	16.96	05/19/83	27.39	09/20/81	19.87	10/12/83
6.		4756.	1981-	31.87	03/21/81	32.57	08/17/82	32.11	10/11/83

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N13 E20 08ACBC	390024119453501	USGS HEYBURN	5			U	21.
105 N13 E20 18BAB 1	385948119464401	USGS	5	U	110VLFL	U	21.
105 N13 E20 19AAAB	385859119461501	DANGBERG TRO	5	S		U	318.
105 N13 E20 19ACC 1	385834119464101	USGS	5	U	110VLFL	U	11.
105 N13 E20 22CADD1	385821119432401	DANGBERG SEC	5	I		U	
105 N13 E20 29AABB1	385807119451401	DANGBERG SEC	5	I		U	
105 N13 E20 30DBB 1	385730119464101	USGS	5	U	110VLFL	U	21.
105 N13 E20 32CAA 1	385630119452001	MACK LAND & CATTLE CO	5	I	110VLFL	U	420.
105 N13 E20 34ACBC1	385655119432101	DANGBERG SEC	5	I		U	
105 N14 E19 11CADC	390519119490201	LAVERNE ROSSE	5	H		U	250.
105 N14 E19 12ADAB	390542119472001	RUSSIE PLUME	5	H		U	151.
105 N14 E19 26ABBC	390315119485001	HARVEY GROSS SEC 26	5	I		U	
105 N14 E19 35CBBC	390156119492301	GROSS SEC 35	5	S		U	300.
105 N14 E20 07CBAD	390525119465901	DOUGLAS CO.	5	U		U	246.
105 N14 E20 19ABB 1	390410119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 28CBAB	390254119445101	PAUL UNRUH NORTH	5	U		U	420.
105 N14 E20 30DCB 1	390205119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 32DCC 1	390137119453601	USGS	5	U	110VLFL	U	21.
105 N14 E20 33BCDA	390208119444601	PAUL UNRUH TURF	5	U		U	220.
105 N14 E20 35CBBB	390202119424701	PAUL UNRUH EAST	5	U		U	280.
105 N21 E20 13DDBB	385413119405001	TROELS UDSEN	5	H		U	250.
107 N10 E24 04CD 1	384500119182001	WALTER STRAUB	19	U	110VLFL	U	250.
107 N11 E23 03DC 1	385030119232001	V BRYAN	19	I	110VLFL	U	242.
107 N11 E24 32CBAD1	384619119192301		19	U		U	140.
107 N11 E24 32DC 1	384610119190001	A NUTTI	19	I	110VLFL	U	390.
107 N12 E23 24CB 1	385314119205901	THREE DBL BAR RANCH	19	U	110VLFL	U	287.
108 N11 E25 01ABDD1	385102119075301	HAVSIS RANCH	19	I		U	400.
108 N11 E25 10DBCD1	384942119100801	LOUIS G SCAETENA	19	I		U	597.
108 N11 E25 11AACC1	385003119085201	STENERI	19	I		U	256.
108 N12 E25 27DAA 1	385225119094801	CHARLES HOWARD	19	I		U	
108 N13 E25 01DBDD1	390100119075201	BILL BARTELS	19	I		U	505.
108 N13 E25 10CDB 1	390004119103001	W J LAGOMARSINO	19	I		U	328.
108 N13 E25 11ACBD2	390026119090401	WALKER R. IRRIG DIST	19	I		U	435.
108 N13 E25 13CCCD1	385904119083001	LUIGI LOMMORI	19	I		U	306.
108 N13 E25 13DDDD1	385903119073001	JOHN CONNELY	19	I		U	280.
108 N13 E25 23DDDC1	385809119084401	WILBUR SEYDEN	19	I		U	308.
108 N13 E25 25CDDA1	385722119080701	GEORGI BROS.	19	S		U	45.
108 N13 E25 26DDCC1	385720119085001	FRAZIER	19	I		U	160.
108 N13 E26 02BBCC1	390127119030001	CARROL HASKINS	19	I		U	203.
108 N13 E26 06DBDC1	390059119064301	LANDOLT	16	I		U	241.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
1.		4692.	1982-	2.83	02/24/83	18.75	03/23/82	3.54	10/11/83
2.	11.- 21.	4682.	1977-	1.58	05/19/83	4.43	09/29/77	3.12	10/12/83
3.		4696.	1981-	-6.10	06/22/82	16.33	08/18/81	-5.43	11/01/83
2.	2.- 11.	4694.	1977-	1.03	05/07/80	5.61	09/29/77	2.77	10/11/83
12.		4799.	1981-	16.00	09/22/82	23.46	04/20/82	18.21	10/11/83
12.		4723.	1981-	0.37	07/20/82	3.86	08/17/81	1.01	10/11/83
2.	19.- 21.	4702.	1977-	1.88	09/28/77	8.45	10/20/81	5.97	10/11/83
18.		4733.	1951-	7.22	07/11/67	16.39	07/22/81	9.08	10/11/83
		4791.	1981-	3.80	07/12/83	12.57	03/19/82	5.07	10/11/83
8.		5167.	1981-	79.87	10/13/83	95.82	09/20/81	79.87	10/13/83
6.		4909.	1981-	34.58	02/24/83	67.63	08/18/82	42.87	10/13/83
8.		4776.	1981-	19.23	02/24/83	24.56	08/18/82	19.69	10/13/83
3.		4659.	1981-	-10.58	05/03/83	-2.33	05/20/82	-9.47	11/01/83
6.		4835.	1981-	91.79	05/01/81	111.25	08/17/82	103.52	10/11/83
2.	11.- 21.	4648.	1977-	4.64	05/19/83	9.46	11/13/77	5.86	10/11/83
16.		4680.	1981-	10.97	02/24/83	15.13	09/18/81	11.60	10/11/83
2.	11.- 21.	4654.	1977-	2.26	03/06/80	6.43	10/11/77	4.40	10/11/83
2.	11.- 21.	4679.	1977-	2.59	06/21/82	9.54	10/02/77	3.30	10/11/83
13.		4683.	1981-	-0.93	05/19/83	3.52	09/18/81	0.20	10/11/83
8.		4836.	1981-	101.61	03/20/81	109.81	10/19/81	102.46	10/11/83
6.		5005.	1980-	144.46	03/19/81	146.59	06/21/82	146.53	10/11/83
14.		4900.	1948-	60.86	11/30/48	100.64	04/07/78	74.60	03/23/84
12.		4830.	1951-	45.21	06/17/57	76.16	04/07/78	63.64	03/24/84
3.		4855.	1980-	18.74	03/23/84	29.18	03/24/82	18.74	03/23/84
16.		4865.	1948-	23.62	03/03/48	89.21	06/22/61	36.36	03/23/84
16.		4745.	1972-	4.50	06/23/72	8.35	04/07/78	8.00	03/23/84
16.	156.- 382.	4538.	1960-	48.36	10/14/80	57.79	04/03/84	57.79	04/03/84
16.	183.- 575.	4568.	1961-	68.87	10/26/65	75.49	12/28/81	72.68	04/03/84
12.	106.- 256.	4562.	1948-	20.97	04/03/84	77.71	04/15/65	20.97	04/03/84
		4458.	1977-	11.74	10/14/80	23.30	08/16/77	13.15	04/03/84
16.	20.- 505.	4364.	1977-	6.26	03/10/80	11.14	03/24/82	8.92	04/03/84
14.	94.- 328.	4375.	1960-	6.23	04/03/84	35.00	07/08/60	6.23	04/03/84
18.	120.- 432.	4371.	1972-	7.08	01/20/83	8.00	05/14/72	7.63	04/03/84
16.	103.- 306.	4380.	1961-	1.54	10/14/80	14.00	05/27/61	4.91	04/03/84
16.	115.- 280.	4370.	1977-	5.37	03/24/81	17.00	11/15/77	6.42	04/03/84
14.	100.- 308.	4394.	1963-	5.62	10/28/65	9.09	12/29/81	7.64	04/03/84
6.		4425.	1965-	14.68	11/01/65	20.03	12/29/81	16.27	04/03/84
14.	102.-	4405.	1981-	6.85	01/20/83	9.33	11/19/81	7.13	04/03/84
12.	64.- 203.	4408.	1961-	65.00	11/04/61	74.56	04/03/84	74.56	04/03/84
14.	95.- 241.	4358.	1961-	5.35	01/19/83	8.00	05/18/61	5.47	04/03/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
108 N13 E26 08CACA1	390011119060201	BARBARA DILLARD	19	I		U	130.
108 N13 E26 09DBCC1	390006119043901	H H THURSTON	19	I		U	166.
108 N14 E25 03DDDC2	390558119094702	VINCE DYE	19	I		U	604.
108 N14 E25 04DACC1	390611119110301	LARRY MASINI	19	I		U	451.
108 N14 E25 08ADDC1	390531119115901	JIM CHICO	19	I		U	523.
108 N14 E25 08DCCC1	390507119122801	LARRY MASINI	19	I		U	348.
108 N14 E25 10CCDA1	390509119103401	LARRY MASINI	19	I		U	460.
108 N14 E25 11BDAC1	390538119091301	HERB PENROSE	19	S		U	60.
108 N14 E25 17BBBB1	390501119130001	LARRY MASINI	19			U	
108 N14 E25 18DCCA1	390415119132801		19	U		U	73.
108 N14 E25 29DCBC1	390233119122401	C J SIMMONS	19	H		U	150.
108 N14 E25 34CB 1	390154119104001	ANTONE FARIAS	19	I		U	358.
108 N14 E26 03DCBC1	390606119032901	GENE BINGHAM	19	I		U	160.
108 N14 E26 03DCDD1	390601119031701	GENE BINGHAM	19	I		U	160.
108 N14 E26 23CACA1	390341119023701	JOE THOMAS	19	H		U	90.
108 N14 E26 26CCDD1	390231119024501	LORIMER G HENRY	19	I		U	250.
108 N14 E26 26DBAA1	390255119021101	GLENN	19	I		U	157.
108 N14 E26 31DCCC1	390137119065401	JOHN RITTER	19	I		U	239.
108 N14 E26 31DCCC2	390137119065402	JOHN RITTER	19	I		U	400.
108 N14 E26 32ADCA1	390204119052801	LANDOLT	19	I		U	308.
108 N14 E26 32BCCC1	390201119062001	O D GABLE	19	I		U	120.
108 N14 E26 32BCCC2	390201119062002	O D GABLE	19	I		U	249.
108 N14 E26 32BDDD1	390203119055101	JOSEPH MANHA	19	S		U	104.
108 N15 E25 33BCBB1	390727119115301	ALFRED PALMER	19	I		U	428.
108 N15 E25 34ACDD1	390715119095901	LARRY MASINI	19	I		U	370.
110C N06 E31 33BAB 1	382031118315901	SWEETWATER RANCH CO	21	U		U	86.
110C N06 E31 33BAB 2	382033118315501	SWEETWATER RANCH CO	21	U		U	126.
110C N08 E30 03DA 1	383440118365001	U S ARMY AMTN PLANT	21	N	110VLFL	U	850.
110C N08 E30 04AAA 1	383525118375101	USGS	21	U	110VLFL	U	62.
110C N08 E30 18AAD 1	383310118401001	U S ARMY AMTN PLANT	21	N	110VLFL	U	345.
110C N08 E30 21DDB 1	383150118380001	U S ARMY AMTN PLANT	21	N	110VLFL	U	394.
110C N08 E30 26DDA 1	383100118355001	U S ARMY AMTN PLANT	21	N	110VLFL	U	423.
110C N08 E31 29CDC 1	383100118330001	U S ARMY AMTN PLANT	21	N	110VLFL	U	452.
110C N09 E30 29DDD 1	383624118385801	USGS	21	U	110VLFL	W	18.
110C N09 E30 33CAA 1	383550118382201	USGS	21	U	110VLFL	W	41.
121A N06 E35 05CBD 1	382415118063801		21	U	110VLFL	U	106.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
131 N30 E42 24CCAD1	402710117124001	USBLM	15	S	110VLFL	U	54.
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RANCH	15	H	110VLFL	W	185.
154 N18 E55 31CACC1	392300115493001	FERA	33	S	110VLFL	U	43.
154 N19 E56 30D 2	392850115421002	DON ELDRIDGE	33	S	110VLFL	U	37.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
13.	50.- 120.	4350.	1973-	8.00	03/01/73	15.00	11/29/77	11.69	04/03/84
12.	60.- 160.	4380.	1956-	43.00	12/01/73	51.39	12/30/81	47.75	04/03/84
16.	240.- 604.	4320.	1981-	6.96	01/20/83	24.80	07/17/81	7.00	04/02/84
16.	97.- 451.	4320.	1981-	4.98	02/01/83	5.77	03/23/81	5.57	02/04/84
16.	89.- 523.	4320.	1981-	6.48	04/02/84	9.54	11/16/81	6.48	04/02/84
16.	107.- 348.	4410.	1976-	6.90	02/16/84	20.00	08/18/76	6.90 6.95	02/16/84 04/02/84
16.	448.- 460.	4332.	1974-	9.10	02/16/84	12.00	04/10/74	9.10 11.65	02/16/84 04/07/84
6.		4330.	1965-	6.02	10/27/65	11.20	12/23/81	7.47	04/02/84
		4323.	1983-	6.48	04/02/84	7.23	02/01/83	6.48	04/02/84
10.		4345.	1965-	19.70	10/27/65	26.61	12/23/81	21.86	04/02/84
10.	110.- 150.	4390.	1960-	45.00	12/06/60	52.22	04/07/65	48.22	04/02/84
16.	103.- 358.	4360.	1961-	10.00	03/30/61	18.29	01/20/83	14.82	04/02/84
12.	87.- 123.	4330.	1959-	1.80	04/02/84	37.80	11/29/77	1.80	04/02/84
12.	87.- 123.	4333.	1983-	4.83	04/02/84	5.38	01/19/83	4.83	04/02/84
7.	70.- 90.	4340.	1983-	8.62	04/02/84	8.94	01/19/83	8.62	04/02/84
12.	100.- 250.	4415.	1964-	64.00	06/11/64	86.57	04/02/84	86.57	04/02/84
12.	80.- 157.	4400.	1980-	78.83	02/16/84	84.75	04/02/84	78.83 84.75	02/16/84 04/02/84
16.	87.- 239.	4349.	1977-	6.52	10/15/80	11.20	11/29/77	6.79	04/03/84
16.	120.- 400.	4342.	1981-	7.44	01/23/83	17.00	10/13/81	7.68	04/03/84
14.	100.- 308.	4350.	1961-	5.07	10/28/65	9.98	12/29/81	8.22	04/03/84
12.	40.- 120.	4345.	1960-	4.00	07/03/60	13.25	11/29/77	5.62	04/03/84
14.	47.- 247.	4345.	1977-	5.31	01/19/83	21.00	08/01/77	5.64	04/03/84
6.	94.- 103.	4350.	1949-	4.00	07/16/49	8.99	11/19/81	7.19	04/03/84
16.	114.- 428.	4304.	1981-	1.38	04/02/84	5.32	11/16/81	1.38	04/02/84
16.	123.- 370.	4310.	1976-	1.71	04/02/84	10.40	11/29/77	1.71	04/02/84
6.		5566.	1976-	40.38	06/30/76	57.04	04/26/84	57.04	04/26/84
10.	32.- 132.	5566.	1966-	36.43	02/15/66	56.63	04/26/84	56.63	04/26/84
18.	441.- 696.	4125.	1954-	40.28	05/12/82	117.86	09/27/65	44.83	04/26/84
2.	60.- 62.	4056.	1968-	31.69	03/13/68	35.60	04/28/83	35.52	04/26/84
18.	328.- 345.	4140.	1952-	95.10	11/21/52	109.10	04/28/83	107.20	04/26/84
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	212.60	04/26/84
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	258.64	04/26/84
18.	264.- 436.	4372.	1952-	242.60	11/21/52	257.29	04/13/70	254.60	04/26/84
2.	16.- 18.	4010.	1968-	8.54	04/23/73	9.94	04/26/84	9.94	04/26/84
2.	39.- 41.	4039.	1968-	18.75	03/18/68	22.10	04/28/83	22.00	04/26/84
6.		4545.	1968-	95.47	04/13/71	101.00	03/18/83	95.05	04/19/84
16.		4240.	1963-	12.87	04/06/83	21.57	03/21/65	16.38	04/23/84
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	10.63	04/17/84
48.		6000.	1968-	21.74	06/20/84	36.92	03/19/68	21.74	06/20/84
36.		5930.	1946-	33.19	09/15/54	37.27	03/19/80	37.15	06/11/84
42.		5900.	1947-	22.11	04/20/71	36.59	03/24/77	33.30	08/07/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
162 S19 E53 33DAA 1	361523116005101	R S HARMER	23	U	110VLFL	A	775.
162 S20 E52 23BBA 1	361204116060301	W M TURNER	23	U	110VLFL	A	500.
162 S20 E53 06CDA 1	361405116033201	ROOKRIDGE &CARRADO	23	U	110VLFL	U	200.
162 S20 E53 14DCB 1	361225115590301	WILLIAMS&CRE	23	H	110VLFL	A	254.
162 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.
170 S03 E55 05BDD 1	374256115485501		17	S	110VLFL	W	
173B N11 E57 09CD 1	384920115343001	U S BLM	23	S	110VLFL	U	354.
178B N22 E60 26AAB 1	394507115102501	PARIS	33	S	110VLFL	U	130.
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	33	I	110VLFL	U	200.
189B N43 E66 25D 1	413444114261701	ECCLES RANCH	7	U	110VLFL	W	28.
189D N40 E69 13D 1	412100114060001	GAMBLE RANCH	7	S	110VLFL	U	
203 S01 E68 33B 1	374910114231001	LAVON PHILLIPS	17	I	110VLFL	U	120.
203 S02 E68 08B 5	374750114242001	USGS	17	U	110VLFL	U	110.
203 S03 E67 02A 1	374317114265801	GRANT LEE	17	I	110VLFL	U	225.
205 S04 E67 18B 1	373627114315301	EMORY CONAWAY	17	I	110VLFL	U	165.
205 S09 E67 14BDBA2	371012114280302		17	I		U	55.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.
207 N11 E61 35A 1	384640115045001	PUBLIC DOMAIN	33	S	110VLFL	U	44.
207 N12 E62 18D 1	385400115024001	USGS	33	U	110VLFL	U	108.
209 S04 E60 02A 2	373806115125102	NEIL STEWART	17	U	110VLFL	U	255.
209 S06 E61 18DC 2	372500115104002	KENT WHIPPLE	17	U	110VLFL	W	41.
209 S08 E61 02C 1	371640115072001	LAMB	17	I	110VLFL	U	92.
212 S19 E60 27BDC 1	361611115151301	USGS	3	U	110VLFL	U	905.
212 S19 E60 36CBB 1	361453115130301	SNMRE	3	P		U	330.
212 S19 E61 31ADCD1	361514115112901	WILLIAM STYRES	3	H		U	300.
212 S19 E61 31ADDC1	361515115112301	BILL KNECHT	3	U		U	100.
212 S19 E62 35DCDC1	361451115004401	LK MEAD B	3	P		U	838.
212 S20 E60 01DADD1	361340115123201	KIETH FULLERTON	3	U		U	93.
212 S20 E60 09DCC 1	361259115153901	LAWRENCE MONTELLO	3	U		U	450.
212 S20 E60 13DCCD1	361201115123701	MIKE TOMASELLI	3	H		U	157.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.		2607.	1947-	-56.65	06/17/48	46.58	03/19/82	45.74	03/26/84
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58	46.45	03/26/84
14.	30.- 168.	2556.	1952-	15.43	02/02/59	29.94	03/06/81	29.69	03/26/84
8.		2679.	1945-	-23.20	03/06/45	90.61	02/27/75	79.20	03/26/84
10.		2684.	1947-	32.20	05/28/53	47.41	03/06/79	46.35	03/26/84
8.		5080.	1968-	18.73	01/18/77	22.82	03/15/80	22.15	03/13/84
6.		5072.	1948-	165.81	06/07/84	177.61	09/16/49	165.81	06/07/84
6.		6160.	1950-	59.85	04/21/69	66.18	08/07/84	66.18	08/07/84
16.		6500.	1951-	30.25	06/12/84	41.83	03/10/61	30.25	06/12/84
60.		5250.	1950-	8.36	04/29/69	15.21	02/26/68	9.51	04/18/84
6.		4800.	1968-	5.69	03/13/74	17.28	03/19/81	6.13	04/18/84
10.	60.- 80.	4850.	1946-	30.32	04/25/46	41.63	03/11/81	38.15	03/13/84
8.		4720.	1949-	10.72	03/20/50	22.82	08/27/64	17.58	03/13/84
10.		4605.	1962-	20.74	02/24/62	24.10	03/11/81	23.05	03/13/84
14.		4360.	1963-	13.11	03/13/84	26.26	11/18/65	13.11	03/13/84
		2670.	1977-	26.40	03/15/80	33.00	01/21/77	25.04	03/13/84
48.		5400.	1965-	30.00	03/12/68	32.87	03/20/80	31.20	07/30/84
6.		5400.	1953-	3.20	03/ 5/76	13.66	10/13/62	11.85	07/30/84
6.		5600.	1962-	44.97	04/24/70	53.51	04/13/78	48.09	07/30/84
12.		4200.	1973-	88.60	03/23/73	190.72	03/13/84	190.72	03/13/84
6.		3550.	1960-	5.85	02/23/63	11.76	01/18/77	8.57	03/13/84
10.		3020.	1952-	14.82	04/13/83	28.06	02/24/76	22.93	03/13/84
6.		2360.	1946-	-46.90	06/03/46	87.99	09/12/84	76.40	10/25/83
								73.55	11/29/83
								75.94	12/13/83
								72.10	12/27/83
								77.31	02/23/84
								87.99	09/12/84
		2290.	1971-	117.97	09/12/84	186.32	12/13/83	186.32	12/13/83
								186.12	02/23/84
								117.97	09/12/84
9.	180.- 300.	2200.	1980-	123.74	02/24/81	134.07	12/13/83	134.07	12/13/83
								133.09	03/06/84
		2185.	1971-	72.91	02/22/71	96.14	03/08/83	92.23	03/06/84
14.	370.-	1867.	1972-	106.13	09/12/84	139.05	02/24/72	115.30	12/21/83
								111.58	03/15/84
								106.13	09/12/84
8.		2218.	1971-	68.02	03/05/71	86.54	03/04/74	74.83	12/13/83
								75.22	02/23/84
								75.79	06/27/84
								77.90	09/12/84
8.	360.-	2400.	1970-	330.00	07/22/70	449.00	09/12/84	443.48	02/23/84
								449.00	06/27/84
								449.00	09/12/84
8.		2224.	1971-	25.13	09/12/84	87.30	02/22/72	35.12	12/14/83
								36.64	02/23/84
								34.87	06/27/84
								25.13	09/12/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S20 E61 01ACCD1	361425115061901	USGS	3	U	110LSVG	U	84.
212 S20 E61 03DAD 2	361412115080801	NELLIS AFB	3	P	110VLFL	U	913.
212 S20 E61 06CBDD1	361346115115901	CITY NLV	3	P	110VLFL	U	1000.
212 S20 E61 11CDDC1	361305115073201	USGS	3	U	121MDCK	U	62.
212 S20 E61 13ABDB1	361232115061001	CITY NLV	3	P	110VLFL	U	1230.
212 S20 E61 14CCCC1	361212115065901	USGS	3	U		U	46.
212 S20 E61 17CDBB1	361222115105601	LVVWD	3	U	110VLFL	U	655.
212 S20 E61 18BCCD1	361237115121401	CITY NLV	3	P		U	500.
212 S20 E61 22DACD1	361120115080401	CITY NLV	3	P	110VLFL	U	1105.
212 S20 E61 27BDAA1	361102115083601	USGS	3	U	110VLFL	U	15.
212 S20 E61 30ACC 1	361053115120501	USGS	3	U		U	31.
212 S20 E61 31DCD 1	360937115113401	USGS	3	U		U	18.
212 S20 E61 32CDC 1	360941115104801	KENNETH SEARLES	3	H	110VLFL	A	665.
212 S20 E61 34CAA 1	360837115095501	USGS	3	U		U	22.
212 S20 E62 08BABA1	361337115042501	NEVADA DRIVE IN	3			U	200.
212 S20 E62 09CCC 1	361258115032101	NELLIS AFB	3	P		U	650.
212 S20 E62 29DCAB1	361036115040401		3	U	110VLFL	W	98.
212 S21 E60 12BABA1	360825115130301	DEAN&NICK DALACAS	3	U		U	165.
212 S21 E60 15BBDC1	360739115152701	WELLS CARGO	3	N	110VLFL	U	680.
212 S21 E60 35ADAB1	360444115132301	FRANK KIM	3		110VLFL	U	500.
212 S21 E61 01ACCC1	360908115062901	USGS	3	U		U	24.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	80.- 84.	1919.	1979-	60.94	05/01/81	65.12	06/25/84	62.33	12/13/83
								62.39	02/23/84
								65.12	06/25/84
								63.90	09/12/84
12.	150.- 900.	1973.	1974-	39.50	03/01/77	58.67	12/21/83	58.67	12/21/83
								54.09	03/15/84
14.	758.- 986.	2211.	1968-	69.00	07/01/68	224.47	03/13/84	224.08	12/13/83
								224.47	03/13/84
4.	58.- 62.	1920.	1979-	37.63	03/09/83	42.26	09/12/84	39.34	12/15/83
								38.27	02/23/84
								39.08	06/27/84
								42.26	09/12/84
30.	102.-1039.	1857.	1973-	48.04	03/13/84	82.64	09/12/84	51.34	12/21/83
								48.04	03/13/84
								69.74	06/28/84
								82.64	09/12/84
4.	43.- 46.	1910.	1981-	27.55	03/02/81	29.69	06/27/84	29.04	12/15/83
								28.24	02/23/84
								29.69	06/27/84
								29.48	09/12/84
8.	550.- 640.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	179.43	12/15/83
								179.27	02/23/84
10.	300.- 500.	2208.	1978-	213.07	02/28/78	231.08	03/06/84	231.08	03/06/84
30.	249.-1019.	1911.	1973-	17.35	02/22/80	45.30	07/22/83	24.17	03/13/84
4.	11.- 15.	2010.	1979-	9.35	04/25/81	12.08	12/15/83	12.08	12/15/83
								11.87	02/23/84
4.	27.- 31.	2000.	1981-	8.29	09/12/84	11.92	03/02/81	9.59	12/15/83
								10.85	02/23/84
								10.30	06/27/84
								8.29	09/12/84
4.	14.- 18.	2155.	1981-	9.21	09/13/84	13.21	03/02/81	9.94	12/15/83
								11.34	02/23/84
								9.26	06/27/84
								9.21	09/13/84
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	62.10	12/15/83
								64.23	02/22/84
								60.48	06/27/84
								66.88	09/13/84
4.	18.- 22.	2010.	1981-	6.30	03/03/82	8.77	07/20/83	6.75	12/15/83
								7.03	02/22/84
								8.30	06/27/84
								7.37	09/13/84
8.		1860.	1973-	76.52	09/13/84	84.48	03/05/74	81.83	12/21/83
								81.77	02/23/84
								77.93	06/25/84
								76.52	09/13/84
14.	290.- 630.	1827.	1973-	82.20	03/03/82	138.00	02/15/73	89.13	12/21/83
								87.54	03/15/84
8.		1766.	1971-	41.69	12/13/83	75.06	10/12/77	41.69	12/13/83
								41.82	02/22/84
								45.19	06/25/84
								40.80	09/11/84
8.		2270.	1973-	134.80	09/13/84	154.56	03/02/77	139.89	12/09/83
								141.36	02/22/84
								136.98	06/26/84
								134.80	09/13/84
10.	380.- 680.	2480.	1969-	363.41	03/13/84	372.00	08/23/69	363.41	03/13/84
8.	230.- 295.	2359.	1971-	257.88	03/04/71	338.23	09/13/84	319.39	02/21/84
								320.37	06/26/84
								338.23	09/13/84
4.	20.- 24.	1840.	1979-	7.02	02/26/80	8.00	11/04/82	7.97	12/19/83
								7.93	02/22/84
								7.82	06/27/84
								7.91	09/13/84

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S21 E61 03AAAD1	360924115081101	USGS	3	U	110VLFL	U	15.
212 S21 E61 04ABC 1	360921115093601	USGS	3	U		U	17.
212 S21 E61 14ACA 1	360728115072901		3	I		U	750.
212 S21 E61 16CA 3	360719115095903	SANDS HOTEL	3	P		U	840.
212 S21 E61 17BADD1	360735115105201	USGS	3	U	110LSVG	U	45.
212 S21 E61 19CBA 1	360614115114901	KENO	3		110VLFL	U	300.
212 S21 E61 22BBAD1	360649115090001	LVVWD	3	U	110VLFL	A	1200.
212 S21 E61 22CCC 1	360600115091001	A P BAKER	3	U	110VLFL	A	500.
212 S21 E61 24CAD 1	360617115063801	USGS	3	U		U	24.
212 S21 E61 28CABB1	360528115094201		3			U	93.
212 S21 E61 29AACA1	360543115101301	MORRIS WOLLMAN	3	U	110VLFL	A	540.
212 S21 E61 36ADC 3	360449115061201	USGS	3	U	110VLFL	U	26.
212 S21 E62 09ABBC1	360833115031901	USGS	3	U	110VLFL	U	37.
212 S21 E62 10ACAA1	360826115020001	NEVADA POWER CO	3	U	110VLFL	A	715.
212 S21 E62 17DAB 1	360744115050801	USGS	3	U		U	11.
212 S21 E62 20DDD 1	360601115034401	L BILLMAN	3			U	500.
212 S21 E62 28AAC 1	360548115024601	USGS	3	U		U	27.
212 S22 E60 16ADBB1	360216115154301	SALVADOR ORTIZ	3	H	110VLFL	U	610.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	11.- 15.	1990.	1979-	7.17	02/26/80	8.67	06/27/84	7.55	12/19/83
								7.42	02/22/84
								8.67	06/27/84
								7.36	09/13/84
4.	13.- 14.	2047.	1981-	8.78	09/13/84	9.54	03/02/81	9.06	12/15/83
								9.32	02/22/84
								9.14	06/27/84
								8.78	09/13/84
16.	500.- 746.	1930.	1961-	28.43	12/19/83	46.47	09/13/84	28.43	12/19/83
								33.77	02/21/84
								36.13	06/27/84
								46.47	09/13/84
13.	260.- 820.	2090.	1968-	95.46	03/03/82	120.97	06/27/84	119.64	03/13/84
								120.97	06/27/84
4.	41.- 45.	2120.	1979-	21.55	09/13/84	26.69	02/26/80	22.81	12/15/83
								24.41	02/21/84
								25.48	06/27/84
								21.55	09/13/84
9.	210.- 300.	2215.	1972-	180.00	03/01/72	229.54	07/21/83	215.59	02/21/84
								218.20	06/26/84
								217.38	09/13/84
16.	318.- 786.	2041.	1963-	48.53	03/10/78	127.03	09/30/80	70.83	12/14/83
								66.80	02/21/84
								119.19	06/26/84
								87.50	09/13/84
6.		2072.	1940-	-35.65	01/24/43	93.72	07/10/78	50.98	12/15/83
								41.68	02/21/84
								89.50	06/26/84
								76.29	09/13/84
4.	20.- 24.	1950.	1981-	11.18	09/13/84	14.30	03/02/81	12.52	12/15/83
								12.18	02/21/84
								12.57	06/27/84
								11.18	09/13/84
10.		2125.	1970-	34.00	02/01/70	40.06	03/11/74	37.81	12/15/83
								37.88	02/21/84
								39.32	06/26/84
								37.87	09/13/84
8.		2140.	1970-	62.36	02/12/73	116.95	07/12/78	85.42	12/14/83
								86.25	02/21/84
								106.02	06/26/84
								99.39	09/13/84
2.	23.- 26.	1948.	1977-	17.00	08/03/77	24.24	09/13/84	22.99	12/19/83
								21.54	02/21/84
								23.63	06/26/84
								24.24	09/13/84
2.	34.- 37.	1715.	1977-	11.56	02/22/84	17.00	08/03/77	12.87	12/13/83
								11.56	02/22/84
13.	50.- 80.	1705.	1972-	12.06	02/27/79	19.97	02/22/72	15.19	12/13/83
								14.49	02/22/84
								15.12	06/25/84
								13.15	09/11/84
4.	7.- 11.	1730.	1981-	3.80	06/25/81	9.70	09/11/84	8.56	06/25/84
								9.70	09/11/84
		1720.	1973-	-52.70	02/21/84	-42.00	07/14/77	-52.30	12/15/83
								-52.70	02/21/84
								-51.00	06/25/84
								-51.80	09/11/84
4.	23.- 27.	1665.	1981-	17.28	03/17/81	19.85	03/02/81	18.08	12/13/83
								18.32	02/22/84
								18.88	06/25/84
								16.76	09/11/84
9.	545.- 610.	2660.	1969-	520.00	06/14/69	561.67	02/21/84	560.44	12/19/83
								561.67	02/21/84

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212	S22 E60 20CACA1	360047115171401	MOFFAT & LILLIS	3	U	110VLFL	U	710.
212	S22 E61 01CCC 1	360328115065501	USGS	3	U		U	55.
212	S22 E61 04ACAD1	360400115092401		3			U	113.
212	S22 E61 10CCD 1	360235115090301	LEWIS J DEATCH	3	H		U	300.
212	S22 E62 04DCCC1	360322115030801	CITY OF HENDERSON	3			U	780.
212	S22 E63 20ABC 1	360122114574801	CITY OF HENDERSON	3	U	110VLFL	U	750.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.	610.- 710.	2810.	1963-	473.00	02/25/63	498.04	03/14/83	482.01	12/19/83
								480.79	02/21/84
								480.35	06/26/84
								474.43	09/13/84
4.	51.- 55.	2032.	1981-	46.69	06/25/81	51.70	11/09/82	48.80	12/19/83
								48.74	02/21/84
								49.64	06/26/84
								49.67	09/13/84
8.		2165.	1955-	40.00	07/01/55	104.17	12/14/83	104.17	12/14/83
								91.40	02/21/84
								91.97	06/26/84
								96.63	09/13/84
8.	168.- 300.	2165.	1970-	90.00	06/13/70	118.06	09/13/84	113.69	12/19/83
								117.32	02/21/84
								117.94	06/26/84
								118.06	09/13/84
8.	430.-	1798.	1973-	-5.50	02/26/78	2.50	02/23/73	-3.40	12/19/83
								-1.90	02/21/84
								-3.10	06/26/84
								-2.50	09/11/84
14.	460.- 630.	2030.	1971-	318.50	07/22/83	346.30	02/21/84	322.54	12/14/83
								346.30	02/21/84
								317.42	06/25/84
								317.02	09/11/84

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

STATION NUMBER	STATION NAME	DATE OF SAMPLE	COUNTY	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350726114375501	213 S32 E66 33BBB 1 CROMER WELL	83-10-04	003	111FLDP	96.00	511.00
350910114344001	213 S32 E66 24BBA 1 SUNDANCE SHORES WELL	83-10-04	003	110VLFL	480	727.00
350937114341501	213 S32 E66 13DBB 1 RIVERSIDE TRAILER COURT	83-10-04	003	111FLDP	89.00	521.00

STATION NUMBER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (STAND-ARD UNITS)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
350726114375501	83-10-04	1000	13.45	1150	7.9	410	110	34	110	2	2.9
350910114344001	83-10-04	1100	--	1500	7.9	330	97	22	200	5	3.6
350937114341501	83-10-04	1130	--	1150	7.9	390	110	29	130	3	3.8

STATION NUMBER	DATE OF SAMPLE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
350726114375501	83-10-04	193	330	100	18	820	<.100
350910114344001	83-10-04	129	260	280	27	970	1.30
350937114341501	83-10-04	172	310	120	16	820	<.100

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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