



Water Resources Data Nevada Water Year 1983



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-83-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1983

1982

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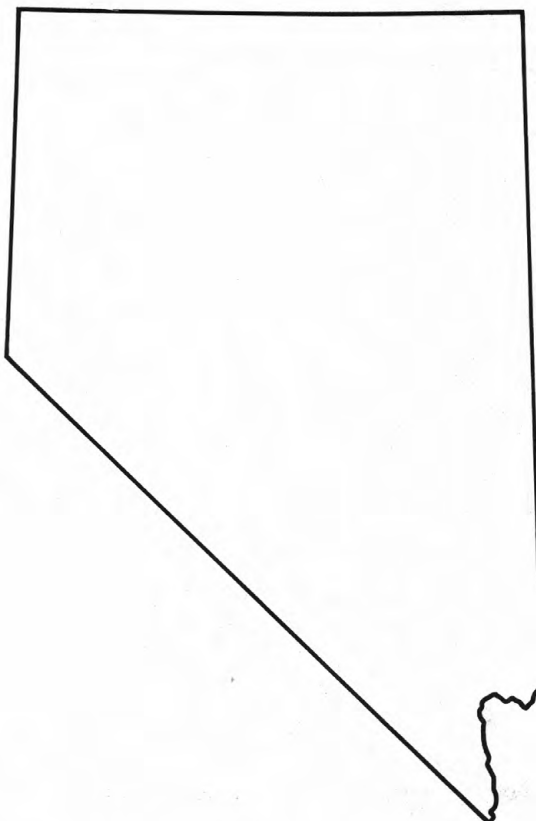
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Water Resources Data Nevada

Water Year 1983

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-83-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, 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

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: Denise M. Below, David L. Berger, Robert E. Bostic, Melvin G. Brewster, Sherwood B. Browning, Robin L. Bunch, Rodney L. Carson, Rosemary H. Cowen, Michael D. Dettinger, Kerry T. Garcia, Donald J. Hays, Ray J. Hoffman, Douglas K. Maurer, Otto Moosburner, David S. Morgan, Carol A. Myers, Larry J. Neff, William D. Nichols, Katherine G. Noe, Robert N. Pennington, Alex Pupacko, Valerie L. Schacher, Robert R. Squires, Thomas B. Tucker, A. S. Van Denburgh, and Richard J. Young.

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WATER RESOURCES DATA FOR NEVADA, 1983

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

INTRODUCTION

Water resources data published herein for the 1983 water year comprise the following records:

- Water discharge for 109 gaging stations on streams, canals, and drains.
- Discharge data for 35 peak-flow stations and 5 low-flow stations on streams.
- Stage and contents for 21 lakes and reservoirs.
- Water levels for 316 observation wells.
- Water-quality data for 85 stream, canal, and drain sites, 12 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.

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 "Quality 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-83-1." 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 1983 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, L. A. Werner, Director.
California Department of Water Resources, R. B. Robie, 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, Bureau of Reclamation, and Fish and Wildlife Service, U.S. Department of the Interior; Forest Service, U.S. Department of Agriculture; U.S. District Court Watermaster; U.S. Board of Water Commissioners; Desert Research Institute; 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; Truckee-Carson Irrigation District; Carson Water Sub-Conservancy District; Nevada Power Company; Sierra Pacific Power Company; and Nevada First Corporation.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS DURING 1983

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 larger 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

In 1983, Nevada experienced one of its most severe winters since the collection of climatic data began in the late 1800's. Many of the snow-pack measuring sites across the State set new records for depth and water content. The resulting runoff from this snow caused record peak discharges and cumulative-flow volumes at many gaging stations.

Temperatures for most of the winter and spring remained well below normal, with only a short warmer period in early March. Warm days and nights during this period, combined with rain on existing snow at altitudes below 6,000 feet, caused major flooding along the Humboldt River in northern Nevada and most small drainages in eastern Nevada. The peak discharge of the Humboldt River near Elko (station 10318500) was 7,100 ft³/s (cubic feet per second) on March 4, which was approximately equivalent to the estimated 50-year flood. For the entire year, the total discharge of the Humboldt River at Palisade (station 10322500) was 325 percent of the long-term normal.

In western Nevada, winter-like conditions, including heavy snowfall, continued through mid-May. Then, the weather changed dramatically, and daytime temperatures exceeded 80°F. Water saturated the steep slopes of the eastern Sierra Nevada, resulting in numerous land-slope failures. On May 29, a 400-foot segment of the major road from Lake Tahoe to Carson City and Reno slid to the bottom of a 250-foot ravine. This slide resulted in some minor damming but no major flooding on the already swollen Glenbrook Creek. One day later, at noon on Memorial Day, disaster struck again, this time between Carson City and Reno. A landslide on Slide Mountain initiated the Ophir Creek flood. A large block of mountain, 40 to 50 acres complete with standing timber, slid into Upper Price Lake and splashed the water out. Three miles downstream of its origin, the leading wall of the flood reached heights of 30 feet as it came upon manmade developments. It left one of four people overrun by the flow dead, one family trapped in the upper floor of their home, and as much as 9 feet of mud over old Highway 395.

The three rivers of far western Nevada--the Carson, Walker, and Truckee--also experienced higher-than-average flows during 1983. Characteristically, low flow is 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 1983, runoff in the river at Fort Churchill (station 10312000) was 296 percent of normal.

The Walker River is formed by the confluence of the East and West Forks in Mason Valley. 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 489 percent of its 58-year average during 1983. The river terminates in Walker Lake, a saline remnant of ancient Lake Lahontan north of Hawthorne. The water-surface altitude of Walker Lake (station 10288500) rose 11.7 feet, to 3,967.4 feet above sea level, during water year 1983; the net volume increase was about 430,000 acre-feet, and the total volume was about 2,900,000 acre-feet at year end.

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. At Reno (station 10304000), the mean daily discharge for water year 1983 was 2,350 ft³/s, compared to a 56-year mean of 698 ft³/s. Thus, the flow for 1983 was 322 percent of normal. The Truckee River feeds Pyramid Lake, a closed-basin water body. The water-surface altitude of Pyramid Lake (station 10336500) rose 13.6 feet, to 3,805.4 feet above sea level, during water year 1983; the net volume increase was about 1,500,000 acre-feet, and the total volume was about 22,300,000 acre-feet at year end.

In southeastern Nevada, the Colorado River forms the State boundary with Arizona. Flow is controlled by a sequence of impoundments that includes Hoover and Davis Dams in Nevada. Since 1935, the mean annual discharge of the Colorado River below Hoover Dam (station 09421500) has been 13,100 ft³/s; in contrast, the mean for water year 1983 was 20,400 ft³/s. In July of 1983, flow over the dam's spillway occurred for the first time since storage began in 1935, resulting in a peak daily-discharge rate of 50,800 ft³/s below the dam. Flooding on the lower Colorado River had not occurred during the previous 48 years because of the control of releases from the upstream dams. This had encouraged development close to the river edge--in some instances even inside the levees. This encroachment contributed significantly to the flood damage suffered in 1983.

Significant flash flooding occurred at many places in Nevada during the summer of 1983. On the afternoon of August 10, for example, an intense rainstorm in the headwaters of Flamingo Wash caused flash flooding in Las Vegas. Road crossings were damaged, parked cars were washed away, and sediments were deposited in the lower reaches of the wash. The flood was the largest measured since flood-discharge determinations began in 1969.

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 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. Acid drainage from the abandoned Leviathan Mine in California is still affecting water quality in the East Fork Carson River.

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 0.8 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 1981-83. This change reflects the dilution of saline ground-water inflow between the two gages by the increasing quantities of treated sewage effluent. By July 1981, a specialized chemical-treatment process for phosphorus removal had been completely implemented at the municipal wastewater treatment facilities that discharge to Las Vegas Wash. The effectiveness of the treatment is shown by the following summary:

Gage	Average total phosphorus, in milligrams per liter ¹	
	October 1979 through June 1981	July 1981 through September 1983
Henderson	3.4 (19)	0.58 (26)
Boulder City	2.6 (30)	.71 (26)

¹ Number of samples indicated in parentheses. During the 1983 water year, two samples were collected at the Boulder City gage during periods of high flow following intense rainstorms. The phosphorus values for these two samples (28 mg/L on March 3 and 69 mg/L on August 11) are not included in the average for July 1981-September 1983.

The data indicate reductions in the average phosphorus concentration of about 80 and 70 percent at the Henderson and Boulder City gages, respectively.

Sediment transport by streamflow varies greatly from place to place, seasonally and annually. Overall, the greatest sediment movement is probably caused by flash flooding--the type of runoff that often produces debris flows. Sediment transport associated with flash floods is difficult to measure and is rarely observed by hydrologists, except after the event. The few available data thus far collected verify the importance of this natural process to erosion and sediment transport. In fact, much of the valley fill throughout the State has been emplaced by flash flooding in the geologic past.

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.

Well-known areas of abnormal channel erosion include the terminal reaches of the Truckee and Walker Rivers. Declining levels of Pyramid and Walker Lakes throughout much of this century have lowered the rivers' base levels and caused extensive channel readjustments.

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 (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 at Northshore Road adjacent to 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). 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. 1979	18,200	176	217
Oct. 1979-Sept. 1980	69,600	350	620
Oct. 1980-Sept. 1981	1,980	92	830
Oct. 1981-Sept. 1982	6,070	151	790
Oct. 1982-Sept. 1983	113,000	344	2,060

The tabulation on the following page summarizes discharge and selected water-quality characteristics at 16 stream sites in and immediately adjacent to Nevada for the periods of record through water year 1983 (newly established maximums and minimums for the periods of record are indicated by italics and underlines).

High streamflows in Nevada, due to the melting and runoff of snowpacks, resulted in several new maximums and minimums (table on following page). For example, a new maximum water temperature and a minimum specific conductance were recorded for the Colorado River below Hoover Dam. These probably were the result of (1) the release of warm surface water from Lake Mead by way of the rarely used spillways at Hoover Dam and (2) dilution of the lake water by lower conductivity inflow.

Maximums and minimums determined for period of record^a at selected stream sites

Station name and number	Discharge (cubic feet per second)		Specific conduc- tance (micromhos)		Water temperature (degrees Celsius)		Fecal streptococci (colonies per 100 mL)		Suspended sediment (milligrams per liter)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Virgin R at Littlefield 09415000	35,200	38	4,650	<u>615</u>	33.5	2.0	46,000	110	247,000	40
Virgin R nr Riverside 09415230	16,000	0	5,260	<u>770</u>	36.5	3.5	41,000	100	12,000	166
Muddy R nr Overton 09419515	5,110	0.32	4,560	<u>900</u>	28.0	7.0	86,000	500	<u>8,180</u>	121
Las Vegas Wash nr Henderson 09419700	6,510	4.8	6,960	1,660	28.0	2.0	--	--	<u>b347</u>	<u>1</u>
Las Vegas Wash nr Boulder City 09419800	2,430	14	9,120	1,780	28.5	3.0	<u>22,000</u>	55	<u>113,000</u>	111
Colorado R blw Hoover Dam 09421500	<u>50,800</u>	152	1,230	<u>950</u>	<u>21.5</u>	9.0	45	<1	24	<1
Colorado R blw Davis Dam 09423000	<u>46,200</u>	205	1,290	900	<u>22.0</u>	8.0	--	--	--	--
Steptoe CK nr Ely 10244950	<u>75</u>	2.0	403	210	11.0	2.5	1,400	<1	<u>1,000</u>	3
S Twin R nr Round Mtn. 10249300	<u>510</u>	0.11	<u>160</u>	75	18.0	0.0	1,500	<2	1,970	<1
Walker R nr Wabuska 10301500	3,280	0	792	165	36.5	0.0	2,100	16	1,720	10
Carson R nr Fort Churchill 10312000	15,300	0	840	81	29.0	0.0	36,000	4	1,950	4
Humboldt R nr Carlin 10321000	<u>7,130</u>	0.1	677	193	29.0	0.0	<u>1,700</u>	9	862	17
Humboldt R nr Imlay 10333000	6,080	0	<u>988</u>	377	30.5	0.0	--	--	2,200	9
Humboldt R nr Rye Patch 10335000	4,420	0	4,010	384	29.5	0.0	2,400	<2	136	14
Truckee R nr Nixon 10351700	14,400	0.1	1,110	<u>74</u>	28.5	0.0	5,300	2	2,530	2
Quinn R nr McDermitt 10353500	1,580	0	895	253	31.0	0.0	<u>3,900</u>	9	476	2

^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).

^b Questionable value not verified by duplicate determination; second-highest value for period of record, 73 mg/L.

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. For the most part, however, the ground-water system in one basin is not directly related to the ground-water systems in adjacent 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 stress. Short-term changes in climatic conditions can lead to 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 such problems.

In May 1983, an intensive effort was made to measure ground-water levels in the valleys of Eastern Nevada outside the Colorado River Basin. The data indicate that, with the exception of Diamond Valley, water-levels have not changed significantly in the last 20 years. In Diamond Valley, water levels are declining as a result of heavy pumping for irrigation.

Elsewhere in Nevada, ground-water levels in Antelope Valley (Lander County), Middle Reese River Valley, and Quinn River Valley continued to decline as a result of irrigation pumpage. Water levels in Pahrump Valley, which is in transition between irrigation and municipal use, continued to decline at moderate rates. Ground-water levels in Las Vegas Valley and Lemmon Valley continued to decline as a result of municipal pumpage. In contrast, water levels in Paradise Valley recovered somewhat because of the wet year and the filling of Gumboot Lake.

A special round of water-level measurements in Mason Valley during January 1983 revealed that much of the decline there between 1965 and late 1981 was recovered, probably because of the wetter than normal conditions between late 1981 and early 1983. Water levels rose 1 to 3 feet throughout the valley during that period.

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

Discharge is the volume of water (or more broadly, 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.
Silt0040 - .062	Sedimentation.
Sand062 - 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.

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

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 *Hexagenia*
 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 indentation in the list of gaging stations. Each indentation represents one rank. This downstream order and system of indentation 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 NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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: 13/26-16abl. 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.

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 3-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.

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

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 for all reservoirs having daily 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 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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	1035
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1950
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2090
1949	1163	1959	1645	1969	2148
1950	1109	1960	1745	1970	2153

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 1983

Amargosa Desert, Nye Co.: "Sources and mechanisms of recharge for ground water in the west-central Amargosa Desert, Nevada--a geochemical interpretation," by H. C. Claassen; U.S. Geological Survey Open-File Report 83-542, 61 p.

Black Rock Desert, northwestern Nevada: "Bouguer gravity map of the western arm of the Black Rock Desert, northwestern Nevada," by D. H. Schaefer and D. K. Maurer; U.S. Geological Survey Geophysical Investigations Map GP-952.

Black Rock Desert, northwestern Nevada: "Geothermal resources of the western arm of the Black Rock Desert, northwestern Nevada--Part I, geology and geophysics," by D. H. Schaefer, A. H. Welch, and D. K. Maurer; U.S. Geological Survey Open-File Report 81-918, 37 p.

Carson Valley area, Douglas Co.: "Sediment transport model for the East Fork of the Carson River, Carson Valley, Nevada," by Terry Katzer; Proceedings of the Tenth International Symposium on Urban Hydrology, Hydraulics, and Sediment Control (Lexington, Ky., July 25-28, 1983), p. 421-435.

Dixie Valley, west-central Nevada: "Gravity survey of Dixie Valley, west-central Nevada," by D. H. Schaefer; U.S. Geological Survey Open-File Report 82-111, 17 p.

Grass Valley, Pershing Co.: "Hydrology of the hydrothermal system in southern Grass Valley, Pershing County, Nevada," by A. H. Welch, M. L. Sorey, and F. H. Olmsted; Ground Water, v. 21, no. 2, p. 222-223.

Great Basin region: "Aquifer systems in the Great Basin region of Nevada, Utah, and adjacent states--a study plan," by J. R. Harrill, A. H. Welch, D. E. Prudic, J. M. Thomas, R. L. Carman, R. W. Plume, J. S. Gates, and J. L. Mason; U.S. Geological Survey Open-File Report 82-445, 49 p.

Nevada (statewide): "Water-resources data for Nevada, water year 1982," by H. R. Frisbie, R. J. La Camera, M. M. Riek, and D. B. Wood; U.S. Geological Survey Water-Data Report NV-82-1, 360 p.

Nevada Test Site, southern Nevada: "Commercial geophysical well logs from the USW G-1 drill hole, Nevada Test Site, Nevada," by D. C. Muller and J. E. Kibler; U.S. Geological Survey Open-File Report 83-321, 7 p.

Nevada Test Site and vicinity, southern Nevada: "Geohydrologic and drill-hole data for test well USW H-1, adjacent to Nevada Test Site, Nye County, Nevada," by F. E. Rush, William Thordarson, and Laura Bruckheimer; U.S. Geological Survey Open-File Report 83-141, 38 p.

Nevada Test Site and vicinity, southern Nevada: "Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada," by W. G. Spaulding; U.S. Geological Survey Open-File Report 83-535, 199 p.

Nevada Test Site and vicinity, southern Nevada: "Two-dimensional, steady-state model of ground-water flow, Nevada Test Site and vicinity, Nevada-California," by R. K. Waddell; U.S. Geological Survey Water-Resources Investigations Report 82-4085, 72 p.

Yucca Flat, Nye Co.: "Water table in rocks of Cenozoic and Paleozoic age, 1980, Yucca Flat, Nevada Test Site, Nevada," by G. C. Doty and William Thordarson; U.S. Geological Survey Water-Resources Investigations Report 83-4067, map (1 sheet).

Yucca Mountain, Nye Co.: "Chemical composition of ground water and the locations of permeable zones in the Yucca Mountain area, Nevada," by L. V. Benson, J. H. Robison, R. K. Blannenagel, and A. E. Ogard; U.S. Geological Survey Open-File Report 83-854, 19 p.

Yucca Mountain, Nye Co.: "Geohydrologic data for test well USW H-5, Yucca Mountain area, Nye County, Nevada," by C. B. Bentley, J. H. Robison, and R. W. Spengler; U.S. Geological Survey Open-File Report 83-853, 34 p.

Yucca Mountain, Nye Co.: "Geologic character of tuffs in the unsaturated zone at Yucca Mountain, southern Nevada," by R. B. Scott, R. W. Spengler, Sharon Diehl, A. R. Lappin, and M. P. Chornack; in "The role of the unsaturated zone in radioactive and hazardous waste disposal," Ann Arbor Science, Butterworth Group, p. 289-335.

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-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: Book 3, Chapter A12. 1968. 31 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]

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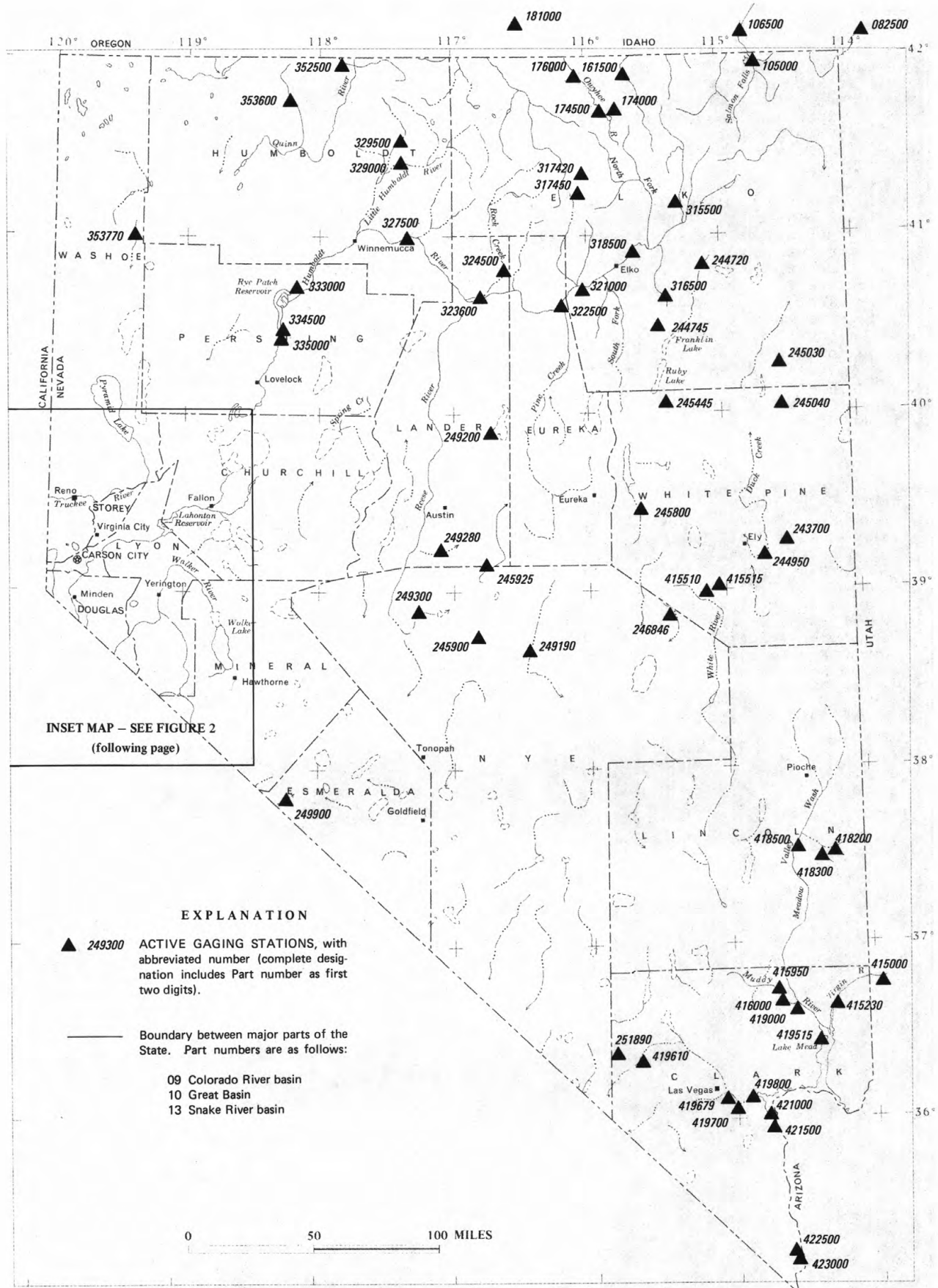


FIGURE 1.—Gaging stations listed in this report.

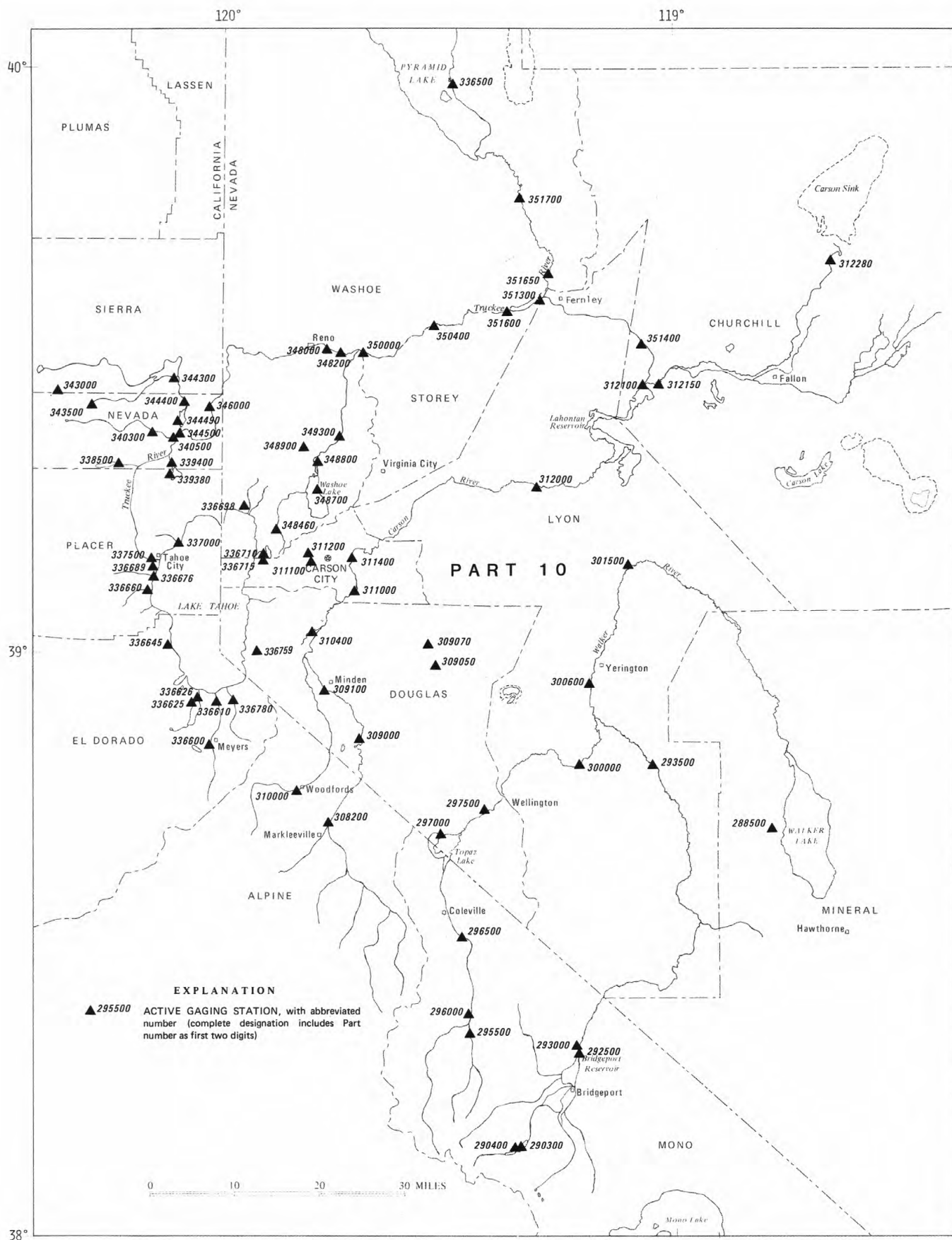


FIGURE 2.—Gaging stations in west-central Nevada.

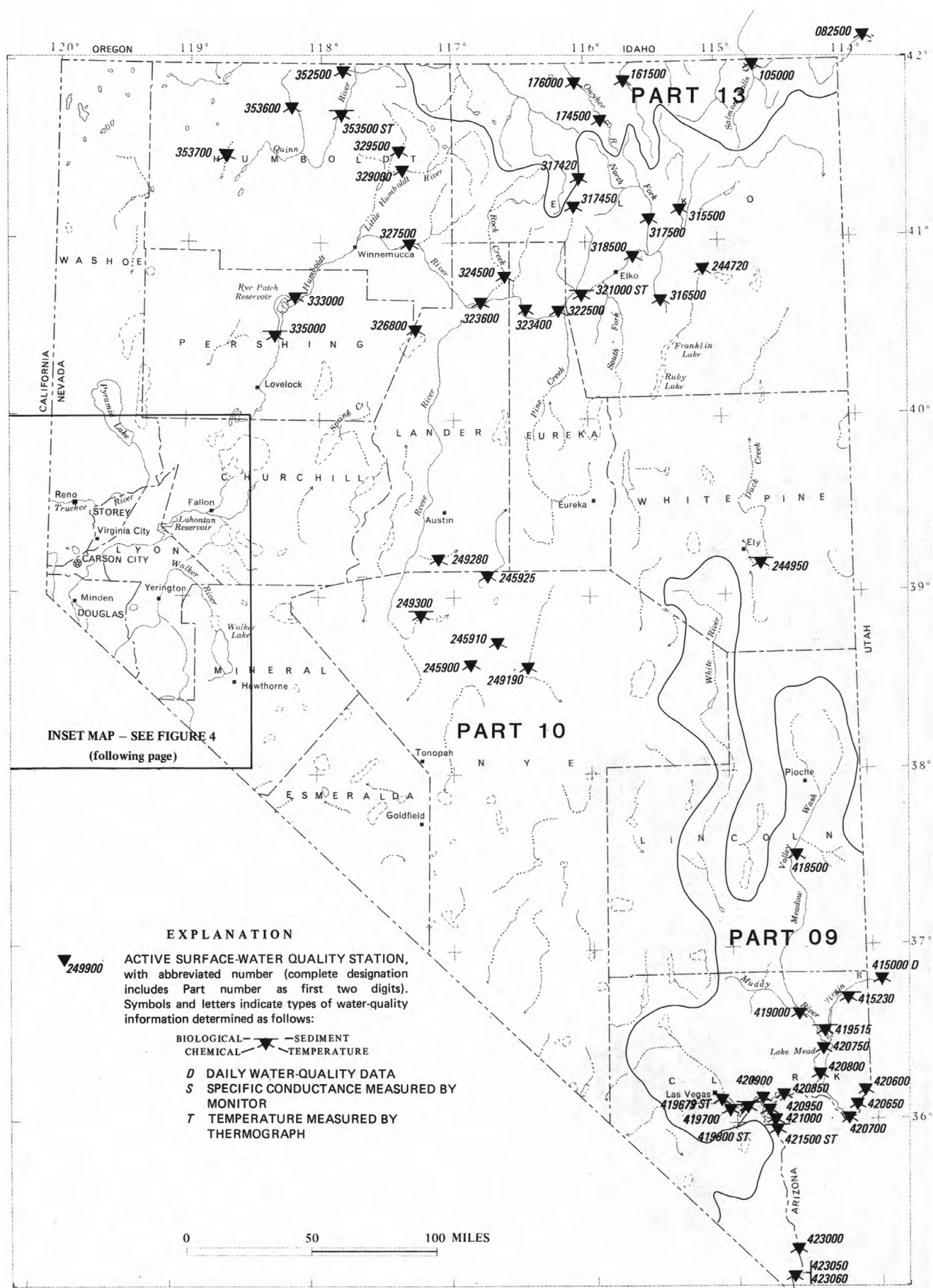


FIGURE 3.—Surface-water quality stations listed in this report.

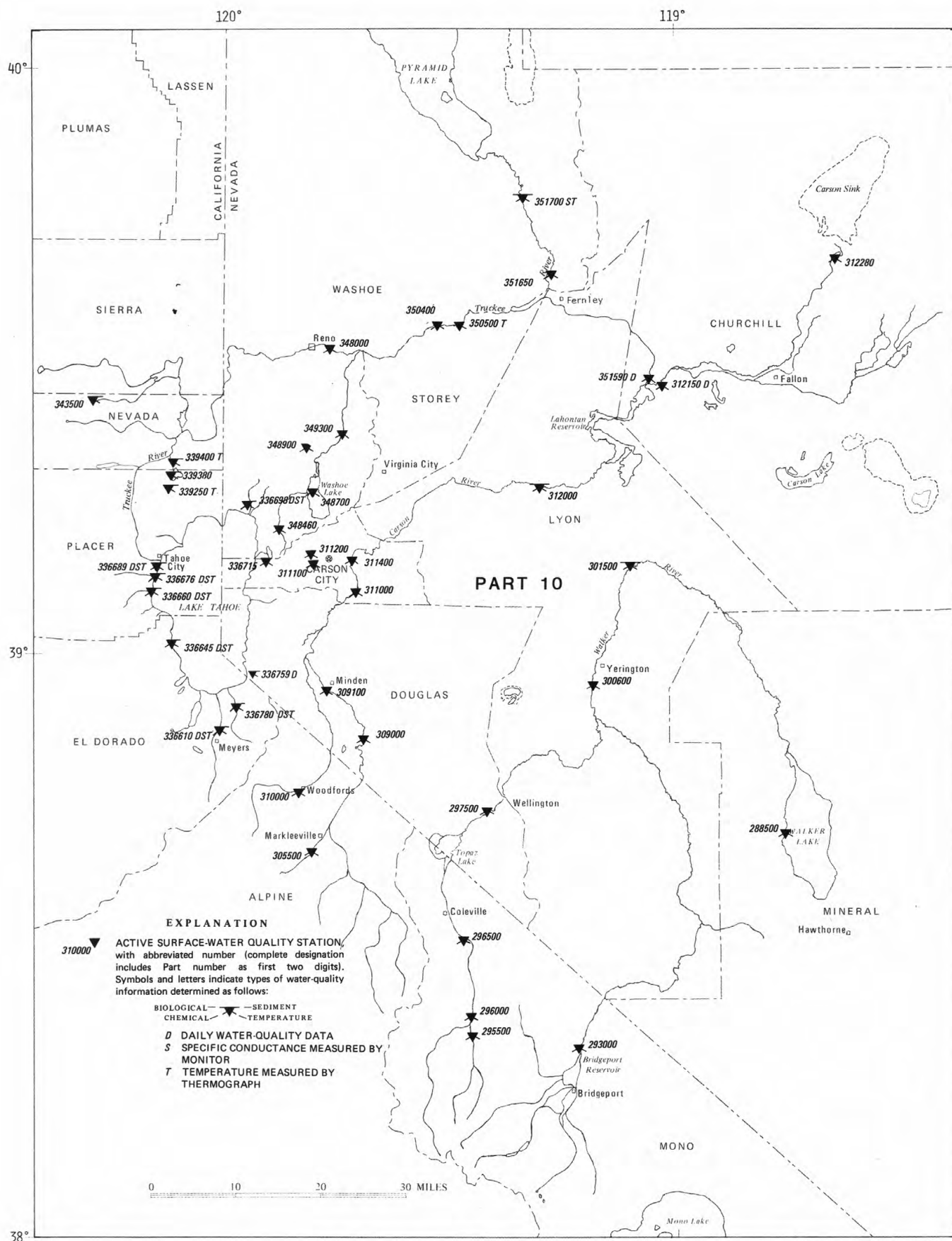


FIGURE 4.—Surface-water quality stations in west-central Nevada.

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 mi², 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 fair except those for periods of no gage-height record, Jan. 27 to Feb. 21, which are poor.

AVERAGE DISCHARGE.--54 years, 243 ft³/s, 176,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft³/s Dec. 6, 1966, gage height, 15.66 ft, for site then in use, from rating curve extended above 1,500 ft³/s on basis of slope-area measurement of peak flow; minimum, 38 ft³/s May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 1	1400	*6,200	9.35	May 30	1200	3,390	7.93
Dec. 23	1400	4,600	8.55	Aug. 18	0100	3,510	8.22
Mar. 3	0800	3,400	9.33				

Minimum daily discharge, 70 ft³/s, Sept. 16.

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	240	259	2100	291	300	740	1300	1700	2570	308	386	104
2	217	210	661	291	300	831	1090	1500	2350	296	376	109
3	207	200	492	296	300	3170	1060	1370	1910	300	340	145
4	207	193	430	296	300	2430	1000	1380	1760	308	186	117
5	193	200	430	291	300	2240	942	1530	1590	275	154	120
6	179	200	430	296	300	2190	927	1540	1590	251	207	122
7	179	196	410	296	300	2130	905	1450	1590	243	267	122
8	186	207	390	300	320	2010	890	1580	1530	255	410	116
9	200	344	390	300	340	1960	862	1940	1610	279	287	110
10	200	461	630	291	320	1830	848	2090	1540	321	321	104
11	203	476	526	291	310	1810	890	2130	1480	300	487	98
12	179	344	430	287	310	1910	934	1810	1480	280	300	92
13	183	279	386	279	310	1810	898	1740	1530	270	296	86
14	193	259	386	279	310	1670	862	1630	1260	260	279	80
15	193	247	353	283	310	1990	792	1660	1080	250	443	74
16	189	225	339	283	310	1720	765	1830	942	245	425	70
17	189	225	339	300	310	1740	745	1590	883	240	637	78
18	183	228	335	330	310	1840	862	1660	840	240	2190	80
19	163	232	330	304	310	1720	1030	1770	772	240	1060	87
20	173	678	326	291	310	1520	987	1830	725	235	386	92
21	173	321	321	271	310	1350	1260	1980	649	235	287	101
22	179	296	330	263	313	1290	1380	2220	577	235	291	96
23	189	283	1780	267	330	1160	1270	2310	548	235	267	101
24	200	287	765	275	330	1520	1450	2340	487	235	255	609
25	207	275	390	308	344	1360	1700	2460	455	235	283	1020
26	200	263	308	300	371	1200	1630	2630	455	245	275	612
27	232	263	335	310	371	1190	1590	2440	395	283	236	317
28	255	259	353	300	1100	1110	1540	2520	344	317	210	279
29	200	267	335	290	---	1080	1640	2570	321	296	179	251
30	193	643	313	290	---	1090	2010	2660	308	247	145	313
31	203	---	287	290	---	1380	---	2660	---	300	120	---
TOTAL	6007	8020	15630	9039	9729	50991	34059	60520	33571	8259	11985	5705
MEAN	196	294	504	292	347	1645	1135	1952	1119	266	387	190
MAX	255	678	2100	330	1180	3170	2010	2660	2570	321	2190	1020
MIN	163	193	287	263	300	740	745	1370	308	235	120	70
AC-FT	12070	17490	31000	17930	19300	101100	67560	120000	66590	16380	23770	11320
CAL YR 1982	TOTAL	96306	MEAN 264	MAX 2100	MIN 68	AC-FT 191000						
WTR YR 1983	TOTAL	254395	MEAN 697	MAX 3170	MIN 70	AC-FT 504600						

VIRGIN RIVER BASIN

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 homogeneous 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.

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, 3,210 micromhos Oct. 16-18; minimum, 615 micromhos May 27, 28, 30, 31.

WATER TEMPERATURES: Maximum, 29.5°C July 23; minimum, 7.0°C Dec. 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 CaCO ₃)	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 27...	1030	211	2860	8.0	16.0	8.6	93	980	260	81	280	4.0
NOV 23...	1045	301	2350	8.0	12.5	9.8	98	820	220	66	210	3.3
DEC 23...	0945	1640	1850	8.1	8.5	11.1	103	620	170	48	170	3.1
JAN 27...	0915	309	2250	8.0	11.5	9.8	97	790	210	65	200	3.2
FEB 21...	1100	308	2100	7.9	12.5	10.0	100	760	200	64	170	2.8
MAR 30...	1030	1180	1550	8.1	14.0	10.1	104	600	150	55	120	2.2
APR 27...	0915	1610	1000	8.1	13.0	10.0	102	380	98	33	61	1.4
MAY 26...	0730	2380	690	8.2	16.0	9.0	98	270	76	19	36	1.0
JUN 29...	0930	308	1900	8.0	22.0	7.8	96	680	180	56	160	2.8
JUL 27...	0900	241	2300	7.9	23.0	8.0	101	890	260	59	180	2.7
AUG 24...	0930	255	--	8.0	23.0	8.1	101	850	230	68	200	3.1
SEP 15...	1030	82	3000	7.9	25.5	8.4	111	1300	340	100	260	3.3

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAR (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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT 27...	22	250	820	380	.70	19	1940	2010	1110	<.020	.80
NOV 23...	18	276	650	290	.60	18	1660	1640	1350	--	--
DEC 23...	15	216	480	220	.50	15	1300	1250	5760	--	--
JAN 27...	17	268	620	260	.60	17	1590	1550	1330	--	.70
FEB 21...	15	260	540	240	.60	17	1390	1400	1160	--	--
MAR 30...	9.9	171	460	120	.40	15	976	1030	3110	--	--
APR 27...	6.1	190	220	74	.40	13	632	619	2750	--	--
MAY 26...	4.7	157	130	45	.20	11	433	416	2780	--	--
JUN 29...	14	237	520	220	.60	18	1350	1310	1120	--	--
JUL 27...	18	221	730	240	.60	17	--	1640	1070	<.020	.60
AUG 24...	25	200	730	260	.60	20	1660	1650	1140	--	--
SEP 15...	26	237	1100	380	.90	21	2430	2370	538	--	--

[illegible]

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	17.0	12.0	9.0	13.0	12.0	16.0	12.0	20.0	27.0		
2	21.0	16.0	11.0	10.0	11.0	11.0	15.0	13.0	19.0	26.0		
3	21.0	16.0	11.0	10.0	12.0	11.0	15.0	13.0	20.0	26.0		
4	21.0	15.0	11.0	11.0	12.0	13.0	---	13.5	19.5	29.0		
5	21.0	15.0	12.0	11.0	14.0	13.0	---	14.0	21.0	28.0		
6	21.0	15.0	12.0	12.0	13.0	15.0	---	17.0	21.5	29.0		
7	21.0	15.5	10.0	12.0	13.0	15.0	---	19.5	---	28.5		
8	19.0	15.0	11.0	12.0	14.0	15.0	---	20.5	---	28.0		
9	18.0	14.0	12.0	11.0	11.5	17.0	---	17.0	---	26.0		
10	19.0	13.0	12.0	11.0	14.0	18.0	---	16.0	23.0	25.0		
11	19.0	13.0	12.0	12.0	14.0	18.0	---	14.0	22.0	26.0		
12	22.0	12.5	12.5	13.0	14.0	17.0	---	14.0	22.0	28.0		
13	21.0	14.0	12.5	14.0	13.0	17.0	---	15.0	20.5	28.0		
14	21.0	13.0	11.0	14.0	15.0	15.0	---	16.0	22.0	28.0		
15	21.0	13.0	11.0	13.0	14.0	14.0	---	18.0	22.0	27.5		
16	21.5	13.0	12.0	14.0	14.0	14.0	---	18.0	23.0	26.0		
17	21.0	15.0	12.0	14.0	15.0	12.0	---	17.0	24.0	26.0		
18	21.0	15.0	12.0	12.0	15.0	11.0	---	16.0	24.0	25.0		
19	18.0	15.0	12.0	12.0	13.0	15.0	12.0	16.5	24.0	26.0		
20	19.0	13.0	12.0	11.0	14.0	16.0	13.0	16.0	23.0	27.5		
21	19.0	13.5	12.0	11.0	16.0	17.0	14.0	19.0	23.0	25.0		
22	19.0	13.0	12.0	10.5	16.0	13.0	13.0	19.0	24.0	26.0		
23	20.5	14.0	8.0	11.0	16.0	14.0	13.0	19.0	24.5	29.5		
24	18.0	14.0	7.0	12.0	16.0	13.0	13.0	18.0	24.5	27.0		
25	20.5	14.0	9.0	13.0	15.5	13.0	11.5	17.0	26.0	27.5		
26	19.0	14.0	9.0	13.5	14.0	---	11.0	17.0	27.0	25.0		
27	17.5	14.0	9.0	13.0	14.0	---	13.0	17.0	27.0	27.0		
28	17.0	14.0	8.0	14.0	13.0	---	13.0	18.0	27.0	26.0		
29	17.0	14.0	8.0	13.0	---	---	13.0	18.0	26.0	28.0		
30	17.0	13.0	8.0	13.0	---	17.0	12.0	19.0	24.5	25.0		
31	18.0	---	8.0	12.0	---	14.0	---	18.5	---	25.5		
MEAN	19.5	14.0	10.5	12.0	14.0	14.5	13.0	16.5	23.0	27.0		
MAX	22.0	17.0	12.5	14.0	16.0	18.0	16.0	20.5	27.0	29.5		
MIN	17.0	12.5	7.0	9.0	11.0	11.0	11.0	12.0	19.0	25.0		
WTR YR 1983	MEAN	16.5	MAX	29.5	MIN	7.0						

SPECIFIC CONDUCTANCE (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	2340	2220	2350	2300	963	1540	997	820	2310		
2	2690	2640	2220	2350	2300	650	1520	1060	820	2230		
3	2600	2640	2260	---	2380	627	1540	1120	840	2310		
4	2730	2600	2260	2300	2380	1120	---	1040	840	2450		
5	2820	2730	2260	2260	2300	1120	---	1040	780	2510		
6	2860	2690	2220	2300	2250	1280	---	934	760	2390		
7	2730	2690	2170	2300	2300	1570	1600	---	820	2390		
8	2820	2690	2260	2260	2170	1570	1660	912	820	2700		
9	2860	2250	1750	2260	---	1640	1600	743	880	2760		
10	2860	1780	1730	2300	1820	1570	1620	743	880	2630		
11	2930	1730	2260	2220	1820	1570	1710	849	860	2740		
12	3100	1990	2260	2280	1910	1500	1710	828	880	2700		
13	3060	2250	2260	2350	1990	1460	1640	828	880	2780		
14	3060	2340	2300	2350	1990	1480	1710	849	---	2900		
15	3120	2380	2300	2350	2080	1500	1710	806	---	2840		
16	3210	2510	2440	2300	2080	1460	---	828	---	2780		
17	3210	2510	2440	2300	2100	1460	---	806	---	2820		
18	3210	2490	2440	2320	2100	1480	---	828	---	2820		
19	3120	2490	2440	2170	2080	1030	---	785	---	2860		
20	3080	1430	2480	2220	2040	986	---	849	---	2800		
21	3170	2080	2480	2280	2120	986	---	700	---	2800		
22	3080	2300	2390	2350	2080	739	---	679	---	2880		
23	3120	2430	1240	2350	2080	739	---	679	---	2700		
24	2990	2430	1440	2300	2020	739	---	679	---	2630		
25	2950	2430	1990	2220	2020	739	---	679	---	2390		
26	2880	2430	2220	2220	1910	1610	---	700	---	2450		
27	2820	2430	2220	2220	1890	1610	---	615	---	2530		
28	2730	2430	2130	2260	1910	1640	---	615	---	2780		
29	2750	2380	2220	2130	---	1610	---	658	---	2820		
30	2750	2100	2350	2130	---	---	---	615	2240	2880		
31	2820	---	2480	2320	---	---	---	615	---	2880		
MEAN	2930	2350	2200	2280	2090	1260	1630	803	937	2660		
MAX	3210	2730	2480	2350	2380	1640	1710	1120	2240	2900		
MIN	2600	1430	1240	2130	1820	627	1520	615	760	2230		
WTR YR 1983	MEAN	2000	MAX	3210	MIN	615						

VIRGIN RIVER BASIN

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09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 36°40'28", long 114°17'54", in NE¼SW¼NE¼ sec.32, T.14 S., R.69 E., Clark County, Hydrologic Unit 15010010, on left bank, 1.3 mi upstream from Halfway Wash, 6.1 mi southeast of Riverside, and 7.5 mi upstream from waterline of Lake Mead, at altitude 1,221 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,980 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft, from topographic map. Prior to Sept. 27, 1979, at site 0.5 mi downstream at different datum.

REMARKS.--Records poor, no gage-height record May 31 to June 29 and July 17 to Sept. 14.

AVERAGE DISCHARGE.--6 years, 361 ft³/s, 261,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 16,00 ft³/s Mar. 5, 1978, gage-height, 6.60 ft, maximum gage height, ft; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 5,800 ft³/s Dec. 1, gage height, about 7.2 ft, maximum gage height, 7.58 ft Mar. 3; minimum daily, 66 ft³/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1993
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	269	1900	294	321	592	897	1220	2340	228	297	104
2	245	216	628	294	321	582	752	1100	2140	219	293	98
3	234	206	467	299	321	2220	731	1010	1720	222	265	130
4	234	197	408	299	321	1700	680	1040	1580	230	145	105
5	216	204	408	297	321	1570	641	1160	1420	210	122	108
6	200	202	413	302	321	1530	630	1190	1400	190	164	111
7	200	198	394	302	321	1490	606	1130	1400	190	214	111
8	206	207	374	306	346	1410	596	1250	1330	200	328	106
9	222	344	374	306	367	1370	578	1530	1400	215	232	101
10	222	456	605	300	346	1280	560	1670	1320	235	260	96
11	225	471	510	300	335	1270	587	1730	1260	225	394	90
12	197	337	417	296	335	1340	616	1480	1260	215	246	86
13	201	273	374	287	335	1270	584	1440	1290	205	243	80
14	212	251	374	287	335	1170	560	1370	1060	200	232	74
15	210	240	342	294	335	1390	515	1410	896	188	368	69
16	206	216	332	294	338	1200	490	1570	772	188	357	66
17	206	216	332	312	338	1220	477	1380	724	188	535	73
18	199	217	328	343	338	1290	552	1460	680	188	1060	75
19	176	220	323	316	338	1200	649	1580	625	188	901	83
20	187	619	319	306	338	1060	622	1650	580	180	328	87
21	187	302	318	284	338	945	794	1780	513	180	247	96
22	192	275	326	276	341	903	803	2020	456	180	250	91
23	202	263	1770	280	360	812	826	2130	427	180	232	97
24	214	267	757	289	360	1060	957	2180	380	180	218	585
25	221	256	306	326	375	952	1140	2310	350	180	213	979
26	212	247	308	318	404	840	1110	2500	346	180	211	588
27	246	247	335	329	404	833	1080	2290	300	225	211	304
28	270	243	353	318	1180	777	1060	2370	258	238	207	268
29	210	250	335	307	---	756	1150	2390	241	225	202	241
30	203	596	313	307	---	763	1430	2470	228	188	200	300
31	211	---	290	310	---	966	---	2450	---	231	196	---
TOTAL	6637	8505	15193	9378	10433	35761	22753	52260	28696	6291	10171	5402
MEAN	214	284	490	303	373	1154	758	1606	957	203	328	180
MAX	271	619	1900	343	1180	2220	1430	2500	2340	238	1060	979
MIN	176	197	290	276	321	582	477	1010	228	180	122	66
AC-FT	13160	16870	30140	18600	20690	70930	45130	103700	56920	12480	20170	10710
CAL YR 1982	TOTAL	89501	MEAN	245	MAX	1980	MIN	12	AC-FT	177500		
WTR YR 1983	TOTAL	211480	MEAN	579	MAX	2500	MIN	66	AC-FT	419500		

VIRGIN RIVER BASIN

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

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 2 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 2 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 1982 TO SEPTEMBER 1983

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 23...	1300	279	2500	8.3	14.0	340	9.9	101	46	K350	K2100
JAN 27...	1200	328	2400	8.3	9.5	650	11.0	103	37	--	--
MAR 30...	1330	714	1650	8.3	21.0	900	8.9	105	45	1200	4500
MAY 26...	1100	E2500	770	8.2	20.5	1000	8.3	98	92	460	4400
JUL 27...	1130	180	2550	8.1	26.5	3000	8.0	106	110	--	--
SEP 15...	1345	E30	3350	8.0	32.5	--	7.0	103	24	K120	4100

E: ESTIMATED.

K: NON-IDEAL COLONY COUNT.

VIRGIN RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	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 23...	910	230	80	240	3.6	20	232	760	340	.60	18
JAN 27...	850	220	73	220	3.4	16	234	700	290	.60	18
MAR 30...	640	160	58	130	2.3	11	213	500	150	.40	16
MAY 26...	300	82	22	43	1.1	5.1	153	180	57	.20	11
JUL 27...	1100	300	76	210	2.9	20	178	890	280	.60	18
SEP 15...	1400	340	130	340	4.1	31	158	1200	470	.70	24

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)	ARSENIC DIS- SOLVED (UG/L AS AS)
NOV 23...	1840	1830	1390	.68	.060	1.10	.480	.040	<.010	20	5
JAN 27...	1700	1680	1510	.65	.130	1.40	.600	.040	.030	--	--
MAR 30...	1160	1160	2240	.47	.130	.90	.900	.020	.020	20	4
MAY 26...	500	493	--	.22	.140	2.60	1.10	.030	.030	40	3
JUL 27...	2000	1900	972	.46	.070	4.70	4.10	.020	<.010	--	--
SEP 15...	2770	2640	--	.24	.070	.80	.110	.010	<.010	10	3

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)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 23...	200	<10	1	<1	3	1	40	1	330	10	<.1
JAN 27...	--	--	--	--	--	--	--	--	--	--	--
MAR 30...	95	<1	<1	<1	<3	1	12	3	170	10	.2
MAY 26...	79	<1	<1	<1	<3	1	18	<1	70	7	<.1
JUL 27...	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	<100	<10	<1	<1	1	<1	50	<1	540	20	.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, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
NOV 23...	3	3	1	<1	2900	4.3	10	4250	3200	38
JAN 27...	--	--	--	--	--	--	--	2650	2350	57
MAR 30...	<10	2	3	1	2000	<6.0	9	3560	6860	58
MAY 26...	<10	1	1	<1	920	<6.0	4	4450	--	82
JUL 27...	--	--	--	--	--	--	--	5150	2500	95
SEP 15...	5	2	1	<1	4800	8.8	10	777	--	35

WHITE RIVER VALLEY

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, Hydrologic Unit 15010011, and 1.0 mi northwest of Preston, NV.

PERIOD OF RECORD.--December 1982 to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 5,700 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8.6 ft³/s Dec. 1-14, 1983; minimum daily, 7.2 ft³/s May 18 to July 1, 1983.

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			8.6	8.4	8.1	7.8	7.7	7.9	7.2	7.2	7.8	7.5
2			8.6	8.4	8.1	7.8	7.7	7.9	7.2	7.3	7.8	7.5
3			8.6	8.4	8.1	7.8	7.8	7.9	7.2	7.3	7.8	7.5
4			8.6	8.3	8.1	7.8	7.8	7.8	7.2	7.3	7.8	7.5
5			8.6	8.3	8.0	7.8	7.8	7.8	7.2	7.3	7.8	7.5
6			8.6	8.3	8.0	7.7	7.8	7.7	7.2	7.3	7.8	7.5
7			8.6	8.3	8.0	7.7	7.8	7.7	7.2	7.3	7.8	7.5
8			8.6	8.3	8.0	7.7	7.8	7.7	7.2	7.4	7.7	7.5
9			8.6	8.3	8.0	7.7	7.8	7.6	7.2	7.4	7.7	7.5
10			8.6	8.3	8.0	7.7	7.9	7.6	7.2	7.4	7.7	7.4
11			8.6	8.3	8.0	7.7	7.9	7.5	7.2	7.4	7.7	7.4
12			8.6	8.3	8.0	7.7	7.9	7.5	7.2	7.4	7.7	7.4
13			8.6	8.3	8.0	7.7	7.9	7.5	7.2	7.4	7.7	7.4
14			8.6	8.2	8.0	7.7	7.9	7.4	7.2	7.5	7.7	7.4
15			8.5	8.2	7.9	7.7	7.9	7.4	7.2	7.5	7.7	7.4
16			8.5	8.2	7.9	7.6	7.9	7.3	7.2	7.5	7.7	7.4
17			8.5	8.2	7.9	7.6	8.0	7.3	7.2	7.5	7.7	7.4
18			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.5	7.7	7.4
19			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.5	7.7	7.4
20			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.6	7.6	7.4
21			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.6	7.6	7.4
22			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.6	7.6	7.4
23			8.5	8.2	7.9	7.6	8.0	7.2	7.2	7.6	7.6	7.4
24			8.5	8.2	7.9	7.6	8.1	7.2	7.2	7.6	7.6	7.4
25			8.4	8.2	7.8	7.6	8.1	7.2	7.2	7.6	7.6	7.4
26			8.4	8.1	7.8	7.6	8.1	7.2	7.2	7.7	7.6	7.4
27			8.4	8.1	7.8	7.7	8.1	7.2	7.2	7.7	7.6	7.4
28			8.4	8.1	7.8	7.7	8.1	7.2	7.2	7.7	7.6	7.4
29			8.4	8.1	---	7.7	8.0	7.2	7.2	7.7	7.6	7.4
30			8.4	8.1	---	7.7	8.0	7.2	7.2	7.7	7.5	7.4
31			8.4	8.1	---	7.7	---	7.2	---	7.7	7.5	---
TOTAL			264.2	255.2	222.6	238.1	237.8	230.3	216.0	232.2	237.9	222.9
MEAN			8.52	8.23	7.95	7.68	7.93	7.43	7.20	7.49	7.67	7.43
MAX			8.6	8.4	8.1	7.8	8.1	7.9	7.2	7.7	7.8	7.5
MIN			8.4	8.1	7.8	7.6	7.7	7.2	7.2	7.2	7.5	7.4
AC-FT			524	506	442	472	472	457	428	461	472	442

WHITE RIVER VALLEY

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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 mi².

PERIOD OF RECORD.--June to September 1983.

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

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21 ft³/s Aug. 7, 1983, gage-height, 4.30 ft; minimum daily, 6.1 ft³/s June 18, 1983.

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									6.3	7.0	9.9	8.3
2									7.0	7.2	11	8.1
3									6.3	7.0	12	7.9
4									6.3	7.7	13	7.9
5									8.3	7.7	11	7.4
6									8.7	7.6	12	7.7
7									7.9	8.1	14	7.5
8									7.4	8.5	12	7.6
9									7.4	9.1	11	7.6
10									7.9	9.3	11	7.6
11									7.6	11	9.1	7.7
12									7.4	11	7.4	7.7
13									6.5	11	8.9	7.6
14									6.3	11	7.9	7.1
15									6.8	11	7.4	6.7
16									7.4	12	9.1	6.5
17									6.7	12	10	6.7
18									6.1	13	9.9	7.4
19									8.7	12	8.9	7.4
20									8.5	12	7.9	7.4
21									7.0	12	7.2	7.6
22									7.0	11	6.8	7.0
23									7.0	12	6.8	7.4
24									6.8	12	7.2	7.4
25									7.0	12	7.0	7.4
26									6.7	13	7.0	7.4
27									6.8	14	6.8	7.0
28									7.9	13	7.0	7.0
29									7.6	14	7.9	7.2
30									7.4	16	7.7	7.7
31									---	11	8.5	---
TOTAL									216.7	335.2	283.3	222.9
MEAN									7.22	10.8	9.14	7.43
MAX									8.7	16	14	8.3
MIN									6.1	7.0	6.8	6.5
AC-FT									430	665	562	442
AC-FT									430	665	562	442

VIRGIN RIVER BASIN

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 ft³/s Nov. 10, 1981, and March 24, 1980; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 9.0 ft³/s Feb. 4; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

1983	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	100.4	83.50	140.8	131.3	99.80	16.90	37.16	18.41	109.0	74.30	43.90	95.0
MEAN	3.24	2.78	4.54	4.24	3.56	.55	1.24	.59	3.63	2.40	1.42	3.17
MAX	7.7	7.2	6.2	6.5	9.0	7.8	4.5	1.6	7.2	4.9	4.0	8.3
MIN	1.0	.00	3.9	2.8	.00	.00	.00	.00	1.3	.80	.00	1.1
AC-FT	199	166	279	260	198	34	74	37	216	147	87	188
CAL YR 1982	TOTAL	1255.59	MEAN	3.44	MAX	8.7	MIN	.00	AC-FT	2490		
WTR YR 1983	TOTAL	950.47	MEAN	2.60	MAX	9.0	MIN	.00	AC-FT	1890		

VIRGIN RIVER BASIN

39

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 mi², 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 0.08 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 ft³/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 ft³/s Sept. 7, 1967, gage height, 12.35 ft; minimum, 23 ft³/s Apr. 30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 234 ft³/s Feb. 8, gage height, 3.02 ft; minimum, 26 ft³/s June 7.

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	40	34	37	43	45	41	41	43	32	36	37	38
2	40	36	39	43	45	47	43	42	34	36	36	37
3	41	38	37	41	46	96	43	40	33	37	36	37
4	39	35	37	40	46	95	43	40	32	34	37	38
5	37	34	37	40	46	91	43	40	31	33	37	37
6	38	34	39	40	46	78	43	40	31	34	37	38
7	38	35	39	39	47	50	40	40	31	34	37	39
8	39	35	39	40	65	50	41	40	31	35	35	39
9	37	36	38	41	48	47	40	40	33	34	32	38
10	38	41	39	42	47	46	38	40	32	34	37	38
11	37	37	40	41	45	46	36	40	32	35	36	38
12	37	35	40	43	45	46	38	39	33	35	35	39
13	32	37	40	43	45	46	37	38	34	33	35	39
14	33	38	41	43	45	46	37	38	33	33	36	38
15	35	36	41	40	45	45	36	37	34	33	36	37
16	34	38	42	40	44	44	37	37	34	33	35	38
17	35	38	41	41	42	45	39	37	34	34	39	38
18	35	37	44	41	40	46	39	36	34	34	40	38
19	39	39	44	40	39	44	38	36	34	34	39	39
20	37	39	42	42	39	44	39	36	34	34	39	39
21	36	38	41	40	40	58	46	36	34	34	38	39
22	37	37	43	40	41	53	40	36	34	34	38	37
23	38	37	42	41	40	46	40	36	33	35	38	36
24	38	38	43	43	40	45	39	34	34	34	39	37
25	39	39	43	45	40	46	39	35	35	33	39	37
26	38	37	42	44	41	46	40	35	35	32	39	37
27	35	39	43	44	40	45	39	33	35	32	37	38
28	34	40	43	44	41	43	40	34	34	32	37	37
29	34	41	43	50	---	42	43	34	34	32	36	39
30	33	42	44	48	---	42	43	33	35	35	37	39
31	36	---	43	47	---	42	---	33	---	38	37	---
TOTAL	1139	1120	1266	1309	1233	1601	1200	1158	999	1056	1146	1138
MEAN	36.7	37.3	40.8	42.2	44.0	51.6	40.0	37.4	33.3	34.1	37.0	37.9
MAX	41	42	44	50	65	96	46	43	35	38	40	39
MIN	32	34	37	39	39	41	36	33	31	32	32	36
AC-FT	2260	2220	2510	2600	2450	3180	2380	2300	1980	2090	2270	2260

CAL YR 1982 TOTAL 13741 MEAN 37.6 MAX 130 MIN 27 AC-FT 27260
WTR YR 1983 TOTAL 14365 MEAN 39.4 MAX 96 MIN 31 AC-FT 28490

VIRGIN RIVER BASIN

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 mi², approximately (by Corps of Engineers, U.S. Army).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft, 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.--25 years, 0.887 ft³/s, 643 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 206 ft³/s Dec. 29, 1965, gage height, 11.85 ft; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft³/s Mar. 4, gage height, 11.04 ft; no flow most of the year.

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	.00	.00	.00	.00	.00	112	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	130	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	150	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	154	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	151	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	135	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	132	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	40	126	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	50	114	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	7.4	94	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.63	62	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.04	32	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	12	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	4.1	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	1.4	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.31	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00
23	.00	.00	50	.00	.00	.12	.00	.00	.00	.00	.00	.00
24	.00	.00	11	.00	.00	.15	.00	.00	.00	.00	.00	.00
25	.00	.00	1.5	.00	.00	.12	.00	.00	.00	.00	.00	.00
26	.00	.00	.14	.00	.00	.04	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	39	.03	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	124	.02	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.02	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	62.64	.00	261.07	1412.00	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	2.02	.000	9.32	45.5	.000	.000	.000	.000	.000	.000
MAX	.00	.00	50	.00	124	154	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	124	.00	518	2800	.00	.00	.00	.00	.00	.00

CAL YR 1982 TOTAL 156.09 MEAN .43 MAX 50 MIN .00 AC-FT 310
WTR YR 1983 TOTAL 1735.71 MEAN 4.76 MAX 154 MIN .00 AC-FT 3440

VIRGIN RIVER BASIN

41

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 mi², approximately (by Corps of Engineers, U.S. Army).

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

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

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

AVERAGE DISCHARGE.--25 years, 2.07 ft³/s, 1,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 303 ft³/s Mar. 3, 1978, gage height, 4.12 ft; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 278 ft³/s Mar. 4, gage height, 4.07 ft; no flow most of year.

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	.00	.00	.00	.00	.00	181	60	25	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	223	36	14	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	275	28	10	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	278	16	10	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	270	6.8	13	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	250	2.3	11	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	220	.70	6.1	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	178	.30	5.1	.00	.00	.00	.00
9	.00	.00	.00	.00	12	54	.10	7.2	.00	.00	.00	.00
10	.00	.00	.00	.00	.10	40	.02	5.1	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	46	.00	1.6	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	50	.00	.50	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	44	.00	.10	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	47	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	37	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	21	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	9.3	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	4.2	17	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	2.5	25	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	1.8	61	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.90	50	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	1.3	40	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	1.3	48	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.90	43	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.60	16	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	34	.40	19	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	178	.20	17	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.9	22	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	23	25	.00	.00	.00	.00	.00
31	.00	9	.00	.00	---	68	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	224.10	2343.30	533.22	108.70	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	8.00	75.6	17.8	3.51	.000	.000	.000	.000
MAX	.00	.00	.00	.00	178	278	61	25	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	445	4650	1060	216	.00	.00	.00	.00
CAL YR 1982	TOTAL	72.30	MEAN	.20	MAX	25	MIN	.00	AC-FT	143		
WTR YR 1983	TOTAL	3209.32	MEAN	8.79	MAX	278	MIN	.00	AC-FT	6370		

VIRGIN RIVER BASIN

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35 T.4 S., R.,66 E., Lincoln County, Hydrologic Unit 15010013, on right bank 0.5 mi east of Etna, 4.5 mi southwest of Caliente, and 6 mi downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi².

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

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

REMARKS.--Records fair except those for period of no gage-height record Mar. 4-29, which are poor. Several diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--27 years (1951-60, 1965-83), 12.4 ft³/s, 8,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft³/s Mar. 5, 1978, gage height, 9.41 ft, from floodmarks; no flow July 26-28, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 8	2045	417	8.18
Mar. 3	1445	*1,610	9.40

Minimum daily discharge, 1.2 ft³/s, July 18, 19.

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	11	6.7	9.5	3.5	12	535	55	43	12	2.7	2.2	2.2
2	8.7	5.3	8.4	3.6	9.3	1070	55	44	11	2.4	2.0	2.2
3	7.7	3.8	6.1	3.8	10	1300	48	44	11	2.7	1.8	2.2
4	7.2	1.9	5.3	3.8	10	700	44	44	11	2.7	1.8	2.2
5	6.2	2.2	5.3	3.3	10	500	34	42	11	2.4	1.6	2.2
6	5.6	1.9	5.2	2.8	10	400	27	36	11	2.4	1.6	2.2
7	5.1	1.9	5.9	3.0	11	230	22	34	10	2.4	1.6	2.4
8	4.7	2.5	5.4	3.7	139	150	21	32	10	2.2	1.6	2.4
9	4.3	2.8	5.5	3.9	112	86	20	30	9.8	1.8	1.8	2.2
10	4.0	4.5	6.8	3.8	27	64	20	28	9.8	2.2	2.0	2.2
11	3.8	3.4	9.8	3.7	35	50	22	28	9.2	2.2	2.0	2.4
12	3.5	2.8	12	3.7	34	43	26	32	9.2	2.2	2.0	2.4
13	3.4	2.5	10	3.7	30	42	30	33	8.7	2.2	2.0	2.4
14	3.4	2.5	5.4	3.7	28	40	32	32	8.2	2.2	2.4	2.4
15	3.3	2.5	4.9	4.0	26	40	30	30	7.3	2.0	2.7	2.2
16	3.3	2.5	7.8	4.9	20	39	28	30	6.8	1.4	3.2	2.2
17	3.3	2.5	7.3	6.2	15	39	25	28	6.0	1.4	6.0	2.2
18	3.4	2.8	7.0	7.8	13	39	25	28	5.6	1.2	7.3	2.0
19	3.5	3.4	6.7	11	12	39	25	27	5.2	1.2	6.0	2.0
20	3.6	6.7	6.7	11	11	45	24	25	4.8	1.4	5.6	2.0
21	3.9	7.7	7.8	8.7	11	65	24	24	4.5	1.6	5.2	2.2
22	4.1	6.2	9.7	7.9	11	100	41	23	4.2	1.8	4.5	2.2
23	4.5	6.4	26	7.6	11	40	44	22	3.8	2.0	4.5	2.2
24	4.9	7.0	9.4	8.3	11	32	44	20	3.5	1.8	3.5	2.2
25	5.3	6.4	4.9	9.7	12	29	49	20	3.5	1.6	2.4	2.2
26	6.2	5.9	4.0	14	13	27	45	19	3.2	1.6	2.2	2.9
27	8.2	5.6	3.5	20	48	25	39	17	3.0	1.6	2.2	3.5
28	6.7	3.9	3.0	24	572	24	33	17	2.7	1.6	2.4	3.0
29	2.8	3.3	3.2	28	---	25	31	16	2.7	1.6	2.4	3.0
30	3.1	6.7	3.3	25	---	26	39	15	2.7	2.0	2.4	4.5
31	5.3	---	3.5	21	---	31	---	14	---	2.4	2.2	---
TOTAL	154.0	124.2	219.3	269.1	1263.3	5875	1002	877	211.4	60.9	91.1	72.5
MEAN	4.97	4.14	7.07	8.68	45.1	190	33.4	28.3	7.05	1.96	2.94	2.42
MAX	11	7.7	26	28	572	1300	55	44	12	2.7	7.3	4.5
MIN	2.8	1.9	3.0	2.8	9.3	24	20	14	2.7	1.2	1.6	2.0
AC-FT	305	246	435	534	2510	11650	1990	1740	419	121	181	144
CAL YR 1982	TOTAL	2258.4	MEAN	6.19	MAX	97	MIN	1.5	AC-FT	4480		
WTR YR 1983	TOTAL	10219.8	MEAN	28.0	MAX	1300	MIN	1.2	AC-FT	20270		

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank at the Narrows, 150 ft downstream from Weiser Wash, 2 mi southeast of Glendale, 2.4 mi downstream from Meadow Valley Wash, 4.5 mi northwest of Logandale and 16 mi upstream from high-water line of Lake Mead at altitude 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--6,780 mi², approximately, of which about 3,000 mi² contributes directly to surface runoff.

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

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

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

REMARKS.--Records good, except for the period of no gage-height record, Dec. 9 to Jan. 6 and June 11 to July 12, which are fair. Diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--33 years (1950-83), 45.5 ft³/s, 32,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft³/s Aug. 10, 1981, gage height, 27.10 ft from rating curve extended above 7,400 ft³/s on basis of slope-area measurements of peak flow; minimum, 7.6 ft³/s Sept. 29, 1964, result of temporary storage upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30 ft Mar. 26, 1906 (datum then in use), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 210 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 10	1500	298	6.45
Mar. 3	unknown	*5,100	16.43
Aug. 17	1800	656	7.94

Minimum daily discharge, 21 ft³/s, July 28.

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	37	39	38	44	46	184	46	42	28	31	49	37
2	38	40	30	44	46	417	47	42	30	31	29	39
3	36	41	34	42	49	2590	48	35	30	32	29	38
4	37	36	32	43	49	1000	47	37	28	31	29	38
5	35	35	32	40	50	700	45	37	31	28	29	39
6	34	35	34	41	54	580	44	37	30	29	26	39
7	35	36	37	39	59	330	43	36	29	29	28	38
8	35	38	41	40	92	220	43	35	27	30	31	41
9	31	35	41	41	68	110	43	36	27	29	22	35
10	35	40	40	42	133	80	43	31	26	29	25	35
11	37	48	40	41	84	65	38	34	26	30	33	35
12	35	41	42	44	52	51	34	34	28	30	28	35
13	36	38	40	44	39	48	36	34	29	28	24	34
14	33	40	41	44	45	46	35	33	29	24	26	35
15	33	38	41	41	58	45	33	32	29	23	26	33
16	35	41	42	41	58	44	35	34	29	25	25	35
17	38	39	42	42	57	44	36	32	29	27	133	34
18	39	39	46	42	48	46	38	35	29	27	62	37
19	39	38	46	41	45	45	36	32	29	27	46	35
20	38	41	43	42	42	45	39	33	29	25	43	33
21	38	42	42	41	45	68	45	34	29	25	42	35
22	38	39	43	41	44	133	48	35	29	24	40	32
23	42	39	43	42	52	50	43	36	28	26	39	32
24	43	40	43	43	53	55	43	31	29	24	39	33
25	41	41	45	49	45	50	40	33	30	27	41	36
26	37	39	42	48	43	49	37	36	30	23	40	34
27	35	41	42	50	44	50	41	30	30	22	37	35
28	36	42	44	49	41	48	33	33	29	21	37	33
29	37	43	43	62	---	47	38	33	29	21	39	35
30	37	39	45	60	---	49	42	31	30	26	38	41
31	39	---	44	52	---	46	---	27	---	40	39	---
TOTAL	1139	1183	1258	1375	1541	7335	1219	1060	865	844	1174	1071
MEAN	36.7	39.4	40.6	44.4	55.0	237	40.6	34.2	28.8	27.2	37.9	35.7
MAX	43	48	46	62	133	2590	48	42	31	40	133	41
MIN	31	35	30	39	39	44	33	27	26	21	22	32
AC-FT	2260	2350	2500	2730	3060	14550	2420	2100	1720	1670	2330	2120
CAL YR 1982	TOTAL	13577	MEAN 37.2	MAX 130	MIN 25	AC-FT 26930						
WTR YR 1983	TOTAL	20064	MEAN 55.0	MAX 2590	MIN 21	AC-FT 39800						

VIRGIN RIVER BASIN

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 36°31'21", long 114°24'49", in SE1SW1 sec.20, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010005 on right bank in Overton State Wildlife Management Area, 0.8 mi downstream from diversion dam, 2.3 mi southeast of Overton, and 1 mi downstream from high-water line of Lake Mead at altitude 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,310 mi², approximately, of which about 4,300 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft, from topographic map.

REMARKS.--Records poor, stage-discharge relation indefinite June 16 to Aug. 20; no gage-height record Aug. 21 to Sept. 30.

AVERAGE DISCHARGE.--5 years, 10.5 ft³/s, 7,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft³/s Aug. 11, 1981, gage height, 16.54 ft, from rating curve extended above 436 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.32 ft³/s Dec. 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 563 ft³/s Mar. 4, gage height, 14.94 ft; maximum gage height, 16.20 ft July 21 (back water from Lake Mead); minimum daily, 2.0 ft³/s June 11.

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	9.0	12	20	3.0	5.5	26	19	4.1	4.0	4.5	7.2	5.2
2	8.0	8.5	21	3.0	5.9	179	18	3.9	3.7	4.5	4.5	5.2
3	7.0	6.1	21	3.4	6.9	328	18	3.8	4.0	4.5	4.3	5.2
4	6.4	7.5	17	3.4	6.2	496	19	3.6	4.3	4.5	4.2	5.2
5	5.9	5.4	18	3.3	4.4	346	16	3.9	4.5	4.5	4.2	5.2
6	5.6	3.5	22	2.9	5.6	239	15	3.7	6.8	4.5	4.1	5.1
7	5.3	3.2	7.3	3.2	5.1	198	14	7.8	3.4	4.5	4.1	5.1
8	5.1	5.3	2.9	3.3	6.3	154	10	3.8	2.6	4.5	4.1	5.1
9	4.8	15	3.2	3.2	14	128	4.3	4.2	2.2	4.5	4.1	5.1
10	4.7	12	3.4	3.3	15	102	4.3	3.2	2.1	4.5	4.1	5.1
11	4.5	13	3.3	3.2	35	50	4.6	3.3	2.0	4.4	4.0	5.0
12	4.2	12	2.7	3.0	7.2	20	4.5	2.9	2.2	4.3	4.0	5.0
13	3.8	13	2.5	3.1	6.2	15	6.1	2.7	3.1	4.2	4.0	5.0
14	2.8	10	2.6	3.7	6.0	6.7	4.8	2.8	5.0	4.2	3.9	5.0
15	2.5	15	2.5	3.2	4.0	8.3	4.7	3.0	7.6	4.1	3.8	5.0
16	2.5	12	2.6	3.6	3.1	12	5.0	5.5	4.5	4.1	3.6	5.1
17	2.5	8.5	2.5	3.8	3.1	6.8	4.8	7.1	4.5	4.0	20	5.1
18	2.7	8.9	2.7	3.7	2.9	5.5	5.4	4.8	4.5	4.0	9.0	5.1
19	4.7	6.2	2.6	3.6	2.9	6.2	5.2	3.7	4.5	4.0	7.0	5.1
20	7.1	5.8	2.6	3.5	3.0	6.0	5.5	3.4	4.5	4.0	6.4	5.1
21	7.5	6.6	2.6	3.0	5.2	35	6.0	3.3	4.5	4.0	6.1	5.1
22	4.9	9.1	3.0	3.3	8.1	107	6.4	3.3	4.5	3.9	5.9	5.1
23	7.7	4.7	2.8	3.5	9.1	48	5.8	3.2	4.5	3.9	5.8	5.1
24	9.6	3.4	2.6	3.6	16	39	5.6	3.1	4.5	3.8	5.7	5.1
25	13	4.2	2.6	4.1	18	40	5.2	3.3	4.5	3.7	5.6	5.2
26	13	5.3	2.7	29	23	40	4.8	4.8	4.5	3.6	5.5	5.2
27	6.2	5.0	2.7	30	19	42	5.2	5.2	4.5	3.5	5.4	5.2
28	5.9	7.5	2.7	31	18	32	4.5	4.3	4.5	3.5	5.3	5.2
29	5.3	4.8	2.7	33	---	22	4.0	5.5	4.5	3.5	5.2	5.2
30	4.2	20	2.9	31	---	21	4.2	7.5	4.5	4.0	5.2	5.2
31	6.2	---	2.9	10	---	20	---	6.4	---	5.6	5.2	---
TOTAL	182.6	253.5	192.6	247.9	264.7	2778.5	239.9	131.1	125.0	129.3	171.5	153.6
MEAN	5.89	8.45	6.21	8.00	9.45	89.6	8.00	4.23	4.17	4.17	5.53	5.12
MAX	13	20	22	33	35	496	19	7.8	7.6	5.6	20	5.2
MIN	2.5	3.2	2.5	2.9	2.9	5.5	4.0	2.7	2.0	3.5	3.6	5.0
AC-FT	362	503	382	492	525	5510	476	260	248	256	340	305

CAL YR 1982 TOTAL 2161.0 MEAN 5.92 MAX 44 MIN 1.0 AC-FT 4290
WTR YR 1983 TOTAL 4870.2 MEAN 13.3 MAX 496 MIN 2.0 AC-FT 9660

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

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 2 months.

BIOLOGICAL DATA: May 1979 to September 1980, monthly (seasonal); October 1980 to September 1981, every 2 months.

MICROBIOLOGICAL AND SEDIMENT DATA: April 1979 to September 1980, monthly; October 1980 to current year, every 2 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, and July 15, 1981; 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 1982 TO SEPTEMBER 1983

DATE	TIME	STREPTO- COCOCCI, INSTAN- TANEOUS (PT3/S)	SPECIFIC 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- TOCOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 02...	1200	5.7	3020	8.2	14.5	15	10.0	103	15	K570	K3500
JAN 06...	1545	3.5	3500	8.2	10.0	16	10.8	100	16	K200	K3400
MAR 03...	1300	263	900	8.0	13.5	4400	9.0	93	240	K7000	>10000
MAY 04...	1430	3.4	3200	8.2	21.0	70	8.2	98	16	K1000	K3500
JUL 07...	0830	21	3050	8.2	23.5	32	8.1	101	20	1000	20000
SEP 29...	1100	15.0	1950	8.2	21.0	69	10.7	127	20	6200	14000

R: ESTIMATED.

K: NON-IDEAL COLONY COUNT.

VIRGIN RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	ALKA- LINITY LAR (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 02...	930	190	110	360	5.3	27	344	960	290	3.6	38
JAN 06...	1200	220	150	440	5.7	28	359	1300	310	3.4	38
MAR 03...	230	54	22	94	2.8	13	135	220	64	.90	24
MAY 04...	1100	210	130	400	5.5	28	354	1100	290	3.7	42
JUL 07...	1000	210	120	360	5.0	28	336	1100	270	3.4	44
SEP 29...	620	130	70	220	4.0	22	263	610	160	2.9	32

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTIT- UENTS, 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 02...	2280	2190	35.1	.37	.080	.80	.360	.100	.090	<10	66
JAN 06...	2760	2700	26.1	.29	.120	1.20	.120	.070	.060	--	--
MAR 03...	548	575	389	.88	.300	10.0	5.00	.090	.080	400	--
MAY 04...	2450	2420	22.5	.47	.120	.70	.240	.090	.070	20	51
JUL 07...	--	2340	133	.10	.060	1.10	.130	.080	.050	--	--
SEP 29...	1460	1410	--	.41	.130	.90	.220	.040	.060	10	38

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)	COPALT, 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 PR)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 02...	<100	<10	<5	<1	<5	<5	30	<5	470	110	.2
JAN 06...	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	39	<1	<1	<1	<3	3	140	<1	93	81	.3
MAY 04...	100	<10	<1	<1	1	1	20	<1	500	180	<.1
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	51	<1	<1	<1	<3	1	10	1	310	56	.7

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELFE- 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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 02...	27	<5	1	<5	3700	6.4	10	252	3.9	--
JAN 06...	--	--	--	--	--	--	--	260	2.5	--
MAR 03...	10	5	--	<1	740	8.0	6	8180	5810	94
MAY 04...	21	3	2	<1	--	9.6	10	295	2.7	--
JUL 07...	--	--	--	--	--	--	--	189	11	--
SEP 29...	20	3	1	<1	2500	<6.0	7	270	--	71

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 mi².

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.--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.--20 years, 0.025 ft³/s, 18 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/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.--No flow for entire year.

LAS VEGAS VALLEY

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 current year.

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 ft³/s July 2, 1980, gage height, 5.15 ft; maximum gage height, 6.56 ft Aug. 10, 1983; minimum daily, 45 ft³/s Aug. 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft³/s Aug. 10, gage height, 6.56 ft; minimum daily, 82 ft³/s May 16.

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	111	114	130	121	113	104	94	116	113	100	112	137
2	109	116	108	118	108	151	96	115	111	97	108	138
3	109	120	112	114	113	212	99	115	104	94	100	135
4	114	116	107	106	105	123	110	114	100	99	98	132
5	109	112	106	108	102	108	112	114	92	106	102	129
6	109	109	113	107	108	114	114	114	101	104	100	124
7	105	113	118	108	105	119	109	110	102	105	102	122
8	100	120	90	105	110	88	115	119	97	96	109	120
9	103	123	113	108	107	125	112	95	100	90	102	115
10	112	120	142	108	106	112	112	90	102	89	231	114
11	114	117	107	108	107	119	113	89	103	95	346	116
12	120	116	108	103	109	116	110	90	108	95	155	117
13	116	118	107	100	108	115	113	88	106	95	120	115
14	118	115	107	99	112	115	110	87	91	99	114	118
15	121	109	104	101	110	115	110	85	92	99	114	115
16	122	101	106	105	106	114	110	82	100	96	120	120
17	122	102	102	105	102	116	114	83	104	96	130	121
18	123	107	104	106	102	113	111	87	110	98	360	122
19	127	107	106	106	107	109	106	87	108	97	120	123
20	127	103	106	107	106	116	109	87	109	99	117	126
21	119	102	107	103	105	117	109	111	106	101	116	127
22	118	98	104	105	92	118	120	109	100	102	124	127
23	118	92	157	116	91	112	110	113	108	97	146	109
24	120	94	110	109	94	108	104	112	101	99	138	115
25	116	98	103	121	92	108	104	108	93	100	130	118
26	115	97	104	106	101	110	105	104	98	97	134	118
27	108	97	106	109	105	111	107	102	103	99	134	133
28	104	99	106	115	107	108	110	102	100	98	138	124
29	99	106	110	123	---	99	110	104	99	98	133	114
30	104	123	114	117	---	101	115	112	100	100	137	138
31	117	---	115	113	---	97	---	111	---	100	114	---
TOTAL	3529	3264	3432	3380	2933	3593	3273	3155	3061	3040	4304	3682
MEAN	114	109	111	109	105	116	109	102	102	98.1	139	123
MAX	127	123	157	123	113	212	120	119	113	106	360	138
MIN	99	92	90	99	91	88	94	82	91	89	98	109
AC-FT	7000	6470	6810	6700	5820	7130	6490	6260	6070	6030	8540	7300
CAL YR 1982	TOTAL	37973	MEAN 104	MAX 260	MIN 73	AC-FT 75320						
WTR YR 1983	TOTAL	40646	MEAN 111	MAX 360	MIN 82	AC-FT 80620						

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, 2,740 micromhos Dec. 8; minimum, 1,190 micromhos Mar. 3.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 5-8; minimum, 11.5°C Dec. 23.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	21.5	20.5	17.0	14.0	16.5	15.5	17.0	16.0	18.5	18.0
2	---	---	21.0	20.0	17.5	16.0	16.5	15.5	16.5	16.0	18.0	14.5
3	---	---	20.5	19.0	18.0	17.0	16.5	15.5	16.0	14.0	15.5	13.0
4	---	---	20.5	19.0	18.5	17.5	16.5	15.5	17.0	16.0	18.5	15.5
5	---	---	20.5	19.0	18.5	17.5	17.0	16.0	17.0	16.0	19.5	17.5
6	---	---	20.0	19.0	19.0	17.5	17.5	16.0	17.0	15.5	19.5	18.0
7	22.5	21.0	20.0	18.5	18.5	18.0	17.5	16.5	17.5	16.5	20.0	18.5
8	21.0	19.5	20.0	19.5	18.0	16.0	18.0	17.0	18.0	17.0	20.5	16.5
9	21.0	19.5	20.0	19.5	18.0	15.0	17.5	17.0	18.0	17.0	21.0	19.0
10	21.0	19.5	19.5	19.0	18.5	14.5	17.5	16.5	18.5	17.0	21.0	18.5
11	21.0	19.5	19.5	18.5	19.0	18.0	17.5	16.5	18.5	17.0	20.5	19.5
12	22.0	20.0	19.5	18.5	18.5	17.5	17.5	16.5	18.0	17.5	20.5	19.0
13	22.0	20.5	19.5	18.5	18.0	17.5	17.0	16.0	18.0	17.0	20.5	19.0
14	23.0	20.5	19.0	18.5	17.5	16.5	17.0	16.0	17.5	16.5	19.5	18.5
15	23.0	21.0	19.0	18.0	17.5	16.5	17.5	16.0	18.0	17.0	19.0	18.0
16	23.0	21.0	20.0	18.0	17.5	16.0	17.5	17.0	18.5	17.0	19.5	17.5
17	23.0	21.0	20.0	17.0	17.5	16.0	18.0	17.0	18.5	17.0	19.0	18.0
18	22.5	21.0	18.5	16.0	17.5	16.5	18.0	17.0	18.5	17.0	18.5	17.5
19	21.5	20.5	19.0	17.5	17.5	16.5	17.5	16.5	17.5	16.5	19.0	17.0
20	21.0	19.5	---	---	17.5	16.0	17.0	16.0	18.0	17.0	19.0	17.5
21	22.5	20.0	---	---	17.5	16.5	16.5	15.5	18.5	17.0	18.5	17.5
22	23.0	21.5	---	---	17.5	17.0	16.5	16.0	19.0	17.5	19.0	17.0
23	23.0	21.5	18.5	18.0	17.0	11.5	17.0	14.5	18.5	17.0	19.0	17.0
24	22.0	21.5	19.0	18.0	14.5	13.5	17.0	14.0	18.0	17.0	18.5	18.0
25	22.5	21.5	19.0	18.0	15.0	14.0	17.0	14.0	18.0	17.0	18.5	17.0
26	22.5	21.5	18.5	18.0	15.5	14.0	17.5	17.0	18.0	17.0	19.5	17.0
27	21.5	20.0	19.0	17.5	16.5	15.0	17.5	14.0	18.5	17.5	19.5	18.5
28	20.5	19.5	19.0	17.5	16.0	15.0	17.0	14.0	18.5	17.5	20.0	18.0
29	20.5	18.5	19.0	18.5	16.0	15.5	17.0	15.0	---	---	21.0	19.0
30	20.5	19.5	18.5	12.5	15.5	15.0	17.0	15.5	---	---	21.5	19.5
31	21.5	10.0	---	---	16.0	15.0	16.5	16.0	---	---	21.0	18.5
MONTH	23.0	18.5	21.5	12.5	19.0	11.5	18.0	14.0	19.0	14.0	21.5	13.0

LAS VEGAS VALLEY

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	17.5	20.0	18.5	23.5	22.0	---	---	27.5	26.5	27.5	26.5
2	20.0	18.0	22.0	19.0	24.5	22.0	---	---	28.5	26.5	28.0	26.5
3	18.5	17.0	23.0	20.5	25.0	22.5	---	---	28.5	27.0	28.0	27.0
4	18.0	16.0	22.5	20.5	25.0	23.0	---	---	28.5	27.0	27.5	26.0
5	19.0	17.0	21.0	19.5	25.5	23.5	---	---	29.0	27.0	27.5	26.0
6	19.5	17.5	22.0	19.0	26.5	24.0	28.0	26.5	29.0	28.0	27.5	26.0
7	20.0	17.5	23.0	20.0	26.0	24.5	27.0	26.0	29.0	27.5	26.5	26.0
8	20.5	18.0	23.0	20.5	26.0	23.5	27.0	26.0	29.0	28.0	27.0	25.5
9	20.5	18.5	24.0	20.0	26.5	24.0	26.5	25.5	---	---	27.0	25.5
10	20.5	19.0	23.0	20.0	26.5	24.5	25.5	23.5	---	---	27.5	26.0
11	19.5	18.0	23.0	19.0	25.0	24.0	27.0	24.0	---	---	27.5	26.0
12	18.5	17.5	23.5	20.5	25.5	23.5	27.5	25.0	---	---	28.0	26.0
13	19.5	17.0	24.0	21.0	25.5	22.5	28.0	25.5	---	---	28.0	26.0
14	20.5	18.0	24.0	21.0	26.0	23.0	27.5	26.0	---	---	27.5	26.0
15	20.5	18.5	24.5	20.5	26.5	23.5	26.5	25.5	---	---	27.5	26.0
16	21.0	19.0	23.0	19.5	26.5	24.0	26.0	25.0	---	---	28.0	26.0
17	21.5	19.5	24.0	19.5	25.5	24.0	27.0	25.0	---	---	28.0	26.5
18	20.5	19.5	25.0	21.5	26.0	24.0	27.0	25.5	---	---	27.5	26.5
19	21.5	19.0	24.0	21.5	25.5	24.0	27.5	25.5	---	---	27.0	26.0
20	20.5	19.5	23.5	20.5	25.5	24.0	27.5	26.0	---	---	26.0	24.0
21	20.0	17.5	25.0	22.0	26.0	23.5	27.0	26.0	---	---	25.5	24.0
22	22.0	19.0	25.0	23.0	26.5	24.0	28.5	26.0	---	---	26.0	24.5
23	22.0	20.5	25.5	23.0	26.5	24.0	28.0	26.5	---	---	26.5	25.5
24	21.0	19.5	25.5	23.5	26.5	24.0	28.0	26.5	---	---	26.0	25.0
25	21.0	18.5	25.5	23.5	---	---	28.0	26.5	---	---	26.5	25.5
26	21.5	19.5	26.0	23.5	---	---	27.0	26.0	---	---	26.0	25.0
27	21.0	19.5	26.0	24.0	---	---	27.0	25.5	---	---	25.5	22.5
28	21.5	20.0	26.5	24.0	---	---	27.5	25.5	---	---	26.0	25.0
29	21.0	20.0	26.0	24.5	---	---	28.0	25.5	---	---	25.0	20.0
30	21.0	19.0	25.5	23.5	---	---	27.5	26.5	28.0	26.0	23.5	21.0
31	---	---	25.0	23.5	---	---	28.0	26.5	28.0	26.0	---	---
MONTH	22.0	16.0	26.5	18.5	26.5	22.0	28.5	23.5	29.0	26.0	28.0	20.0
YEAR	29.0	11.5										

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	2330	2180	2450	2180	2180	2100	2270	2050	2440	2170
2	---	---	2360	2160	2480	2310	2200	2090	2260	2030	2490	1280
3	---	---	2320	2120	2450	2260	2290	2050	2330	1970	1870	1190
4	---	---	2400	2140	2460	2200	2340	2060	2210	2080	2410	1920
5	---	---	2430	2180	2370	2230	2260	2030	2310	2100	2450	2240
6	---	---	2430	2170	2420	2220	2290	2040	2330	1940	2340	2210
7	2240	2060	2380	2120	2420	2240	2300	2100	2220	2040	2390	2190
8	2290	2040	2280	2120	2740	2230	2320	2070	2280	2120	2700	2310
9	2290	1930	2320	2120	2460	1820	2170	2030	2310	2110	2450	2310
10	2160	1990	2300	2080	2300	1670	2190	1990	2300	2110	2580	2320
11	2130	2000	2250	2110	2450	2260	2230	2020	2310	2110	2570	2330
12	2180	2020	2260	2040	2400	2260	2260	2090	2270	2120	2520	2300
13	2240	2090	2250	2090	2420	2230	2350	2030	2220	2060	2440	2280
14	2210	2030	2210	2090	2460	2230	2320	2060	2250	2020	2480	2250
15	2210	2040	2270	2000	2500	2290	2230	1990	2280	2060	2490	2290
16	2270	2060	2370	2200	2490	2270	2180	2020	2270	2130	2490	2270
17	2230	2040	2580	2200	2470	2230	2160	1950	2340	2090	2490	2240
18	2220	2020	2570	2250	2410	2220	2210	2020	2380	2050	2500	2290
19	2260	2070	2480	2220	2400	2260	2210	2020	2310	2110	2520	2220
20	2330	2130	---	---	2370	2210	2220	2010	2220	2060	2480	2250
21	2250	2070	---	---	2430	2240	2240	2070	2320	2110	2460	2100
22	2260	2040	---	---	2450	2240	2230	2020	2320	2120	2440	2240
23	2190	2050	2410	2200	2490	1300	2250	1790	2480	2220	2550	2300
24	2180	2010	2510	2270	2330	2180	2150	1740	2460	2270	2550	2310
25	2230	2030	2430	2200	2410	2220	2140	1750	2470	2260	2600	2300
26	2330	2140	2350	2200	2410	2230	2180	1990	2440	2210	2520	2310
27	2410	2140	2410	2220	2390	2140	2230	1710	2370	2160	2480	2270
28	2380	2130	2400	2210	2370	2200	2190	1690	2320	2130	2500	2210
29	2500	2170	2360	2160	2390	2180	2220	1750	---	---	2580	2310
30	2490	2120	2470	1590	2370	2160	2170	1990	---	---	2560	2310
31	2380	2140	---	---	2330	2140	2250	2020	---	---	2600	2400
MONTH	2500	1930	2580	1590	2740	1300	2350	1690	2480	1940	2700	1190

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV

LOCATION.--Lat 36°05'20", long 114°59'05", in SE¼SW¼ sec.30, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank at upstream end of 4.5-ft pipe culvert on road, 3.5 mi north of Henderson, and 6.0 mi upstream from high-water line of Lake Mead at altitude 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--2,125 mi², of which 1,518 mi² contribute directly to surface runoff. Prior to Apr. 4, 1961, 2,179 mi², of which 1,571 mi² contributed directly to surface runoff.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1926: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft, from topographic map. Prior to Apr. 4, 1961, at site 2.5 mi downstream at various datums.

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

AVERAGE DISCHARGE.--26 years, 46.6 ft³/s, 33,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft³/s July 4, 1975, gage height, 10.67 ft, from floodmarks, from rating curve extended above 3,340 ft³/s on basis of area-velocity computation to determine peak flow, maximum gage height, 12.15 ft Aug. 11, 1983; minimum daily, 4.8 ft³/s Aug. 17, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,200 ft³/s Aug. 11, gage height, 12.15 ft; minimum daily, 73 ft³/s July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1902 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	108	379	108	100	94	81	99	86	78	84	114
2	107	108	119	108	98	104	82	101	86	76	84	116
3	104	112	110	108	100	447	82	98	94	75	81	115
4	107	111	107	103	99	231	91	97	80	77	81	113
5	106	110	106	102	93	103	95	96	80	79	81	112
6	106	107	107	102	97	101	96	98	79	79	82	110
7	104	108	111	101	96	103	94	96	83	78	82	109
8	101	113	98	100	96	91	97	95	79	77	81	108
9	99	115	107	101	98	103	95	93	79	74	83	105
10	105	115	127	101	97	100	96	90	81	73	106	104
11	107	112	111	100	97	103	96	91	79	75	760	105
12	109	112	105	100	97	102	92	92	81	76	177	106
13	110	115	104	95	98	103	96	91	82	76	110	106
14	110	113	104	96	99	102	95	87	75	76	105	106
15	112	109	103	95	99	102	93	88	75	76	105	107
16	113	106	102	98	97	101	93	83	78	74	110	106
17	112	107	101	98	93	103	97	82	80	76	120	108
18	111	109	100	98	92	100	98	85	83	76	397	107
19	115	107	101	98	94	96	92	85	84	77	110	107
20	114	104	102	98	95	98	95	77	84	77	105	105
21	115	103	102	96	95	100	100	88	83	78	105	107
22	110	107	101	97	91	102	133	88	81	80	116	108
23	110	107	134	101	87	97	95	89	83	79	116	106
24	112	107	133	100	89	92	94	89	80	80	116	112
25	111	110	103	104	88	91	93	88	78	80	115	115
26	110	110	100	100	91	91	94	86	77	79	113	114
27	106	110	101	98	93	96	96	84	80	80	112	131
28	105	110	102	104	97	96	96	84	78	78	113	121
29	99	116	101	103	---	88	98	84	77	79	114	113
30	101	117	105	110	---	86	99	86	78	80	117	140
31	107	---	104	102	---	86	---	86	---	81	113	---
TOTAL	3346	3298	3590	3125	2666	3512	2854	2776	2423	2399	4194	3336
MEAN	108	110	116	101	95.2	113	95.1	89.5	80.8	77.4	135	111
MAX	115	117	379	110	100	447	133	101	94	81	760	140
MIN	99	103	98	95	87	86	81	77	75	73	81	104
AC-FT	6640	6540	7120	6200	5290	6970	5660	5510	4810	4760	8320	6620
CAL YR 1982	TOTAL	38730	MEAN	106	MAX	379	MIN	77	AC-FT	76820		
WTR YR 1983	TOTAL	37519	MEAN	103	MAX	760	MIN	73	AC-FT	74420		

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

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.

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, 73 mg/L); minimum, 1 mg/L Aug. 1, 1983.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
OCT 06...	1000	110	2200	7.2	18.0	1.8	20	588	130	64	240
NOV 01...	1230	105	2470	7.1	16.5	1.6	17	--	--	--	--
DEC 01...	0945	710	3050	7.2	10.0	3.0	29	--	--	--	--
JAN 05...	1300	100	2900	7.2	11.0	2.0	19	952	200	110	300
FEB 01...	1330	94	2400	7.2	11.5	1.6	16	--	--	--	--
MAR 02...	1530	98	2650	7.0	15.5	.8	9	--	--	--	--
APR 05...	1030	99	2800	7.2	14.5	3.5	37	882	190	99	300
MAY 03...	0830	101	2800	7.1	17.0	1.7	19	--	--	--	--
JUN 07...	1000	83	2600	7.3	22.5	2.0	25	--	--	--	--
JUL 06...	0700	86	--	7.2	24.5	2.5	32	597	140	60	250
AUG 01...	0945	85	--	7.1	25.0	3.1	40	--	--	--	--
SEP 14...	0845	110	2400	7.3	24.0	2.5	32	--	--	--	--

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, TOTAL (MG/L AS N)
OCT 06...	4.4	17	152	610	270	.80	21	1480	1444	440	.52
NOV 01...	--	--	--	--	--	--	--	--	--	--	1.2
DEC 01...	--	--	--	--	--	--	--	--	--	--	6.3
JAN 05...	4.3	21	141	930	400	.90	25	2120	2071	572	2.0
FEB 01...	--	--	--	--	--	--	--	--	--	--	1.8
MAR 02...	--	--	--	--	--	--	--	--	--	--	.43
APR 05...	4.5	20	148	890	370	.90	26	2030	1985	543	.90
MAY 03...	--	--	--	--	--	--	--	--	--	--	.49
JUN 07...	--	--	--	--	--	--	--	--	--	--	.19
JUL 06...	4.6	16	144	640	290	.70	20	1490	1503	346	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	.10
SEP 14...	--	--	--	--	--	--	--	--	--	--	.04

DATE	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 06...	.180	.70	12.0	4.0	16.0	17	.900	.830	3	.89
NOV 01...	.210	1.4	8.50	2.5	11.0	12	.680	--	50	14
DEC 01...	.660	7.0	3.70	2.3	6.00	13	.350	--	37	71
JAN 05...	.270	2.3	9.20	3.8	13.0	15	.750	.740	10	2.7
FEB 01...	.220	2.0	9.60	2.4	12.0	14	.640	--	4	1.0
MAR 02...	.170	.60	6.30	6.7	13.0	14	.970	--	3	.79
APR 05...	.300	1.2	8.50	1.3	9.80	11	.620	.590	4	1.1
MAY 03...	.210	.70	9.20	3.8	13.0	14	.740	--	4	1.1
JUN 07...	.210	.40	11.0	8.0	19.0	19	1.00	--	4	.90
JUL 06...	--	--	--	--	--	--	--	.740	6	1.4
AUG 01...	.100	.20	12.0	--	--	--	.970	--	1	.23
SEP 14...	.060	.10	11.0	3.0	14.0	14	.700	--	3	.89

LAS VEGAS VALLEY

55

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 mi², of which 1,586 mi² 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, stage-discharge relation indefinite Dec. 5 to May 23, no gage-height record Aug. 12 to Sept. 20. In closed basin above station, 2,150 acres are irrigated, mostly by pumping from ground water. Discharge includes sewage effluent.

AVERAGE DISCHARGE.--14 years, 80.2 ft³/s, 58,100 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s July 4, 1975, gage height, 12.32 ft, from indirect measurement of peak flow, site and datum then in use; minimum, 14 ft³/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 ft³/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 ft³/s, from rating curve extended above 300 ft³/s on basis of theoretical weir and culvert formulas, datum prior to June 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s Aug. 11, gage height, 10.44 ft; minimum daily, 36 ft³/s July 10.

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	105	111	207	120	125	107	104	120	103	94	104	123
2	107	113	192	126	120	116	103	120	106	92	107	125
3	108	116	154	118	120	350	104	120	103	89	102	123
4	109	116	143	117	118	388	111	118	98	90	101	122
5	108	114	118	117	108	116	121	116	97	97	101	121
6	107	112	111	114	111	100	116	118	95	101	101	120
7	108	111	118	114	109	102	121	118	101	98	101	118
8	106	114	120	109	111	101	123	116	101	96	101	117
9	101	121	96	112	112	96	122	114	97	88	107	114
10	103	121	120	112	109	101	122	110	98	86	134	113
11	106	120	147	116	109	103	122	110	98	87	943	114
12	108	117	112	116	109	102	121	112	98	93	179	115
13	113	116	113	109	112	101	122	112	101	94	115	115
14	113	120	112	110	113	97	123	108	94	94	110	116
15	117	118	112	112	117	98	122	106	88	94	119	116
16	118	117	109	109	113	97	120	106	93	92	132	115
17	118	111	111	108	107	97	122	106	96	92	173	117
18	118	116	107	108	108	102	120	106	98	94	417	117
19	120	116	109	112	111	97	116	105	98	95	134	117
20	121	111	111	113	112	102	118	100	98	95	136	114
21	122	109	111	114	112	106	117	102	98	97	138	117
22	117	112	112	117	107	109	159	103	95	100	125	118
23	116	114	109	120	100	107	135	108	94	100	125	115
24	116	112	165	122	102	106	120	107	98	100	125	122
25	117	114	115	124	101	109	118	107	90	100	124	124
26	116	114	108	120	102	112	118	103	87	100	122	124
27	113	114	109	113	106	114	118	101	90	101	121	141
28	112	114	111	122	109	118	118	98	94	100	122	127
29	103	120	111	118	---	117	118	98	93	101	123	119
30	103	123	115	132	---	109	120	102	94	100	126	145
31	106	---	119	130	---	108	---	103	---	101	122	---
TOTAL	3455	3457	3887	3604	3093	3788	3594	3378	2894	2961	4890	3604
MEAN	111	115	125	116	110	122	120	109	96.5	95.5	158	120
MAX	122	123	287	132	125	388	159	120	106	101	943	145
MIN	101	109	96	108	100	96	103	98	87	86	101	113
AC-FT	6850	6860	7710	7150	6130	7510	7130	6700	5740	5870	9700	7150
CAL YR 1982	TOTAL	39800	MEAN	109	MAX	346	MIN	76	AC-FT	78940		
WTR YR 1983	TOTAL	42605	MEAN	117	MAX	943	MIN	86	AC-FT	84510		

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 loss of recorder probes resulting from high flow in August 1983, 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, 28.5°C on several days in July 1981, and July 29-31, 1982; 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, 4,150 micromhos Mar. 3; minimum, 2,350 micromhos Jan. 2.

WATER TEMPERATURES: Maximum, 27.5°C July 5, 8, 22-24; minimum, 9.5°C Dec. 26-Jan. 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD DUCT- (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 CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT												
06...	1145	114	2760	7.7	17.5	7.8	86	19	K72	4100	825	200
NOV												
01...	1545	114	3000	7.8	17.0	8.2	90	24	K36	2900	--	--
DEC												
01...	0900	187	3400	7.8	13.0	9.2	93	78	580	K22000	--	--
JAN												
05...	1430	123	3000	7.9	12.0	10.2	99	19	K28	K700	1011	240
FEB												
01...	1215	132	2900	7.8	12.0	9.0	88	32	K13	1000	--	--
MAR												
03...	1530	502	4150	7.6	13.5	9.2	96	890	K1000	3200	1991	550
APR												
05...	1215	101	3100	8.0	15.5	8.7	93	36	K19	1200	1077	250
MAY												
03...	1000	137	2900	7.8	17.0	8.6	93	22	K21	2400	--	--
JUN												
07...	0845	109	2900	7.9	20.5	7.5	89	24	--	6500	--	--
JUL												
06...	0900	109	2550	7.7	23.5	7.4	93	25	530	14000	763	190
AUG												
01...	1130	108	2600	7.6	24.0	7.1	89	35	K140	11000	--	--
11...	1100	344	3800	7.6	25.5	8.6	111	1400	--	--	2009	590
SEP												
14...	1000	97	--	7.8	23.0	7.6	93	47	570	4900	--	--

K: NON-IDEAL COLONY COUNT.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	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)
OCT 06...	79	290	4.5	23	142	860	350	.80	20	1980	1916	609
NOV 01...	--	--	--	--	120	--	--	--	--	2110	--	649
DEC 01...	--	--	--	--	--	--	--	--	--	2600	--	1310
JAN 05...	100	290	4.1	25	129	1000	350	.80	20	2180	2111	724
FEB 01...	--	--	--	--	--	--	--	--	--	2110	--	752
MAR 03...	150	320	3.2	45	129	1900	380	.70	26	3500	3449	4050
APR 05...	110	310	4.2	24	144	1100	390	.90	30	2350	2301	641
MAY 03...	--	--	--	--	--	--	--	--	--	2120	--	784
JUN 07...	--	--	--	--	--	--	--	--	--	2070	--	609
JUL 06...	70	200	4.6	20	129	840	330	.70	25	1810	1833	533
AUG 01...	--	--	--	--	--	--	--	--	--	1890	--	551
SEP 11...	130	290	2.9	50	118	2000	310	1.0	26	--	3460	3220
SEP 14...	--	--	--	--	--	--	--	--	--	2140	--	560

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	2.1	1.00	3.1	2.80	2.2	5.00	8.1	1.00	.600	610	188	49
NOV 01...	2.7	1.20	3.9	2.30	2.7	5.00	8.9	.960	--	428	132	58
DEC 01...	2.3	.600	3.0	4.20	3.5	7.70	11	1.50	--	4660	2350	64
JAN 05...	3.1	.510	3.6	5.00	1.5	6.50	10	.840	.540	830	276	55
FEB 01...	3.5	.480	4.0	4.20	1.9	6.10	10	.890	--	582	207	55
MAR 03...	4.2	.290	4.5	1.80	11	13.0	18	28.0	.400	91800	124000	60
APR 05...	2.4	.580	3.0	3.40	3.0	6.40	9.4	1.00	.470	868	237	52
MAY 03...	1.8	.670	2.5	4.40	1.0	5.40	7.9	.630	--	654	242	48
JUN 07...	1.6	1.10	2.7	4.50	5.5	10.0	13	.800	--	263	77	--
JUL 06...	1.3	1.90	3.2	5.30	6.7	12.0	15	.880	.610	201	59	62
AUG 01...	1.6	2.20	3.8	4.90	--	--	--	.830	--	184	54	--
SEP 11...	4.7	.520	5.2	1.60	3.4	5.00	10	69.0	.240	113000	105000	66
SEP 14...	.60	1.20	1.8	7.00	3.0	10.0	12	1.10	--	1420	372	44

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	16.5	17.0	15.0	---	---	10.5	9.5	12.5	11.0	15.5	14.5
2	19.5	16.5	16.5	14.5	---	---	11.0	9.5	11.5	10.5	15.0	14.5
3	19.0	16.5	16.0	14.0	---	---	11.0	9.5	11.5	11.0	---	---
4	19.5	16.5	15.0	13.0	---	---	11.5	10.0	13.0	11.5	---	---
5	19.5	17.0	15.0	13.0	---	---	12.0	10.5	13.0	11.5	---	---
6	19.5	16.5	14.5	13.0	---	---	12.5	11.0	13.0	12.0	16.5	13.0
7	19.5	16.5	14.5	12.5	---	---	13.0	11.0	13.5	13.0	17.5	14.0
8	18.5	16.0	15.5	14.0	---	---	13.5	11.5	15.0	13.0	18.0	14.5
9	18.5	16.0	16.0	14.5	---	---	13.0	11.5	14.5	13.0	18.0	14.5
10	17.5	15.0	16.0	14.5	---	---	13.0	11.5	15.0	13.0	18.5	15.0
11	17.5	14.5	15.5	14.0	14.0	12.5	12.5	11.0	14.5	12.5	18.0	15.5
12	17.5	14.5	14.5	13.0	13.5	12.0	13.0	11.0	14.5	12.5	18.5	15.0
13	18.0	15.0	14.0	12.5	13.0	12.0	13.0	11.0	15.0	12.5	18.0	15.0
14	18.5	15.5	14.0	12.5	13.0	11.5	12.5	10.5	14.5	12.5	17.5	14.5
15	18.5	16.0	13.5	12.0	12.5	11.5	12.5	10.5	14.0	12.0	17.0	14.0
16	19.0	16.0	13.0	12.0	12.5	11.0	12.0	11.0	14.5	12.0	16.5	13.0
17	18.5	16.0	14.0	12.5	12.0	11.0	13.5	12.0	14.5	12.0	16.0	13.5
18	19.0	16.0	14.0	12.5	12.5	11.0	13.5	11.5	14.5	12.5	16.0	13.5
19	17.5	16.0	15.0	13.0	12.0	10.5	13.0	12.0	14.5	12.0	16.5	13.5
20	17.5	15.0	15.0	13.5	12.0	10.5	12.5	11.0	14.5	12.0	16.0	12.5
21	17.5	15.0	14.0	12.5	12.5	11.0	12.0	10.5	14.5	12.0	16.0	13.5
22	17.5	15.5	13.0	12.0	13.0	12.0	11.5	10.5	15.0	12.0	16.0	13.0
23	18.0	16.0	14.5	13.0	13.0	12.0	12.5	11.5	14.5	12.5	16.5	13.0
24	17.5	16.0	14.5	13.0	12.0	10.0	13.0	12.0	15.0	12.5	16.5	13.5
25	18.0	16.5	14.0	12.5	10.5	10.0	13.0	11.5	15.0	13.5	16.5	13.0
26	19.5	17.5	14.0	12.5	11.0	9.5	13.5	12.0	15.5	13.5	16.5	12.5
27	18.0	16.0	13.5	12.0	11.0	9.5	13.0	12.0	14.5	13.5	16.5	13.0
28	17.0	15.0	13.5	12.0	10.5	9.5	13.5	12.0	16.5	14.0	17.0	14.0
29	16.0	14.0	14.5	13.0	11.0	9.5	13.5	12.0	---	---	18.5	14.5
30	16.0	15.0	14.0	13.0	10.0	9.5	13.0	11.5	---	---	19.0	14.5
31	17.5	15.5	---	---	10.5	9.5	12.5	11.0	---	---	19.0	14.5
MONTH	19.5	14.0	17.0	12.0	14.0	9.5	13.5	9.5	16.5	10.5	19.0	12.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	14.0	17.5	15.0	24.0	18.5	25.5	20.5				
2	17.0	13.5	19.5	14.5	23.5	18.5	26.0	20.5				
3	16.0	13.0	20.5	15.0	23.5	18.5	26.5	21.0				
4	16.0	12.5	20.0	16.0	23.5	18.5	27.0	21.5				
5	16.0	12.5	---	---	24.5	19.0	27.5	22.0				
6	16.5	12.5	---	---	25.0	19.0	---	---				
7	16.5	12.5	---	---	20.5	19.5	27.0	23.0				
8	16.5	12.0	---	---	25.0	20.0	27.5	23.0				
9	18.0	13.0	---	---	25.0	19.5	26.5	21.5				
10	18.0	14.5	---	---	25.0	20.0	26.0	20.5				
11	17.0	13.5	---	---	24.5	20.0	26.0	20.5				
12	15.5	13.0	---	---	25.0	20.0	26.5	20.0				
13	16.5	12.5	---	---	24.0	19.0	26.5	20.5				
14	16.5	12.5	---	---	24.5	19.0	26.5	21.5				
15	17.5	13.0	---	---	24.0	18.5	26.5	21.5				
16	18.0	13.0	---	---	25.5	19.5	26.0	21.0				
17	18.5	13.5	---	---	25.5	20.5	26.0	20.5				
18	18.0	15.0	---	---	26.0	21.0	25.5	20.5				
19	19.5	15.0	21.0	16.5	26.0	20.5	26.5	20.5				
20	16.5	15.5	22.0	16.5	25.5	20.5	26.5	21.5				
21	19.0	15.5	22.0	16.5	25.5	20.0	25.5	22.5				
22	18.5	15.0	23.0	17.5	25.5	20.0	27.5	22.5				
23	20.0	15.0	23.5	18.0	25.5	20.0	27.5	22.5				
24	19.5	15.0	24.0	18.5	25.5	20.0	27.5	22.5				
25	19.5	14.5	24.5	19.0	25.5	20.0	27.0	22.5				
26	19.0	15.0	25.0	19.5	25.5	20.0	26.5	21.5				
27	19.0	15.5	25.5	19.5	25.5	20.5	26.0	21.0				
28	19.0	16.0	25.5	20.0	26.0	20.5	26.0	21.0				
29	19.0	16.0	25.0	20.5	25.5	20.5	26.5	21.0				
30	19.0	15.0	25.5	20.0	25.0	20.5	24.5	22.0				
31	---	---	24.5	19.5	---	---	27.0	23.0				
MONTH	20.0	12.0	25.5	14.5	26.0	18.5	27.5	20.0				
YEAR	27.5	9.5										

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	3250	2360	2970	2080	2940	2790
2					---	---	3350	2350	2960	2020	3000	2860
3					---	---	3310	3030	2990	2060	---	---
4					---	---	3260	3020	3040	2930	---	---
5					---	---	3300	2970	3040	2930	---	---
6					---	---	3150	3010	3050	2940	3440	3240
7					---	---	3130	2900	3020	2930	3490	3180
8					---	---	3140	2940	3040	2910	3440	3200
9					---	---	3080	2050	3010	2040	3430	3180
10					3460	3270	2980	2010	2990	2060	3360	3030
11					3690	3290	2910	2790	3000	2000	3400	3170
12					3380	3120	2900	2000	3020	2060	3430	3240
13					3300	3140	2070	2000	2990	2070	3350	3230
14					3260	3100	2090	2780	2970	2030	3400	3170
15					3200	3130	2000	2690	2090	2700	3370	3150
16					3240	3090	2900	2650	2990	2010	3370	3140
17					3310	3150	2000	2510	2970	2040	3310	3150
18					3270	3190	2590	2500	3050	2060	3290	3020
19					3270	3200	2620	2550	3040	2050	3230	3080
20					3200	3160	2600	2570	2970	2030	3100	3090
21					3340	3190	2730	2640	2900	2030	3260	3110
22					3440	3210	2740	2630	2910	2030	3320	3100
23					3500	3200	2790	2710	2970	2010	3490	3130
24					3670	3200	2770	2710	3040	2060	3260	3120
25					3540	3220	2030	2710	3050	2080	3260	3100
26					3520	3370	2050	2740	3080	2940	3220	3140
27					3520	3330	3020	2700	3060	2090	3260	3080
28					3560	3330	3060	2020	3050	2040	3160	3070
29					3490	3240	3010	2040	---	---	3360	2980
30					3470	3270	3000	2900	---	---	3230	3010
31					3370	3160	3010	2070	---	---	3250	3070
MONTH					3690	3090	3350	2350	3080	2700	3490	2790
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3240	3090	3070	2900	3670	3600	---	---				
2	3230	3120	2980	2050	3720	3660	---	---				
3	3210	3140	2940	2050	3760	3680	---	---				
4	3170	3000	2900	2900	3000	3620	---	---				
5	3140	2960	---	---	3590	2710	---	---				
6	3080	2980	---	---	2000	2730	---	---				
7	3150	2910	---	---	2940	2780	2660	2600				
8	3120	3020	---	---	2000	2010	2670	2550				
9	3190	3050	---	---	20							
10	3090	3020	---	---	2070	2010	2010	2700				
11	3100	2970	---	---	2900	2790	2740	2650				
12	2990	2950	---	---	2020	2730	2640	2550				
13	3020	2940	---	---	2710	2630	2570	2470				
14	2900	2080	---	---	2750	2600	2550	2460				
15	2900	2080	---	---	2750	2660	2610	2400				
16	2900	2050	---	---	2700	2670	---	---				
17	3000	2080	---	---	2740	2660	---	---				
18	2950	2030	---	---	2700	2620	---	---				
19	2910	2040	3270	3110	2630	2560	---	---				
20	2950	2070	3320	3160	---	---	---	---				
21	2950	2070	3320	3080	---	---	---	---				
22	3510	2920	3170	3080	---	---	2050	2730				
23	3260	3000	3120	3030	---	---	2010	2720				
24	3170	2990	3140	3090	---	---	2780	2700				
25	3090	2910	3220	3160	---	---	2770	2660				
26	2900	2090	3300	3240	---	---	2710	2620				
27	3010	2090	3390	3310	---	---	2740	2500				
28	2960	2070	3490	3410	---	---	2780	2630				
29	2910	2060	3610	3510	---	---	2070	2650				
30	3120	2080	3620	3530	---	---	2930	2760				
31	---	---	3610	3570	---	---	2080	2000				
MONTH	3510	2030	3620	2050	3080	2560	2930	2460				
YEAR	3000	2350										

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'58", long 114°44'13", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming that 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: 0.00 ft relative to local powerhouse datum and 0.40 ft below sea level (National Geodetic Vertical Datum of 1929; datum originally was sea level, prior to settling that accompanied construction and impoundment).

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on resurvey in 1963-64 by U.S. 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 895.0 ft (gage sills in outlet towers); usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,221.4 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 U.S. 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, 26,868,000 acre-ft July 24, gage height, 1,225.85 ft; minimum, 22,772,000 acre-ft Oct. 1, gage height, 1,198.96 ft.

COLORADO RIVER MAIN STEM

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

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22773	23085	23637	24163	23922	24427	24635	24614	24743	26067	26787	26262
2	22780	23093	23660	24156	23924	24451	24638	24630	24740	26149	26787	26241
3	22790	23105	23678	24148	23941	24456	24641	24617	24734	26235	26778	26217
4	22789	23115	23706	24141	23970	24476	24620	24608	24755	26315	26763	26194
5	22790	23128	23726	24124	24000	24513	24598	24597	24790	26387	26759	26167
6	22790	23152	23742	24105	24037	24536	24576	24586	24815	26478	26749	26140
7	22793	23175	23755	24084	24061	24556	24560	24597	24842	26528	26755	26115
8	22796	23188	23784	24082	24087	24568	24541	24611	24873	26579	26743	26089
9	22809	23200	23803	24069	24109	24592	24538	24594	24904	26615	26719	26067
10	22824	23214	23822	24057	24135	24614	24535	24574	24930	26640	26706	26044
11	22831	23242	23851	24046	24156	24629	24510	24571	24985	26658	26690	26019
12	22839	23263	23877	24033	24181	24644	24495	24557	25048	26683	26669	25993
13	22854	23295	23889	24012	24208	24656	24491	24554	25085	26714	26659	25971
14	22861	23316	23898	24007	24222	24668	24501	24568	25116	26731	26650	25952
15	22871	23332	23916	24018	24225	24665	24515	24598	25146	26759	26624	25932
16	22884	23348	23931	24027	24243	24675	24539	24600	25173	26781	26619	25916
17	22902	23365	23949	24018	24261	24684	24562	24586	25213	26808	26595	25893
18	22919	23376	23979	24006	24281	24679	24551	24589	25265	26831	26576	25872
19	22920	23401	24009	23988	24303	24691	24551	24592	25343	26850	26559	25858
20	22932	23435	24030	23973	24324	24705	24559	24595	25395	26855	26549	25835
21	22939	23455	24036	23959	24333	24706	24554	24611	25450	26850	26530	25811
22	22957	23474	24042	23949	24342	24688	24553	24643	25490	26842	26501	25792
23	22980	23486	24046	23947	24358	24682	24571	24643	25532	26855	26471	25771
24	22996	23501	24070	23953	24368	24673	24589	24640	25585	26864	26441	25755
25	23006	23518	24099	23940	24385	24662	24591	24643	25636	26848	26415	25741
26	23000	23539	24114	23956	24400	24671	24577	24647	25689	26832	26393	25719
27	23015	23557	24127	23946	24427	24679	24582	24661	25746	26821	26373	25705
28	23015	23579	24121	23950	24435	24675	24579	24681	25802	26803	26352	25685
29	23031	23597	24126	23947	---	24665	24577	24713	25885	26781	26327	25671
30	23047	23613	24133	23937	---	24650	24588	24742	25981	26792	26306	25658
31	23070	---	24151	23921	---	24638	---	24751	---	26802	26281	---
MAX	23070	23613	24151	24163	24435	24706	24641	24751	25981	26864	26787	26262
MIN	22773	23085	23637	23921	23922	24427	24491	24554	24734	26067	26281	25658
*	1201.06	1204.76	1208.37	1206.83	1210.25	1211.59	1211.26	1212.33	1220.27	1225.44	1222.17	1218.21
†	+304000	+543000	+538000	-230000	+514000	+203000	-50000	+163000+1.230000	+821000	-521000	-623000	
‡	11380	9340	8430	7820	7720	9730	11080	14290	16640	17840	13800	14350
**	6.6	6.4	4.9	2.4	2.4	3.6	5.6	7.2	8.5	10.3	7.3	5.6
††	80000	77900	60900	30100	30400	45900	71100	91600	109600	136900	96900	73800
CAL YR 1982	MAX	24151	MIN	22377	† +	1,483,000	‡	136,190	**	66.2	††	795,800
WTR YR 1983	MAX	26864	MIN	22773	† +	2,892,000	‡	142,420	**	70.8	††	905,100

* 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.

COLORADO RIVER MAIN STEM

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 1982 TO SEPTEMBER 1983

				TRANSPARENCY, SECCHI DISK (FEET)			
		DATE					
NOV							
29...		29...		31			
JAN							
03...		03...		42			
FEB							
28...		28...		46			
APR							
01...		01...		38			
MAY							
02...		02...		56			
JUNE							
01...		01...		15			
SEP							
29...		29...		29			
DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NFSS (MG/L AS CACO3)
NOV							
29...	0930	.00	1100	8.2	16.0	7.6	--
29...	0932	5.00	1100	--	16.0	--	--
29...	0935	10.0	1100	8.2	16.0	7.5	327
29...	0942	15.0	1100	--	16.0	--	--
29...	0949	20.0	1100	--	16.0	--	--
29...	0956	25.0	1100	8.2	16.0	7.5	--
29...	1003	30.0	1100	--	16.0	--	--
29...	1011	40.0	1100	--	16.0	--	--
29...	1019	50.0	1100	--	16.0	--	--
29...	1027	60.0	1100	--	16.0	--	--
29...	1035	70.0	1100	--	16.0	--	--
29...	1043	75.0	1100	8.2	16.0	7.5	327
29...	1051	80.0	1100	--	16.0	--	--
29...	1059	90.0	1100	--	16.0	--	--
29...	1107	100	1060	--	16.0	--	--
29...	1115	125	1050	8.0	15.5	7.0	--
29...	1123	150	1050	--	14.5	--	--
29...	1131	175	1050	8.0	14.0	6.2	--
29...	1139	200	1060	--	13.5	--	--
29...	1147	225	1060	8.0	13.5	6.2	--
29...	1155	250	1060	--	13.5	--	--
29...	1203	275	1060	8.0	13.0	6.2	328
29...	1211	293	1060	8.0	13.0	6.2	--
29...	1219	300	1060	--	12.5	--	--
29...	1227	325	1060	8.0	12.5	6.2	--
29...	1235	350	1060	--	12.0	--	--
29...	1243	375	1060	8.0	12.0	6.0	--
29...	1251	400	1070	--	12.0	--	--
29...	1259	425	1070	8.0	12.0	5.5	--
29...	1307	475	1070	8.0	12.0	5.5	328
29...	1315	487	1070	7.8	12.0	5.4	--

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV											
29...	0930	.00	--	--	--	--	--	130	0	110	--
29...	0935	10.0	80	31	100	2.5	5.0	140	0	110	300
29...	0956	25.0	--	--	--	--	--	150	0	120	--
29...	1043	75.0	80	31	100	2.5	4.0	150	0	120	300
29...	1115	125	--	--	--	--	--	150	0	120	--
29...	1131	175	--	--	--	--	--	160	0	130	--
29...	1147	225	--	--	--	--	--	160	0	130	--
29...	1203	275	82	30	98	2.4	4.0	160	0	130	280
29...	1211	293	--	--	--	--	--	160	0	130	--
29...	1227	325	--	--	--	--	--	160	0	130	--
29...	1243	375	--	--	--	--	--	160	0	130	--
29...	1259	425	--	--	--	--	--	160	0	130	--
29...	1307	475	82	30	100	2.5	4.0	160	0	130	290
29...	1315	487	--	--	--	--	--	160	0	130	--

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV											
29...	96	--	--	--	--	--	--	--	--	--	--
29...	96	.3	9.4	692	.28	<.020	.20	<.060	1.00	1.2	.010
29...	91	--	--	--	--	--	--	--	--	--	--
29...	91	.3	9.4	691	.28	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	85	.3	9.5	669	.44	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	86	--	--	--	--	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
29...	86	.3	9.7	682	.35	--	--	--	--	--	--
29...	86	--	--	--	--	<.020	.40	<.060	.80	1.2	.030

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
JAN							
03...	1005	.00	1060	8.0	14.0	7.6	--
03...	1012	10.0	1060	8.1	13.5	7.6	332
03...	1019	15.0	1080	--	13.5	--	--
03...	1026	20.0	1080	--	13.5	--	--
03...	1033	25.0	1080	8.1	13.5	7.6	--
03...	1040	30.0	1080	--	13.5	--	--
03...	1047	40.0	1080	--	13.0	--	--
03...	1054	50.0	1080	--	13.0	--	--
03...	1101	60.0	1080	--	13.0	--	--
03...	1108	70.0	1080	--	13.0	--	--
03...	1115	75.0	1080	8.2	13.0	7.6	--
03...	1122	80.0	1080	--	13.0	--	--
03...	1129	90.0	1080	--	13.0	--	--
03...	1136	100	1080	--	13.0	--	--
03...	1143	125	1100	8.1	13.0	7.6	--
03...	1150	150	1100	--	13.0	--	--
03...	1157	175	1100	8.2	13.0	7.6	--
03...	1204	200	1100	--	13.0	--	--
03...	1211	225	1100	8.2	13.0	7.6	--
03...	1218	275	1100	8.2	13.0	7.8	--
03...	1226	298	1060	8.0	13.0	6.1	--
03...	1234	300	1060	--	13.0	--	--
03...	1242	325	1060	8.0	13.0	5.8	328
03...	1250	350	1060	--	13.0	--	--
03...	1258	375	1060	7.9	13.0	5.8	--
03...	1306	400	1060	--	13.0	--	--
03...	1314	425	1060	7.9	13.0	5.6	--
03...	1322	475	1060	7.8	12.5	4.9	--
03...	1330	493	1080	7.7	12.0	3.2	--

DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB AS HCO3)
JAN								
03...	1005	.00	--	--	--	--	--	150
03...	1012	10.0	82	31	99	2.4	5.0	150
03...	1033	25.0	--	--	--	--	--	150
03...	1115	75.0	--	--	--	--	--	150
03...	1143	125	--	--	--	--	--	150
03...	1157	175	--	--	--	--	--	150
03...	1211	225	--	--	--	--	--	160
03...	1218	275	--	--	--	--	--	160
03...	1226	298	--	--	--	--	--	160
03...	1242	325	82	30	95	2.4	4.0	160
03...	1258	375	--	--	--	--	--	160
03...	1314	425	--	--	--	--	--	160
03...	1322	475	--	--	--	--	--	160
03...	1330	493	--	--	--	--	--	160

DATE	CAR- BONATE, FET-LAB (MG/L AS CO3)	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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
JAN								
03...	0	120	--	86	--	--	--	--
03...	0	120	300	86	.3	8.8	687	.29
03...	0	130	--	87	--	--	--	--
03...	0	120	--	87	--	--	--	--
03...	0	120	--	87	--	--	--	--
03...	0	120	--	87	--	--	--	--
03...	0	130	--	86	--	--	--	--
03...	0	130	--	86	--	--	--	--
03...	0	130	--	82	--	--	--	--
03...	0	130	280	82	.3	9.0	663	.35
03...	0	130	--	83	--	--	--	--
03...	0	130	--	83	--	--	--	--
03...	0	130	--	84	--	--	--	--
03...	0	130	--	84	--	--	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)		
FEB									
28...	0915	.00	1080	8.1	13.5	7.8	--		
28...	0921	5.00	1080	--	12.0	--	--		
28...	0927	10.0	1080	8.2	12.0	7.6	331		
28...	0933	15.0	1080	--	12.0	--	--		
28...	0939	20.0	1080	--	12.0	--	--		
28...	0945	25.0	1080	8.1	12.0	7.6	--		
28...	0951	30.0	1080	--	12.0	--	--		
28...	0957	40.0	1080	--	12.0	--	--		
28...	1003	50.0	1080	--	12.0	--	--		
28...	1010	60.0	1080	--	12.0	--	--		
28...	1017	70.0	1080	--	12.0	--	--		
28...	1024	75.0	1080	8.1	12.0	7.6	--		
28...	1031	80.0	1080	--	12.0	--	--		
28...	1038	90.0	1080	--	12.0	--	--		
28...	1045	100	1080	--	12.0	--	--		
28...	1052	125	1080	8.1	12.0	7.6	--		
28...	1059	150	1080	--	12.0	--	--		
28...	1106	175	1080	8.1	12.0	7.5	--		
28...	1113	200	1080	--	12.0	--	--		
28...	1120	225	1080	8.1	12.0	7.6	--		
28...	1127	275	1080	8.1	11.5	7.6	328		
28...	1134	300	1080	8.1	11.5	8.3	--		
28...	1141	325	1070	8.1	12.0	8.0	--		
28...	1148	350	1060	--	12.0	--	--		
28...	1155	375	1060	8.1	12.0	8.0	--		
28...	1202	400	1060	--	12.0	--	--		
28...	1209	425	1060	8.1	11.5	8.0	--		
28...	1216	450	1060	--	11.5	--	--		
28...	1223	475	1060	8.2	11.5	8.0	331		
28...	1230	496	1060	8.2	11.5	7.7	--		
		SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB AS HCO3)	
FEB									
28...	0915	.00	--	--	--	--	--	150	
28...	0927	10.0	83	30	98	2.4	5.0	150	
28...	0945	25.0	--	--	--	--	--	160	
28...	1024	75.0	--	--	--	--	--	160	
28...	1052	125	--	--	--	--	--	160	
28...	1106	175	--	--	--	--	--	160	
28...	1120	225	--	--	--	--	--	160	
28...	1127	275	82	30	99	2.5	5.0	160	
28...	1134	300	--	--	--	--	--	160	
28...	1141	325	--	--	--	--	--	160	
28...	1155	375	--	--	--	--	--	160	
28...	1209	425	--	--	--	--	--	160	
28...	1223	475	83	30	99	2.4	5.0	160	
28...	1230	496	--	--	--	--	--	160	
		CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LINITY LAR (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
FEB									
28...	0	120	--	87	--	--	--	--	--
28...	0	130	290	87	.3	8.9	677	.29	--
28...	0	130	--	88	--	--	--	--	--
28...	0	130	--	88	--	--	--	--	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	--	88	--	--	--	--	--
28...	0	130	290	86	.3	9.0	681	.23	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	--	87	--	--	--	--	--
28...	0	130	290	86	.3	8.9	682	.23	--
28...	0	130	--	87	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
APR							
01...	1030	10.0	1060	8.1	15.0	10.5	--
01...	1036	5.00	1060	--	15.0	--	--
01...	1042	10.0	1080	8.2	15.0	10.5	331
01...	1048	20.0	1080	--	15.0	--	--
01...	1054	25.0	1080	8.2	14.5	10.5	--
01...	1100	30.0	1100	--	14.5	--	--
01...	1106	40.0	1100	--	14.5	--	--
01...	1112	50.0	1100	--	14.5	--	--
01...	1118	60.0	1100	--	14.5	--	--
01...	1124	70.0	1100	--	14.5	--	--
01...	1130	75.0	1100	8.2	14.5	10.5	--
01...	1136	80.0	1100	--	14.5	--	--
01...	1142	90.0	1100	--	14.5	--	--
01...	1148	100	1100	--	14.5	--	--
01...	1154	125	1100	8.2	14.5	9.2	--
01...	1200	150	1100	--	14.0	--	--
01...	1207	175	1100	8.1	13.5	9.2	--
01...	1214	200	1100	--	13.5	--	--
01...	1221	225	1100	8.1	13.5	8.3	--
01...	1228	250	1100	--	13.0	--	--
01...	1235	300	1100	--	13.0	--	--
01...	1242	325	1100	8.0	12.0	8.6	331
01...	1249	350	1100	--	12.0	--	--
01...	1256	375	1100	8.0	12.0	8.6	--
01...	1303	400	1100	--	12.0	--	--
01...	1310	425	1100	8.0	12.0	9.1	--
01...	1317	450	1100	--	11.5	--	--
01...	1324	475	1100	--	11.5	--	--
01...	1330	498	1100	8.2	11.5	9.1	--

DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)
APR								
01...	1042	10.0	83	30	100	2.5	5.0	150
01...	1054	25.0	--	--	--	--	--	160
01...	1130	75.0	--	--	--	--	--	160
01...	1154	125	--	--	--	--	--	150
01...	1207	175	--	--	--	--	--	150
01...	1221	225	--	--	--	--	--	150
01...	1242	325	83	30	100	2.5	5.0	160
01...	1256	375	--	--	--	--	--	160
01...	1310	425	--	--	--	--	--	160
01...	1324	475	--	--	--	--	--	160

DATE	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LINEITY 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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
APR								
01...	0	120	290	88	.4	9.0	681	.33
01...	0	130	--	89	--	--	--	--
01...	0	130	--	89	--	--	--	--
01...	0	130	--	89	--	--	--	--
01...	0	130	--	89	--	--	--	--
01...	0	130	--	89	--	--	--	--
01...	0	130	280	89	.4	8.9	677	.36
01...	0	130	--	88	--	--	--	--
01...	0	130	--	87	--	--	--	--
01...	0	130	--	87	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE LAR (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CaCO3)
MAY							
02...	1020	.00	1090	8.4	16.5	8.4	--
02...	1025	5.00	--	--	16.0	--	--
02...	1030	10.0	1090	8.3	16.0	8.3	338
02...	1035	15.0	--	--	16.0	--	--
02...	1040	20.0	--	--	16.0	--	--
02...	1045	25.0	1100	8.3	16.0	8.3	--
02...	1050	30.0	--	--	16.0	--	--
02...	1055	40.0	--	--	15.5	--	--
02...	1100	50.0	--	--	15.5	--	--
02...	1105	60.0	--	--	14.5	--	--
02...	1110	70.0	--	--	14.5	--	--
02...	1115	75.0	1100	8.2	14.0	8.0	--
02...	1120	80.0	--	--	14.0	--	--
02...	1125	90.0	--	--	14.0	--	--
02...	1130	100	--	--	14.0	--	--
02...	1135	125	1080	8.2	14.0	7.7	--
02...	1140	150	--	--	13.5	--	--
02...	1145	175	1090	8.1	13.5	7.4	--
02...	1150	200	--	--	13.0	--	--
02...	1155	225	1080	8.1	13.0	7.4	--
02...	1201	250	--	--	12.0	--	--
02...	1207	275	1080	8.1	12.0	7.3	328
02...	1213	300	1070	8.1	12.0	7.3	--
02...	1219	325	1060	8.1	11.5	7.2	--
02...	1225	350	--	--	11.5	--	--
02...	1231	375	1080	8.1	11.5	7.4	--
02...	1237	400	--	--	11.5	--	--
02...	1243	425	1080	8.1	11.5	7.2	--
02...	1249	450	--	--	11.5	--	--
02...	1255	475	1070	8.1	11.5	7.2	325
02...	1300	498	1070	8.1	11.5	7.2	--

DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)
MAY								
02...	1020	.00	--	--	--	--	--	--
02...	1030	10.0	86	30	98	2.4	4.0	150
02...	1045	25.0	--	--	--	--	--	150
02...	1115	75.0	--	--	--	--	--	150
02...	1135	125	--	--	--	--	--	150
02...	1145	175	--	--	--	--	--	160
02...	1155	225	--	--	--	--	--	160
02...	1207	275	85	28	96	2.4	4.0	160
02...	1213	300	--	--	--	--	--	160
02...	1219	325	--	--	--	--	--	160
02...	1231	375	--	--	--	--	--	160
02...	1243	425	--	--	--	--	--	160
02...	1255	475	84	28	96	2.4	4.0	160
02...	1300	498	--	--	--	--	--	160

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LINTY 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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAY								
02...	--	130	--	87	--	--	--	--
02...	0	130	290	87	.4	8.5	679	.21
02...	0	130	--	87	--	--	--	--
02...	0	130	--	87	--	--	--	--
02...	0	130	--	87	--	--	--	--
02...	0	130	--	88	--	--	--	--
02...	0	130	--	85	--	--	--	--
02...	0	130	280	84	.3	8.5	666	.28
02...	0	130	--	84	--	--	--	--
02...	0	130	--	84	--	--	--	--
02...	0	130	--	85	--	--	--	--
02...	0	130	--	85	--	--	--	--
02...	0	130	280	84	.3	8.5	664	.21
02...	0	140	--	84	--	--	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
JUN							
01...	0930	.00	1070	8.4	19.0	10.0	--
01...	0937	5.00	--	--	19.0	--	--
01...	0944	10.0	1080	8.6	19.0	10.0	336
01...	0951	20.0	--	--	18.5	--	--
01...	0958	25.0	1080	8.6	18.5	10.0	--
01...	1005	30.0	--	--	18.5	--	--
01...	1013	40.0	--	--	18.0	--	--
01...	1021	50.0	--	--	18.0	--	--
01...	1029	60.0	--	--	17.0	--	--
01...	1037	70.0	--	--	16.5	--	--
01...	1045	75.0	1090	8.2	16.5	8.7	--
01...	1053	80.0	--	--	15.5	--	--
01...	1101	90.0	--	--	15.0	--	--
01...	1109	100	--	--	14.5	--	--
01...	1117	125	1080	8.3	14.5	8.5	341
01...	1125	150	--	--	14.5	--	--
01...	1133	175	1080	8.2	14.0	8.5	--
01...	1141	200	--	--	13.5	--	--
01...	1149	225	1080	8.1	13.5	8.3	--
01...	1157	275	1070	8.0	12.5	8.3	--
01...	1205	300	1060	8.0	12.0	8.3	--
01...	1212	325	1060	8.2	12.0	8.4	333
01...	1219	350	--	--	11.5	--	--
01...	1226	375	1080	8.0	11.5	8.1	--
01...	1233	400	--	--	11.5	--	--
01...	1240	425	1060	8.1	11.5	8.1	--
01...	1247	450	--	--	11.5	--	--
01...	1254	475	1060	8.0	11.5	7.8	--
01...	1300	498	1060	8.1	11.5	7.8	--

DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUN											
01...	0930	.00	--	--	--	--	--	--	--	120	--
01...	0944	10.0	85	30	100	2.5	4.0	--	--	120	300
01...	0958	25.0	--	--	--	--	--	--	--	120	--
01...	1045	75.0	--	--	--	--	--	160	0	130	--
01...	1117	125	87	30	100	2.4	4.0	160	0	130	300
01...	1133	175	--	--	--	--	--	160	0	130	--
01...	1149	225	--	--	--	--	--	160	0	130	--
01...	1157	275	--	--	--	--	--	160	0	130	--
01...	1205	300	--	--	--	--	--	160	0	130	--
01...	1212	325	87	28	100	2.5	4.0	160	0	130	280
01...	1226	375	--	--	--	--	--	160	0	130	--
01...	1240	425	--	--	--	--	--	160	0	130	--
01...	1254	475	--	--	--	--	--	160	0	130	--
01...	1300	498	--	--	--	--	--	160	0	140	--

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN											
01...	88	--	--	--	--	--	--	--	--	--	--
01...	89	.3	8.8	690	.20	<.020	.10	<.060	.70	.80	.020
01...	88	--	--	--	--	--	--	--	--	--	--
01...	87	--	--	--	--	--	--	--	--	--	--
01...	87	.3	8.7	697	.32	--	--	--	--	--	--
01...	87	--	--	--	--	--	--	--	--	--	--
01...	88	--	--	--	--	--	--	--	--	--	--
01...	86	--	--	--	--	--	--	--	--	--	--
01...	86	--	--	--	--	--	--	--	--	--	--
01...	85	.3	8.7	673	.34	--	--	--	--	--	--
01...	86	--	--	--	--	--	--	--	--	--	--
01...	85	--	--	--	--	--	--	--	--	--	--
01...	85	--	--	--	--	--	--	--	--	--	--
01...	85	--	--	--	--	<.020	.30	<.060	.40	.70	.010

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

						SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)		PH, FIELD (STAND- ARD UNITS)		TEMPER- ATURE, WATER (DEG C)		OXYGEN, DIS- SOLVED (MG/L)		HARD- NESS (MG/L AS CACO3)	
		DATE	TIME	SAM- PLING DEPTH (FEET)											
SEP															
		29...	0820	.00	--			7.9		26.0		7.9		--	
		29...	0828	10.0	1060			8.2		26.0		8.0		333	
		29...	0836	20.0	--			--		25.0		--		--	
		29...	0844	25.0	1070			8.7		25.0		7.9		--	
		29...	0852	30.0	--			--		25.0		--		--	
		29...	0900	40.0	--			--		25.0		--		--	
		29...	0908	50.0	--			--		24.0		--		--	
		29...	0916	60.0	--			--		22.0		--		--	
		29...	0924	70.0	--			--		21.0		--		--	
		29...	0932	75.0	945			8.4		19.5		7.1		--	
		29...	0940	80.0	--			--		19.0		--		--	
		29...	0948	90.0	--			--		18.5		--		--	
		29...	0956	100	--			--		18.0		--		--	
		29...	1004	125	946			8.1		18.0		6.5		303	
		29...	1008	150	--			--		17.0		--		--	
		29...	1016	175	1010			8.1		16.5		6.6		320	
		29...	1024	200	--			--		16.0		--		--	
		29...	1032	225	1060			8.2		15.5		7.3		--	
		29...	1040	275	1050			8.2		14.5		7.2		--	
		29...	1048	300	--			8.3		13.5		7.6		--	
		29...	1056	325	1050			8.2		13.0		7.2		327	
		29...	1104	350	--			--		12.5		--		--	
		29...	1108	375	1050			8.2		12.0		7.3		--	
		29...	1116	400	--			--		12.0		--		--	
		29...	1124	425	1030			8.2		12.0		7.4		322	
		29...	1132	450	--			--		12.0		--		--	
		29...	1140	475	1050			8.3		11.5		7.2		--	
		29...	1148	498	--			--		11.5		--		--	
		29...	1200	505	--			7.7		11.5		6.2		--	
DATE	TIME	SAM- PLING DEPTH (FEET)	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)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)			
SEP															
29...	0828	10.0	84	30	98	2.4	4.5	140	0	110	310	84			
29...	0844	25.0	--	--	--	--	--	--	--	110	--	83			
29...	0932	75.0	--	--	--	--	--	--	--	140	--	68			
29...	1004	125	77	27	87	2.2	3.3	170	0	140	250	67			
29...	1016	175	81	29	96	2.4	4.2	160	0	130	280	79			
29...	1032	225	--	--	--	--	--	--	--	130	--	84			
29...	1040	275	--	--	--	--	--	--	--	140	--	84			
29...	1056	325	83	29	95	2.4	4.3	160	0	130	280	83			
29...	1108	375	--	--	--	--	--	--	--	140	--	83			
29...	1124	425	82	29	98	2.5	4.0	160	0	130	280	80			
29...	1140	475	--	--	--	--	--	--	--	140	--	83			
29...	1200	505	--	--	--	--	--	--	--	--	--	--			
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)			
SEP															
29...		.3	8.2	689	.35	<.020	<.10	.040	.36	.40	--	.050			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		.3	7.7	609	1.45	--	--	--	--	--	--	--			
29...		.3	8.2	662	1.30	--	--	--	--	--	--	--			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		.3	8.6	668	1.30	--	--	--	--	--	--	--			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		.3	8.2	665	1.20	--	--	--	--	--	--	--			
29...		--	--	--	--	--	--	--	--	--	--	--			
29...		--	--	--	--	<.020	.30	.010	.59	.60	.90	.040			

COLORADO RIVER MAIN STEM

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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 mi², approximately, including 3,959 mi² 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.--49 years (water years 1935-83), 13,250 ft³/s, 9,600,000 acre-ft/yr, unadjusted for storage in Lake Mead.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50,800 ft³/s July 29, 1903; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily, 152 ft³/s Feb. 10, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 50,800 ft³/s July 29; minimum daily, 1,550 ft³/s Oct. 10.

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	4940	8750	8910	10300	9660	15300	15300	11600	26800	30800	45700	36900
2	3010	7830	7900	13500	10600	13000	11900	22100	28100	30900	42000	38100
3	3250	9320	8630	18200	9990	17400	9210	23900	28800	39100	43800	37500
4	6950	10200	3910	22400	8270	7730	20000	23900	23300	40700	41000	37800
5	6460	10300	4170	23400	5960	3700	20400	25300	17700	42700	41500	38500
6	6580	6980	7670	24300	4650	4450	22400	22300	27700	43500	34400	38500
7	5410	6330	8540	25100	9110	5360	23200	15800	27900	44400	36200	38300
8	6070	8880	8560	19500	8460	3780	23100	11600	33200	42800	45500	38000
9	2170	10500	8970	18800	7860	4900	11300	24500	32700	41700	44900	38300
10	1550	8090	7420	16400	7600	4670	9720	23900	34500	40400	44900	37700
11	5130	7220	5860	17800	7260	6390	24600	24100	20200	40200	45500	38200
12	4980	6590	5110	19400	5140	4000	24600	26700	16700	38300	43100	38300
13	6380	5250	6500	19900	4390	3300	21500	26100	31100	39900	32400	37500
14	8180	6010	7970	17200	6580	5310	18100	12100	30600	40900	32200	35100
15	8400	7190	8380	12700	7920	9910	13800	10400	34900	39300	40300	35100
16	6710	5070	9300	13700	5210	8660	8730	21000	38800	40900	39600	35200
17	5360	5550	10600	17200	6120	10100	9410	23300	38200	40100	39000	35500
18	8910	5620	6650	19100	5570	12200	19600	23000	30600	40900	39000	35500
19	8410	4310	4870	20900	4490	6170	19400	23800	17800	41300	37300	35000
20	9230	2700	6070	24600	3530	5300	19600	22800	31900	45100	32300	35200
21	8280	3640	8200	25300	4950	12900	19700	15500	32000	44100	35800	35300
22	5020	3000	11800	23800	5170	11700	21900	11400	30600	44900	38900	35400
23	5970	5660	13100	20000	6280	17600	11200	21700	38100	33100	42100	36500
24	3690	4590	5910	23500	6600	19400	8510	22900	39300	36200	42000	36700
25	6560	3380	4080	19200	6720	17600	18900	23600	38400	48100	38400	36900
26	8840	4710	3750	16800	4750	10500	21800	23700	37700	48200	36800	36700
27	6920	4320	6750	20700	3500	8480	24100	23300	39000	48200	35700	36300
28	11000	3200	8540	16200	7510	16000	22100	15200	38700	49700	35300	36300
29	8550	7220	8320	17800	---	15200	24900	10200	38900	50800	38600	35900
30	9230	8880	10000	16400	---	18900	15400	10800	38800	36900	38500	36200
31	5770	---	7320	18900	---	19500	---	16500	---	37800	38300	---
TOTAL	197910	191290	233810	593000	183850	319410	534380	613000	951000	1297900	1221000	1102400
MEAN	6384	6376	7542	19130	6566	10300	17810	19770	31700	41870	39390	36750
MAX	11000	10500	13100	25300	10600	19500	24900	26700	39300	50800	45700	38500
MIN	1550	2700	3750	10300	3500	3300	8510	10200	16700	33100	32200	35000
AC-FT	392600	379400	463300	1176000	364700	633500	1060000	1216000	1886000	2574000	2422000	2187000
CAL YR 1982	TOTAL	3757900	MEAN	10300	MAX	23200	MIN	1390	AC-FT	7454000		
WTR YR 1983	TOTAL	7438950	MEAN	20380	MAX	50800	MIN	1550	AC-FT	14760000		

COLORADO RIVER MAIN STEM

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 2 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 2 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 2 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 probes which were not submerged (Oct. 1-Dec. 14), non-representative data collection due to recorder location upstream from spillway discharges to river (July 3-Aug. 5), and recorder which malfunctioned (Aug. 6-Sept. 30).

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE OCTOBER 1970.--

SPECIFIC CONDUCTANCES: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 950 micromhos Sept. 23, 1983.

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, 1,110 micromhos on many days; minimum, 950 micromhos Sept. 23.

WATER TEMPERATURES: Maximum, 21.5°C July 23; minimum, 11.0°C on several days in April and May.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 03...	1200	8690	1080	7.8	13.0	.50	8.3	80	16	<2	<2
JAN 07...	1500	25600	1100	8.2	12.5	.30	8.8	84	11	K2	K26
MAR 05...	1500	2470	1090	8.1	12.0	1.0	10.9	104	17	<2	K4
MAY 05...	1130	32900	1090	8.0	11.5	.50	8.8	83	<10	<2	K5
JUL 23...	1200	35000	1100	8.2	21.5	.60	11.3	132	20	K2	K2
SEP 23...	1030	36400	950	7.9	14.0	.70	9.6	96	13	<2	K3

K: NON-IDEAL COLONY COUNT

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	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 03...	309	77	28	96	2.5	4.3	133	300	84	.30	8.7
JAN 07...	321	79	30	100	2.5	4.7	129	300	91	.30	8.7
MAR 05...	322	79	30	100	2.5	4.6	134	280	90	.40	8.7
MAY 05...	321	80	29	100	2.5	4.3	133	290	88	.30	8.9
JUL 23...	321	79	30	100	2.5	4.9	126	290	90	.30	8.4
SEP 23...	323	81	29	98	2.5	4.4	135	290	82	.30	8.6

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, DIS- SOLVED (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 (MG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)
NOV 03...	701	679	16400	.35	<.060	.40	<.010	<.010	<.010	<10	3
JAN 07...	710	691	49000	.27	<.060	.50	.010	.010	<.010	--	--
MAR 05...	676	675	4510	.27	.100	.40	.010	.020	.020	10	3
MAY 05...	685	682	60800	.30	.100	.30	.010	.010	<.010	10	3
JUL 23...	--	678	64100	.16	.090	.70	.040	.030	.010	--	--
SEP 23...	681	676	66900	.33	.090	.30	.010	.010	.020	<10	2

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 03...	100	1	<1	<1	<3	1	<3	<1	63	<1
JAN 07...	--	--	--	--	--	--	--	--	--	--
MAR 05...	110	1	<1	<1	<3	1	8	1	57	<1
MAY 05...	110	<1	<1	<1	<3	1	<3	2	60	2
JUL 23...	--	--	--	--	--	--	--	--	--	--
SEP 23...	110	<1	<1	<1	<3	1	3	<1	52	1

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 03...	.2	<10	2	3	<1	1100	<6.0	6	18	422
JAN 07...	--	--	--	--	--	--	--	--	6	414
MAR 05...	<.1	<10	4	3	<1	1200	<6.0	9	2	13
MAY 05...	.1	<10	2	4	<1	1100	<6.0	6	--	--
JUL 23...	--	--	--	--	--	--	--	--	6	567
SEP 23...	.9	<10	3	3	<1	1100	<6.0	5	2	197

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1					---	---	1100	1090	1100	1090	1110	1100
2					---	---	1100	1090	1100	1090	1110	1090
3					---	---	1100	1090	1100	1090	1100	1090
4					---	---	1110	1100	1100	1090	1100	1090
5					---	---	1110	1090	1100	1090	1100	1090
6					---	---	1110	1090	1100	1090	1100	1090
7					---	---	1110	1100	1100	1080	1100	1090
8					---	---	1110	1100	1090	1080	1100	1080
9					---	---	1110	1100	1100	1080	1100	1090
10					---	---	1110	1100	1100	1090	1100	1090
11					---	---	1110	1100	1100	1090	1100	1080
12					---	---	1110	1100	1100	1090	1100	1080
13					---	---	1110	1100	1100	1080	1100	1080
14					---	---	1110	1100	1100	1080	1100	1080
15					1070	1060	1110	1100	1100	1090	1100	1080
16					1070	1060	1110	1100	1100	1090	1100	1080
17					1070	1060	1110	1100	1100	1090	1090	1080
18					1070	1060	1110	1100	1110	1090	1100	1080
19					1070	1050	1110	1100	1110	1090	1110	1090
20					1070	1050	1110	1100	1110	1090	1100	1090
21					1080	1060	1110	1100	1110	1100	1100	1080
22					1070	1060	1110	1100	1100	1090	1100	1080
23					1090	1060	1110	1100	1110	1090	1100	1090
24					1100	1070	1110	1100	1100	1090	1100	1090
25					1090	1070	1100	1090	1100	1090	1100	1090
26					1080	1060	1100	1090	1100	1080	1100	1090
27					1080	1070	1100	1090	1090	1080	1100	1090
28					1100	1080	1100	1090	1100	1090	1100	1090
29					1100	1080	1100	1090	---	---	1100	1090
30					1100	1080	1100	1090	---	---	1100	1090
31					1110	1090	1100	1090	---	---	1100	1080
MONTH					1110	1050	1110	1090	1110	1080	1110	1080

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	1100	1080	1100	1090	1100	1090	1100	1080				
2	1100	1080	1100	1090	1100	1090	1100	1090				
3	1100	1090	1100	1090	1100	1090	1100	1080				
4	1100	1090	1100	1080	1100	1090	1090	1090				
5	1100	1090	1100	1080	1100	1090	1100	1080				
6	1100	1090	1100	1080	1100	1090	1100	1080				
7	1100	1090	1100	1090	1100	1090	1090	1080				
8	1100	1090	1100	1090	1100	1090	1090	1080				
9	1100	1090	1100	1080	1100	1090	1090	1080				
10	1100	1090	1100	1080	1100	1090	1090	1080				
11	1100	1090	1100	1090	1100	1090	1090	1080				
12	1100	1090	1100	1090	1100	1080	1090	1080				
13	1100	1090	1100	1090	1100	1090	1090	1080				
14	1100	1080	1100	1080	1100	1090	1090	1080				
15	1100	1090	1100	1090	1100	1090	1090	1080				
16	1100	1090	1100	1090	1100	1090	1110	1080				
17	1100	1090	1100	1090	1100	1090	1100	1080				
18	1100	1090	1100	1090	1100	1090	1100	1080				
19	1100	1090	1100	1090	1100	1090	1090	1080				
20	1100	1090	1100	1090	1100	1090	1090	1080				
21	1100	1090	1100	1090	1100	1090	1100	1080				
22	1100	1090	1100	1090	1100	1090	1100	1080				
23	1100	1080	1100	1090	1100	1090	1110	1080				
24	1100	1090	1100	1090	1100	1090	1110	1080				
25	1100	1080	1100	1090	1100	1090	1090	1080				
26	1110	1090	1100	1090	1100	1090	1090	1070				
27	1100	1090	1100	1090	1100	1090	1090	1080				
28	1100	1090	1100	1090	1100	1090	1090	1080				
29	1090	1080	1100	1090	1100	1090	1090	1080				
30	1100	1090	1100	1090	1100	1080	1090	1080				
31	---	---	1100	1090	---	---	1090	1070				
MONTH	1110	1080	1100	1080	1100	1080	1110	1070				
YEAR	1110	1050										

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

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, 1,802,000 acre-ft June 25, altitude 646.72 ft; minimum contents, 1,361,000 acre-ft Oct. 25, altitude 630.08 ft.

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

630	1,359,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420000	1407000	1519000	1641000	1700000	1662000	1718000	1631000	1643000	1777000	1763000	1747000
2	1408000	1413000	1526000	1645000	1695000	1685000	1709000	1634000	1654000	1768000	1764000	1744000
3	1404000	1419000	1530000	1646000	1698000	1713000	1704000	1641000	1662000	1760000	1768000	1738000
4	1399000	1428000	1525000	1653000	1692000	1722000	1708000	1647000	1660000	1754000	1766000	1732000
5	1397000	1432000	1525000	1661000	1691000	1724000	1715000	1658000	1649000	1753000	1767000	1728000
6	1391000	1433000	1525000	1672000	1689000	1728000	1719000	1664000	1654000	1753000	1753000	1727000
7	1393000	1435000	1535000	1688000	1700000	1735000	1726000	1658000	1657000	1755000	1745000	1726000
8	1389000	1441000	1536000	1691000	1710000	1737000	1732000	1643000	1673000	1754000	1753000	1723000
9	1384000	1450000	1546000	1701000	1720000	1735000	1719000	1652000	1689000	1754000	1766000	1720000
10	1376000	1459000	1551000	1698000	1729000	1726000	1702000	1663000	1709000	1750000	1775000	1717000
11	1375000	1470000	1555000	1697000	1736000	1717000	1709000	1670000	1701000	1745000	1787000	1714000
12	1370000	1478000	1556000	1698000	1738000	1704000	1720000	1683000	1688000	1737000	1795000	1713000
13	1368000	1480000	1562000	1701000	1743000	1696000	1726000	1697000	1699000	1732000	1783000	1711000
14	1368000	1481000	1568000	1698000	1743000	1685000	1725000	1686000	1709000	1728000	1766000	1703000
15	1370000	1485000	1575000	1686000	1744000	1680000	1714000	1672000	1727000	1723000	1770000	1694000
16	1367000	1484000	1584000	1677000	1744000	1667000	1695000	1678000	1753000	1721000	1770000	1688000
17	1368000	1484000	1597000	1674000	1740000	1662000	1675000	1682000	1780000	1716000	1773000	1680000
18	1370000	1486000	1603000	1675000	1733000	1657000	1675000	1688000	1796000	1713000	1777000	1673000
19	1371000	1489000	1603000	1678000	1725000	1640000	1675000	1699000	1783000	1711000	1777000	1666000
20	1374000	1487000	1607000	1689000	1722000	1630000	1675000	1702000	1788000	1717000	1767000	1657000
21	1375000	1485000	1616000	1701000	1709000	1634000	1677000	1693000	1792000	1723000	1763000	1649000
22	1370000	1486000	1631000	1711000	1699000	1637000	1683000	1677000	1800000	1729000	1766000	1641000
23	1366000	1490000	1653000	1715000	1689000	1647000	1668000	1682000	1800000	1714000	1774000	1636000
24	1364000	1491000	1660000	1723000	1683000	1664000	1647000	1689000	1801000	1704000	1783000	1632000
25	1362000	1493000	1658000	1726000	1670000	1676000	1648000	1700000	1800000	1715000	1785000	1627000
26	1371000	1494000	1655000	1718000	1658000	1671000	1650000	1702000	1797000	1728000	1781000	1623000
27	1374000	1496000	1662000	1722000	1652000	1667000	1654000	1701000	1796000	1738000	1776000	1616000
28	1386000	1496000	1666000	1717000	1647000	1674000	1649000	1685000	1794000	1754000	1768000	1610000
29	1392000	1499000	1665000	1714000	---	1678000	1651000	1665000	1789000	1770000	1768000	1606000
30	1401000	1508000	1664000	1709000	---	1694000	1644000	1644000	1784000	1763000	1763000	1600000
31	1402000	---	1646000	1707000	---	1716000	---	1634000	---	1756000	1756000	---
MAX	1420000	1508000	1666000	1726000	1744000	1737000	1732000	1702000	1801000	1777000	1795000	1747000
MIN	1362000	1407000	1519000	1641000	1647000	1630000	1644000	1631000	1643000	1704000	1745000	1600000
†	631.74	635.87	641.06	643.31	641.11	643.62	640.99	640.60	646.08	645.09	645.08	639.34
‡	-24000	+106000	+138000	+61000	-60000	+69000	-72000	-10000	+150000	-28000	0	-156000
CAL YR 1982	MEAN	1597000	MAX	1806000	MIN	1362000	‡	+68000				
WTR YR 1983	MEAN	1651000	MAX	1801000	MIN	1362000	‡	+174000				

† Altitude, in feet, at end of month.

‡ Change in storage, in acre-feet.

COLORADO RIVER MAIN STEM

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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 mi², approximately, including 3,959 mi² 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 10.00 ft 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.--34 years (water years 1950-83), 12,650 ft³/s, 9,165,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft³/s June 20, 1906; minimum daily, 2,850 ft³/s Jan. 5, 1906. 1949-83: Maximum discharge, 46,200 ft³/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 ft³/s Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,200 ft³/s July 2, altitude, 509.48 ft; minimum daily discharge, 1,960 ft Nov. 12.

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	8720	5330	4000	12000	15600	7180	13800	19800	21900	43900	43600	41600
2	9230	4850	3930	10100	13100	3630	15800	20100	22400	45100	43900	40900
3	5190	5290	6390	17800	10400	3700	11900	20100	24900	45000	43800	40300
4	8670	5300	6190	18300	10500	3200	17900	20100	24900	45000	43700	40100
5	8640	7180	3840	18500	7510	2190	19000	20100	24900	44800	43700	40300
6	7680	6810	6550	18500	5560	2210	19400	19900	24900	44800	43500	39500
7	5880	4880	5740	18400	3410	2220	19400	20000	24900	44900	41300	38900
8	7720	5410	5650	18400	3410	2200	19500	20100	24900	44800	41100	39000
9	5090	5410	3780	14200	3300	6230	19500	19900	24800	43900	41100	39000
10	5070	3110	3840	18400	3330	8980	19600	20000	24800	43200	41000	39000
11	5120	2010	3820	18400	3300	10800	19600	19800	24700	43300	41100	39000
12	7450	1960	2850	18500	3310	11600	19700	19800	24700	43400	39400	39000
13	7880	4750	3820	19000	3300	7370	19600	19700	24600	43500	39300	39100
14	7890	3990	3840	19000	6210	12700	19600	17700	24700	43700	41300	39100
15	7740	5180	3820	19000	6580	13400	19500	17900	24800	43600	41400	39500
16	7820	5270	3800	19000	6210	13600	19500	19600	24700	43400	41400	39400
17	5120	4480	3780	19100	7890	13800	19700	19600	24600	43300	40300	39500
18	7780	3070	3540	19100	8700	15100	19900	19700	24400	43200	38500	39500
19	8130	3950	3780	19200	9280	15900	19900	19600	24300	42700	38500	39500
20	7640	3950	3470	19200	5380	10400	19800	20600	28300	42400	38400	39400
21	7650	3940	2800	19100	10700	11900	19800	20700	30600	42400	38300	39500
22	7730	3330	3270	19000	11200	10400	19700	20600	33800	41800	38400	39600
23	7870	3290	2880	18900	10900	10900	19700	18200	37800	42200	38300	39600
24	5200	2970	2890	19100	10900	11300	19800	19500	38600	42100	38200	39700
25	6940	2990	3620	19700	13200	11400	19900	18000	38900	42100	38100	39600
26	5050	3000	3690	19700	11200	12700	20000	22300	39500	42500	39000	39600
27	4930	2410	3770	19800	7280	11200	22800	25000	40100	42800	39300	39600
28	4890	2910	4460	19800	9530	13100	25600	24900	41000	42900	39000	39600
29	4890	3960	8800	19800	---	12000	25600	21900	41600	43100	39700	39700
30	5390	5060	10700	19700	---	10500	19800	21800	42700	43100	41000	39600
31	4960	---	16100	19700	---	10100	---	22100	---	43300	41900	---
TOTAL	209960	126040	149410	568400	221190	291910	585300	629100	877700	1346200	1257500	1187700
MEAN	6773	4201	4820	18340	7900	9416	19510	20290	29260	43430	40560	39590
MAX	9230	7180	16100	19800	15600	15900	25600	25000	42700	45100	43900	41600
MIN	4890	1960	2800	10100	3300	2190	11900	17700	21900	41800	38100	38900
AC-FT	416500	250000	296400	1127000	438700	579000	1161000	1248000	1741000	2670000	2494000	2356000
CAL YR 1982	TOTAL	3735120	MEAN	10230	MAX	21200	MIN	1960	AC-FT	7409000		
WTR YR 1983	TOTAL	7450410	MEAN	20410	MAX	45100	MIN	1960	AC-FT	14780000		

COLORADO RIVER MAIN STEM

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.

WATER TEMPERATURES: Maximum, 22.0 Aug. 2, 1983; minimum, 8.0°C Feb. 1, 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	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)
OCT 06...	1130	8260	1090	7.8	19.0	320	78	30	110	3	4.8
NOV 02...	1215	5100	1090	7.8	17.0	320	79	31	110	3	5.0
DEC 01...	1130	4670	1120	7.8	14.0	320	78	30	110	3	4.9
JAN 04...	1500	19200	1120	7.9	10.0	330	80	31	110	3	4.9
FEB 01...	1430	18700	1090	8.0	10.5	330	82	30	110	3	4.9
MAR 01...	1520	4790	1100	7.9	12.5	320	80	30	100	2	4.7
APR 05...	1230	19200	1110	8.0	14.0	330	84	30	110	3	4.4
MAY 02...	1410	20100	1100	7.8	15.0	320	81	29	100	3	4.7
JUN 01...	1130	25200	1100	--	15.0	330	83	30	100	2	4.4
JUL 06...	1145	44800	1100	--	18.5	330	83	30	110	3	4.4
AUG 02...	1045	43600	1100	--	22.0	320	79	29	110	3	5.0
SEP 02...	1210	42800	1100	--	20.0	330	85	29	100	2	4.5

DATE	ALKA- LITY 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 CONSTITUENTS, 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 06...	125	300	97	.40	8.9	717	700	16000	.110	150	4
NOV 02...	121	300	94	.40	9.1	724	700	9970	.190	150	11
DEC 01...	124	310	93	.30	8.7	718	710	9050	.160	160	4
JAN 04...	129	310	95	.30	9.1	753	720	39000	.170	150	11
FEB 01...	133	300	93	.40	8.8	709	710	35800	.230	140	13
MAR 01...	131	290	92	.40	8.8	729	680	9430	.250	140	3
APR 05...	138	290	92	.30	8.8	695	700	36000	.190	150	16
MAY 02...	130	290	90	.30	8.4	711	680	38600	.230	140	4
JUN 01...	131	290	88	.30	8.9	683	680	46500	.240	150	14
JUL 06...	133	280	90	.30	8.6	708	690	85600	.240	140	5
AUG 02...	133	300	97	.30	8.7	--	710	92300	.210	140	5
SEP 02...	128	300	94	.30	8.6	701	700	81000	.170	130	6

THE GREAT BASIN

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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 mi².

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 September 1983; crest-stage partial-record station October 1967 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft, approximately, from topographic map. Oct. 1, 1967 to Sept. 30, 1967, crest-stage gage at same site and datum.

REMARKS.--Records poor, no gage-height record May 21 to Sept. 13. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--15 years (1915-16, 1960-67, 1977-81), 9.44 ft³/s, 6,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft³/s May 30, 1983; maximum gage height, unknown, May 30, 1983; minimum discharge, 2.3 ft³/s Feb. 27, 1960.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 24	0700	46	2.58
May 30	unknown	*440	unknown

Minimum daily discharge, 9.2 ft³/s, Dec. 22-24, Feb. 5.

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			12	12	9.9	14	16	27	230	46	24	18
2			13	12	10	15	17	27	215	45	24	18
3			14	11	9.5	16	18	25	200	43	24	18
4			15	11	9.5	15	18	29	195	41	24	17
5			15	11	9.2	15	17	30	185	40	23	17
6			15	11	9.5	15	17	33	180	39	23	17
7			13	11	9.5	16	18	30	175	37	23	17
8			12	11	9.5	17	18	30	170	35	23	17
9			11	11	9.5	18	18	33	160	33	23	17
10			11	10	9.5	17	20	38	150	32	22	16
11			11	10	9.5	17	21	43	135	31	22	16
12			11	10	9.9	18	21	46	120	30	22	16
13			11	9.9	10	18	21	46	110	29	22	15
14			11	9.9	9.9	17	22	44	105	27	21	16
15			11	9.9	9.9	15	22	43	100	27	21	16
16			10	9.9	9.9	15	23	43	98	26	21	16
17			9.9	10	10	14	24	42	96	26	21	16
18			9.5	10	11	13	27	41	92	26	21	15
19			9.5	9.9	11	13	27	44	88	25	20	16
20			9.5	9.9	11	13	31	50	83	25	20	16
21			9.5	9.9	11	13	34	62	78	25	20	16
22			9.2	9.9	11	12	35	74	74	25	20	15
23			9.2	9.5	12	12	36	115	69	25	20	15
24			9.2	9.9	12	12	40	140	65	25	19	15
25			9.5	9.9	13	12	36	150	61	24	19	15
26			9.8	9.9	13	12	32	160	59	24	19	15
27			10	9.9	14	12	28	165	56	24	19	15
28			10	9.9	14	13	26	190	53	24	19	15
29			10	10	---	13	24	240	51	24	18	16
30			10	9.9	---	14	28	280	49	24	18	18
31			10	10	---	15	---	250	---	24	18	---
TOTAL			340.8	319.1	297.7	451	735	2570	3502	931	653	485
MEAN			11.0	10.3	10.6	14.5	24.5	82.9	117	30.0	21.1	16.2
MAX			15	12	14	18	40	280	230	46	24	18
MIN			9.2	9.5	9.2	12	16	25	49	24	18	15
AC-FT			676	633	590	895	1460	5100	6950	1850	1300	962

RUBY VALLEY

10244720 FRANKLIN RIVER NEAR ARTHUR, NV

LOCATION.--Lat 40°49'25", long 115°08'10", in SE¼SW¼ sec.18, T.34 N., R.61 E., Elko County, Hydrologic Unit 16060007, in Humboldt Forest, on right bank 1 mi above Horse Creek and 3.5 mi northeast of Arthur.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--August 1964 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods when stage-discharge relation was indefinite, July 13 to Sept. 30, 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.--19 years, 11.4 ft³/s, 8,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 197 ft³/s June 6, 1975, gage height, 2.79 ft, from rating curve extended above 106 ft³/s; minimum daily, 0.03 ft³/s Aug. 8, 9, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 1	0100	178	*2.81
June 11	0800	*187	2.62

Minimum daily, 2.0 ft³/s, Jan. 1, 2.

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	5.8	6.3	4.0	2.0	2.5	2.9	3.6	17	152	52	15	5.7
2	5.6	5.7	3.5	2.0	2.5	3.0	3.6	19	109	57	14	5.7
3	6.3	5.4	3.9	2.1	2.6	3.3	3.6	21	122	51	13	5.8
4	6.3	5.3	3.5	2.3	2.6	3.2	3.6	22	137	54	12	6.0
5	5.6	5.4	3.5	2.5	2.7	3.1	3.6	23	118	66	12	5.6
6	5.6	5.4	3.4	2.7	2.7	3.1	3.6	23	114	73	11	5.0
7	5.6	5.2	3.4	2.7	2.9	3.2	3.6	24	112	64	11	4.5
8	5.0	5.2	3.3	2.7	2.9	3.5	3.6	28	125	57	12	4.4
9	4.8	5.0	3.3	2.7	2.9	4.3	4.2	27	140	45	14	4.5
10	4.8	4.6	3.2	2.7	2.6	5.2	4.1	23	144	39	16	4.2
11	4.8	4.2	3.2	2.7	2.7	5.3	3.8	22	157	33	14	4.0
12	5.0	4.0	3.1	2.7	2.8	4.7	3.9	20	109	32	12	3.7
13	5.2	4.0	3.1	2.7	2.7	5.3	3.7	19	88	34	10	3.5
14	6.2	4.0	2.8	2.7	2.6	5.5	3.8	19	81	35	9.8	3.3
15	6.5	4.0	2.6	2.6	2.5	4.8	4.3	20	85	33	10	2.9
16	6.6	4.0	2.5	2.6	2.5	5.7	5.2	20	90	28	11	2.6
17	6.3	4.0	2.5	2.6	2.5	4.7	6.7	19	95	26	13	2.6
18	5.6	4.0	2.5	2.6	2.5	4.2	8.3	20	98	25	11	2.6
19	5.2	4.0	2.5	2.6	2.4	3.9	10	23	83	26	10	2.7
20	5.1	4.0	2.5	2.5	2.4	3.8	13	28	71	24	10	2.9
21	5.0	4.0	2.5	2.4	2.4	3.7	17	38	64	22	12	2.7
22	4.9	4.0	2.7	2.4	2.5	3.6	23	46	72	20	11	2.7
23	4.8	4.0	2.6	2.5	2.6	3.5	29	54	79	21	9.0	3.2
24	4.8	4.0	2.6	2.6	2.9	3.5	28	63	79	19	8.2	4.0
25	5.3	4.0	2.6	2.7	3.1	3.4	22	75	75	18	7.7	3.1
26	6.3	4.3	2.6	2.6	2.9	3.4	18	88	68	17	7.3	4.9
27	5.3	3.9	2.6	2.7	2.9	3.4	16	104	70	15	6.9	5.0
28	5.2	3.4	2.5	2.6	2.9	3.3	17	109	64	14	6.6	4.9
29	6.9	3.5	2.4	2.5	---	3.3	18	102	62	14	6.4	5.0
30	9.3	3.9	2.4	2.5	---	3.5	18	144	56	13	6.1	5.5
31	7.2	---	2.1	2.5	---	3.8	---	155	---	14	5.7	---
TOTAL	176.9	132.7	89.9	78.7	74.7	121.1	305.8	1415	2919	1041	327.7	123.2
MEAN	5.71	4.42	2.90	2.54	2.67	3.91	10.2	45.6	97.3	33.6	10.6	4.11
MAX	9.3	6.3	4.0	2.7	3.1	5.7	29	155	157	73	16	6.0
MIN	4.8	3.4	2.1	2.0	2.4	2.9	3.6	17	56	13	5.7	2.6
AC-FT	351	263	178	156	148	240	607	2810	5790	2060	650	244

CAL YR 1982	TOTAL	4164.4	MEAN	11.4	MAX	1.1	AC-FT	8260
WTR YR 1983	TOTAL	6805.7	MEAN	18.6	MIN	2.0	AC-FT	13500

STEPTOE VALLEY BASIN

81

10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¼ 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 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 7.74 ft³/s 5,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75 ft³/s May 24, 1973, gage height, 3.21 ft; minimum discharge, 2.0 ft³/s Dec. 22, 1966, Mar. 3, 1973.

EXTREMES FOR CURRENT YER.--Maximum discharge, 75 ft³/s May 24, gage height, 3.21 ft; minimum daily, 6.4 ft³/s Jan. 13, Feb. 1, 10-14, 16-17.

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	12	10	9.2	7.3	6.4	7.7	9.5	19	68	45	24	14
2	11	10	10	7.2	6.5	7.7	9.8	19	69	44	24	13
3	12	9.9	10	7.2	6.7	7.8	10	20	67	44	23	14
4	12	9.8	9.9	7.1	6.8	7.8	10	21	69	42	23	13
5	13	9.8	9.5	6.9	6.7	7.7	10	23	64	41	22	13
6	12	10	9.4	6.9	6.7	7.5	9.9	23	62	40	21	12
7	12	10	9.4	6.7	6.7	7.5	9.9	24	60	39	21	12
8	12	10	9.1	6.8	6.7	7.6	10	27	59	39	21	12
9	12	10	9.3	6.8	6.5	7.9	10	30	59	39	20	12
10	11	10	9.1	6.8	6.4	8.4	10	33	59	38	20	12
11	11	10	8.7	6.7	6.4	9.3	11	34	62	36	19	12
12	11	9.8	8.5	6.5	6.4	9.7	11	33	61	34	19	12
13	11	10	8.8	6.4	6.4	9.9	11	32	60	34	18	12
14	10	9.6	8.4	6.6	6.4	10	11	31	59	33	18	12
15	10	9.9	8.8	6.7	6.5	10	11	31	59	32	18	12
16	10	10	8.3	6.8	6.4	9.8	11	30	60	31	17	12
17	10	10	8.2	6.9	6.4	10	11	29	60	31	17	12
18	10	10	8.0	6.7	6.5	9.8	12	30	62	31	18	12
19	10	10	8.1	6.7	6.5	9.6	12	31	63	31	17	12
20	10	9.9	8.1	7.0	6.6	9.1	13	34	63	30	17	11
21	10	9.7	8.2	6.6	6.7	9.3	13	40	61	30	16	11
22	9.9	9.8	8.0	6.9	6.8	9.1	14	48	60	30	16	11
23	9.8	9.6	8.0	6.8	7.0	9.0	16	56	58	29	15	11
24	9.9	9.4	6.6	6.7	7.3	9.1	18	64	57	29	15	11
25	9.9	9.4	7.0	6.9	7.5	8.9	19	79	54	28	15	11
26	10	9.1	7.7	6.7	7.8	9.0	19	67	52	28	14	11
27	10	9.1	8.2	6.7	7.9	8.9	19	60	51	27	14	11
28	10	9.1	7.4	6.7	7.8	8.9	19	63	50	26	14	11
29	10	9.2	7.9	6.7	---	8.7	19	73	49	26	14	11
30	10	9.1	7.8	6.7	---	9.0	19	71	46	25	14	11
31	10	---	7.7	6.5	---	9.5	---	66	---	25	14	---
TOTAL	331.5	292.2	263.3	210.6	189.4	274.2	388.1	1241	1783	1037	558	356
MEAN	10.7	9.74	8.49	6.79	6.76	8.85	12.9	40.0	59.4	33.5	18.0	11.9
MAX	13	10	10	7.3	7.9	10	19	79	69	45	24	14
MIN	9.8	9.1	6.6	6.4	6.4	7.5	9.5	19	46	25	14	11
AC-FT	658	580	522	418	376	544	770	2460	3540	2060	1110	706
CAL YR 1982	TOTAL	3394.8	MEAN	9.30	MAX	28	MIN	3.0	AC-FT	6730		
WTR YR 1983	TOTAL	6924.3	MEAN	19.0	MAX	79	MIN	6.4	AC-FT	13730		

STEPTOF VALLEY BASIN

10244950 STEPTOF 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. 20, 1979, and Oct. 20, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 (PFR- 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 CaCO ₃)
NOV 21...	1200	9.8	310	8.4	5.0	.90	10.3	106	--	--	172
MAR 15...	1145	10	390	8.6	5.5	1.2	9.6	100	<2	56	208
MAY 26...	1145	69	395	8.1	9.0	160	8.6	97	--	--	227
AUG 17...	0945	18	355	8.4	7.5	1.5	9.3	101	--	--	200

STEPTOE VALLEY BASIN

83

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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- SOPP- 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 21...	53	9.7	2.0	.1	.6	130	8.0	1.2	<.10	7.1	184
MAR 15...	65	11	2.8	.1	.7	203	19	1.8	<.10	8.1	217
MAY 26...	76	8.9	4.1	.1	1.5	203	25	2.7	.10	10	251
AUG 17...	62	11	2.5	.1	.7	187	13	1.5	<.10	7.6	196

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 21...	190	4.9	.16	<.060	.60	.020	.010	<.010	<10	1	45
MAR 15...	230	5.9	.18	<.060	.40	.030	.010	.020	--	--	--
MAY 26...	251	46.8	.32	.090	.30	.520	.030	.030	90	2	50
AUG 17...	211	9.5	.16	.090	.40	.030	.040	.040	--	--	--

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 21...	1	<1	<1	<3	1	3	5	19	<1	<.1
MAR 15...	--	--	--	--	--	--	--	--	--	--
MAY 26...	1	<1	<1	<3	1	55	5	7	7	<.1
AUG 17...	--	--	--	--	--	--	--	--	--	--

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 SP)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDEDD (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDD (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 21...	<10	<1	<1	<1	83	<6.0	5	30	.79	--
MAR 15...	--	--	--	--	--	--	--	14	.38	--
MAY 26...	<10	<1	1	<1	120	<6.0	19	1000	186	59
AUG 17...	--	--	--	--	--	--	--	24	1.2	--

STEPTOE VALLEY BASIN

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 to September 1983.

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 ft³/s July 13, 1983, gage height 1.66 ft; minimum daily, 3.0 ft³/s July 25-28, 1983.

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									4.2	9.6	3.4	4.2
2									6.2	10	3.4	4.4
3									4.4	10	3.4	5.5
4									4.8	10	3.4	4.9
5									4.5	10	3.3	4.2
6									4.1	10	3.2	4.2
7									4.1	10	3.3	4.0
8									4.3	10	3.6	3.6
9									5.0	10	4.0	3.9
10									4.4	11	3.5	4.0
11									6.1	11	4.1	4.3
12									4.7	11	4.2	4.4
13									4.3	11	4.4	4.4
14									4.2	6.2	5.0	4.5
15									4.2	4.0	5.2	4.5
16									4.3	4.2	5.4	4.6
17									4.2	4.1	5.2	4.6
18									4.3	3.9	5.1	4.5
19									4.4	3.5	5.2	4.4
20									4.3	3.2	4.9	4.8
21									4.2	3.1	5.5	5.4
22									3.9	3.1	5.0	5.7
23									3.6	3.3	4.7	6.2
24									4.2	3.2	4.6	5.7
25									6.2	3.0	4.4	5.7
26									7.6	3.0	4.4	5.8
27									8.0	3.0	4.3	8.0
28									8.4	3.0	4.2	7.5
29									8.9	3.1	4.2	6.3
30									9.3	3.2	4.0	6.2
31									---	3.3	4.2	---
TOTAL									155.3	197.0	132.7	150.4
MEAN									5.18	6.35	4.28	5.01
MAX									9.3	11	5.5	8.0
MIN									3.6	3.0	3.2	3.6
AC-FT									308	391	263	298

STEPTOE VALLEY BASIN

85

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.

PERIOD OF RECORD.--December 1982 to September 1983.

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.

REMARKS.--Records poor, no gage-height record March 16 to May 10, June 13 to Aug. 10.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 245 ft³/s May 29, 1983, gage height 2.37 ft; minimum daily, 1.1 ft³/s Jan. 4, 1983.

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			2.1	1.3	1.4	1.4	4.1	8.2	21	12	13	4.1
2			2.1	1.3	1.3	1.5	4.1	8.3	19	12	9.0	4.1
3			2.1	1.3	1.3	1.5	4.0	8.6	18	11	6.3	4.1
4			2.0	1.1	1.3	1.5	3.8	9.2	20	11	5.4	4.1
5			2.0	1.4	1.3	1.5	3.8	9.8	19	10	5.2	4.1
6			2.0	1.8	1.3	1.5	3.9	10	18	9.8	5.0	4.0
7			1.9	1.8	1.3	1.5	3.9	10	18	9.5	4.8	4.0
8			1.9	1.9	1.3	1.5	4.1	10	19	9.3	4.7	3.8
9			1.9	1.9	1.3	1.5	4.1	10	58	8.5	4.7	3.8
10			1.9	1.9	1.3	1.5	4.2	10	46	8.0	5.5	3.7
11			1.9	1.9	1.3	1.6	4.2	9.8	23	7.5	6.0	3.6
12			1.9	1.8	1.3	2.0	4.1	9.2	19	7.2	6.0	3.6
13			2.0	1.7	1.3	2.3	4.1	8.7	18	6.8	6.0	3.4
14			2.0	1.7	1.3	2.7	3.9	8.4	18	6.7	5.6	3.3
15			2.0	1.7	1.3	3.0	3.8	8.2	18	6.6	5.5	3.3
16			1.9	1.7	1.3	3.1	4.1	9.3	18	6.6	5.5	3.3
17			1.9	1.6	1.3	3.2	4.1	12	19	6.6	5.8	3.3
18			1.9	1.6	1.3	3.4	4.1	12	25	6.4	6.0	3.3
19			1.9	1.6	1.4	3.5	4.1	14	21	6.2	6.0	3.3
20			1.9	1.7	1.4	3.6	4.1	11	19	6.1	6.0	3.3
21			1.9	1.6	1.4	3.7	4.1	10	18	6.0	5.6	3.3
22			1.9	1.6	1.4	3.8	5.6	11	18	6.0	5.5	3.3
23			1.9	1.5	1.4	3.8	7.0	14	17	5.8	5.0	3.3
24			1.8	1.5	1.4	3.8	9.0	22	16	5.6	4.8	3.3
25			1.8	1.5	1.5	3.7	9.6	35	16	5.4	4.7	3.2
26			1.7	1.4	1.5	3.5	9.6	60	15	5.2	4.5	3.2
27			1.7	1.4	1.4	3.3	8.7	38	14	5.1	4.5	3.4
28			1.6	1.4	1.4	3.4	8.4	47	14	5.0	4.5	3.7
29			1.5	1.5	---	3.6	8.2	113	13	4.8	4.4	3.6
30			1.3	1.4	---	3.8	8.1	118	13	8.0	4.4	3.4
31			1.3	1.4	---	4.0	---	30	---	15	4.2	---
TOTAL			57.6	48.9	37.7	83.7	158.9	694.7	608	239.7	174.1	107.2
MEAN			1.86	1.58	1.35	2.70	5.30	22.4	20.3	7.73	5.62	3.57
MAX			2.1	1.9	1.5	4.0	9.6	118	58	15	13	4.1
MIN			1.3	1.1	1.3	1.4	3.8	8.2	13	4.8	4.2	3.2
AC-FT			114	97	75	166	315	1380	1210	475	345	213

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 mi².

PERIOD OF RECORD.--June to September 1983.

GAGE.--Water-stage recorder. Altitude of gage is 6,840 ft, from topographic map.

REMARKS.--Records good, no gage-height record June 1 to June 21.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft³/s Aug. 9, 1983, gage height 3.33 ft; minimum daily, 7.2 ft³/s Aug. 27-30, 1983.

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									8.6	9.4	9.4	7.6
2									8.7	9.5	9.4	7.8
3									9.0	9.4	9.4	8.0
4									9.1	9.2	9.3	7.8
5									9.3	9.4	9.4	7.8
6									9.4	9.2	9.3	8.0
7									9.5	9.4	9.3	8.0
8									9.5	9.2	9.7	8.0
9									9.5	9.4	25	8.0
10									9.5	9.5	12	8.0
11									9.5	9.5	8.0	8.0
12									9.5	9.4	8.0	8.2
13									9.5	9.4	11	8.2
14									9.5	9.4	8.2	8.2
15									9.5	9.5	8.4	8.4
16									9.5	9.5	9.2	8.4
17									9.5	9.2	8.6	8.4
18									9.5	9.4	9.7	8.8
19									9.5	9.2	8.2	8.8
20									9.5	9.4	7.8	8.8
21									9.5	9.4	7.6	8.8
22									9.5	9.7	7.6	8.8
23									9.7	9.5	7.4	8.6
24									9.7	9.2	7.4	8.8
25									9.5	9.2	7.4	8.8
26									9.4	9.2	7.4	9.4
27									9.5	9.2	7.2	9.4
28									9.4	9.2	7.2	8.4
29									9.4	9.3	7.2	8.6
30									9.4	9.4	7.2	8.6
31									---	9.5	7.6	---
TOTAL									282.1	290.3	280.5	251.4
MEAN									9.40	9.36	9.05	8.38
MAX									9.7	9.7	25	9.4
MIN									8.6	9.2	7.2	7.6
AC-FT									560	576	556	499

LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS

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10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S $\frac{1}{2}$ NE $\frac{1}{4}$ 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 mi².

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.--21 years, 0.325 ft³/s, 235 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft³/s Mar. 9, 1979, gage height, 6.70 ft, from high-water marks; no flow most of the time.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 24	1330	82	1.78
Mar. 3	1200	*271	5.85
June 3	0100	18	0.89

Minimum daily, no flow most of year.

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	.00	.00	.00	.00	.00	81	.00	.00	17	.00	.00	.00
2	.00	.00	.00	.00	.00	83	.00	.00	17	.00	.00	.00
3	.00	.00	.00	.00	.00	215	.00	.00	18	.00	.00	.00
4	.00	.00	.00	.00	.00	142	.00	.00	18	.00	.00	.00
5	.00	.00	.00	.00	.00	46	.00	.00	18	.00	.00	.00
6	.00	.00	.00	.00	.00	15	.00	.00	17	.00	.00	.00
7	.00	.00	.00	.00	.00	5.0	.00	.00	16	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	16	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	16	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	15	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	12	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	11	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	10	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	9.4	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	7.9	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	6.0	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	4.0	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	2.4	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	2.0	.00	.00	.00	.00
22	.00	.00	.00	.00	5.0	.00	.00	6.5	.00	.00	.00	.00
23	.00	.00	.00	.00	10	.00	.00	9.1	.00	.00	.00	.00
24	.00	.00	.00	.00	30	.00	.00	12	.00	.00	.00	.00
25	.00	.00	.00	.00	60	.00	.00	14	.00	.00	.00	.00
26	.00	.00	.00	.00	30	.00	.00	15	.00	.00	.00	.00
27	.00	.00	.00	.00	25	.00	.00	16	.00	.00	.00	.00
28	.00	.00	.00	.00	30	.00	.00	16	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	17	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	17	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	17	---	.00	.00	---
TOTAL	.00	.00	.00	.00	190.00	587.00	.00	141.60	231.70	.00	.00	.00
MEAN	.000	.000	.000	.000	6.79	18.9	.000	4.57	7.72	.000	.000	.000
MAX	.00	.00	.00	.00	60	215	.00	17	18	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	377	1160	.00	281	460	.00	.00	.00

CAL YR 1982	TOTAL	2.70	MEAN	.007	MAX	2.6	MIN	.00	AC-FT	5.4
WTR YR 1983	TOTAL	1150.30	MEAN	3.15	MAX	215	MIN	.00	AC-FT	2280

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

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 mi².

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

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

REMARKS.--Records good Oct. 1 to May 25, but poor from May 26 to Sept. 30. 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.--6 years, 7.10 ft³/s, 5,140 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340 ft³/s May 29, 1983, gage height, 4.66 ft; minimum daily, 0.56 ft³/s Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft³/s May 29, gage height, 4.66 ft; minimum daily, 1.2 ft³/s Jan. 30; Feb. 1, 2, 4, 5, 9, 10.

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	4.8	3.2	2.0	1.7	1.2	1.6	3.4	4.9	126	28	9.8	6.1
2	5.1	2.6	1.9	1.7	1.2	1.9	3.4	4.6	103	26	9.6	5.8
3	5.1	2.8	1.9	1.7	1.3	2.1	3.5	5.1	79	25	9.8	5.7
4	5.1	3.0	1.9	1.6	1.2	1.9	3.5	5.9	71	24	9.2	5.7
5	5.0	2.8	1.8	1.6	1.2	1.9	3.4	6.2	71	25	8.6	5.6
6	4.9	2.8	1.8	1.6	1.4	2.1	3.4	6.2	81	25	8.6	5.4
7	4.9	2.8	1.8	1.6	1.3	2.2	3.2	6.2	87	22	8.6	5.2
8	4.7	2.6	1.8	1.6	1.3	2.3	3.2	7.4	87	19	8.6	5.2
9	4.6	2.6	1.6	1.6	1.2	3.0	3.2	8.1	101	17	13	5.2
10	4.5	2.5	1.7	1.6	1.2	3.5	3.4	8.1	108	16	15	5.2
11	4.4	2.5	1.7	1.4	1.3	3.7	3.4	7.1	111	13	14	5.1
12	4.4	2.6	1.6	1.4	1.3	3.7	3.4	6.8	92	12	13	5.0
13	4.4	2.5	1.7	1.4	1.4	3.7	3.2	6.5	86	12	13	5.0
14	4.4	2.3	1.3	1.4	1.3	4.0	3.4	6.5	76	14	12	5.0
15	4.4	2.5	1.9	1.4	1.3	3.7	3.2	6.8	74	17	12	5.0
16	4.4	2.5	1.7	1.4	1.3	3.4	3.4	7.7	73	19	12	5.0
17	4.6	2.5	1.6	1.6	1.3	3.2	4.0	8.1	74	17	12	5.0
18	4.6	2.5	1.6	1.6	1.4	3.2	4.2	8.8	79	17	13	5.0
19	4.6	2.5	1.6	1.4	1.4	2.8	4.4	9.8	64	17	10	5.1
20	4.6	2.3	1.6	1.4	1.4	2.5	4.6	13	54	17	9.5	5.3
21	4.6	2.0	1.7	1.4	1.4	2.8	4.9	16	48	16	10	5.5
22	4.6	2.2	1.9	1.7	1.4	2.6	5.6	20	52	15	11	5.6
23	4.6	2.2	2.1	1.4	1.6	2.5	6.8	29	51	14	9.5	5.9
24	4.6	2.2	1.8	1.4	1.6	2.3	7.1	41	48	14	9.0	5.6
25	3.7	2.2	1.7	1.3	1.7	2.3	6.8	58	44	14	8.7	5.2
26	3.5	2.2	1.7	1.3	1.8	2.3	6.2	66	41	13	7.8	5.2
27	3.1	2.2	1.7	1.3	1.8	2.3	5.4	110	38	13	7.1	5.0
28	3.0	2.2	1.6	1.3	1.7	2.3	5.6	170	35	13	6.8	5.0
29	3.2	2.0	1.6	1.3	---	2.3	5.9	290	33	12	6.5	5.4
30	3.4	2.0	1.6	1.2	---	2.8	5.4	240	30	12	6.4	5.4
31	3.4	---	1.7	1.4	---	3.2	---	170	---	11	6.4	---
TOTAL	135.2	73.8	53.6	45.7	38.9	84.1	130.5	1353.8	2117	529	310.5	159.4
MEAN	4.36	2.46	1.73	1.47	1.39	2.71	4.35	43.7	70.6	17.1	10.0	5.31
MAX	5.1	3.2	2.1	1.7	1.8	4.0	7.1	290	126	28	15	6.1
MIN	3.0	2.0	1.3	1.2	1.2	1.6	3.2	4.6	30	11	6.4	5.0
AC-FT	268	146	106	91	77	167	259	2690	4200	1050	616	316
CAL YR 1982	TOTAL	1985.35	MEAN	5.44	MAX	30	MIN	.70	AC-FT	3940		
WTR YR 1983	TOTAL	5031.50	MEAN	13.8	MAX	290	MIN	1.2	AC-FT	9980		

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

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10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°36'05", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.15 N., R.47 E., Nye County, Hydrologic Unit 1606005, on left bank 2 mi southwest of Monitor Ranch and 42 mi north of Belmont.

DRAINAGE AREA.--35.6 mi².

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.--6 years, 2.54 ft³/s, 1,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 ft³/s May 29, 1983, gage height, 3.72 ft; minimum, 0.12 ft³/s Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft³/s May 29, gage height, 3.72 ft; minimum daily, 0.88 ft³/s Dec. 14.

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	.98	1.2	1.3	1.0	1.0	1.2	1.3	4.2	95	23	4.6	3.0
2	1.1	1.2	1.1	1.0	1.0	1.1	1.3	3.7	85	22	4.5	2.8
3	1.1	1.2	1.3	1.0	1.0	1.0	1.3	3.4	79	20	4.9	2.8
4	1.1	1.2	1.2	1.0	1.0	1.0	1.2	4.5	74	19	4.6	2.8
5	1.0	1.3	1.3	1.0	1.0	1.0	1.1	5.6	70	17	4.1	2.8
6	1.0	1.3	1.3	1.0	1.0	1.0	1.2	5.6	66	15	4.2	2.6
7	1.0	1.3	1.1	1.0	1.0	1.1	1.2	5.8	66	14	4.2	2.5
8	1.0	1.2	.94	1.0	1.0	1.1	1.3	8.2	64	13	4.0	2.5
9	1.1	1.2	.96	1.0	1.0	1.1	1.3	12	63	12	6.5	2.6
10	1.2	1.2	1.1	1.0	1.0	1.1	1.4	11	60	11	7.6	2.6
11	1.2	1.2	1.1	1.0	1.0	1.1	1.5	11	60	10	6.7	2.5
12	1.2	1.0	1.2	1.0	1.0	1.1	1.3	11	57	9.0	6.2	2.4
13	1.2	1.1	1.1	1.0	1.0	1.1	1.3	11	53	8.2	6.2	2.5
14	1.1	1.0	.88	1.0	1.0	1.1	1.2	11	50	7.6	6.0	2.6
15	1.1	1.1	1.1	1.0	1.0	1.0	1.2	13	48	6.9	5.7	2.6
16	1.1	1.1	1.1	1.0	1.0	.90	1.3	15	46	6.3	5.9	2.6
17	1.1	1.2	1.1	1.0	1.0	1.0	1.5	17	44	7.4	5.7	2.5
18	1.1	1.3	1.1	1.0	1.0	1.0	2.0	20	42	10	6.8	2.6
19	1.1	1.3	1.0	1.0	1.0	.99	2.2	21	40	7.4	5.0	2.5
20	1.2	1.2	1.0	1.0	1.0	.96	2.3	25	38	7.4	4.5	2.6
21	1.2	1.0	1.0	1.0	1.0	1.1	2.4	32	36	6.9	4.9	2.8
22	1.2	1.1	1.0	1.0	1.0	1.0	2.6	51	35	7.0	5.9	2.8
23	1.3	1.1	1.0	1.0	1.2	1.1	3.2	59	33	7.0	4.6	3.1
24	1.3	1.2	1.0	1.0	1.1	1.1	5.0	66	33	6.1	4.4	2.8
25	1.4	1.2	1.0	1.0	1.1	1.1	4.3	74	31	5.7	4.2	2.6
26	1.5	1.2	1.0	1.0	1.1	1.1	4.1	77	29	5.6	3.7	2.5
27	1.3	1.3	1.0	1.0	1.1	1.2	3.5	83	29	5.0	3.4	2.6
28	1.1	1.3	1.0	1.0	1.0	1.2	3.3	88	29	4.9	3.3	2.6
29	1.1	1.2	1.0	1.0	---	1.2	4.0	96	31	4.7	3.2	2.5
30	1.2	1.3	1.0	1.0	---	1.3	4.5	104	26	4.7	3.1	2.6
31	1.3	---	1.0	1.0	---	1.4	---	102	---	4.9	3.2	---
TOTAL	35.88	35.7	33.28	31.0	28.6	33.75	65.3	1051.0	1512	308.7	151.8	79.3
MEAN	1.16	1.19	1.07	1.00	1.02	1.09	2.18	33.9	50.4	9.96	4.90	2.64
MAX	1.5	1.3	1.3	1.0	1.2	1.4	5.0	104	95	23	7.6	3.1
MIN	.98	1.0	.88	1.0	1.0	.90	1.1	3.4	26	4.7	3.1	2.4
AC-FT	71	71	66	61	57	67	130	2080	3000	612	301	157

CAL YR 1982 TOTAL 460.23 MEAN 1.26 MAX 6.7 MIN .16 AC-FT 913
WTR YR 1983 TOTAL 3366.31 MEAN 9.22 MAX 104 MIN .88 AC-FT 6680

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246846 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 mi².

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

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

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

AVERAGE DISCHARGE.--17 years (water years 1964-1981), 3.54 ft³/s, 2,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft³/s Dec. 6, 1966, gage height, 4.1 ft, from floodmarks, from rating curve extended above 60 ft³/s on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s May 29, gage height, 2.45 ft; minimum daily, 4.4 ft³/s Sept. 28.

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								29	64	19	7.6	6.7
2								28	52	19	7.4	6.6
3								28	48	18	7.2	6.6
4								31	47	17	7.1	6.1
5								31	47	16	7.0	6.0
6								31	47	16	7.0	5.9
7								32	46	15	6.9	5.8
8								36	47	14	6.8	5.7
9								33	46	14	6.7	5.5
10								32	43	13	6.8	5.5
11								30	44	12	6.6	5.4
12								29	34	12	6.6	5.4
13								27	32	11	6.2	5.2
14								26	31	11	6.1	5.1
15								26	32	11	6.1	5.1
16								24	32	11	6.1	5.1
17								25	32	11	6.4	5.0
18								26	35	10	7.5	4.9
19								27	33	10	13	4.9
20								33	30	10	13	4.9
21								42	28	10	10	4.8
22								50	26	9.9	8.9	4.7
23								55	28	9.5	8.4	4.6
24								62	27	9.3	8.3	4.7
25								63	25	8.8	8.0	4.6
26								67	24	8.6	7.6	4.7
27								64	24	8.4	7.3	4.6
28								71	23	8.2	7.2	4.4
29								74	22	8.0	7.0	4.5
30								75	20	7.9	6.9	4.5
31								71	---	7.7	6.8	---
TOTAL								1278	1069	366.3	234.5	157.5
MEAN								41.2	35.6	11.8	7.56	5.25
MAX								75	64	19	13	6.7
MIN								24	20	7.7	6.1	4.4
AC-FT								2530	2120	727	465	312

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 mi².

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

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

REMARKS.--Records fair, except July 20 to Sept. 14, 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, 2.34 ft³/s, 1,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s Mar. 31, 1978, gage height, 2.70 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft³/s Apr. 23, gage height, 2.30 ft; no flow Oct. 1 to Dec. 5, Dec. 7-12, 14-21, 28.

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	.00	.00	.00	.01	.12	1.3	7.1	43	27	2.0	.88	.62
2	.00	.00	.00	.01	.07	1.2	9.4	41	24	1.8	.86	.60
3	.00	.00	.00	.02	.06	1.2	8.9	36	20	1.7	.84	.59
4	.00	.00	.00	.01	.14	1.3	6.0	31	19	1.7	.82	.58
5	.00	.00	.00	.01	.08	1.3	6.0	31	17	1.6	.80	.57
6	.00	.00	.01	.02	.07	1.6	6.0	30	16	1.6	.80	.55
7	.00	.00	.00	.03	.08	2.0	6.3	33	14	1.6	.80	.54
8	.00	.00	.00	.03	.08	2.8	6.0	39	14	1.5	.80	.52
9	.00	.00	.00	.02	.08	4.1	8.4	29	13	1.5	1.5	.53
10	.00	.00	.00	.02	.08	6.3	9.4	29	12	1.5	3.7	.53
11	.00	.00	.00	.02	.08	8.0	8.0	29	12	1.4	2.5	.53
12	.00	.00	.00	.02	.08	8.0	7.5	29	12	1.3	2.0	.52
13	.00	.00	.02	.02	.10	10	7.1	30	12	1.3	1.7	.51
14	.00	.00	.00	.02	.10	11	6.7	27	10	1.2	1.4	.51
15	.00	.00	.00	.02	.14	8.9	6.3	27	10	1.2	1.3	.51
16	.00	.00	.00	.02	.14	7.1	7.5	29	10	1.2	1.2	.46
17	.00	.00	.00	.02	.16	6.7	13	30	9.4	1.4	1.1	.46
18	.00	.00	.00	.02	.21	6.7	16	30	9.4	1.3	1.1	.42
19	.00	.00	.00	.02	.24	6.3	15	30	8.0	1.2	1.0	.42
20	.00	.00	.00	.02	.27	6.0	17	31	6.0	1.2	1.0	.46
21	.00	.00	.00	.02	.34	6.0	19	31	5.0	1.2	.96	.46
22	.00	.00	.05	.04	.51	5.3	25	33	4.7	1.1	.94	.46
23	.00	.00	.05	.03	.73	5.6	45	38	3.9	1.1	.90	.42
24	.00	.00	.07	.04	.86	5.6	49	39	3.4	1.1	.87	.42
25	.00	.00	.01	.05	.94	4.4	45	41	3.0	1.0	.84	.42
26	.00	.00	.03	.05	.94	4.7	43	38	3.0	1.0	.78	.56
27	.00	.00	.03	.05	1.0	4.1	39	34	2.6	.95	.74	.73
28	.00	.00	.00	.05	1.0	4.4	41	34	2.3	.93	.70	.62
29	.00	.00	.03	.12	---	4.7	41	34	2.3	.90	.68	.68
30	.00	.00	.03	.10	---	6.7	45	34	2.1	.90	.66	.80
31	.00	---	.01	.12	---	7.5	---	30	---	.90	.64	---
TOTAL	.00	.00	.34	1.05	8.70	160.8	569.6	1020	307.1	40.28	34.81	16.00
MEAN	.000	.000	.011	.034	.31	5.19	19.0	32.9	10.2	1.30	1.12	.53
MAX	.00	.00	.07	.12	1.0	11	49	43	27	2.0	3.7	.80
MIN	.00	.00	.00	.01	.06	1.2	6.0	27	2.1	.90	.64	.42
AC-FT	.00	.00	.7	2.1	17	319	1130	2020	609	80	69	32
CAL YR 1982	TOTAL	100.73	MEAN	.28	MAX	5.2	MIN	.00	AC-FT	200		
WTR YR 1983	TOTAL	2158.68	MEAN	5.91	MAX	49	MIN	.00	AC-FT	4280		

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 mi².

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 those for winter months which are fair, and those when the stage-discharge relation was indefinite, May 28 to July 20, 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.--17 years, 8.55 ft³/s, 6,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 385 ft³/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 ft³/s Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 385 ft³/s May 28, gage height, 3.19 ft; minimum daily, 3.2 ft³/s Dec. 28.

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	4.1	4.5	4.5	3.5	3.7	5.2	9.2	13	132	36	22	13
2	4.1	4.4	4.4	3.6	3.7	5.3	9.2	13	125	35	21	13
3	4.1	4.3	4.5	3.7	4.0	5.4	9.2	12	112	35	20	13
4	4.1	4.5	4.5	3.9	4.0	5.4	9.2	12	100	34	20	12
5	4.1	4.4	4.5	4.2	4.2	5.4	9.6	12	92	34	19	13
6	4.1	4.6	4.5	4.2	4.4	5.4	9.6	12	84	34	18	13
7	4.1	4.7	4.5	4.1	4.4	5.4	9.6	12	86	34	18	12
8	4.3	4.5	4.5	4.1	4.4	5.4	9.6	14	92	34	19	12
9	4.5	4.5	4.5	4.2	4.5	5.6	9.6	20	90	34	18	13
10	4.5	4.5	4.5	4.5	4.5	5.7	9.6	22	88	34	18	13
11	4.5	4.5	4.5	4.8	4.5	5.9	9.6	23	90	33	18	12
12	4.4	4.5	4.5	4.8	4.5	6.0	9.6	23	92	33	17	12
13	4.4	4.5	4.3	4.8	4.7	6.6	9.6	22	83	33	17	13
14	4.3	4.6	4.5	4.8	4.9	7.0	9.6	22	73	33	16	12
15	4.3	4.6	4.5	4.8	4.8	7.0	9.6	22	65	33	17	12
16	4.4	4.4	4.5	4.8	4.8	7.0	9.7	21	62	33	18	12
17	4.4	4.6	4.5	4.8	4.8	7.6	10	23	62	33	17	12
18	4.3	4.6	4.5	4.8	4.6	7.9	10	27	66	33	17	12
19	4.4	4.6	4.5	4.8	4.4	8.2	10	27	68	33	16	12
20	4.5	4.4	4.6	4.5	4.4	8.1	11	28	63	31	18	12
21	4.5	4.3	4.3	4.3	4.4	7.8	11	34	58	30	17	12
22	4.6	4.3	4.5	3.6	4.6	7.7	11	44	54	29	17	13
23	4.7	4.4	4.4	3.7	4.8	7.6	12	50	51	29	16	13
24	4.7	4.5	3.5	3.8	4.8	7.5	12	55	48	27	15	13
25	4.8	4.3	3.3	4.0	4.8	8.1	12	68	45	26	15	12
26	4.8	4.3	3.5	4.1	4.8	8.4	13	92	43	25	14	13
27	4.8	4.2	3.4	3.9	4.8	9.2	13	126	41	25	14	12
28	4.7	4.3	3.2	3.7	4.8	9.0	14	240	40	24	14	13
29	4.5	4.4	3.3	3.4	---	8.9	14	200	38	23	14	14
30	4.5	4.4	3.4	3.3	---	9.1	14	170	37	22	13	14
31	4.5	---	3.5	3.4	---	9.2	---	150	---	23	13	---
TOTAL	137.0	133.6	130.1	128.9	126.0	218.0	319.1	1609	2180	955	526	377
MEAN	4.42	4.45	4.20	4.16	4.50	7.03	10.6	51.9	72.7	30.8	17.0	12.6
MAX	4.8	4.7	4.6	4.8	4.9	9.2	14	240	132	36	22	14
MIN	4.1	4.2	3.2	3.3	3.7	5.2	9.2	12	37	22	13	12
AC-FT	272	265	258	256	250	432	633	3190	4320	1890	1040	748
CAL YR 1982	TOTAL	1782.7	MEAN	4.88	MAX	9.4	MIN	2.0	AC-FT	3540		
WTR YR 1983	TOTAL	6839.7	MEAN	18.7	MAX	240	MIN	3.2	AC-FT	13570		

BIG SMOKY VALLEY (NORTHERN PART)

93

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 mi², 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, no gage-height record July 8 to August 18.

AVERAGE DISCHARGE.--18 years, 7.06 ft³/s, 5,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft³/s May 29, 1983, gage height, 4.39 ft; minimum, 0.11 ft³/s Sept. 4, 1972.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 11	0700	26	2.42
May 29	1600	*510	4.39
Aug. 20	2200	57	2.21

Minimum daily discharge, 2.5 ft³/s, Jan. 31, Feb. 1, 2.

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	7.0	5.0	3.0	2.8	2.5	6.3	8.5	28	172	30	8.0	8.7
2	7.7	4.4	4.6	2.8	2.5	5.3	9.4	25	125	27	7.7	8.8
3	7.4	4.2	3.9	2.8	2.6	4.6	11	25	105	25	7.4	8.4
4	6.8	4.3	3.8	2.8	2.7	5.3	10	27	90	23	7.3	8.1
5	6.2	4.2	3.8	2.8	2.7	6.4	9.0	30	81	23	7.0	7.7
6	5.7	4.1	3.8	2.8	2.7	6.7	8.1	28	81	22	6.6	7.4
7	5.5	4.0	3.8	3.0	2.7	7.4	7.4	27	86	21	6.6	7.2
8	5.2	3.8	3.8	3.0	2.6	9.0	7.0	34	90	20	6.9	7.0
9	5.0	4.0	3.7	3.1	2.6	15	7.9	39	94	19	6.6	6.9
10	4.6	3.4	3.7	3.1	2.6	22	9.3	37	89	18	6.6	6.5
11	4.5	3.7	3.7	3.1	2.6	25	9.7	30	90	17	6.6	6.2
12	4.3	4.0	3.7	3.0	2.7	22	9.2	25	94	16	6.3	6.0
13	4.1	4.1	3.7	3.1	2.8	21	8.6	21	81	15	6.2	5.9
14	4.0	4.7	3.6	3.1	2.7	21	8.0	20	70	15	5.9	5.7
15	3.9	4.0	3.6	3.1	2.9	16	7.7	24	63	14	6.2	5.6
16	3.8	3.9	3.5	3.1	3.0	13	7.9	29	62	13	6.4	5.5
17	3.6	3.8	3.5	3.1	3.2	11	9.6	28	63	13	6.3	5.3
18	3.5	3.8	3.5	3.0	3.5	9.4	14	32	67	13	14	5.2
19	3.4	3.9	3.4	3.0	3.3	8.5	14	43	68	12	20	5.2
20	3.4	3.5	3.4	2.8	3.7	7.7	15	62	62	12	29	5.3
21	3.3	4.2	3.4	2.8	4.0	7.4	15	80	56	11	33	5.0
22	3.3	3.9	3.5	3.0	4.4	6.9	17	118	53	11	22	4.9
23	3.3	3.8	3.5	2.8	4.9	6.6	25	139	51	11	18	5.1
24	3.3	3.6	3.4	2.8	5.4	6.3	33	175	48	10	15	5.0
25	3.6	3.4	3.3	2.8	5.4	6.2	32	210	45	9.7	14	5.0
26	4.3	3.9	3.0	2.8	5.4	6.0	26	202	42	9.3	13	4.9
27	3.8	3.8	2.9	2.8	5.2	5.9	23	225	39	9.1	11	5.2
28	3.4	3.6	2.8	2.7	4.9	6.0	23	256	36	8.8	11	5.6
29	3.7	3.6	2.8	2.6	---	6.1	28	338	34	8.4	9.8	6.8
30	4.5	3.6	2.8	2.6	---	6.6	32	291	31	8.0	9.3	7.0
31	5.4	---	2.8	2.5	---	8.4	---	205	---	8.4	9.1	---
TOTAL	141.5	110.2	107.7	89.6	96.2	315.0	445.3	2853	2168	472.7	342.8	187.1
MEAN	4.56	3.94	3.47	2.89	3.44	10.2	14.8	92.0	72.3	15.2	11.1	6.24
MAX	7.7	5.0	4.6	3.1	5.4	25	33	338	172	30	33	8.8
MIN	3.3	3.4	2.8	2.5	2.5	4.6	7.0	20	31	8.0	5.9	4.9
AC-FT	281	234	214	178	191	625	883	5660	4300	938	680	371
CAL YR 1982	TOTAL	2145.9	MEAN	5.88	MAX	29	MIN	1.2	AC-FT	4260		
WTR YR 1983	TOTAL	7337.1	MEAN	20.1	MAX	338	MIN	2.5	AC-FT	14550		

BIG SMOKY VALLEY (NORTHERN PART)

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.

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 1982 TO SEPTEMBER 1983

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 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 CaCO ₃)
NOV 20...	1445	3.1	130	8.1	2.0	.60	10.8	99	--	--	51
MAR 14...	1130	21	160	8.3	4.0	1.7	10.4	100	<2	84	69
MAY 25...	1200	166	--	8.0	9.0	200	9.2	100	--	--	43
AUG 16...	1100	7.0	121	8.2	12.0	.70	8.7	101	--	--	46

PAHRUMP VALLEY

10251890 PEAK SPRING CANYON CREEK NEAR CHARLESTON PEAK, NV

LOCATION.--Lat 36°14'40", long 115°43'09", in SW¼NE¼ sec.6, T.20 S., R.56 E., Clark County, Hydrologic Unit 16060015, on left bank 200 ft upstream of Carpenter Road, 11 mi east of State Highway 16, and 14.5 mi east of Pahrump.

DRAINAGE AREA.--3.09 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft, from topographic map.

REMARKS.--Records fair, except those for period of no gage-height record May 23 to June 24 and July 23 to Aug. 31, which are poor.

AVERAGE DISCHARGE.--5 years (1979-83), 2.44 ft³/s, 1,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228 ft³/s Aug. 17, 1983, gage height, 8.68 ft; minimum, 0.20 ft³/s Dec. 21, 1977, Jan. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 228 ft³/s Aug. 17, gage height, 8.68 ft; minimum daily, 0.73 ft³/s Nov. 27-29, Dec. 3, Jan. 6.

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	1.0	1.0	.78	1.0	1.1	2.0	5.1	6.3	27	5.8	2.2	3.4
2	1.0	.94	.78	1.0	1.1	1.9	5.8	5.8	23	5.6	2.1	3.4
3	1.0	.94	.73	1.0	1.1	2.0	6.6	5.8	20	5.3	2.0	3.4
4	1.0	.88	.78	1.0	1.1	1.7	5.8	6.6	18	5.1	1.9	3.1
5	1.0	.88	.78	.88	1.1	1.7	5.1	7.1	17	4.9	1.9	3.1
6	1.0	.94	.83	.73	1.1	2.0	4.7	8.2	15	4.5	1.8	3.1
7	1.0	.94	.88	.88	1.1	2.1	4.1	9.3	14	4.3	1.8	2.8
8	1.0	.94	.88	1.0	1.1	2.1	3.8	11	13	4.3	1.7	2.8
9	1.0	.88	.88	1.1	1.1	2.1	3.8	12	13	4.1	1.7	2.8
10	1.0	1.0	.88	1.1	1.1	2.2	4.0	13	12	4.0	5.0	2.5
11	1.0	.88	.88	1.1	1.2	2.2	4.0	13	11	4.0	3.0	2.3
12	.94	.83	.88	1.2	1.3	2.2	4.0	12	11	3.8	2.4	2.3
13	.94	.83	.88	1.3	1.3	2.2	3.6	12	11	3.6	2.1	2.1
14	.94	.83	.88	1.3	1.3	2.2	3.3	11	11	3.6	2.0	1.9
15	.94	.88	.88	1.4	1.3	2.2	3.2	11	10	3.6	1.8	1.9
16	.94	.88	.83	1.5	1.4	2.3	3.2	13	9.8	3.5	1.8	1.7
17	.88	.88	.83	1.4	1.5	2.3	3.4	13	9.6	3.5	25	1.7
18	.88	.88	.83	1.3	1.6	2.3	4.3	14	9.4	3.3	9.0	1.5
19	.88	.88	.88	1.3	1.6	2.3	4.3	13	9.2	3.2	7.4	1.5
20	.88	.88	.94	1.3	1.7	2.4	4.9	15	9.0	3.2	6.6	1.4
21	.88	.83	.94	1.3	1.8	2.5	4.9	19	8.8	3.0	6.2	1.2
22	.88	.83	1.1	1.2	2.1	2.5	5.1	24	8.5	3.0	5.8	1.2
23	.83	.83	1.1	1.2	2.5	2.5	6.0	27	8.2	3.0	5.4	1.2
24	.88	.83	1.0	1.2	2.5	2.5	6.8	30	8.0	2.8	5.1	1.0
25	.88	.78	1.0	1.1	2.4	2.5	7.4	32	7.7	2.7	4.8	.93
26	.88	.78	1.0	1.1	2.1	2.4	7.4	34	7.4	2.6	4.5	1.4
27	.88	.73	1.0	1.2	2.1	2.4	6.8	35	7.1	2.5	4.3	1.4
28	.88	.73	1.0	1.2	2.0	2.5	6.8	35	6.6	2.4	4.1	1.4
29	.83	.73	1.0	1.2	---	2.6	6.8	35	6.3	3.0	4.0	1.9
30	1.1	.88	1.0	1.1	---	2.3	6.6	33	6.0	2.5	3.9	1.9
31	1.1	---	1.0	1.1	---	4.5	---	30	---	2.4	3.8	---
TOTAL	29.24	25.94	28.05	35.69	42.7	71.6	151.6	546.1	347.6	113.1	135.1	62.23
MEAN	.94	.86	.90	1.15	1.53	2.31	5.05	17.6	11.6	3.65	4.36	2.07
MAX	1.1	1.0	1.1	1.5	2.5	4.5	7.4	35	27	5.8	25	3.4
MIN	.83	.73	.73	.73	1.1	1.7	3.2	5.8	6.0	2.4	1.7	.93
AC-FT	58	51	56	71	85	142	301	1080	689	224	268	123
CAL YR 1982	TOTAL	564.22	MEAN	1.55	MAX	8.8	MIN	.25	AC-FT	1120		
WTR YR 1983	TOTAL	1588.95	MEAN	4.35	MAX	35	MIN	.73	AC-FT	3150		

WALKER LAKE BASIN

97

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 mi², 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 referenced to U.S. Coast and Geodetic Survey bench mark. 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. 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, 3952.9 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 TOTAL CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	3,955.7	2,470,000	--
Oct. 31.	3,956.2	2,488,000	+18,000
Nov. 30.	3,956.9	2,513,000	+25,000
Dec. 31.	3,958.2	2,559,000	+46,000
CAL YR 1982	--	--	+180,000
Jan. 31.	3,958.7	2,577,000	+18,000
Feb. 28.	3,959.0	2,588,000	+11,000
Mar. 31.	3,960.5	2,642,000	+54,000
Apr. 30.	3,961.6	2,682,000	+40,000
May 31.	3,962.8	2,726,000	+44,000
June 30.	3,964.8	2,799,000	+73,000
July 31.	3,966.3	2,855,000	+56,000
Aug. 31.	3,967.0	2,881,000	+26,000
Sept. 30.	3,967.4	2,896,000	+15,000
WTR YR 1982-83	--	--	+426,000

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

WALKER LAKE BASIN

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 mi².

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 altitudes 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, altitude, 7,209.85 ft; minimum observed, 62 acre-ft Oct. 31, Nov. 1, 1964, altitude, 7,200.22 ft.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,990 acre-ft July 7, altitude, 7,209.85 ft; minimum, 2,180 acre-ft between Jan. 25 and April 27, altitude, 7,207.35 ft.

MONTH-END ALTITUDE AND CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,208.15	2,440	--
Oct. 31.	7,208.03	2,400	-40
Nov. 30.	7,207.65	2,280	-120
Dec. 31.	7,207.52	2,240	-40
CAL YR 1982	--	--	+10
Jan. 31.	--	92,270	+30
Feb. 28.	--	92,260	-10
Mar. 31.	--	92,240	-20
Apr. 30.	7,207.52	2,240	0
May 31.	7,209.34	2,820	+580
June 30.	7,209.45	2,860	+40
July 31.	7,209.08	2,740	-120
Aug. 31.	7,208.30	2,490	-250
Sept. 30.	7,207.84	2,340	-150
WTR YR 1982-83	--	--	-100

g: Interpolated.

WALKER LAKE BASIN

99

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 mi².

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 altitudes 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, altitude, 7,203.58 ft; no contents Nov. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,560 acre-ft June 19, altitude, 7,203.58 ft; minimum, 2,690 acre-ft Dec. 31, altitude, 7,196.73 ft.

MONTH-END ALTITUDE AND CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,201.12	4,480	--
Oct. 31.	--	93,760	-720
Nov. 30.	--	93,240	-520
Dec. 31.	7,196.75	2,700	-540
CAL YR 1982	--	--	-240
Jan. 31.	7,200.60	4,260	+1,560
Feb. 28.	7,200.22	4,100	-160
Mar. 31.	--	94,230	+130
Apr. 30.	7,200.21	4,100	-130
May 31.	7,202.61	5,130	+1,030
June 30.	7,202.26	4,980	-150
July 31.	7,201.59	4,680	-300
Aug. 31.	7,199.77	3,920	-760
Sept. 30.	7,197.05	2,820	-1,100
WTR YR 1982-83	--	--	-1,660

9: Interpolated.

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 mi².

PERIOD OF RECORD.--March 1926 to current year. Month-end 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, 42,950 acre-ft Aug. 9, altitude, 6,460.16 ft; minimum, 8,510 acre-ft, altitude, 6,442.42 ft May 14.

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

6,435	2,920	6,449	17,060
6,440	6,240	6,451	20,620
6,445	11,380	6,455	29,160
6,447	13,990	6,461	45,490

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35200	33730	29880	23700	28540	32310	23680	9770	18490	34870	42850	40060
2	35410	33250	29350	23620	28680	31800	23280	9610	19000	35330	42920	39920
3	35490	32770	28490	23660	28880	31140	22480	9460	19500	35990	42920	39740
4	35470	32260	27730	23770	29110	30360	21560	9430	19920	36550	42880	39570
5	35520	31720	26950	23850	29350	29640	20550	9330	20330	37240	42850	39400
6	35440	31310	26220	23980	29620	28950	19440	9220	20680	37700	42760	39200
7	35310	31330	25500	24140	29880	28330	18390	9050	21090	38150	42760	39040
8	35250	31500	25010	24300	30120	27550	17420	8990	21680	38260	42880	38790
9	35200	31920	24450	24430	30220	26790	16520	8970	22250	38400	42950	38540
10	35140	32360	24120	24560	30290	26050	15530	8960	22660	38710	42880	38350
11	35060	32740	23940	24750	30340	25340	14520	8890	23220	38870	42700	38150
12	35010	32840	23830	24920	30510	25010	13720	8690	23960	38900	42520	37900
13	34980	32940	23600	25100	30730	24990	13140	8540	24490	38740	42260	37540
14	34900	33070	23660	25300	30850	24730	12870	8510	24900	38570	42260	37240
15	34800	33090	23770	25520	31020	24260	12740	8590	25320	38120	42460	36900
16	34640	33070	23830	25690	31210	23750	12500	8810	25830	38850	42490	36630
17	34560	33120	23870	25960	31400	23140	12210	8950	26490	39430	42290	36280
18	34430	33650	23910	26240	31620	22620	11940	9020	27440	39800	42140	36070
19	34270	33780	24040	26350	31900	22830	11750	9170	28680	40120	42320	35730
20	34220	33430	24160	26500	32130	23370	11570	9340	29660	40510	42260	35490
21	34140	33040	24350	26840	32310	23790	11380	9620	30390	40880	42370	35360
22	34090	32560	24840	27140	32490	24220	11260	10070	30950	41350	42170	35120
23	34040	32230	24920	27370	32490	24660	11180	10680	31430	41670	41910	35010
24	34040	31950	24990	27710	32410	25080	11030	11270	32130	41880	41640	34870
25	34330	31600	24920	27900	32380	25430	10830	11890	32740	42080	41410	34690
26	34820	31260	25030	28240	32430	25120	10520	12620	33220	42230	41350	34540
27	34800	30920	24900	28380	32490	24640	10270	13530	33810	42340	41200	34300
28	34640	30560	24640	28400	32490	24300	10160	14520	34040	42490	40970	34270
29	34410	30390	24510	28380	---	24180	10100	15570	34250	42610	40740	34350
30	34250	30390	24240	28360	---	24040	9950	16760	34560	42700	40450	34330
31	34190	---	23960	28400	---	24100	---	17700	---	42670	40270	---
MAX	35520	33780	29880	28400	32490	32310	23680	17700	34560	42700	42950	40060
MIN	34040	30390	23600	23620	28540	22620	9950	8510	18490	34870	40270	34270
+	6457.03	6455.51	6452.66	6454.67	6456.36	6452.73	6443.77	6449.37	6457.17	6460.07	6459.25	6457.08
-	-950	-3800	-6430	+4440	+4090	-8390	-14150	+7750	+16860	+8110	-2400	-5940

CAL	YR 1982	MAX	42790	MIN	15840	‡	+8250
WTR	YR 1983	MAX	42950	MIN	8510	‡	-810

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

WALKER LAKE BASIN

101

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼ 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 mi².

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.--60 years (1922-24, 1925-83), 145 ft³/s, 105,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/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 ft³/s Nov. 2-29, Dec. 1-22, 25-28, 1955, Jan. 17-25, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s June 30, gage height, 3.93 ft; minimum daily, 22 ft³/s Jan. 16, 20, 21.

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	250	515	458	258	85	397	728	402	868	860	609	451
2	251	512	554	167	62	508	748	379	868	865	617	447
3	251	512	654	114	27	523	758	378	868	872	642	448
4	251	508	654	104	27	601	754	378	867	872	663	446
5	251	509	658	104	27	564	744	376	687	916	654	427
6	251	431	652	90	27	525	776	375	961	1020	646	418
7	252	193	559	58	48	542	791	373	982	1090	633	396
8	251	56	477	57	130	617	781	372	982	1090	629	405
9	251	48	512	57	130	617	779	371	982	1090	732	426
10	250	44	358	54	130	612	774	372	987	1090	824	427
11	251	101	291	34	130	612	741	383	987	966	810	426
12	250	174	290	30	115	498	621	406	987	833	782	426
13	250	174	243	33	88	536	502	378	987	759	719	425
14	250	191	195	30	88	612	368	362	992	684	667	425
15	249	214	182	32	88	606	341	361	997	650	650	424
16	250	221	185	22	89	607	423	374	997	557	693	406
17	249	221	186	23	89	613	447	408	971	527	710	386
18	249	269	186	23	89	613	447	436	872	530	701	385
19	247	423	185	23	89	267	448	470	782	534	714	385
20	246	458	188	22	89	28	445	522	805	512	719	384
21	246	458	188	22	88	28	445	525	886	454	719	385
22	246	458	189	23	139	27	437	524	911	423	714	384
23	247	423	196	23	238	27	422	580	921	444	667	382
24	247	394	236	27	207	27	422	690	921	504	613	381
25	278	397	239	24	178	27	422	774	921	534	561	381
26	342	397	238	39	178	300	420	831	946	508	472	381
27	368	397	276	165	178	483	417	841	946	490	444	381
28	393	397	291	165	193	182	419	890	1000	494	440	380
29	409	334	290	165	---	182	418	935	1020	501	440	379
30	411	314	290	165	---	416	418	946	992	546	447	380
31	458	---	289	128	---	727	---	957	---	581	451	---
TOTAL	8645	9743	10389	2281	3046	12924	16656	16369	27893	21796	19782	12177
MEAN	279	325	335	73.6	109	417	555	528	930	703	638	406
MAX	458	515	658	258	238	727	791	957	1020	1090	824	451
MIN	246	44	182	22	27	27	341	361	687	423	440	379
AC-FT	17150	19330	20610	4520	6040	25630	33040	32470	55330	43230	39240	24150

CAL YR 1982	TOTAL	113252.4	MEAN	310	MAX	1000	MIN	4.8	AC-FT	224600
WTR YR 1983	TOTAL	161701.0	MEAN	443	MAX	1090	MIN	22	AC-FT	320700

WALKER LAKE BASIN

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 1982 TO SEPTEMBER 1983

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)	HARD- NESS (MG/L AS CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)
OCT 27...	1200	367	119	--	8.0	--	--	--	--
NOV 29...	1400	292	132	--	2.5	--	--	--	--
DEC 28...	1340	290	191	--	2.0	--	--	--	--
JAN 25...	1425	24	203	--	4.0	--	--	--	--
MAR 31...	1630	730	215	--	4.0	--	--	--	--
APR 27...	1625	414	147	--	7.0	--	--	--	--
MAY 23...	1545	578	133	--	12.5	--	--	--	--
JUN 28...	1050	1010	85	--	10.5	--	--	--	--
AUG 02...	1315	589	81	--	16.5	--	--	--	--
SEP 07...	1055	387	100	--	17.5	--	--	--	--
*14...	1040	425	100	8.8	18.0	7.0	37	11	2.2

DATE	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CaCO ₃)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 27...	--	--	--	--	--	--	--	--
NOV 29...	--	--	--	--	--	--	--	--
DEC 28...	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--
APR 27...	--	--	--	--	--	--	--	--
MAY 23...	--	--	--	--	--	--	--	--
JUN 28...	--	--	--	--	--	--	--	--
AUG 02...	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--
*14...	5.2	.4	2.0	40	4.0	1.0	70	80.3

* Data from Calif. Dept. of Water Resources.

WALKER LAKE BASIN

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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 mi², 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. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--31 years (1948-78), 142 ft³/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft³/s Feb. 1, 1963, gage height, 7.60 ft; minimum daily, 2.3 ft³/s Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,360 ft³/s May 30, gage height, 6.94 ft; minimum daily during period of operation, 365 ft³/s Apr. 16.

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							774	416	1240	1040	623	486
2							851	393	1210	941	644	486
3							866	372	1200	929	665	491
4							823	373	1190	932	689	486
5							809	369	1180	935	697	482
6							795	369	1190	969	692	453
7							827	368	1200	1010	700	436
8							826	383	1200	1070	692	408
9							814	395	1170	1060	706	413
10							810	402	1130	1060	829	420
11							813	401	1130	1050	891	423
12							780	417	1140	953	855	427
13							621	428	1140	838	824	425
14							505	406	1130	767	761	429
15							378	408	1140	692	730	427
16							365	429	1130	657	736	429
17							436	441	1130	586	747	416
18							454	469	1060	566	767	390
19							452	520	929	540	775	400
20							475	600	945	543	826	411
21							498	657	963	523	909	408
22							475	681	1030	470	853	423
23							456	719	1030	448	792	432
24							443	782	1020	465	725	439
25							436	878	990	508	665	458
26							412	983	999	521	594	462
27							402	1090	996	496	535	479
28							406	1130	1010	484	516	489
29							414	1210	1020	484	511	503
30							419	1280	1040	503	506	548
31							---	1280	---	566	506	---
TOTAL							17835	19049	32882	22606	21961	13379
MEAN							595	614	1096	729	708	446
MAX							866	1280	1240	1070	909	548
MIN							365	368	929	448	506	390
AC-FT							35380	37780	65220	44840	43560	26540

WALKER LAKE BASIN

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38", in NW¼ 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, 14 mi northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi².

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

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 winter months and period of no gage height record Mar. 31 to May 21, 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.--39 years (1944-83) 52.9 ft³/s, 38,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s Jan. 31, 1963, gage height, 3.22 ft from rating curve extended above 350 ft³/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 ft³/s Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 696 ft³/s, May 28 (1900 hrs), gage-height, 2.56 ft, no other peak above base of 200 ft³/s; minimum daily, 24 ft³/s, Jan. 22.

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	56	54	28	28	25	28	51	72	433	328	197	89
2	52	50	26	28	26	31	55	71	373	341	192	82
3	49	47	26	28	27	32	53	82	364	354	188	71
4	46	46	26	29	26	31	49	94	359	359	176	66
5	45	45	27	28	27	30	46	90	382	392	167	62
6	44	44	27	28	28	31	43	90	392	382	164	61
7	43	42	28	28	27	31	42	96	406	377	171	60
8	42	40	29	28	25	31	44	104	406	307	177	59
9	41	39	30	27	27	33	47	110	417	264	187	56
10	40	43	30	27	27	34	48	112	417	229	183	54
11	39	45	30	26	27	35	47	100	462	225	160	52
12	38	45	30	26	29	37	46	102	433	235	144	52
13	38	45	30	26	32	61	45	110	396	260	138	51
14	39	44	30	26	37	55	45	120	396	291	166	52
15	38	43	31	26	29	54	46	150	401	287	158	51
16	37	43	32	27	29	51	52	170	406	253	144	50
17	36	38	32	27	28	47	56	175	417	232	139	51
18	35	55	30	28	28	42	60	190	392	215	130	48
19	35	51	30	26	36	38	66	230	382	199	148	47
20	36	52	31	25	32	36	70	270	377	190	130	45
21	36	48	32	25	29	35	68	310	364	182	122	45
22	46	43	31	24	28	33	78	364	359	190	112	50
23	44	41	29	25	29	33	82	408	382	193	104	51
24	47	40	34	26	28	31	78	451	392	187	97	49
25	77	38	35	26	28	32	70	487	373	182	91	49
26	93	39	35	27	28	33	65	515	387	171	86	47
27	59	38	35	27	28	33	64	535	368	171	83	49
28	53	37	33	28	26	33	70	582	341	182	78	51
29	54	34	32	29	---	37	73	590	328	185	72	57
30	77	31	28	28	---	47	74	571	332	187	67	58
31	63	---	29	26	---	51	---	506	---	201	84	---
TOTAL	1478	1300	936	833	796	1166	1733	7857	11637	7751	4255	1665
MEAN	47.7	43.3	30.2	26.9	28.4	37.6	57.8	253	388	250	137	55.5
MAX	93	55	35	29	37	61	82	590	462	392	197	89
MIN	35	31	26	24	25	28	42	71	328	171	67	45
AC-FT	2930	2580	1860	1650	1580	2310	3440	15580	23080	15370	8440	3300
CAL YR 1982	TOTAL	32567	MEAN	89.2	MAX	384	MIN	16	AC-FT	64600		
WTR YR 1983	TOTAL	41407	MEAN	113	MAX	590	MIN	24	AC-FT	82130		

WALKER LAKE BASIN

105

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.--181 mi².

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 ft higher.

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.--45 years, 265 ft³/s, 192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft³/s Nov. 20, 1950, gage height, 8.10 ft, from rating curve extended above 1,900 ft³/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 ft³/s Dec. 11, 1937, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,300 ft³/s June 18 (0300 hrs), gage height, 6.00 ft, no other peaks above base of 1,120 ft³/s, minimum daily, 89 ft³/s Feb. 18.

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	223	290	108	108	95	117	176	248	1990	1720	1060	559
2	207	257	100	108	97	120	191	249	1590	1920	1010	482
3	188	234	100	109	101	117	180	288	1480	2080	1000	381
4	171	222	100	110	98	110	169	334	1530	1980	926	315
5	158	212	102	108	100	108	158	310	1640	2260	824	291
6	151	209	105	107	98	108	149	307	1880	2460	803	293
7	145	200	109	107	95	109	145	327	2010	2300	849	289
8	141	186	113	105	96	112	151	363	1940	1690	945	285
9	135	175	113	102	97	122	164	384	2040	1460	1020	273
10	129	184	113	101	95	125	167	389	2210	1170	945	246
11	126	173	113	100	101	130	162	347	2670	1190	784	228
12	122	170	113	99	108	137	155	354	2360	1280	704	225
13	119	162	113	100	113	237	156	377	1920	1460	706	221
14	118	154	115	99	122	230	155	422	1940	1660	750	225
15	119	153	117	100	109	202	162	530	2290	1710	756	224
16	115	149	124	102	103	186	181	595	2520	1370	681	213
17	110	147	120	99	101	174	199	611	2620	1150	623	223
18	105	187	115	100	89	162	209	665	2870	1100	575	210
19	106	184	113	91	115	151	231	806	2480	1020	665	191
20	106	185	119	94	118	144	248	943	2020	965	644	178
21	106	174	123	94	105	139	238	1090	1900	924	541	170
22	179	174	124	92	99	133	272	1340	1980	992	477	187
23	270	164	110	94	102	131	282	1530	2200	1060	439	204
24	324	154	138	100	102	129	266	1740	2260	975	398	191
25	693	142	144	100	102	127	242	1960	2070	960	369	179
26	730	137	150	100	104	123	225	2140	2110	915	354	170
27	377	138	135	101	106	125	222	2270	2010	909	338	172
28	312	139	129	108	106	125	246	2450	1860	988	322	165
29	284	135	121	110	---	132	251	2700	1820	1060	306	179
30	384	115	105	108	---	162	253	2720	1780	1070	299	202
31	342	---	109	100	---	177	---	2350	---	1080	425	---
TOTAL	6795	5305	3613	3156	2882	4404	6005	31139	61990	42878	20538	7374
MEAN	219	177	117	102	103	142	200	1004	2066	1383	663	246
MAX	730	290	150	110	122	237	282	2720	2870	2460	1060	559
MIN	105	115	100	91	89	108	145	248	1480	909	299	165
AC-FT	13480	10520	7170	6260	5720	8740	11910	61760	123000	85050	40740	14630
CAL YR 1982	TOTAL	171872	MEAN	471	MAX	2090	MIN	68	AC-FT	340900		
WTR YR 1983	TOTAL	196079	MEAN	537	MAX	2870	MIN	89	AC-FT	388900		

WALKER LAKE BASIN

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 1982 TO SEPTEMBER 1983*

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)	HARD- NESS (MG/L AS CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
SEP 14...	1000	235	119	8.0	12.0	8.0	37	11	2.3

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 CACO ₃)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
SEP 14...	12	.9	2.0	51	7.0	3.0	82	52.0

* Data from Calif. Dept. of Water Resources.

WALKER LAKE BASIN

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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 mi².

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-00-1: 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.--54 years (1902-7, 1909-10, 1915-37, 1957-83), 280 ft³/s, 202,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 ft³/s Dec. 3, 1924, Aug. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 3,540 ft³/s, May 30 (0200 hrs), gage height, 4.83 ft, no other peak above base of 1,120 ft³/s; minimum daily, 98 ft³/s, Jan. 19.

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	249	306	135	117	108	159	179	255	2160	1750	1090	522
2	235	271	120	118	110	155	196	251	1790	1930	1020	471
3	219	252	110	119	118	153	189	288	1650	2090	1020	380
4	200	244	110	120	109	144	178	348	1760	1970	951	324
5	184	235	112	116	111	139	169	326	1820	2190	850	302
6	177	233	116	116	110	137	159	319	1950	2230	830	301
7	167	226	118	116	114	137	155	338	2060	2180	863	300
8	163	213	118	114	115	140	159	376	1940	1670	944	295
9	155	198	120	112	114	154	171	399	2010	1470	1010	286
10	148	210	120	110	110	155	175	407	2200	1170	979	267
11	144	197	120	108	116	161	171	365	2530	1220	811	250
12	138	192	120	108	129	166	165	368	2290	1350	729	246
13	135	185	125	109	147	255	165	397	1870	1560	729	242
14	135	175	132	108	129	249	166	453	1880	1750	753	242
15	137	176	130	110	131	226	171	580	2170	1800	779	242
16	132	170	141	112	126	210	185	706	2380	1460	704	231
17	128	170	137	110	124	200	207	734	2460	1210	639	238
18	114	207	130	108	121	184	212	827	2700	1150	589	231
19	110	221	129	98	122	172	229	1020	2370	1070	639	212
20	109	212	135	102	134	165	248	1200	1950	1020	645	203
21	107	201	145	102	128	160	237	1400	1890	965	551	197
22	155	202	147	100	124	150	264	1690	1940	1040	489	208
23	229	191	121	100	127	145	286	1950	2150	1100	449	224
24	317	180	150	110	128	146	269	2190	2150	1020	411	214
25	706	165	153	110	133	141	248	2490	2010	1000	383	203
26	802	159	172	110	133	134	236	2550	2100	951	370	193
27	429	161	159	116	138	135	230	2650	1990	931	352	198
28	334	161	139	123	138	136	247	2850	1850	1010	343	193
29	296	165	134	124	---	137	256	2950	1850	1080	326	199
30	391	155	117	121	---	165	257	2870	1780	1090	317	218
31	365	---	119	110	---	184	---	2460	---	1100	403	---
TOTAL	7310	6033	4034	3457	3447	5094	6179	36007	61650	43527	20968	7832
MEAN	236	201	130	112	123	164	206	1162	2055	1404	676	261
MAX	802	306	172	124	147	255	286	2950	2700	2230	1090	522
MIN	107	155	110	98	108	134	155	251	1650	931	317	193
AC-FT	14500	11970	8000	6860	6840	10100	12260	71420	122300	86340	41590	15530
CAL YR 1982	TOTAL	173547	MEAN 475	MAX 1980	MIN 75	AC-FT 344200						
WTR YR 1983	TOTAL	205538	MEAN 563	MAX 2950	MIN 98	AC-FT 407700						

WALKER LAKE BASIN

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, 4,965.4 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, 59,900 acre-ft Aug. 10, altitude, 5,000.58 ft. Minimum contents observed 15,560 acre-ft May 14, altitude, 4,977.48 ft.

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

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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45830	48600	45180	34800	42040	46540	32440	17270	38480	58090	59720	57340
2	46060	48350	44300	34730	42180	46120	31800	17050	39890	57860	59720	57390
3	46180	48070	43290	34730	42370	45280	31080	16840	39950	57730	59600	57410
4	46250	47810	42220	34750	42530	44300	30460	16570	39970	57610	59530	57270
5	46290	47490	40790	34870	42740	43210	29760	16450	41680	57840	59370	57050
6	46310	47240	39930	35080	43000	42080	29090	16260	42390	58050	59320	56890
7	46330	47070	39020	35220	43270	40970	28240	16090	43410	58270	59280	56620
8	46310	46900	38100	35350	43620	39790	27230	16040	44550	58320	59390	56350
9	46250	46790	37170	35480	43870	38580	26190	16040	45490	57840	59670	55810
10	46200	46860	36330	35620	44120	37480	25160	15980	46540	57110	59900	55290
11	46180	46880	35820	35840	44340	36330	24300	15980	47710	56230	59780	54550
12	46140	46900	35300	36140	44570	35430	23510	15890	49530	55580	59510	54130
13	46100	46920	34780	36400	44970	34400	22830	15700	50390	55360	59280	53750
14	46080	46920	34620	36650	45070	33800	22390	15560	50870	55650	59100	53460
15	46060	46860	34670	36940	45180	33000	22050	15600	51370	56190	59050	53290
16	46010	46840	34620	37260	45280	32240	21710	15650	52250	56820	59050	52840
17	45950	46790	34580	37530	45340	31440	21360	15860	53420	57180	58910	52360
18	45890	46820	34580	37820	45510	30840	20980	16020	54690	57360	58870	51830
19	45850	47320	34530	38150	45760	31080	20700	16310	55920	57590	58870	51310
20	45760	47320	34600	38390	45910	31550	20140	16800	56930	57840	59050	50650
21	45700	47260	34600	38660	46120	32070	19840	17720	57070	58180	59160	50070
22	45590	47130	34690	38920	46220	32570	19540	18720	57320	58430	59190	49570
23	45720	47010	35710	39650	46330	33140	19300	20060	57610	58750	59050	48820
24	45850	46770	35710	40160	46370	33690	19200	21660	57980	59070	58820	48350
25	46800	46520	35710	40910	46290	33960	19050	23360	58430	59050	58520	47900
26	48300	46220	35710	41470	46310	34360	18800	25420	58640	59050	58390	47450
27	49010	45950	35690	41650	46290	34970	18450	27440	58710	59210	58180	47010
28	49120	45590	35440	41860	46330	34780	18130	29670	58710	59320	58110	46690
29	49030	45340	35170	41900	---	34580	17850	32070	58570	59510	57930	46220
30	48750	45450	34910	41960	---	34310	17550	34600	58340	59670	57700	45760
31	48750	---	34820	41960	---	33220	---	36750	---	59670	57390	---
MAX	49120	48600	45180	41960	46370	46540	32440	36750	58710	59670	59900	57410
MIN	45590	45340	34530	34730	42040	30840	17550	15560	38480	55360	57390	45760
†	4995.57	4994.01	4988.65	4992.32	4994.43	4987.77	4978.68	4989.68	4999.90	5000.48	4999.48	4994.16
‡	+3280	-3300	-10630	+7140	+4370	-13110	-15670	+19200	+21590	+1330	-2280	-11630

CAL YR 1982 MAX 59780 MIN 25430 † +9660
WTR YR 1983 MAX 59900 MIN 15560 ‡ +290

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

WALKER LAKE BASIN

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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 Hoyer Bridge, 2 mi upstream from head of Saroni Canal, and 4 mi southwest of Wellington.

DRAINAGE AREA.--497 mi².

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.--36 years (1920-23, 1925-32, 1957-83), 249 ft³/s, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft³/s July 8, 1983, gage height, 8.75 ft; minimum observed, 4.8 ft³/s Jan. 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,310 ft³/s July 8, gage height, 8.75 ft; minimum, 18 ft³/s Mar. 26.

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	214	484	605	211	142	395	628	401	1750	2040	1060	380
2	212	464	675	201	139	675	625	379	1680	2040	1050	388
3	211	429	762	188	138	677	622	377	1610	2080	1030	381
4	209	427	758	166	121	735	618	373	1620	2100	997	376
5	209	416	748	127	86	737	600	373	1650	2090	863	373
6	208	368	694	125	85	731	700	361	1680	2180	767	371
7	208	366	622	125	85	740	740	348	1740	2250	770	366
8	207	338	615	123	85	786	730	346	1790	2210	791	386
9	207	258	608	123	84	777	720	350	1800	2020	853	442
10	207	253	545	100	84	766	700	373	1820	1910	1040	445
11	207	253	465	54	88	751	670	377	1850	1810	1020	441
12	201	253	458	52	94	744	608	398	2000	1660	908	430
13	191	252	382	51	116	736	492	397	1980	1480	799	314
14	191	251	264	51	163	724	426	395	1890	1410	787	306
15	190	252	236	51	163	716	387	392	1900	1430	815	305
16	189	251	233	51	164	674	404	401	1990	1350	795	339
17	189	251	228	51	154	514	426	476	2090	1160	731	382
18	190	268	204	51	138	139	465	550	2120	1060	658	384
19	189	320	202	50	138	46	460	570	2250	942	635	419
20	189	340	200	51	138	32	458	617	2190	809	644	437
21	189	334	191	52	138	27	450	660	2060	794	637	434
22	178	332	153	59	150	24	407	728	2030	797	635	428
23	163	340	214	75	180	22	394	839	2050	836	612	425
24	164	365	285	100	212	21	405	1030	2140	986	578	398
25	211	364	278	86	228	20	418	1130	2180	962	489	392
26	364	363	275	122	229	94	416	1250	2130	865	441	391
27	454	361	292	253	231	292	414	1360	2160	817	407	397
28	430	360	324	245	231	448	411	1470	2150	818	402	396
29	446	312	323	237	---	564	410	1580	2100	884	390	395
30	480	326	289	235	---	589	408	1710	2070	968	380	392
31	482	---	229	219	---	584	---	1800	---	1060	380	---
TOTAL	7579	9951	12357	3685	4004	14780	15612	21811	58470	43818	22364	11713
MEAN	244	332	399	119	143	477	520	704	1949	1413	721	390
MAX	482	484	762	253	231	786	740	1800	2250	2250	1060	445
MIN	163	251	153	50	84	20	387	346	1610	794	380	305
AC-FT	15030	19740	24510	7310	7940	29320	30970	43260	116000	86910	44360	23230
CAL YR 1982	TOTAL	176095	MEAN 482	MAX 1630	MIN 15	AC-FT 349300						
WTR YR 1983	TOTAL	226144	MEAN 620	MAX 2250	MIN 20	AC-FT 448600						

WALKER LAKE BASIN

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 mi².

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 ft³/s, 135,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s Dec. 24, 1955, gage height, 7.42 ft, from floodmarks; minimum, 3.8 ft³/s Jan. 22, 1962, but may have been less during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,120 ft³/s June 20, gage height, 6.09 ft; minimum daily during period of operation, 119 ft³/s May 16.

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							586	264	1490	1700	856	311
2							588	243	1410	1650	828	291
3							590	227	1310	1680	799	267
4							589	212	1300	1830	775	254
5							580	212	1320	1810	682	248
6							571	210	1380	1890	540	252
7							680	185	1480	2020	521	241
8							705	181	1620	2000	531	214
9							685	169	1690	1780	545	253
10							681	159	1640	1570	726	285
11							662	162	1710	1440	769	310
12							617	161	1780	1280	664	314
13							476	151	1870	1080	551	306
14							397	155	1780	977	526	257
15							319	125	1710	1010	565	238
16							310	119	1740	1050	582	205
17							317	174	1850	882	568	270
18							349	217	1900	805	490	297
19							331	233	2020	724	498	281
20							342	246	2090	609	523	281
21							330	284	1920	556	562	283
22							291	318	1820	565	554	280
23							259	384	1790	589	569	284
24							265	534	1840	669	585	274
25							285	650	1910	759	530	287
26							273	762	1880	717	469	308
27							264	902	1880	642	407	340
28							266	1030	1880	631	377	380
29							252	1150	1790	660	355	415
30							258	1280	1740	738	333	482
31							---	1460	---	823	321	---
TOTAL							13118	12559	51540	35136	17601	8708
MEAN							437	405	1718	1133	568	290
MAX							705	1460	2090	2020	856	482
MIN							252	119	1300	556	321	205
AC-FT							26020	24910	102200	69690	34910	17270

WALKER LAKE BASIN

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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 mi², approximately.

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

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.--9 years, 318 ft³/s, 230,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft³/s June 19, 1983, gage height, 9.30 ft; minimum daily, 19 ft³/s Oct. 13-17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft³/s June 19, gage height, 9.30 ft; minimum daily, 126 ft³/s Mar. 26.

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	483	1010	925	550	380	604	1160	546	2240	2530	1360	633
2	497	1070	1160	527	293	1260	1240	516	2210	2460	1360	596
3	490	1050	1300	440	268	1410	1280	465	2150	2430	1330	581
4	486	1030	1440	393	248	1460	1290	434	2160	2530	1290	550
5	479	1020	1420	299	207	1550	1290	413	2180	2530	1180	538
6	486	994	1430	305	188	1530	1280	397	2210	2540	1000	508
7	483	920	1350	302	179	1500	1360	373	2270	2640	989	468
8	486	743	1260	285	179	1550	1430	367	2380	2660	1000	427
9	486	542	1170	265	202	1630	1410	364	2500	2580	1020	500
10	490	447	1170	259	227	1640	1410	341	2490	2430	1280	545
11	490	417	954	225	233	1630	1390	357	2540	2350	1550	600
12	479	397	881	193	248	1610	1320	377	2600	2200	1400	630
13	458	458	867	177	268	1530	1100	387	2650	1850	1270	620
14	440	501	645	168	290	1510	886	393	2660	1590	1190	515
15	447	505	531	163	293	1580	687	373	2650	1500	1260	470
16	465	527	497	163	287	1570	588	354	2660	1520	1270	420
17	458	542	494	165	293	1540	629	377	2720	1310	1180	440
18	454	542	472	159	282	1410	670	430	2740	1120	1030	510
19	447	625	454	152	284	954	604	465	2720	1000	969	565
20	437	806	541	159	273	479	608	531	2780	872	1250	560
21	430	839	444	144	273	279	649	653	2730	779	1400	580
22	427	848	444	138	273	205	604	752	2660	757	1340	565
23	390	867	519	172	290	163	569	857	2630	765	1320	550
24	380	862	519	193	420	147	550	974	2650	843	1290	560
25	444	843	550	282	465	136	546	1150	2260	1000	1170	560
26	600	834	565	212	458	126	501	1310	2650	1080	1030	610
27	867	825	565	285	465	298	465	1530	2640	1020	886	660
28	872	834	620	434	468	531	468	1800	2610	979	811	783
29	896	820	645	440	---	700	468	1980	2580	984	802	829
30	964	783	633	430	---	876	501	2150	2540	1090	730	959
31	989	---	585	423	---	1050	---	2230	---	1250	670	---
TOTAL	16700	22501	25050	8502	8234	32458	26953	23646	75460	51189	35627	17332
MEAN	539	750	808	274	294	1047	898	763	2515	1651	1149	578
MAX	989	1070	1440	550	468	1640	1430	2230	2780	2660	1550	959
MIN	380	397	444	138	179	126	465	341	2150	757	670	420
AC-FT	33120	44630	49690	16860	16330	64380	53460	46900	149700	101500	70670	34380
CAL YR 1982	TOTAL	211490	MEAN	579	MAX	1940	MIN	41	AC-FT	419500		
WTR YR 1983	TOTAL	343652	MEAN	942	MAX	2780	MIN	126	AC-FT	681600		

WALKER LAKE BASIN

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 east of Wabuska, and 16 mi upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi², 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 good. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft.

AVERAGE DISCHARGE.--58 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-83), 170 ft³/s, 123,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft³/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, 2,500 ft³/s June 21, gage height, 10.51 ft; minimum, 162 ft³/s Jan. 22.

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	458	900	820	564	417	471	1120	468	2040	2140	1140	380
2	471	948	1070	536	327	863	1220	484	2070	2120	1180	355
3	464	965	1240	452	284	1200	1290	425	2050	2100	1180	328
4	450	935	1410	416	280	1270	1320	380	2000	2100	1070	309
5	427	923	1480	370	242	1340	1310	362	2050	2180	963	303
6	423	910	1460	329	203	1390	1290	345	2090	2230	770	300
7	421	854	1430	325	192	1340	1300	344	2120	2240	671	270
8	415	720	1320	314	197	1310	1410	335	2170	2280	690	218
9	414	528	1210	290	197	1400	1420	339	2250	2340	684	177
10	414	405	1180	283	245	1440	1410	307	2320	2300	811	228
11	416	361	1090	270	258	1450	1410	283	2310	2170	1230	298
12	412	350	878	222	267	1420	1340	236	2340	2060	1210	334
13	395	397	847	203	278	1400	1210	257	2380	1830	1120	336
14	370	443	731	195	304	1280	912	261	2440	1550	1000	249
15	377	451	573	195	313	1400	718	272	2430	1380	986	221
16	371	476	492	194	303	1390	543	258	2370	1330	1020	219
17	375	501	482	197	301	1390	541	230	2360	1250	973	228
18	366	516	473	192	296	1350	603	258	2400	1060	813	287
19	358	559	452	187	292	1110	519	271	2430	894	735	294
20	344	737	446	180	287	599	481	318	2440	790	881	269
21	333	816	450	173	278	357	542	409	2490	681	1100	285
22	344	828	459	167	277	267	511	504	2420	680	1200	282
23	328	858	510	191	286	214	441	598	2300	680	1200	342
24	313	854	533	249	366	216	420	641	2240	720	1190	408
25	348	825	560	288	465	197	425	757	2220	800	1050	529
26	468	813	577	303	448	184	399	900	2220	930	893	525
27	690	802	582	244	451	213	359	1070	2220	900	725	552
28	807	811	606	426	459	511	369	1320	2190	870	615	628
29	806	827	668	481	---	691	375	1540	2160	880	574	685
30	864	805	633	450	---	831	409	1670	2140	940	487	857
31	908	---	616	432	---	939	---	1880	---	1050	417	---
TOTAL	14350	21118	25278	9318	8513	29433	25617	17722	67660	45475	28578	10696
MEAN	463	704	815	301	304	949	854	572	2255	1467	922	357
MAX	908	965	1480	564	465	1450	1420	1880	2490	2340	1230	857
MIN	313	350	446	167	192	184	359	230	2000	680	417	177
AC-FT	28460	41890	50140	18480	16890	58380	50810	35150	134200	90200	56680	21220
CAL YR 1982	TOTAL	178683	MEAN	490	MAX	2050	MIN	28	AC-FT	354400		
WTR YR 1983	TOTAL	303758	MEAN	832	MAX	2490	MIN	167	AC-FT	602500		

WALKER LAKE BASIN

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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 2 months.

SPECIFIC CONDUCTANCES: October 1968 to September 1976, once daily; October 1976 to September 1981, monthly; October 1981 to current year, every 2 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 2 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 2 months.

SEDIMENT DATA: October 1973 to September 1981, monthly; October 1981 to current year, every 2 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 1982 TO SEPTEMBER 1983

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 KF AGAR (COLS. PER 100 ML)
NOV 23...	1100	866	235	8.0	4.5	38	11.0	99	16	K22	570
JAN 19...	1200	188	520	8.2	4.5	13	10.6	97	<10	K7	300
MAR 22...	1145	267	--	--	6.0	23	10.4	99	18	K9	120
MAY 17...	1100	241	400	8.2	14.0	33	8.3	93	24	110	420
JUN 02...	1230	2070	200	7.9	16.0	85	6.8	81	26	--	--
JUL 26...	1200	824	210	7.9	19.0	32	7.3	92	22	120	820
AUG 31...	1100	438	235	8.1	18.5	29	7.6	95	20	70	770

K: NON-IDEAL COLONY COUNT.

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	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)	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 23...	65	19	4.3	19	1.1	2.5	86	22	6.7	.30	10
JAN 19...	141	41	9.3	51	1.9	4.1	166	68	18	.60	25
MAR 22...	121	35	8.1	44	1.8	3.9	150	53	13	.50	22
MAY 17...	111	32	7.5	40	1.7	5.1	133	52	14	.50	23
JUN 02...	60	17	4.2	18	1.1	3.9	81	18	5.3	<.10	18
JUL 26...	62	18	4.1	19	1.1	2.8	80	20	5.9	.30	15
AUG 31...	78	23	4.9	22	1.1	3.0	93	23	6.5	.30	19

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 23...	131	136	306	<.10	.060	1.50	.230	.050	.010	30	6
JAN 19...	315	317	160	.43	<.060	.40	.190	.100	.080	--	--
MAR 22...	261	270	188	.24	<.060	.90	.180	.090	.070	20	12
MAY 17...	241	256	157	.77	.850	3.70	.210	.070	.060	70	11
JUN 02...	132	134	738	<.10	<.060	.90	.270	.100	.100	90	3
JUL 26...	129	133	287	<.10	.020	.90	.180	.100	.070	--	--
AUG 31...	151	158	179	.20	.030	.60	.170	.070	.060	20	10

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)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 23...	27	<1	<1	<1	<3	2	36	<1	26	6	.3
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	46	<1	<1	<1	<3	3	25	2	48	42	.1
MAY 17...	46	<1	<1	<1	<3	3	110	2	33	39	.1
JUN 02...	31	1	<1	<1	<3	5	130	3	15	8	.1
JUL 26...	--	--	--	--	--	--	--	--	--	--	--
AUG 31...	39	2	<1	<1	<3	6	40	3	27	8	.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 23...	<10	<1	<1	1	180	<6.0	5	350	818	65
JAN 19...	--	--	--	--	--	--	--	39	20	--
MAR 22...	30	2	<1	<1	340	<6.0	10	90	65	92
MAY 17...	10	2	<1	<1	310	7.0	40	104	68	--
JUN 02...	<10	4	<1	<1	170	6.0	48	328	1830	47
JUL 26...	--	--	--	--	--	--	--	160	356	--
AUG 31...	10	5	<1	<1	210	<6.0	6	296	350	--

CARSON RIVER BASIN

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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 mi².

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.--23 years, 377 ft³/s, 273,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s Jan. 31, 1963, gage height, 10.21 ft, present datum; minimum, 9.5 ft³/s Nov. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0400	3,180	5.84	Mar. 13	1400	2,070	5.10
Nov. 18	2000	1,520	4.64	May 30	0100	*7,640	8.02

Minimum discharge, 153 ft³/s, Oct. 18, 21.

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	249	515	256	199	221	599	488	544	3800	2060	740	506
2	234	449	261	202	220	499	513	511	2830	2370	704	345
3	219	405	270	206	228	425	482	543	2400	2360	689	291
4	202	378	264	206	215	387	436	679	2420	2130	640	265
5	192	355	256	203	212	372	403	627	2580	2540	589	249
6	187	343	256	211	210	372	379	583	2940	2750	569	241
7	184	325	251	213	262	374	366	611	3140	2450	610	234
8	183	306	226	214	334	392	379	694	2890	1980	711	228
9	178	293	214	211	271	436	422	730	2900	1700	661	227
10	174	298	226	202	249	457	441	749	3410	1430	729	226
11	171	277	225	201	250	481	420	661	4650	1390	574	220
12	174	266	224	196	304	483	390	646	3530	1410	511	213
13	171	261	232	202	454	1480	382	678	2710	1540	475	210
14	166	259	208	201	343	952	364	774	2780	1610	512	207
15	175	251	223	201	315	676	361	973	3460	1550	533	181
16	171	245	225	202	301	578	379	1180	3740	1350	473	203
17	164	249	226	199	296	524	422	1150	4210	1210	442	200
18	158	693	213	198	320	483	442	1290	4250	1120	415	200
19	156	554	212	206	290	443	500	1620	3140	1040	447	187
20	158	376	233	184	294	419	552	1880	2620	970	428	188
21	153	320	349	184	296	403	533	2180	2460	927	397	183
22	203	316	629	262	296	382	585	2810	2630	941	363	205
23	296	292	487	255	315	366	634	3320	3020	938	337	213
24	436	275	339	447	330	371	592	4010	2930	884	314	214
25	1160	261	267	309	328	351	558	4520	2650	856	295	214
26	1790	248	282	289	327	338	527	4730	2670	808	280	234
27	662	255	271	332	319	337	504	5050	2460	785	282	280
28	494	260	250	268	319	339	525	5640	2270	789	267	229
29	440	285	240	263	---	335	556	6230	2250	808	259	255
30	780	273	202	245	---	411	563	5750	2140	793	248	317
31	645	---	198	227	---	519	---	4830	---	776	303	---
TOTAL	10725	9883	8215	7138	8119	14984	14098	66193	89880	44265	14797	7165
MEAN	346	329	265	230	290	403	470	2135	2996	1428	477	239
MAX	1790	693	629	447	454	1480	634	6230	4650	2750	740	506
MIN	153	245	198	184	210	335	361	511	2140	776	248	181
AC-FT	21270	19600	16290	14160	16100	29720	27960	131300	178300	87800	29350	14210
CAL YR 1982	TOTAL	244947	MEAN	671	MAX	6350	MIN	139	AC-FT	485900		
WTR YR 1983	TOTAL	295462	MEAN	809	MAX	6230	MIN	153	AC-FT	586000		

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼ 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 mi².

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 except for period of indefinite gage-height record, May 22 to July 6, which are fair. 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.--57 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-83), 394 ft³/s, 285,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s Dec. 23, 1955, gage height, 11.88 ft, from rating curve extended above 6,000 ft³/s on basis of slope-area measurements at gage heights 9.66 ft and 11.88 ft; minimum observed, 7.8 ft³/s Nov. 20, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0500	2,750	4.57	Mar. 13	1600	2,250	4.08
Nov. 18	2000	1,930	3.81	May 29	unknown	*about 7,700	unknown
Dec. 22	2000	1,960	3.81				

Minimum discharge, 129 ft³/s, Oct. 21.

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	248	510	283	229	252	960	536	619	3600	2210	781	564
2	229	433	283	247	250	657	567	573	2830	2360	743	467
3	212	390	295	247	255	528	524	640	2500	2510	722	379
4	191	361	287	229	237	461	469	810	2530	2280	688	335
5	182	337	277	222	235	435	430	721	2570	2600	627	313
6	173	324	271	234	231	430	403	686	2960	2800	593	298
7	167	311	262	236	336	430	390	727	3150	2490	598	285
8	169	289	233	237	445	456	403	838	2900	2090	755	276
9	165	279	226	232	318	514	457	879	3000	1800	712	271
10	159	286	244	222	289	535	474	900	3600	1530	815	273
11	157	260	233	216	287	562	450	775	4700	1430	693	265
12	157	253	230	213	373	556	412	765	3500	1420	575	258
13	153	247	241	218	599	1560	408	815	2800	1510	531	251
14	151	245	213	217	403	1090	385	918	2900	1600	509	246
15	156	240	229	218	366	794	385	1120	3500	1620	610	235
16	150	234	229	221	346	670	408	1300	3850	1430	546	230
17	143	238	239	215	338	598	460	1270	4350	1280	491	228
18	136	757	223	213	384	546	482	1430	4300	1180	481	225
19	136	644	222	223	331	484	558	1740	3150	1100	484	220
20	136	383	239	198	336	458	633	1950	2680	1030	489	215
21	131	327	386	197	335	438	590	2190	2540	962	478	209
22	173	322	827	335	335	412	672	2900	2740	953	442	221
23	262	298	629	302	359	394	729	3500	3100	979	403	239
24	405	278	394	654	374	394	672	4150	2880	920	374	239
25	1130	261	318	380	374	371	636	4600	2680	888	355	240
26	1630	250	322	347	375	352	589	4970	2690	843	331	235
27	688	259	305	467	375	350	558	5400	2570	795	329	318
28	501	266	274	332	390	355	600	6000	2420	794	322	252
29	434	307	262	315	---	376	644	6390	2390	821	317	263
30	805	320	236	286	---	450	639	5900	2300	821	306	340
31	648	---	246	258	---	578	---	5000	---	812	311	---
TOTAL	10177	9909	9158	8360	9528	17194	15563	70476	91680	45858	16411	8390
MEAN	328	330	295	270	340	555	519	2273	3056	1479	529	280
MAX	1630	757	827	654	599	1560	729	6390	4700	2800	815	564
MIN	131	234	213	197	231	350	385	573	2300	794	306	209
AC-FT	20190	19650	18160	16580	18900	34100	30870	139800	181800	90960	32550	16640
CAL YR 1982	TOTAL	250482	MEAN	686	MAX	4740	MIN	131	AC-FT	496800		
WTR YR 1983	TOTAL	312704	MEAN	857	MAX	6390	MIN	131	AC-FT	620200		

CARSON RIVER BASIN

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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 mi².

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft, from topographic map.

REMARKS.--Records fair, except those for period of no gage-height record, Feb. 13 to Mar. 6, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31 ft³/s Apr. 11, 1982, gage height, 3.86 ft, maximum gage height 3.88 ft, June 3, 1983; minimum, 0.02 ft³/s July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft³/s Jan. 3, gage height, 3.88 ft; minimum 0.25 ft³/s Oct. 16.

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	.47	.59	.91	.98	1.3	4.8	5.3	6.1	15	2.3	12	2.6
2	.44	.52	.85	.97	1.3	3.8	5.2	6.2	13	1.4	11	2.0
3	.45	.52	.96	1.1	1.3	3.0	3.9	6.8	14	1.3	11	3.0
4	.38	.49	1.0	1.1	1.3	3.4	3.4	7.2	12	2.1	10	1.5
5	.37	.50	1.0	1.1	1.4	3.3	3.1	6.4	11	2.1	12	1.5
6	.38	.49	1.1	1.1	1.4	3.3	3.0	6.2	10	1.9	13	1.4
7	.42	.52	1.0	1.1	1.4	3.7	3.2	6.5	12	2.4	14	1.1
8	.46	.53	.92	1.1	1.4	3.9	4.1	6.4	12	2.7	15	1.1
9	.48	.52	.99	1.0	1.4	4.9	4.0	6.6	10	3.2	15	1.4
10	.50	.57	1.0	1.0	1.4	5.4	3.7	6.4	10	3.2	16	1.6
11	.37	.57	1.0	1.0	1.5	6.1	3.4	5.6	9.4	2.4	15	1.0
12	.40	.52	1.0	1.0	1.5	5.3	3.5	5.1	9.2	2.3	15	1.0
13	.49	.52	1.0	1.1	1.8	11	3.3	5.2	8.3	3.4	15	1.0
14	.55	.50	.94	1.1	1.2	10	3.0	5.1	7.1	8.4	16	.88
15	.54	.58	1.0	1.1	1.3	6.4	3.0	5.7	6.3	8.0	15	1.0
16	.33	.57	.92	1.2	.90	5.0	3.4	6.5	6.3	7.3	15	.97
17	.30	.63	.83	1.2	1.1	4.3	3.8	6.8	5.7	9.8	15	1.0
18	.34	.95	.78	1.2	1.1	3.8	4.3	7.9	5.2	11	14	.68
19	.38	.90	.84	1.1	.98	3.4	6.1	9.0	5.0	12	15	.54
20	.44	.76	.89	1.1	.80	3.2	6.9	9.4	4.8	14	15	.56
21	.44	.70	.92	1.1	.86	2.9	7.1	9.6	4.6	13	15	1.5
22	.43	.81	1.2	1.4	1.3	2.6	7.1	10	4.8	13	15	1.8
23	.37	.89	1.2	1.4	1.8	2.4	7.3	10	3.9	12	15	.66
24	.57	.89	1.2	1.7	1.6	2.4	7.7	11	4.4	12	15	.71
25	.92	.83	1.1	1.4	1.4	2.4	8.5	12	3.2	13	10	.83
26	1.1	.78	1.3	1.5	1.2	2.2	6.2	15	2.7	13	1.7	.60
27	.62	.88	1.3	1.5	1.5	2.3	5.7	17	1.8	13	1.8	.49
28	.57	.89	1.2	1.5	1.3	2.2	6.9	19	2.0	11	1.7	.51
29	.53	.87	1.2	1.5	---	2.2	7.5	20	1.9	14	2.3	1.2
30	.78	.76	1.0	1.4	---	3.1	7.6	20	2.1	13	1.9	1.3
31	.76	---	1.0	1.4	---	4.4	---	18	---	13	2.2	---
TOTAL	15.58	20.05	31.55	37.45	36.74	127.1	151.2	292.7	217.7	241.2	360.6	35.43
MEAN	.50	.67	1.02	1.21	1.31	4.10	5.04	9.44	7.26	7.78	11.6	1.18
MAX	1.1	.95	1.3	1.7	1.8	11	8.5	20	15	14	16	3.0
MIN	.30	.49	.78	.97	.80	2.2	3.0	5.1	1.8	1.3	1.7	.49
AC-FT	31	40	63	74	73	252	300	581	432	478	715	70
CAL YR 1982	TOTAL	307.67	MEAN	.84	MAX 16	MIN	.08	AC-FT	610			
WTR YR 1983	TOTAL	1567.30	MEAN	4.29	MAX 20	MIN	.30	AC-FT	3110			

CARSON RIVER BASIN

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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 mi², approximately.

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

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 poor. 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.--9 years (water years 1975-83), 248 ft³/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,000 ft³/s Jan. 14, 1980, gage height, 11.40 ft; minimum, 0.05 ft³/s Sept. 23, 24, Oct. 1-5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s May 29, gage height, 10.89 ft; minimum daily, 12 ft³/s Sept. 18-20.

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	158	360	218	209	259	1050	437	512	2200	1750	492	150
2	147	316	209	212	256	665	462	477	1570	1940	454	124
3	130	287	215	218	263	526	433	512	1300	1960	410	95
4	113	263	209	209	246	455	394	620	1470	1820	393	81
5	104	243	203	203	243	425	364	570	1600	1960	365	74
6	101	240	201	209	237	415	346	527	1840	2040	326	61
7	97	230	192	212	328	405	327	522	1960	1970	329	48
8	98	221	173	206	501	416	333	581	1840	1660	426	37
9	95	212	166	206	328	455	360	575	1830	1480	400	34
10	91	215	171	198	290	464	378	570	1960	1260	476	26
11	88	203	177	195	283	476	359	476	2030	1180	379	29
12	92	198	176	189	336	471	335	452	1480	1140	319	37
13	97	198	181	192	537	1300	342	467	1270	1190	292	34
14	93	192	151	189	394	1010	357	512	1460	1220	280	28
15	93	187	168	192	376	733	352	626	1900	1200	319	24
16	87	184	172	189	358	641	361	711	2090	1060	280	24
17	78	187	174	192	347	576	402	680	2330	958	256	17
18	77	457	162	187	380	536	402	762	2460	892	251	12
19	77	512	157	201	329	492	443	1060	1920	804	223	12
20	78	273	162	179	331	467	486	1240	1700	734	177	12
21	80	230	212	176	330	452	459	1440	1740	680	174	15
22	101	227	708	294	325	429	496	1850	1900	663	158	19
23	156	221	620	305	338	409	537	1940	2140	657	143	24
24	246	206	364	655	345	410	506	2260	2160	620	117	28
25	704	198	283	368	339	384	481	2620	2030	620	97	34
26	1180	187	290	328	349	364	467	2940	2040	602	87	40
27	517	195	273	548	353	352	462	3550	1920	578	82	52
28	381	192	246	352	358	355	486	3740	1810	578	78	60
29	332	224	240	324	---	338	517	4030	1840	565	74	64
30	517	273	209	290	---	387	522	3300	1830	533	59	75
31	462	---	221	269	---	471	---	2880	---	516	49	---
TOTAL	6670	7331	7303	7896	9359	16329	12606	43002	55620	34830	7965	1370
MEAN	215	244	236	255	334	527	420	1387	1854	1124	257	45.7
MAX	1180	512	708	655	537	1300	537	4030	2460	2040	492	150
MIN	77	184	151	176	237	338	327	452	1270	516	49	12
AC-FT	13230	14540	14490	15660	18560	32390	25000	85290	110300	69090	15800	2720

CAL YR 1982 TOTAL 188226.1 MEAN 516 MAX 4610 MIN 6.9 AC-FT 373300
WTR YR 1983 TOTAL 210281.0 MEAN 576 MAX 4030 MIN 12 AC-FT 417100

CARSON RIVER BASIN

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 Woodford, and 3.8 mi downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi².

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.--52 years (1900-1907, 1938-83), 114 ft³/s, 82,590 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft³/s Feb. 1, 1963, gage height, 9.0 ft, on basis of slope-area measurement of peak flow; minimum, about 5 ft³/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 ft³/s, by slope-area measurement.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0700	795	3.56
May 29	2000	*2,290	5.86

Minimum daily, 29 ft³/s, Oct. 18-21.

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	46	156	57	62	61	60	116	154	1170	685	272	339
2	43	138	73	59	59	58	119	141	938	783	264	215
3	40	125	76	56	55	59	106	171	917	700	262	173
4	38	118	73	57	53	61	99	194	944	617	260	156
5	37	110	70	55	53	63	93	181	1010	677	244	142
6	35	109	68	55	51	63	89	187	1090	733	238	137
7	36	104	64	55	53	62	87	199	1130	700	246	129
8	37	93	58	55	52	63	91	220	1020	582	291	124
9	36	90	67	56	52	70	99	229	1030	492	298	120
10	34	91	62	55	52	75	102	237	1150	427	267	115
11	33	87	60	54	53	79	100	227	1510	413	245	107
12	33	85	60	53	56	81	94	236	1140	411	225	122
13	32	81	59	54	56	114	89	263	991	423	214	129
14	31	77	61	54	57	102	86	300	1010	435	221	120
15	32	76	52	54	59	110	85	356	1140	431	227	115
16	31	74	58	54	54	109	89	365	1160	383	206	110
17	30	73	59	54	55	105	101	376	1230	359	207	115
18	29	74	58	55	52	98	107	417	1190	348	207	86
19	29	73	58	52	56	92	124	501	946	336	213	80
20	29	94	58	56	57	88	139	572	868	322	202	79
21	29	91	54	57	56	86	129	680	849	303	201	75
22	47	91	49	54	54	79	147	832	883	304	185	82
23	103	82	47	52	57	78	174	910	928	306	174	82
24	149	76	57	53	62	76	154	1060	896	293	167	76
25	271	71	71	51	62	76	135	1150	861	288	162	73
26	390	67	75	52	59	71	125	1210	843	278	156	83
27	161	68	82	42	56	72	110	1490	805	274	150	115
28	122	70	75	51	60	69	111	1570	771	282	146	104
29	109	53	71	55	---	76	133	1720	753	281	142	107
30	187	44	81	54	---	94	146	1570	706	285	139	102
31	193	---	74	57	---	118	---	1470	---	281	175	---
TOTAL	2452	2641	1987	1683	1562	2507	3379	19188	29879	13432	6606	3612
MEAN	79.1	88.0	64.1	54.3	55.8	80.9	113	619	996	433	213	120
MAX	390	156	82	62	62	118	174	1720	1510	783	298	339
MIN	29	44	47	42	51	58	85	141	706	274	139	73
AC-FT	4860	5240	3940	3340	3100	4970	6700	38060	59260	26640	13100	7160
CAL YR 1982	TOTAL	67723	MEAN 186	MAX 898	MIN 29	AC-FT 134300						
WTR YR 1983	TOTAL	88928	MEAN 244	MAX 1720	MIN 29	AC-FT 176400						

CARSON RIVER BASIN

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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 1982 TO SEPTEMBER 1983

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)	HARD- NESS (MG/L AS CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT									
04...	1330	40	67	--	8.0	--	--	--	--
28...	1458	115	68	--	4.0	--	--	--	--
NOV									
29...	1030	53	63	--	1.5	--	--	--	--
DEC									
28...	1400	73	64	--	.5	--	--	--	--
FEB									
01...	1210	60	71	--	.5	--	--	--	--
MAR									
01...	1025	54	65	--	1.5	--	--	--	--
29...	1136	75	74	--	5.0	--	--	--	--
APR									
27...	1200	107	77	--	4.0	--	--	--	--
JUN									
30...	1330	652	43	--	8.0	--	--	--	--
JUL									
27...	1135	278	45	--	10.5	--	--	--	--
SEP									
*14...	0815	120	59	7.4	10.5	8.6	23	6.4	1.7

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 CACO ₃)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT								
04...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
NOV								
29...	--	--	--	--	--	--	--	--
DEC								
28...	--	--	--	--	--	--	--	--
FEB								
01...	--	--	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
APR								
27...	--	--	--	--	--	--	--	--
JUN								
30...	--	--	--	--	--	--	--	--
JUL								
27...	--	--	--	--	--	--	--	--
SEP								
*14...	2.7	.3	1.0	26	<1.0	<1.0	50	16.2

* Data from Calif. Dept. of Water Resources.

CARSON RIVER BASIN

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW¼NE¼ sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank in Haines Canyon, 0.55 mi upstream from Foothill Road, and 3.5 mi south-southwest of Genoa.

DRAINAGE AREA.--3.82 mi².

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), October 1965 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft, from topographic map.

REMARKS.--Records fair except for the period May 24 to July 15 when the stage-discharge relation was indefinite, which are poor. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971.

AVERAGE DISCHARGE.--18 years, 2.00 ft³/s, 1,450 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft³/s Aug. 5, 1971, gage height, 2.78 ft, from floodmarks, from rating curve extended above 6 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.38 ft³/s Oct. 9-11, 1979, Aug. 21, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s Oct. 26, gage height, 1.58 ft, minimum daily, 1.3 ft³/s Nov. 24-26, Feb. 3, 5.

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	2.0	4.0	1.5	1.7	1.4	2.4	2.7	3.6	5.1	4.2	3.2	2.5
2	1.9	3.4	1.5	1.7	1.4	2.1	3.0	3.3	5.1	4.2	3.2	2.3
3	1.8	3.2	1.4	1.7	1.3	2.0	2.9	3.5	6.3	4.2	3.2	2.3
4	1.9	3.1	1.4	1.7	1.4	1.9	2.9	3.6	7.1	4.2	3.1	2.3
5	1.8	3.1	1.4	1.8	1.3	1.9	2.9	3.5	8.2	4.2	3.2	2.3
6	1.8	3.0	1.4	1.8	1.4	1.9	2.9	3.3	9.4	4.0	3.1	2.3
7	1.9	3.0	1.5	1.8	2.0	1.9	2.9	3.5	10	4.0	3.3	2.3
8	1.9	2.9	1.4	1.6	1.7	1.9	3.0	4.0	11	4.0	4.0	2.3
9	1.9	2.8	1.5	1.6	1.6	1.9	3.3	5.6	12	4.0	4.4	2.3
10	1.9	2.7	1.6	1.6	1.4	1.9	3.2	3.6	12	4.0	4.2	2.3
11	2.0	2.7	1.6	1.5	1.5	1.9	3.1	3.4	12	4.0	3.5	2.3
12	1.9	2.6	1.6	1.5	1.7	2.1	3.1	3.6	10	3.8	3.4	2.3
13	2.0	2.5	1.6	1.5	1.8	5.0	3.2	3.8	9.1	3.8	3.6	2.5
14	2.3	2.4	1.6	1.6	1.6	3.8	3.2	4.0	8.5	3.8	4.9	2.7
15	2.8	2.3	1.5	1.5	1.6	3.1	3.4	4.2	7.6	3.8	4.5	2.7
16	1.9	2.2	1.4	1.5	1.4	2.8	3.5	3.9	6.9	3.8	4.3	2.6
17	2.0	1.9	1.6	1.4	1.4	2.9	3.5	3.8	6.3	3.8	4.2	2.6
18	2.1	1.8	1.4	1.4	1.5	2.7	3.5	4.1	5.3	3.6	4.2	2.6
19	2.1	1.6	1.4	1.4	1.5	2.5	3.6	4.5	4.6	3.6	4.2	2.5
20	2.1	1.4	1.8	1.4	1.5	2.7	3.8	4.6	4.6	3.6	4.2	2.6
21	2.2	1.5	2.3	1.4	1.5	2.8	3.9	4.9	4.6	3.5	4.2	2.5
22	2.4	1.4	2.9	1.4	1.5	2.7	3.9	5.2	4.6	3.5	4.2	2.8
23	3.3	1.4	2.4	1.4	1.6	2.6	3.7	5.6	4.4	3.4	4.2	2.6
24	3.2	1.3	2.0	1.5	1.6	2.7	3.6	5.8	4.4	3.5	4.6	2.5
25	5.7	1.3	1.9	1.7	1.7	2.6	3.6	5.8	4.4	3.2	4.4	2.5
26	6.9	1.3	1.9	2.0	1.8	2.5	3.5	5.8	4.4	3.3	4.4	2.6
27	4.2	1.4	1.8	1.8	1.7	2.8	3.5	5.8	4.4	3.3	4.2	2.7
28	3.6	1.4	1.8	1.6	1.8	2.8	3.7	5.5	4.4	3.3	4.4	3.0
29	3.3	1.5	1.8	1.5	---	2.9	3.9	5.8	4.4	3.4	4.6	3.0
30	4.0	1.6	1.7	1.4	---	3.1	3.7	5.8	4.2	3.3	3.2	3.1
31	4.8	---	1.7	1.4	---	3.0	---	5.5	---	3.3	2.3	---
TOTAL	83.6	66.7	52.3	48.8	43.6	79.8	100.6	138.9	205.3	115.6	120.6	75.9
MEAN	2.70	2.22	1.69	1.57	1.56	2.57	3.35	4.48	6.84	3.73	3.89	2.53
MAX	6.9	4.0	2.9	2.0	2.0	5.0	3.9	5.8	12	4.2	4.9	3.1
MIN	1.8	1.3	1.4	1.4	1.3	1.9	2.7	3.3	4.2	3.2	2.3	2.3
AC-FT	166	132	104	97	86	158	200	276	407	229	239	151

CAL YR 1982 TOTAL 899.65 MEAN 2.46 MAX 18 MIN .80 AC-FT 1780
WTR YR 1983 TOTAL 1131.70 MEAN 3.10 MAX 12 MIN 1.3 AC-FT 2240

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 Mexican Dam, and 5 mi southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi².

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 Data for Gaging Stations."

AVERAGE DISCHARGE.--44 years, 418 ft³/s, 302,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s Dec. 24, 1955, gage height, 16.0 ft, present datum, from floodmarks, from rating curve extended above 6,000 ft³/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 ft³/s Aug. 29, 30, Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	2000	2,510	5.57	Mar. 2	0300	2,790	5.88
Nov. 19	0900	2,240	5.30	Mar. 14	0500	3,090	6.16
Dec. 23	0700	2,540	5.61	May 31	0800	*6,860	9.05
Jan. 24	2200	2,320	5.39				

Minimum daily, 157 ft³/s, Sept. 15.

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	491	930	940	473	580	1920	782	874	6280	2750	746	289
2	437	770	700	519	550	2330	770	820	5490	2650	711	493
3	389	670	619	504	538	1310	758	788	4650	2910	663	515
4	356	613	569	445	515	981	697	937	4120	2780	643	461
5	328	566	538	450	504	853	643	959	3840	2700	604	396
6	314	542	511	450	493	788	598	874	3880	2780	567	335
7	304	523	500	450	617	752	561	853	4060	2860	532	230
8	301	506	456	445	1260	752	561	916	4200	2590	573	194
9	304	478	413	435	916	782	580	989	4160	2150	746	176
10	289	482	416	418	663	813	624	1000	4070	1830	881	168
11	280	483	418	407	586	833	611	888	4250	1610	1040	173
12	288	465	411	390	586	840	586	807	4790	1480	981	200
13	287	451	435	385	874	1480	538	782	4890	1480	833	194
14	285	430	431	396	807	2470	555	833	4280	1520	746	168
15	277	422	424	396	704	1360	538	996	4030	1540	764	157
16	280	409	426	401	643	1130	544	1320	4320	1490	776	173
17	257	404	426	440	604	1010	611	1320	4520	1360	718	188
18	253	477	437	418	663	944	663	1350	4730	1260	630	179
19	253	1790	413	450	733	860	690	1690	4880	1140	611	203
20	256	1080	415	424	697	794	764	2120	4320	1020	650	241
21	256	749	544	396	663	788	788	2340	3660	937	740	216
22	261	631	1060	440	630	746	800	2840	3370	916	782	209
23	345	630	2030	981	624	718	888	3440	3440	853	758	241
24	512	592	1050	1410	643	726	916	3980	3610	826	663	294
25	999	553	713	1600	624	697	902	4460	3540	794	561	311
26	2040	506	614	930	690	643	846	4980	3430	788	498	330
27	1670	488	615	1170	726	624	800	5400	3290	746	471	359
28	1040	491	578	1070	820	617	813	5610	3080	740	440	401
29	800	559	530	782	---	586	888	6030	2940	733	396	407
30	923	784	487	690	---	617	909	6440	2860	711	349	521
31	1270	---	518	637	---	764	---	6770	---	683	302	---
TOTAL	16345	18474	18637	18802	18953	30528	21224	73406	122980	48627	20375	8422
MEAN	527	616	601	607	677	985	707	2368	4099	1569	657	281
MAX	2040	1790	2030	1600	1260	2470	916	6770	6280	2910	1040	521
MIN	253	404	411	385	493	586	538	782	2860	683	302	157
AC-FT	32420	36640	36970	37290	37590	60550	42100	145600	243900	96450	40410	16710
CAL YR 1982	TOTAL	314562	MEAN	862	MAX	6830	MIN	70	AC-FT	623900		
WTR YR 1983	TOTAL	416773	MEAN	1142	MAX	6770	MIN	157	AC-FT	826700		

CARSON RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft, from topographic map.

REMARKS.--Records fair. 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.--7 years (1977-83), 1.83 ft³/s, 1,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48 ft³/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 ft³/s June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft³/s July 15, gage height, 4.62 ft; minimum daily, 1.8 ft³/s Dec. 10-17, Jan. 9-16, 21, 29, 31.

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	2.6	3.4	2.4	2.2	2.0	12	7.1	2.7	8.4	8.4	11	5.4
2	2.6	4.0	2.2	2.0	2.0	4.9	6.2	2.6	8.0	8.4	11	5.4
3	2.6	2.9	2.1	2.1	2.0	3.4	6.0	2.6	8.0	8.7	7.7	6.0
4	2.6	2.9	2.0	2.0	2.1	3.2	5.2	2.7	7.7	11	6.0	5.4
5	2.4	2.7	2.0	2.1	2.1	3.1	4.2	2.6	7.7	10	7.4	5.4
6	2.4	2.9	2.0	2.0	2.2	2.9	3.8	2.6	8.4	6.5	9.1	6.0
7	2.7	2.6	2.0	2.0	7.7	2.9	3.6	2.6	7.1	6.0	9.1	5.7
8	2.9	2.4	2.0	2.0	4.2	2.9	3.4	2.6	6.5	5.7	7.7	6.0
9	2.9	2.4	2.0	1.8	3.1	2.9	3.4	2.6	6.8	6.2	7.1	5.7
10	2.9	2.4	1.8	1.8	3.1	2.9	3.6	2.6	7.4	6.2	6.2	5.4
11	2.7	2.4	1.8	1.8	2.9	2.9	3.6	2.6	9.4	6.2	6.2	6.0
12	2.7	2.4	1.8	1.8	3.4	3.2	3.4	2.6	10	6.2	6.5	6.0
13	2.9	2.4	1.8	1.8	4.0	9.4	3.4	2.6	7.1	7.1	6.8	5.4
14	2.7	2.4	1.8	1.8	3.1	5.7	3.4	2.7	6.8	10	7.1	5.7
15	2.7	2.4	1.8	1.8	3.1	4.9	3.4	3.1	8.4	11	6.5	5.4
16	2.7	2.4	1.8	1.8	3.1	5.2	3.4	3.2	8.4	9.1	5.4	7.1
17	2.7	2.4	1.8	2.0	3.1	5.2	3.4	3.2	8.7	9.1	5.4	6.8
18	2.7	3.4	2.0	2.0	3.4	4.5	3.4	3.2	8.7	7.4	6.2	5.2
19	2.7	2.7	2.0	2.1	3.6	3.2	3.4	3.6	8.0	6.2	4.9	2.7
20	2.7	2.7	2.0	2.0	3.4	3.2	3.6	4.5	7.7	6.5	4.9	2.7
21	2.6	2.6	2.7	1.8	4.0	2.6	3.6	4.9	8.0	6.8	6.2	4.0
22	2.6	2.6	4.7	3.2	4.5	2.9	3.8	5.4	9.1	7.7	5.2	4.0
23	2.6	2.6	4.5	3.1	4.2	3.6	3.8	6.0	9.4	6.8	7.4	4.5
24	2.6	2.6	3.6	5.4	4.0	3.8	4.2	6.8	10	6.2	8.0	4.7
25	3.6	2.6	3.8	3.6	5.2	5.4	4.5	7.7	9.8	8.7	8.4	4.0
26	3.8	2.6	3.6	4.2	4.9	5.2	3.6	8.7	8.4	7.7	6.8	3.8
27	3.2	2.6	3.1	3.2	4.9	4.9	3.2	8.7	8.7	10	7.4	3.4
28	2.7	2.7	2.7	2.0	6.2	4.0	2.9	8.7	8.4	9.8	6.8	3.4
29	2.7	2.9	2.6	1.8	---	3.2	3.6	8.7	9.1	9.4	7.1	4.0
30	2.9	2.6	2.2	2.0	---	3.4	3.1	8.7	8.7	9.8	6.8	4.0
31	2.9	---	2.2	1.8	---	9.1	---	8.7	---	9.4	6.0	---
TOTAL	86.0	80.6	74.8	71.0	101.5	136.6	117.2	140.5	248.8	248.2	218.3	149.2
MEAN	2.77	2.69	2.41	2.29	3.63	4.41	3.91	4.53	8.29	8.01	7.04	4.97
MAX	3.8	4.0	4.7	5.4	7.7	12	7.1	8.7	10	11	11	7.1
MIN	2.4	2.4	1.8	1.8	2.0	2.6	2.9	2.6	6.5	5.7	4.9	2.7
AC-FT	171	160	148	141	201	271	232	279	493	492	433	296
CAL YR 1982	TOTAL	1045.31	MEAN	2.86	MAX	18	MIN	.72	AC-FT	2070		
WTR YR 1983	TOTAL	1672.70	MEAN	4.58	MAX	12	MIN	1.8	AC-FT	3320		

CARSON RIVER BASIN

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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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 5,080 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 (1977-83), 3.54 ft³/s, 2,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft³/s Jan. 13, 1980, gage height, 3.85 ft; minimum daily, 0.80 ft³/s Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s May 28, gage height, 3.61 ft; minimum daily, 3.5 ft³/s Feb. 4, 5.

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	4.9	5.2	4.5	3.9	3.6	5.9	7.0	6.4	21	16	11	8.1
2	4.9	4.9	4.3	3.8	3.6	5.5	6.5	6.3	21	17	10	7.4
3	4.7	4.7	4.1	3.8	3.6	5.2	6.0	6.7	21	16	10	7.2
4	4.4	4.6	4.0	3.8	3.5	5.0	5.8	7.3	20	15	10	7.0
5	4.4	4.5	4.0	3.9	3.5	4.9	5.5	7.1	20	15	10	6.8
6	4.4	4.5	4.0	3.8	3.6	4.9	5.3	6.8	20	15	9.8	6.7
7	4.5	4.4	4.0	3.8	4.6	5.1	5.2	7.0	19	15	9.9	6.6
8	4.4	4.4	4.0	3.9	4.4	5.4	5.4	7.2	20	14	10	6.5
9	4.4	4.2	4.0	4.1	4.1	5.7	5.5	7.1	20	14	10	6.5
10	4.4	4.2	3.9	3.9	3.9	5.8	5.5	6.9	21	13	11	6.4
11	4.3	4.2	3.9	3.8	3.9	5.9	5.4	6.5	22	13	9.9	6.3
12	4.2	4.2	3.9	3.8	4.2	5.8	5.2	6.8	20	13	9.6	6.3
13	4.2	4.2	3.9	3.8	4.6	17	5.1	7.1	20	13	9.5	6.2
14	4.1	4.2	3.9	3.8	4.2	9.4	5.0	7.5	20	13	11	6.1
15	4.1	4.2	3.9	3.8	4.1	7.2	5.0	8.6	20	12	10	6.0
16	4.1	4.2	3.9	3.8	4.1	6.3	5.1	9.1	21	12	9.0	6.0
17	4.0	4.2	3.9	3.7	4.2	6.0	5.3	8.1	21	12	8.8	6.0
18	4.0	7.0	3.9	3.8	4.4	5.6	5.6	8.7	20	11	8.8	5.9
19	4.1	5.5	3.9	3.8	4.2	5.2	6.0	9.4	20	11	9.7	5.9
20	4.1	4.8	4.4	3.8	4.2	5.1	6.5	9.9	19	11	10	5.9
21	4.1	4.5	5.2	3.8	4.2	5.0	6.7	12	19	11	9.5	5.9
22	4.2	4.4	6.0	4.1	4.3	5.0	7.0	13	19	11	9.8	6.7
23	4.7	4.4	5.4	3.8	4.5	4.9	7.0	14	20	11	8.7	6.8
24	4.5	4.4	4.7	4.1	4.5	4.8	6.7	16	19	11	8.2	6.5
25	8.8	4.4	4.5	3.9	4.7	4.7	6.3	17	19	11	8.0	6.3
26	8.8	4.4	4.4	4.1	4.6	4.6	6.1	20	19	11	7.7	6.2
27	5.5	4.6	4.2	4.2	4.6	4.7	5.9	23	18	10	7.5	6.2
28	5.3	4.8	4.1	3.9	4.7	4.7	6.2	25	17	11	7.4	6.2
29	5.7	5.2	3.9	3.8	---	5.0	6.5	24	17	10	7.3	7.0
30	7.0	4.8	3.8	3.8	---	6.0	6.5	23	16	11	7.2	7.2
31	5.7	---	3.9	3.7	---	8.5	---	22	---	11	7.6	---
TOTAL	150.9	138.2	130.4	119.8	116.6	184.8	176.8	359.5	589	390	286.9	194.8
MEAN	4.87	4.61	4.21	3.86	4.16	5.96	5.89	11.6	19.6	12.6	9.25	6.49
MAX	8.8	7.0	6.0	4.2	4.7	17	7.0	25	22	17	11	8.1
MIN	4.0	4.2	3.8	3.7	3.5	4.6	5.0	6.3	16	10	7.2	5.9
AC-FT	299	274	259	238	231	367	351	713	1170	774	569	386

CAL YR 1982 TOTAL 2053.3 MEAN 5.63 MAX 19 MIN 2.0 AC-FT 4070
WTR YR 1983 TOTAL 2837.7 MEAN 7.77 MAX 25 MIN 3.5 AC-FT 5630

CARSON RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft, from topographic map.

REMARKS.--Records fair. 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."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft³/s Jan. 15, 1980, gage height, 13.50 ft; minimum daily, 1.0 ft³/s Sept. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,900 ft³/s May 31, gage height, 12.79 ft; minimum daily, 145 ft³/s Sept. 15.

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	490	1120	919	431	603	1900	805	919	6260	2670	674	262
2	469	803	808	432	564	2450	777	896	5930	2530	656	308
3	419	694	673	436	540	1620	788	830	5130	2740	613	467
4	387	626	628	454	525	1100	755	847	4150	2800	577	435
5	360	583	585	449	501	902	704	992	3850	2570	539	388
6	335	546	559	451	490	813	660	924	3810	2640	502	350
7	318	524	536	454	501	771	627	864	4040	2780	474	286
8	310	505	519	454	880	738	599	869	4250	2690	479	231
9	312	484	475	447	1200	741	595	950	4340	2170	646	202
10	309	470	442	436	763	786	621	985	4170	1800	786	171
11	296	473	446	422	623	799	647	991	4220	1570	986	161
12	286	462	441	411	577	805	637	845	4630	1390	980	159
13	292	449	440	401	634	932	607	806	5200	1350	833	163
14	290	438	457	393	872	2300	587	790	4700	1400	715	152
15	285	422	437	390	706	1750	591	865	3980	1440	669	135
16	281	412	443	393	654	1260	588	1090	4040	1430	724	136
17	272	399	435	417	619	1110	602	1330	4350	1300	675	140
18	251	409	448	431	607	1030	674	1270	4530	1180	588	152
19	244	713	439	417	721	948	686	1470	4840	1060	547	143
20	251	1700	428	439	688	850	733	1840	4780	945	609	146
21	250	950	442	404	669	815	810	2080	3910	868	659	166
22	246	691	692	392	641	794	788	2400	3390	821	742	164
23	253	643	1000	651	621	752	846	2970	3300	786	730	185
24	335	618	2000	950	626	745	935	3410	3460	775	640	213
25	551	583	900	1300	627	738	945	3780	3540	731	542	247
26	1000	549	646	1700	663	698	910	4220	3400	725	478	257
27	1800	518	612	960	704	661	838	4770	3320	664	451	271
28	1350	514	593	1150	775	640	831	5140	3080	665	425	307
29	950	534	553	900	---	647	870	5370	2850	660	395	340
30	755	642	519	728	---	614	933	5700	2790	645	350	394
31	950	---	453	658	---	679	---	5970	---	624	306	---
TOTAL	14897	18474	18968	18351	18594	31388	21989	66183	124240	46419	18990	7131
MEAN	481	616	612	592	664	1013	733	2135	4141	1497	613	238
MAX	1800	1700	2000	1700	1200	2450	945	5970	6260	2800	986	467
MIN	244	399	428	390	490	614	587	790	2790	624	306	135
AC-FT	29550	36640	37620	36400	36880	62260	43620	131300	246400	92070	37670	14140
CAL YR 1982	TOTAL	301646	MEAN	826	MAX	5060	MIN	39	AC-FT	598300		
WTR YR 1983	TOTAL	405624	MEAN	1111	MAX	6260	MIN	135	AC-FT	804600		

10312000 CARSON RIVER NEAR PORT 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 Port Churchill, and 4.5 mi upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,203 mi².

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.--72 years, 375 ft³/s, 271,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 2	unknown	about 2,900	unknown
Mar. 14	1700	2,690	4.56
June 1	0600	*6,350	6.28

Minimum daily, 135 ft³/s, Sept. 15.

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	490	1120	919	431	603	1900	805	919	6260	2670	674	262
2	469	803	808	432	564	2450	777	896	5930	2530	656	308
3	419	694	673	436	540	1620	788	830	5130	2740	613	467
4	387	626	628	454	525	1100	755	847	4150	2800	577	435
5	360	583	585	449	501	902	704	992	3850	2570	539	388
6	335	546	559	451	490	813	660	924	3810	2640	502	350
7	318	524	536	454	501	771	627	864	4040	2780	474	286
8	310	505	519	454	880	738	599	869	4250	2690	479	231
9	312	484	475	447	1200	741	595	950	4340	2170	646	202
10	309	470	442	436	763	786	621	985	4170	1800	786	171
11	296	473	446	422	623	799	647	991	4220	1570	986	161
12	286	462	441	411	577	805	637	845	4630	1390	980	159
13	292	449	440	401	634	932	607	806	5200	1350	833	163
14	290	438	457	393	872	2300	587	790	4700	1400	715	152
15	285	422	437	390	706	1750	591	865	3980	1440	669	135
16	281	412	443	393	654	1260	588	1090	4040	1430	724	136
17	272	399	435	417	619	1110	602	1330	4350	1300	675	140
18	251	409	448	431	607	1030	674	1270	4530	1180	588	152
19	244	713	439	417	721	948	686	1470	4840	1060	547	143
20	251	1700	428	439	688	850	733	1840	4780	945	609	146
21	250	950	442	404	669	815	810	2080	3910	868	659	166
22	246	691	692	392	641	794	788	2400	3390	821	742	164
23	253	643	1000	651	621	752	846	2970	3300	786	730	185
24	335	618	2000	950	626	745	935	3410	3460	775	640	213
25	551	583	900	1300	627	738	945	3780	3540	731	542	247
26	1000	549	646	1700	663	698	910	4220	3400	725	478	257
27	1800	518	612	960	704	661	838	4770	3320	664	451	271
28	1350	514	593	1150	775	640	831	5140	3080	665	425	307
29	950	534	553	900	---	647	870	5370	2850	660	395	340
30	755	642	519	728	---	614	933	5700	2790	645	350	394
31	950	---	453	658	---	679	---	5970	---	624	306	---
TOTAL	14897	18474	18968	18351	18594	31388	21989	66183	124240	46419	18990	7131
MEAN	481	616	612	592	664	1013	733	2135	4141	1497	613	238
MAX	1800	1700	2000	1700	1200	2450	945	5970	6260	2800	986	467
MIN	244	399	428	390	490	614	587	790	2790	624	306	135
AC-FT	29550	36640	37620	36400	36880	62260	43620	131300	246400	92070	37670	14140
CAL YR 1982	TOTAL	301646	MEAN	826	MAX	5060	MIN	39	AC-FT	598300		
WTR YR 1983	TOTAL	405624	MEAN	1111	MAX	6260	MIN	135	AC-FT	804600		

CARSON RIVER BASIN

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 Buckland Ditch, which leaves river 400 ft upstream from gage, or from river at 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 1982 TO SEPTEMBER 1983

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 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 CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)
NOV 22...	1130	688	280	7.8	3.0	20	11.4	99	150	1100	87	24
MAR 21...	1145	810	270	7.3	6.5	41	10.1	97	K19	260	93	26
MAY 16...	1145	1070	180	7.9	12.0	60	9.1	98	550	990	60	17
31...	1415	6030	115	7.9	16.0	--	--	--	--	--	50	14
AUG 30...	1130	352	270	8.3	18.5	6.8	8.0	100	K32	97	96	27

K: NON-IDEAL COLONY COUNT.

CARSON RIVER BASIN

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10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	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)
NOV 22...	6.5	21	1.0	4.2	94	37	9.6	.20	22	180	182	334
MAR 21...	6.7	18	.8	2.5	89	39	8.3	.20	23	174	178	381
MAY 16...	4.3	11	.6	2.0	58	23	3.5	.10	19	112	115	324
31...	3.7	7.4	.5	3.0	--	24	2.8	.10	21	101	--	--
AUG 30...	6.8	20	.9	3.7	93	38	7.9	.20	22	172	182	163

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)
NOV 22...	.24	.120	1.40	.260	.160	.090	--	120	5	44	<1
MAR 21...	.36	.070	1.10	.280	.120	.100	--	10	5	38	<1
MAY 16...	.15	<.060	.50	.320	.080	.060	--	30	6	27	<1
31...	<.10	<.060	.80	.220	.120	.090	8.8	3300	9	69	1
AUG 30...	<.10	<.010	.50	.160	.130	.120	--	20	8	53	1

DATE	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, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 22...	1	<1	<3	2	--	160	<1	26	--	9	--
MAR 21...	<1	<1	<3	3	--	36	3	24	--	7	--
MAY 16...	<1	<1	<3	5	--	48	1	14	--	4	--
31...	4	<1	<3	26	17000	2600	19	6	540	200	33
AUG 30...	<1	<1	<3	7	--	73	2	24	--	6	--

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 22...	.2	<10	<1	<1	<1	270	<6.0	7	56	104	--
MAR 21...	<.1	20	2	<1	<1	300	<6.0	19	141	308	90
MAY 16...	.3	<10	2	1	<1	200	<6.0	37	200	578	92
31...	<.1	<10	1	<1	<1	150	11	39	992	--	49
AUG 30...	.1	10	4	<1	<1	300	<6.0	6	25	24	--

CARSON RIVER BASIN

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 mi² (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 Newlands 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, 307,500 acre-ft June 29, altitude, 4,162.97 ft; minimum observed, 168,500 acre-ft May 20, altitude, 4,147.17 ft.

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

4,147	167,500	4,160	272,500
4,150	187,200	4,162	295,100
4,155	225,600	4,163	307,900

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199200	211400	208600	200800	195600	195600	206900	181900	215300	307400	289000	249600
2	199500	212100	208800	200200	195500	196200	206100	181100	222400	307400	287900	247700
3	200100	212500	209000	199500	195000	199300	205700	180300	230100	306700	286600	245800
4	201000	212600	209100	199100	194300	202200	205100	180500	237200	306600	285600	244000
5	201300	212800	208800	198600	193700	203200	204500	179000	241600	306500	284700	241300
6	201600	212600	208600	198300	193200	203700	203900	178600	244400	306500	283000	240100
7	201900	212500	208300	198000	192700	204200	203400	177900	247900	306500	281300	236500
8	202100	212400	207900	197600	192300	204400	202800	177000	251900	306200	279100	236000
9	202300	211900	207500	197200	192300	204400	201900	175800	256000	306100	277300	234400
10	202600	211500	207000	196700	193100	204400	200700	174900	259500	305800	275600	232500
11	202900	211000	206600	196000	193200	204500	199900	174400	263400	305500	274500	230600
12	203300	210400	205700	195300	192900	204600	199000	174300	267300	305300	273400	228700
13	203500	209900	205400	194700	192500	205000	197900	174000	271700	304500	272100	226900
14	203100	209100	204700	194000	192000	205100	196900	171200	279000	303800	271600	225600
15	202800	208400	204100	193500	192000	207000	195900	170200	284400	303100	271100	223500
16	202800	208100	203400	193200	191900	209300	195000	169100	286600	302500	269800	221900
17	202700	207900	202800	192500	192200	210600	194000	169000	290100	302000	268600	220900
18	202600	208000	202100	192000	192900	211300	192800	168800	293500	301800	267600	218200
19	202200	207400	201400	191400	193000	212100	191400	168700	297100	301300	266500	216300
20	202100	208100	200900	190900	193000	212300	190000	168500	300000	301000	265500	214300
21	201900	209600	200400	190300	193200	212500	189800	168700	302500	300200	264500	212400
22	201800	210300	199700	189900	193500	212500	189400	169400	304200	299600	263800	210400
23	201700	210600	199400	189500	193700	212200	189000	170000	305100	299000	262700	208900
24	201600	210600	200500	189100	193900	212000	188300	172400	305800	297600	261600	207000
25	201600	210300	202300	189700	194200	211500	186900	175700	306200	297100	260500	204800
26	201500	210100	202800	191600	194500	211300	186600	179700	306600	296600	259500	204400
27	201300	209700	202800	193200	194700	210700	186300	184400	306900	295000	258500	203100
28	206400	209100	202400	193700	195000	210200	184400	189600	307100	293900	257500	201900
29	208500	209000	202100	194200	---	209400	183600	195500	307500	293000	256500	200700
30	209500	208900	201900	194800	---	208300	182800	201400	307400	291800	253400	199900
31	210200	---	201400	195600	---	207700	---	207700	---	290400	251500	---
MAX	210200	212800	209100	200800	195600	212500	206900	207700	307500	307400	289000	249600
MIN	199200	207400	199400	189100	191900	195600	182800	168500	215300	203000	251500	199900
†	4153.12	4152.95	4151.97	4151.18	4151.10	4152.80	4149.36	4152.80	4162.96	4161.60	4157.90	4151.77
‡	+11600	-1300	-7500	-5800	-600	+12700	-24900	+24900	+99700	-17000	-38900	-51600
CAL YR 1982	MAX	300400	MIN	164100	‡	+38800						
WTR YR 1983	MAX	307500	MIN	168500	‡	+1300						

† Altitude, in feet NGVD, at end of month.

‡ Change in contents, in acre-feet.

CARSON RIVER BASIN

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10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E1SE1 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 mi² (not counting inflow from Truckee Canal).

WATER-DISCHARGE RECORDS

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 good, except those for period of no gage-height record, June 11-27, which are 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.

AVERAGE DISCHARGE.--17 years, 557 ft³/s, 403,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft³/s June 28, 1983, gage height, 8.05 ft; minimum daily, 1.6 ft³/s Oct. 25 to Nov. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,970 ft³/s June 28, gage height, 8.05 ft; minimum daily discharge, 131 ft³/s Oct. 7, 10, 11.

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	135	576	725	736	744	587	1060	1230	1520	2740	1290	1280
2	133	577	728	736	811	652	1070	1230	1540	2540	1290	1280
3	132	575	728	736	845	668	1040	1260	1590	2430	1300	1280
4	133	576	728	740	845	672	1050	1280	1610	2470	1290	1280
5	133	578	728	740	840	676	1040	1280	1620	2540	1290	1280
6	132	579	728	736	845	676	1040	1280	1630	2560	1300	1280
7	131	578	728	732	849	716	1040	1280	1630	2510	1300	1280
8	132	663	728	732	949	765	1030	1280	1620	2420	1290	1280
9	132	718	724	732	849	765	1030	1280	1610	2400	1270	1200
10	131	721	728	736	853	769	1020	1310	1610	2330	1280	1160
11	131	720	728	736	853	773	1030	1330	1620	2090	1290	1160
12	261	728	728	736	853	781	1060	1330	1620	1830	1290	1160
13	362	737	728	712	858	785	1100	1320	1630	1670	1270	1110
14	362	723	728	736	858	845	1080	1350	1630	1500	1280	1080
15	362	631	728	736	858	928	1130	1360	1620	1410	1280	1080
16	361	535	728	736	674	955	1150	1350	1620	1420	1260	1090
17	361	539	728	736	554	955	1150	1350	1800	1380	1280	1090
18	360	540	732	736	561	955	1160	1350	2010	1350	1270	1100
19	360	541	732	736	554	955	1230	1380	2400	1350	1260	1100
20	360	541	732	736	558	955	1240	1400	2850	1240	1290	1100
21	359	542	728	736	561	955	1230	1410	3040	1240	1280	1100
22	359	604	732	736	565	955	1240	1400	3100	1250	1280	1050
23	359	650	728	736	569	955	1230	1400	3160	1250	1290	1000
24	360	690	728	736	576	955	1230	1400	2900	1270	1290	1000
25	359	712	732	736	584	1030	1230	1410	2940	1260	1290	1000
26	358	716	732	740	587	1040	1230	1460	2950	1260	1290	950
27	359	719	740	740	587	1050	1240	1510	2930	1260	1290	950
28	360	719	740	740	587	1110	1240	1510	2910	1270	1290	875
29	400	721	740	740	---	1160	1240	1520	2880	1290	1290	875
30	537	724	736	744	---	1110	1230	1520	2810	1290	1290	875
31	576	---	736	744	---	1100	---	1520	---	1290	1280	---
TOTAL	8990	19173	22637	22820	20227	27253	34090	42290	64400	54110	39830	33345
MEAN	290	639	730	736	722	879	1136	1364	2147	1745	1285	1112
MAX	576	737	740	744	949	1160	1240	1520	3160	2740	1300	1280
MIN	131	535	724	712	554	587	1020	1230	1520	1240	1260	875
AC-FT	17830	38030	44900	45260	40120	54060	67620	83880	127700	107300	79000	66140
CAL YR 1982	TOTAL	267827.0	MEAN	734	MAX	1490	MIN	4.0	AC-FT	531200		
WTR YR 1983	TOTAL	389165.0	MEAN	1066	MAX	3160	MIN	131	AC-FT	771900		

WATER-QUALITY RECORDS

SEDIMENT DATA: October 1979 to November 1980, monthly (unpublished).

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 96 mg/L Jan. 14, 1980; minimum, 10 mg/L Feb. 13, 1980.

WATER TEMPERATURES: Maximum and minimum presumably not measured (see "Period of Record").

[illegible]

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY

[illegible]

CARSON RIVER BASIN

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.--17 years, 71.1 ft³/s, 51,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s June 30, 1983, gage height, 7.99 ft; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft³/s June 30, gage height, 7.99 ft; minimum daily, 9.3 ft³/s, Oct. 17.

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	24	219	534	473	609	439	575	490	302	1570	196	314
2	21	219	518	493	609	437	578	513	314	1540	181	287
3	18	221	521	503	617	458	581	532	328	1510	174	296
4	17	232	524	521	629	500	583	529	371	1430	161	310
5	18	237	524	526	632	506	583	529	400	1350	157	316
6	17	261	524	537	632	511	581	542	432	1320	131	303
7	18	314	545	569	635	516	589	529	458	1310	173	304
8	21	318	556	564	638	532	583	529	506	1300	207	298
9	14	354	513	564	623	545	569	524	521	1280	194	286
10	14	420	500	564	617	545	572	516	521	1260	191	233
11	14	418	548	564	626	550	569	511	529	1230	217	181
12	14	393	561	558	623	556	567	561	534	1160	250	184
13	13	402	586	564	620	561	572	553	550	973	260	175
14	12	407	600	583	620	561	580	521	569	829	276	146
15	11	404	606	614	623	564	567	511	599	628	268	110
16	9.7	391	609	623	609	567	550	521	640	507	251	103
17	9.3	367	600	632	561	583	498	513	646	435	230	116
18	14	359	548	632	480	612	468	495	680	415	188	120
19	14	352	537	606	453	606	404	430	765	352	186	117
20	20	369	537	623	432	592	398	400	863	330	202	105
21	15	391	537	623	427	595	400	395	999	308	310	100
22	14	400	526	623	425	592	407	374	1080	280	347	110
23	15	413	478	623	423	595	400	378	1140	259	355	99
24	12	451	466	626	413	580	384	371	1220	234	338	75
25	13	463	461	626	430	567	389	371	1320	222	310	58
26	14	490	461	626	437	532	409	359	1390	219	321	61
27	17	500	461	620	439	500	439	326	1440	199	342	69
28	17	508	458	617	434	506	398	318	1490	200	357	40
29	18	511	456	617	---	516	400	308	1530	198	364	66
30	25	537	456	612	---	532	444	297	1570	191	357	119
31	165	---	456	612	---	559	---	299	---	189	328	---
TOTAL	638.0	11321	16207	18138	15316	16815	15037	14045	23707	23228	7822	5101
MEAN	20.6	377	523	585	547	542	501	453	790	749	252	170
MAX	165	537	609	632	638	612	589	561	1570	1570	364	316
MIN	9.3	219	456	473	413	437	384	297	302	189	131	40
AC-FT	1270	22460	32150	35980	30380	33350	29830	27860	47020	46070	15510	10120

CAL YR 1982 TOTAL 70257.2 MEAN 192 MAX 609 MIN 1.5 AC-FT 139400
WTR YR 1983 TOTAL 167375.0 MEAN 459 MAX 1570 MIN 9.3 AC-FT 332000

HUMBOLDT RIVER BASIN

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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 mi².

PERIOD OF RECORD.--October 1943 to September 1980, October 1981 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft, 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 poor. 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.--39 years (1943-80, 1982-83, 66.2 ft³/s, 47,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft³/s Feb. 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 15	0500	282	3.86	Apr. 26	0100	746	6.07
Apr. 1	1800	257	3.72	May 30	1800	*1,040	6.79

Minimum daily discharge, 3.3 ft³/s, Sept. 20.

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	53	27	15	19	90	245	488	1010	129	24	11
2	26	45	26	16	18	153	248	481	962	118	23	12
3	25	42	25	20	15	174	240	464	839	111	23	12
4	24	38	24	24	20	163	221	456	773	105	22	12
5	23	37	22	26	25	163	192	479	690	97	22	12
6	23	36	21	28	27	149	170	529	634	90	21	11
7	23	35	19	36	29	147	157	546	591	84	20	8.8
8	22	35	18	38	29	147	152	496	553	77	19	8.1
9	22	34	17	35	28	143	153	466	536	71	18	6.6
10	21	33	15	34	29	152	168	466	520	68	19	6.0
11	21	31	15	34	29	164	182	452	506	67	22	6.0
12	21	29	15	33	29	179	181	423	509	58	23	6.0
13	21	28	17	31	31	182	176	380	493	52	23	5.7
14	20	27	23	30	31	230	174	341	431	49	21	4.9
15	20	25	27	30	29	279	170	325	364	46	21	4.6
16	19	23	29	29	30	245	169	320	326	45	21	4.2
17	19	31	28	29	32	213	184	312	295	43	22	4.3
18	19	31	25	28	32	200	209	291	270	40	22	3.8
19	18	33	28	27	35	177	251	285	264	39	22	3.7
20	18	32	27	25	31	160	286	287	261	38	22	3.3
21	18	27	29	24	30	144	324	299	250	37	23	3.4
22	20	23	32	22	32	141	381	341	246	35	23	3.9
23	20	22	31	24	34	137	440	434	197	33	22	4.5
24	20	20	30	26	38	132	502	541	174	32	21	6.2
25	21	18	32	24	44	127	619	604	163	30	20	8.1
26	23	20	24	29	55	121	700	637	160	28	19	10
27	24	22	20	34	64	118	601	725	157	27	18	16
28	27	24	18	32	67	121	528	795	151	26	17	19
29	31	25	15	28	---	114	509	861	138	25	15	19
30	35	26	15	23	---	115	501	968	128	25	14	18
31	51	---	14	20	---	157	---	1010	---	24	13	---
TOTAL	720	905	708	854	912	4937	9033	15502	12591	1749	635	254.1
MEAN	23.2	30.2	22.8	27.5	32.6	159	301	500	420	56.4	20.5	8.47
MAX	51	53	32	38	67	279	700	1010	1010	129	24	19
MIN	18	18	14	15	15	90	152	285	128	24	13	3.3
AC-FT	1430	1800	1400	1690	1810	9790	17920	30750	24970	3470	1260	504

CAL YR 1982	TOTAL	45009.8	MEAN 123	MAX 698	MIN 5.0	AC-FT 89280
WTR YR 1983	TOTAL	48800.1	MEAN 134	MAX 1010	MIN 3.3	AC-FT 96790

HUMBOLDT RIVER BASIN

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 mi², 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 good except those for winter months, 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.--47 years (1915-22, 1943-83) 44.6 ft³/s, 32,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 829 ft³/s Sept. 26, 1982, gage height, 6.23 ft, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft³/s Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 310 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	unknown	*735	6.05	June 17	2200	476	5.28
June 10	2100	551	5.53	July 6	1900	420	5.08

Minimum daily, 7.4 ft³/s, Feb. 16, result of freeze up.

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	69	42	25	9.5	8.3	9.4	15	30	442	214	66	23
2	66	40	25	9.5	8.2	9.7	15	32	406	254	62	23
3	71	41	25	9.5	8.1	10	14	32	380	212	58	23
4	63	41	25	10	8.1	9.7	15	33	400	216	57	25
5	58	38	24	11	8.2	10	15	33	372	269	54	22
6	56	36	23	11	9.6	10	14	33	378	330	52	21
7	60	38	22	11	10	10	14	34	383	260	50	18
8	58	36	21	11	10	9.9	14	37	392	240	55	17
9	56	34	21	10	10	11	14	38	409	203	63	18
10	54	31	20	10	10	11	14	37	463	161	69	17
11	48	29	19	9.8	10	11	14	37	496	143	65	17
12	47	25	19	9.6	11	12	14	37	369	143	50	16
13	46	25	18	9.0	11	15	14	35	285	151	44	15
14	45	25	18	8.5	10	15	14	36	271	151	41	14
15	45	25	17	8.3	9.9	14	14	35	294	148	45	12
16	45	25	17	8.3	7.4	13	14	33	333	120	46	12
17	43	25	17	8.3	7.6	14	15	34	375	115	57	11
18	42	25	17	8.3	8.5	13	16	35	403	112	46	11
19	39	25	17	8.4	8.1	13	17	40	346	114	44	12
20	38	25	17	8.4	9.4	13	10	48	296	110	45	12
21	41	25	17	8.5	9.0	13	19	65	260	101	56	12
22	40	25	17	8.5	8.5	13	22	90	299	99	47	12
23	40	25	16	8.8	9.4	13	27	130	351	100	41	13
24	40	25	15	9.0	9.7	13	32	185	353	91	37	16
25	42	25	12	9.0	9.0	14	33	252	333	86	33	13
26	45	25	11	8.7	9.4	14	33	296	274	80	31	13
27	43	25	10	8.6	8.7	14	33	375	292	70	28	21
28	43	25	9.5	8.5	9.2	14	33	558	260	68	27	21
29	47	25	9.5	8.5	---	14	33	652	256	66	26	21
30	48	25	9.5	8.4	---	14	32	693	234	63	25	21
31	44	---	9.5	8.4	---	16	---	576	---	63	23	---
TOTAL	1522	881	543.0	284.3	256.3	385.7	591	4581	10405	4553	1443	502
MEAN	49.1	29.4	17.5	9.17	9.15	12.4	19.7	148	347	147	46.5	16.7
MAX	71	42	25	11	11	16	33	693	496	330	69	25
MIN	38	25	9.5	8.3	7.4	9.4	14	30	234	63	23	11
AC-FT	3020	1750	1080	564	508	765	1170	9090	20640	9030	2860	996

CAL YR 1982	TOTAL	25443.4	MEAN	69.7	MAX	469	MIN	2.7	AC-FT	50470
WTR YR 1983	TOTAL	25947.3	MEAN	71.1	MAX	693	MIN	7.4	AC-FT	51470

HUMBOLDT RIVER BASIN

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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 mi².

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

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

REMARKS.--Records poor. 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 discharge, 72 ft³/s May 30, 1983, gage height, 1.85 ft; no flow many months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s May 30, gage height, 1.85 ft; no flow Oct. 1 to Nov. 4.

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	.00	.00	.19	.16	.31	1.3	3.7	16	40	2.1	.60	.12
2	.00	.00	.23	.16	.36	1.4	3.7	16	25	2.0	.60	.10
3	.00	.00	.23	.19	.31	1.5	3.9	17	27	1.9	.60	.10
4	.00	.00	.27	.19	.27	1.7	3.9	19	30	1.8	.60	.10
5	.00	.01	.31	.23	.23	1.7	3.7	18	27	1.7	.60	.10
6	.00	.01	.27	.23	.31	1.3	3.4	17	25	1.6	.58	.10
7	.00	.02	.27	.27	.31	1.5	3.4	16	23	1.5	.54	.10
8	.00	.02	.27	.27	.31	1.7	3.4	14	19	1.4	.54	.10
9	.00	.02	.27	.27	.36	2.1	3.9	13	20	1.3	.53	.10
10	.00	.03	.31	.31	.36	3.5	3.9	13	19	1.2	.51	.10
11	.00	.03	.27	.31	.41	5.0	4.1	12	18	1.2	.48	.10
12	.00	.03	.27	.27	.41	5.8	4.1	12	14	1.1	.45	.10
13	.00	.04	.27	.27	.41	7.4	4.1	12	13	1.1	.43	.10
14	.00	.06	.27	.27	.41	7.7	4.1	11	12	1.0	.42	.10
15	.00	.08	.27	.31	.41	6.7	4.3	12	8.9	.95	.40	.10
16	.00	.08	.27	.31	.41	5.8	4.8	11	9.9	.90	.38	.10
17	.00	.10	.27	.31	.41	5.2	5.8	11	9.9	.85	.38	.10
18	.00	.10	.23	.31	.47	4.8	7.0	12	8.5	.80	.37	.10
19	.00	.13	.23	.31	.47	4.3	8.4	13	6.5	.75	.37	.10
20	.00	.13	.23	.31	.41	3.9	9.1	14	6.2	.70	.36	.10
21	.00	.13	.23	.31	.41	3.7	11	15	4.0	.70	.34	.10
22	.00	.13	.23	.31	.47	3.4	12	16	3.7	.68	.32	.10
23	.00	.13	.19	.31	.75	3.1	22	17	3.9	.66	.30	.10
24	.00	.13	.23	.31	.92	3.1	44	22	3.7	.66	.28	.10
25	.00	.13	.23	.31	1.2	2.9	26	27	2.9	.66	.26	.10
26	.00	.13	.19	.31	1.3	2.9	21	36	3.1	.66	.24	.10
27	.00	.13	.19	.36	1.2	2.9	17	51	2.8	.66	.23	.10
28	.00	.16	.16	.36	1.2	2.7	16	49	2.6	.66	.21	.10
29	.00	.19	.16	.36	---	2.7	15	48	2.3	.66	.20	.10
30	.00	.23	.16	.36	---	3.1	15	51	2.2	.66	.18	.10
31	.00	---	.16	.31	---	3.9	---	56	---	.66	.16	---
TOTAL	.00	2.38	7.33	8.87	14.80	108.7	291.7	667	393.1	33.17	12.46	3.02
MEAN	.000	.079	.24	.29	.53	3.51	9.72	21.5	13.1	1.07	.40	.10
MAX	.00	.23	.31	.36	1.3	7.7	44	56	40	2.1	.60	.12
MIN	.00	.00	.16	.16	.23	1.3	3.4	11	2.2	.66	.16	.10
AC-FT	.00	4.7	15	18	29	216	579	1320	780	66	25	6.0
CAL YR 1982	TOTAL	514.92	MEAN	1.41	MAX	14	MIN	.00	AC-FT	1020		
WTR YR 1983	TOTAL	1542.53	MEAN	4.23	MAX	56	MIN	.00	AC-FT	3060		

HUMBOLDT RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 6,560 ft, from topographic map.

REMARKS.--Records fair except for period when stage-discharge relation was indefinite, April 22 to May 28, which are poor. 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 daily discharge, 114 ft³/s May 30, 1983, gage height, 2.96 ft; minimum daily, 1.2 ft³/s Aug. 2, 3, 23, to Aug. 4, 11, 1981, Oct. 4, 5, 15-18, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft³/s May 30, gage height, 2.96 ft, minimum daily, 1.8 ft³/s Oct. 16-18.

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	4.5	2.9	2.0	2.6	2.5	4.0	7.0	26	83	7.6	3.4	2.9
2	3.8	2.7	4.3	2.6	2.6	4.0	7.1	26	82	7.0	3.4	2.9
3	3.3	2.6	2.8	2.6	2.6	4.2	7.0	28	64	6.7	3.4	2.9
4	2.9	2.6	2.5	2.6	2.5	4.4	6.7	41	57	6.5	3.4	2.9
5	2.7	2.6	2.4	2.6	2.5	4.4	6.6	39	51	6.2	3.4	2.9
6	2.5	2.6	2.4	2.6	2.5	4.4	6.5	37	45	6.2	3.2	2.9
7	2.4	2.5	2.4	2.6	2.6	4.5	6.0	37	41	6.1	3.2	2.9
8	2.3	2.4	2.4	2.6	2.6	4.8	6.3	34	36	6.1	3.6	2.9
9	2.2	2.4	2.4	2.6	2.6	5.2	6.5	32	24	5.8	3.8	2.9
10	2.1	2.4	2.4	2.6	2.5	6.8	6.6	31	20	5.5	3.2	2.9
11	2.0	2.4	2.4	2.6	2.6	7.7	6.5	26	20	5.2	3.4	2.9
12	2.0	2.3	2.4	2.6	2.5	7.9	6.6	23	17	4.8	3.2	2.9
13	2.0	2.2	2.4	2.5	2.8	9.1	6.6	21	15	4.6	3.2	2.9
14	1.9	2.1	2.5	2.5	2.8	11	6.7	21	13	4.5	3.2	2.9
15	1.9	2.1	2.5	2.6	2.7	9.4	7.2	23	13	4.6	3.2	2.9
16	1.8	2.1	2.5	2.6	2.5	8.4	8.3	21	13	4.5	3.4	2.8
17	1.8	2.2	2.5	2.8	2.7	7.5	10	19	13	4.3	3.4	2.8
18	1.8	2.3	2.5	2.8	2.8	7.1	12	23	13	4.1	3.1	2.8
19	1.9	2.4	2.5	2.8	3.6	6.5	14	24	12	4.0	3.4	2.8
20	2.0	2.3	2.5	2.8	2.8	6.2	16	25	11	4.0	3.6	2.8
21	2.0	2.3	2.4	2.8	2.8	5.8	17	34	9.7	3.9	3.4	2.8
22	2.0	2.2	2.4	2.5	3.0	5.7	21	45	9.1	3.8	3.4	2.9
23	2.0	2.1	2.4	2.6	3.3	5.2	66	52	9.1	3.7	3.2	3.0
24	2.0	2.1	2.4	2.5	3.5	5.3	72	58	9.3	3.6	3.1	3.1
25	2.3	2.2	2.4	2.6	4.0	5.2	57	62	9.1	3.6	3.0	3.0
26	3.1	2.2	2.4	2.5	4.0	5.1	36	66	8.9	3.6	3.0	3.0
27	2.6	2.2	2.4	2.6	4.0	5.1	28	62	8.7	3.5	3.0	3.0
28	2.3	2.2	2.5	2.5	4.0	4.9	26	70	8.5	3.5	3.0	3.1
29	2.8	2.3	2.6	2.7	---	4.9	26	81	8.1	3.5	3.0	3.1
30	3.7	2.3	2.6	2.8	---	5.7	25	102	7.7	3.4	3.0	3.5
31	3.2	---	2.6	2.6	---	8.0	---	95	---	3.4	2.9	---
TOTAL	75.8	70.2	77.8	81.3	81.9	188.4	534.2	1284	731.2	147.8	101.1	88.0
MEAN	2.45	2.34	2.51	2.62	2.93	6.08	17.8	41.4	24.4	4.77	3.26	2.93
MAX	4.5	2.9	4.3	2.8	4.0	11	72	102	83	7.6	3.8	3.5
MIN	1.8	2.1	2.0	2.5	2.5	4.0	6.0	19	7.7	3.4	2.9	2.8
AC-FT	150	139	154	161	162	374	1060	2550	1450	293	201	175
CAL YR 1982	TOTAL	2468.9	MEAN	6.76	MAX	50	MIN	1.3	AC-FT	4900		
WTR YR 1983	TOTAL	3461.7	MEAN	9.48	MAX	102	MIN	1.8	AC-FT	6870		

HUMBOLDT RIVER BASIN

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10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'00", long 115°38'00", in SE1/4 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 mi², 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 for winter months, which are fair. 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.--46 years (1896-1902, 1945-83), 248 ft³/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s Mar. 4, 1983, gage height, 12.18 ft, maximum gage height, 12.3 ft Feb. 13, 1962; no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,100 ft³/s Mar. 4, gage height, 12.18 ft; minimum daily, 41 ft³/s Sept. 20, 21.

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	308	338	242	155	170	1060	1020	1850	2880	861	118	89
2	322	309	229	150	180	1630	1180	1740	3460	817	114	85
3	338	277	229	150	170	3840	1180	1630	3650	781	119	83
4	309	259	215	155	160	6530	1110	1560	3480	751	115	89
5	280	247	218	160	160	4500	1010	1520	3590	701	112	87
6	262	233	226	170	160	3410	931	1500	3710	655	100	83
7	249	224	232	180	170	2560	880	1480	3150	635	84	80
8	241	217	201	200	190	2150	834	1390	2710	615	81	85
9	228	210	191	235	180	1900	807	1310	2480	601	78	78
10	222	209	211	285	180	1730	832	1290	2370	585	81	72
11	217	203	203	290	190	1610	894	1300	2370	571	92	71
12	200	199	201	285	200	1510	912	1250	2540	549	101	69
13	177	196	195	270	225	1470	850	1210	2800	495	103	68
14	169	182	194	260	246	1530	799	1160	2540	454	105	62
15	164	171	191	240	240	1900	766	1110	2170	414	108	54
16	159	171	195	230	222	1540	772	1070	1850	371	131	52
17	158	189	198	230	234	1330	818	1070	1650	340	143	49
18	154	210	203	230	262	1270	910	1040	1500	321	141	46
19	150	272	206	220	264	1170	1100	975	1410	301	143	43
20	149	306	192	180	245	1060	1260	908	1370	273	147	41
21	149	298	218	160	243	956	1370	861	1380	245	172	41
22	148	272	218	150	255	895	1490	842	1340	232	195	42
23	148	227	252	160	278	872	1620	851	1220	220	197	46
24	150	197	230	160	338	867	1720	904	1100	202	174	64
25	152	209	190	165	452	862	2020	966	1010	187	148	82
26	168	208	155	180	604	840	1990	1060	989	180	136	85
27	206	213	170	190	662	813	1810	1190	998	171	124	84
28	216	215	150	210	837	799	1710	1350	966	159	115	101
29	215	228	150	190	---	774	1710	1570	923	145	108	122
30	231	231	150	180	---	758	1850	1840	899	134	102	126
31	295	---	160	170	---	812	---	2250	---	122	96	---
TOTAL	6534	6920	6215	6190	7717	52948	36155	40047	62505	13088	3783	2179
MEAN	211	231	200	200	276	1708	1205	1292	2084	422	122	72.6
MAX	338	338	252	290	837	6530	2020	2250	3710	861	197	126
MIN	148	171	150	150	160	758	766	842	899	122	78	41
AC-FT	12960	13730	12330	12280	15310	105000	71710	79430	124000	25960	7500	4320
CAL YR 1982 TOTAL	159216.7			MEAN 436	MAX 1770	MIN 4.5	AC-FT 315800					
WTR YR 1983 TOTAL	244281.0			MEAN 669	MAX 6530	MIN 41	AC-FT 484500					

HUMBOLDT RIVER BASIN

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 mi², 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.--40 years, 364 ft³/s, 263,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,130 ft³/s Mar. 5, 1983, gage height, 10.17 ft; maximum gage height, 10.21 ft Feb. 14, 1962; minimum, 0.1 ft³/s Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft³/s, based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,130 ft³/s Mar. 5, gage height, 10.17 ft; minimum, 69 ft³/s Sept. 19, 20.

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	462	418	363	194	214	1650	1410	2690	4430	1710	241	129
2	472	448	353	188	203	2700	1600	2660	4810	1650	196	124
3	453	433	348	201	206	2820	1860	2550	5270	1580	188	122
4	454	402	346	200	185	3870	1750	2360	5580	1510	178	120
5	435	382	337	207	191	6830	1640	2250	5330	1450	165	121
6	406	365	335	225	204	5190	1480	2190	5240	1430	154	122
7	384	351	338	277	244	4240	1360	2130	5390	1390	145	118
8	371	338	313	336	232	3520	1270	2080	5040	1300	139	112
9	358	326	257	366	230	2990	1200	1980	4580	1230	135	111
10	346	315	242	398	251	2820	1170	1850	4240	1180	141	111
11	335	310	252	415	269	2500	1230	1810	4180	1120	187	106
12	328	304	248	400	305	2300	1300	1820	4390	1070	182	103
13	316	300	287	379	622	2000	1300	1760	4320	998	171	102
14	293	285	258	337	497	1850	1240	1650	4370	919	162	99
15	283	266	295	305	399	2100	1170	1580	4200	840	168	94
16	276	258	298	296	369	2300	1110	1530	3710	774	187	89
17	270	267	290	292	402	2000	1110	1470	3350	688	206	84
18	268	283	287	301	570	1700	1170	1440	3110	613	241	75
19	262	344	295	326	595	1500	1290	1400	2970	564	237	71
20	259	383	288	291	488	1400	1490	1320	2780	512	255	71
21	255	414	312	270	474	1300	1760	1270	2620	468	263	74
22	251	407	323	247	531	1200	2040	1280	2520	430	270	76
23	249	364	382	259	638	1100	2220	1360	2470	410	273	80
24	248	284	330	256	725	1100	2450	1470	2360	385	261	112
25	250	258	265	263	963	1100	2640	1660	2210	354	236	123
26	269	260	203	266	1470	1050	2880	1870	2080	324	210	122
27	302	275	246	300	1490	1000	2910	2110	1970	299	191	141
28	311	303	209	328	1380	950	2670	2430	1900	278	171	166
29	322	332	194	327	---	900	2550	2880	1840	256	158	196
30	357	357	193	287	---	900	2540	3400	1780	234	149	197
31	409	---	205	243	---	1000	---	4010	---	220	140	---
TOTAL	10254	10032	8892	8980	14347	67880	51810	62260	109040	26186	6000	3371
MEAN	331	334	287	290	512	2190	1727	2008	3635	845	194	112
MAX	472	448	382	415	1490	6830	2910	4010	5580	1710	273	197
MIN	248	258	193	188	185	900	1110	1270	1780	220	135	71
AC-FT	20340	19900	17640	17810	28460	134600	102800	123500	216300	51940	11900	6690
CAL YR 1982	TOTAL	225931	MEAN	619	MAX	1790	MIN	35	AC-FT	448100		
WTR YR 1983	TOTAL	379052	MEAN	1038	MAX	6830	MIN	71	AC-FT	751800		

HUMBOLDT RIVER BASIN

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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 current year, hourly.
 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 current year, hourly.
 SEDIMENT DATA: May 1979 to September 1980, monthly; October 1980 to current year, every two months.

INSTRUMENTATION.--Specific-conductance and temperature recorder since May 1981.

REMARKS.--Periods of no record for daily specific-conductance and temperature are due to recorder malfunctions and vandalism.

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, 862 mg/L May 29, 1979; minimum, 17 mg/L Sept. 30, 1980, and Sept. 20, 1983.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 587 micromhos Oct. 4; minimum, 221 micromhos Mar. 2.

WATER TEMPERATURES: Maximum, presumably not measured (see "REMARKS"); minimum, freezing point Jan. 4-8, 12-15, 23.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 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 CaCO ₃)
NOV 24...	1140	281	506	8.6	--	25	12.7	--	--	--	175
JAN 25...	1300	270	469	8.4	2.0	20	13.1	113	K4	190	163
MAR 06...	1530	4800	298	7.6	5.0	200	--	--	K57	1700	80
MAY 24...	1800	1500	351	8.2	19.5	110	7.2	94	--	--	127
JUL 20...	1420	499	376	8.4	19.5	26	7.7	100	--	--	143
SEP 20...	1530	75	505	--	16.0	3.9	11.0	132	--	--	175

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 24...	50	12	38	1.3	5.6	213	35	14	.40	29	305
JAN 25...	47	11	37	1.3	5.5	195	30	16	.40	30	290
MAR 06...	23	5.4	26	1.3	6.9	109	21	10	.30	15	178
MAY 24...	36	9.0	26	1.0	5.4	153	20	12	.30	30	222
JUL 20...	43	8.7	23	.9	4.4	176	16	7.1	.40	22	222
SEP 20...	50	12	47	1.6	7.1	212	31	22	.50	25	308

DATE	SOLIDS, SUM OF CONSTITUENTS, 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 24...	312	231	<.10	.130	1.00	.090	.090	.030	10	5	81
JAN 25...	294	211	.13	.120	.70	.140	.100	.080	--	--	--
MAR 06...	174	2310	.17	.330	1.90	.510	.190	.170	40	6	49
MAY 24...	231	899	.10	.130	1.10	.210	.090	.060	40	6	73
JUL 20...	231	299	<.10	.130	.90	.170	.100	.080	--	--	--
SEP 20...	323	62.4	.10	<.100	.80	.140	.090	.120	<10	8	98

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BR)	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 24...	<1	<1	<1	<3	3	7	<1	33	9	<.1
JAN 25...	--	--	--	--	--	--	--	--	--	--
MAR 06...	<1	<1	<1	<3	4	38	2	18	16	.1
MAY 24...	<1	<1	<1	<3	5	28	3	25	8	<.1
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 20...	<1	<1	<1	<3	2	<3	2	38	13	<.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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 24...	<10	<1	1	<1	300	<6.0	14	85	64	--
JAN 25...	--	--	--	--	--	--	--	64	47	--
MAR 06...	<10	3	1	<1	150	<6.0	4	469	6080	79
MAY 24...	<10	5	<1	<1	220	<6.0	42	523	2120	86
JUL 20...	--	--	--	--	--	--	--	87	117	--
SEP 20...	<10	1	<1	<1	390	<6.0	3	17	3.4	--

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.0	8.0	---	---	2.0	1.5	1.0	.5	2.0	2.0	5.5	4.0
2	11.0	8.5	---	---	2.5	1.5	.5	.5	2.0	2.0	5.0	3.5
3	12.0	10.0	---	---	3.0	2.5	.5	.5	2.0	2.0	5.0	3.5
4	11.5	10.5	---	---	3.0	2.5	.5	.0	2.5	2.0	4.5	3.5
5	11.5	10.0	---	---	3.0	2.5	.5	.0	2.5	2.0	4.5	2.5
6	11.5	9.5	---	---	3.0	2.5	.5	.0	2.5	2.0	6.0	3.0
7	11.0	10.0	---	---	3.0	2.5	.5	.0	2.5	2.0	7.0	5.0
8	10.0	9.0	---	---	2.0	2.0	.5	.0	2.5	2.5	8.5	5.5
9	10.0	8.5	---	---	1.5	1.5	.5	.5	3.5	2.5	9.5	6.0
10	10.0	8.0	---	---	1.5	1.5	.5	.5	3.5	3.0	10.0	7.5
11	10.0	8.0	---	---	1.5	1.5	.5	.5	4.5	3.0	10.0	8.0
12	10.5	8.5	---	---	1.5	1.0	.5	.0	5.0	3.5	8.0	6.0
13	11.0	9.5	---	---	1.5	1.0	.5	.0	5.0	3.5	---	---
14	11.5	10.0	---	---	1.5	1.0	.5	.0	4.5	3.5	---	---
15	11.5	10.0	---	---	2.0	1.5	.5	.0	4.5	4.0	---	---
16	11.5	10.0	---	---	2.5	2.0	.5	.5	5.0	4.0	---	---
17	11.0	10.0	---	---	2.5	1.5	1.0	.5	5.5	4.5	---	---
18	11.0	9.5	---	---	2.0	1.5	1.0	.5	5.0	4.0	---	---
19	10.0	7.5	---	---	2.0	1.5	1.0	.5	4.0	3.5	---	---
20	8.5	6.5	---	---	1.5	1.5	1.0	.5	4.0	3.5	---	---
21	9.0	7.5	---	---	2.0	1.5	1.0	.5	4.5	4.0	---	---
22	10.5	9.0	3.5	2.5	2.5	2.0	.5	.5	5.0	4.5	---	---
23	---	---	3.0	2.0	2.5	1.5	.5	.0	5.0	4.5	---	---
24	---	---	2.0	1.5	1.5	1.0	.5	.5	5.5	5.0	---	---
25	---	---	2.0	1.5	1.0	1.0	2.0	.5	5.5	5.0	---	---
26	---	---	2.0	1.5	1.0	1.0	2.5	1.5	5.0	4.5	---	---
27	---	---	2.0	1.5	1.0	1.0	2.5	2.5	4.5	4.0	---	---
28	---	---	2.5	1.5	1.0	1.0	3.0	2.5	4.0	3.5	---	---
29	---	---	3.0	2.5	1.0	1.0	3.0	2.5	---	---	---	---
30	---	---	2.5	2.0	1.0	1.0	2.5	2.0	---	---	---	---
31	---	---	---	---	1.0	.5	2.0	2.0	---	---	---	---
MONTH	12.0	6.5	3.5	1.5	3.0	.5	3.0	.0	5.5	2.0	10.0	2.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.0	8.0	11.0	8.5	17.0	15.5	---	---			---	---
2	9.0	7.0	12.0	9.0	17.5	15.0	---	---			---	---
3	6.5	4.5	14.0	10.0	18.0	16.0	---	---			---	---
4	6.0	4.0	13.5	11.0	17.5	15.5	---	---			---	---
5	6.0	3.0	12.5	10.5	19.0	15.0	---	---			---	---
6	6.5	3.5	12.0	9.5	20.5	16.5	---	---			---	---
7	8.0	4.5	14.0	13.5	21.0	18.0	---	---			---	---
8	10.0	7.0	14.0	11.5	20.5	18.0	---	---			---	---
9	10.0	8.5	13.0	10.5	21.0	17.5	---	---			---	---
10	9.5	8.5	12.0	9.5	20.5	18.5	---	---			---	---
11	9.0	7.5	10.0	8.0	19.5	16.5	---	---			---	---
12	8.5	7.0	12.0	7.0	17.0	14.5	---	---			---	---
13	8.0	6.5	13.5	9.5	18.5	14.0	---	---			---	---
14	9.0	6.0	13.5	10.5	20.5	16.0	---	---			---	---
15	10.0	6.5	13.5	11.5	22.0	18.0	---	---			---	---
16	11.5	7.5	12.5	10.0	21.5	18.0	---	---			---	---
17	12.0	9.0	13.5	9.0	21.5	18.0	---	---			---	---
18	11.5	11.0	13.5	12.0	---	---	---	---			---	---
19	11.5	10.0	15.5	11.0	---	---	---	---			---	---
20	12.0	10.0	17.0	13.0	---	---	---	---			---	---
21	12.0	10.5	18.0	15.0	---	---	22.5	17.0			16.5	11.0
22	12.5	10.0	18.5	15.0	---	---	21.5	19.0			17.0	13.5
23	14.0	11.0	19.5	16.0	---	---	23.0	18.0			18.0	15.5
24	13.0	10.5	20.0	17.0	---	---	23.0	19.0			19.0	14.5
25	11.5	9.0	20.0	17.5	---	---	22.0	18.0			19.0	15.5
26	10.5	7.5	20.0	16.0	---	---	21.5	16.5			18.5	16.0
27	13.0	8.5	20.0	18.5	---	---	22.0	16.5			16.5	14.5
28	12.5	11.0	21.0	18.0	---	---	22.5	17.5			15.5	13.0
29	12.0	10.5	21.0	18.5	---	---	23.0	19.0			15.5	14.0
30	12.0	10.5	20.0	16.5	---	---	22.0	19.5			14.0	13.0
31	---	---	20.0	17.0	---	---	21.5	19.5			---	---
MONTH	14.0	3.0	21.0	7.0	22.0	14.0	23.0	16.5			19.0	11.0
YEAR	23.0	.0										

10321000 HUMBOLDT RIVER NEAR CARLIN,NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	535	527	442	435	523	519	516	514	453	451	342	224
2	558	536	450	441	525	520	514	512	449	448	263	221
3	582	561	461	451	526	521	513	510	445	444	283	264
4	587	581	---	---	527	523	515	510	465	440	297	283
5	579	486	---	---	528	524	511	509	527	437	303	296
6	483	463	---	---	529	525	510	507	510	451	314	298
7	462	439	---	---	530	526	506	504	514	491	305	292
8	439	434	---	---	530	527	504	503	509	486	301	284
9	441	431	---	---	530	527	502	500	507	475	296	279
10	439	426	---	---	530	527	500	498	505	500	293	275
11	427	423	---	---	529	526	497	495	503	499	288	272
12	440	424	---	---	527	524	494	490	504	498	279	266
13	431	421	---	---	526	523	506	487	499	365	---	---
14	422	418	---	---	526	523	503	501	442	437	---	---
15	446	420	---	---	525	522	501	487	436	425	---	---
16	443	435	---	---	525	521	484	482	432	421	---	---
17	439	436	---	---	524	519	480	478	434	408	---	---
18	435	425	---	---	523	519	475	472	450	408	---	---
19	429	426	---	---	522	519	485	457	448	445	---	---
20	434	429	---	---	521	520	482	480	441	439	---	---
21	448	434	---	---	520	517	479	476	435	434	---	---
22	458	448	484	476	523	516	480	471	430	429	---	---
23	469	457	490	481	523	519	477	475	454	423	---	---
24	471	455	506	488	523	519	473	471	527	449	---	---
25	456	453	502	493	523	520	480	469	548	525	---	---
26	454	449	507	499	525	518	477	474	551	544	---	---
27	453	448	511	504	524	521	524	471	544	532	---	---
28	446	424	515	508	522	520	521	504	527	357	---	---
29	442	438	518	512	521	519	527	467	---	---	---	---
30	445	437	521	514	519	517	501	459	---	---	---	---
31	444	435	---	---	518	516	461	455	---	---	---	---
MONTH	587	418	521	435	530	516	527	455	551	357	342	221
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	429	425	467	464	358	354	434	430			---	---
2	432	428	468	464	366	363	443	435			---	---
3	433	429	468	463	375	371	448	438			---	---
4	436	431	466	462	377	374	447	429			---	---
5	438	432	462	459	380	375	---	---			---	---
6	440	435	462	457	382	379	---	---			---	---
7	444	437	461	456	389	383	---	---			---	---
8	448	442	459	455	389	385	---	---			---	---
9	450	446	454	452	391	387	---	---			---	---
10	453	449	452	449	394	390	---	---			---	---
11	454	450	448	446	400	396	---	---			---	---
12	456	452	448	444	411	406	---	---			---	---
13	456	452	445	443	419	413	---	---			---	---
14	459	454	443	440	421	416	---	---			---	---
15	461	455	439	435	422	416	---	---			---	---
16	464	458	434	432	422	417	---	---			---	---
17	464	460	432	429	423	416	---	---			---	---
18	466	463	428	424	---	---	---	---			---	---
19	466	463	422	414	---	---	---	---			---	---
20	469	464	413	393	---	---	---	---			---	---
21	470	466	392	383	---	---	374	363			536	524
22	472	467	382	376	---	---	373	367			546	535
23	473	469	375	359	---	---	378	364			554	542
24	473	469	358	350	---	---	378	370			546	531
25	470	467	358	356	---	---	388	385			558	526
26	471	467	365	359	---	---	396	392			574	519
27	473	467	367	363	---	---	401	394			564	530
28	472	469	369	365	---	---	404	400			553	536
29	469	467	369	364	430	424	409	405			549	517
30	469	466	371	357	433	412	415	413			563	530
31	---	---	363	348	---	---	422	419			---	---
MONTH	473	425	468	348	433	354	448	363			574	517
YEAR	587	221										

HUMBOLDT RIVER BASIN

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10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE1/4 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 mi², 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. Diversions for irrigation of 148,000 acres of hay and pastureland above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--76 years (1902-6, 1911-83) 385 ft³/s, 278,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,240 ft³/s Mar. 6, 1983, gage height, 9.75 ft, maximum gage height, 10.0 ft Feb. 12, 1962; minimum, 2 ft³/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 ft³/s, from rating curve extended above 7,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,240 ft³/s Mar. 6, gage height, 9.75 ft; minimum daily, 63 ft³/s Sept. 20-22.

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	506	416	392	185	239	1790	2020	3580	4790	1830	218	148
2	520	440	380	185	212	2970	2220	3510	5130	1740	209	139
3	506	444	376	190	218	3400	2440	3430	5500	1680	201	134
4	506	422	369	198	204	3390	2290	3240	5800	1590	187	128
5	492	404	366	204	201	6140	2090	3190	5840	1520	174	126
6	466	389	362	218	227	6380	1900	3140	5700	1480	158	128
7	440	373	362	290	251	4970	1750	2980	5730	1440	148	121
8	422	362	340	366	261	4290	1690	2880	5670	1350	146	113
9	413	351	300	398	254	3680	1700	2750	5210	1270	150	107
10	404	344	260	410	290	3530	1730	2600	4830	1210	148	107
11	389	334	248	428	320	3580	1740	2510	4660	1140	170	103
12	386	330	254	425	389	3570	1750	2470	4740	1090	201	97
13	373	317	267	404	758	3390	1730	2380	4750	1010	179	97
14	348	313	286	383	636	3960	1660	2240	4690	935	172	93
15	334	290	313	337	470	3520	1590	2140	4660	856	167	91
16	324	283	324	334	440	3410	1580	2100	4150	792	182	86
17	313	283	320	327	520	3230	1650	2040	3730	714	206	80
18	310	296	310	330	709	2730	1840	1980	3400	611	242	71
19	300	362	307	362	736	2420	2060	1950	3230	581	261	65
20	293	404	310	330	591	2190	2340	1890	3050	533	267	63
21	286	425	334	296	601	2030	2720	1850	2850	483	303	63
22	280	428	351	273	698	1900	3150	1900	2730	444	290	63
23	270	401	404	277	798	1780	2860	2040	2670	428	313	68
24	267	334	348	290	870	1780	3730	2120	2570	425	313	82
25	267	270	300	290	1000	1740	3870	2300	2420	413	296	115
26	280	277	275	283	1150	1680	3900	2520	2280	375	257	111
27	317	296	250	317	1300	1620	3870	2780	2180	340	236	128
28	320	317	225	355	1550	1590	3620	3070	2070	300	206	165
29	337	351	205	362	---	1510	3500	3420	1990	285	190	204
30	369	389	195	320	---	1560	3510	3880	1900	260	174	221
31	416	---	190	270	---	1680	---	4310	---	240	160	---
TOTAL	11454	10645	9523	9637	15893	91410	72500	83190	118920	27365	6524	3317
MEAN	369	355	307	311	568	2949	2417	2684	3964	883	210	111
MAX	520	444	404	428	1550	6380	3900	4310	5840	1830	313	221
MIN	267	270	190	185	201	1510	1580	1850	1900	240	146	63
AC-FT	22720	21110	18890	19110	31520	181300	143800	165000	235900	54280	12940	6580
CAL YR 1982	TOTAL	250598	MEAN	687	MAX	2540	MIN	37	AC-FT	497100		
WTR YR 1983	TOTAL	460378	MEAN	1261	MAX	6380	MIN	63	AC-FT	913200		

HUMBOLDT RIVER BASIN

10323600 HUMBOLDT RIVER BELOW SLAVEN DITCH NEAR ARGENTA, NV

LOCATION.--Lat 40°39'19", long 116°45'17", in NW¼SE¼ sec.11, T.32 N., R.46 E., Lander County, Hydrologic Unit 16040105, on left bank, at Argenta Ranch, 2.3 mi west of Argenta.

PERIOD OF RECORD.--October 1980 to September 1983 (discontinued).

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

REMARKS.--Records fair. Many diversions above station for irrigation. 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 discharge, 3,940 ft³/s June 5, 1983, gage height, 11.11 ft; minimum daily, 2.1 ft³/s Sept. 29 to Oct. 16, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,940 ft³/s June 5, gage height, 11.11 ft; minimum daily, 73 ft³/s Sept. 22, 23.

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	338	391	381	210	319	2000	2120	2730	3260	2000	236	186
2	340	394	388	205	247	2400	2180	2780	3470	1900	222	178
3	350	415	383	210	188	2680	2160	2780	3630	1820	208	171
4	347	419	379	225	191	2930	2100	2700	3750	1750	192	166
5	343	401	374	225	202	3120	2000	2590	3880	1670	180	162
6	343	384	380	240	191	3240	1950	2540	3910	1590	171	159
7	325	371	375	275	229	3570	1850	2510	3850	1520	163	148
8	316	359	377	336	327	3510	1850	2450	3820	1460	152	143
9	331	350	355	375	368	3350	1900	2400	3840	1380	144	136
10	325	341	308	422	385	3180	1900	2370	3720	1310	160	132
11	316	329	285	437	428	2910	2100	2340	3740	1260	158	129
12	305	317	291	475	418	2880	2150	2300	3590	1180	160	124
13	296	318	290	498	494	2910	2190	2290	3460	1120	175	119
14	288	313	314	460	1100	2780	2020	2160	3440	1050	172	113
15	274	298	310	414	1130	2920	1840	2120	3410	979	168	101
16	268	286	322	388	815	2910	1780	2080	3370	908	165	95
17	264	280	334	384	745	2730	1760	2050	3260	841	160	89
18	247	282	336	376	796	2680	1830	2010	3020	774	177	83
19	241	308	329	392	1080	2370	1970	1970	2850	710	197	78
20	240	349	325	421	1040	2300	2070	1930	2750	636	230	75
21	238	379	327	376	881	2140	2150	1870	2680	592	258	75
22	236	410	338	337	860	2080	2340	1830	2610	546	276	73
23	235	424	358	324	965	2030	2460	1900	2570	511	280	73
24	232	386	406	313	1090	1990	2580	2000	2520	474	305	79
25	236	338	341	323	1200	1990	2800	2080	2490	439	303	85
26	246	305	239	321	1570	1970	2950	2330	2430	398	282	94
27	254	303	198	325	2140	1910	2980	2480	2340	352	256	106
28	278	305	195	352	2140	1890	2990	2650	2250	320	234	117
29	294	315	200	397	---	1850	2880	2730	2180	298	218	148
30	324	346	210	409	---	1800	2780	2840	2080	274	207	181
31	345	---	220	371	---	1910	---	3030	---	248	196	---
TOTAL	9015	10416	9868	10816	21539	78930	66630	72840	94170	30310	6405	3618
MEAN	291	347	318	349	769	2546	2221	2350	3139	978	207	121
MAX	350	424	406	498	2140	3570	2990	3030	3910	2000	305	186
MIN	232	280	195	205	188	1800	1760	1830	2080	248	144	73
AC-FT	17880	20660	19570	21450	42720	156600	132200	144500	186800	60120	12700	7180
CAL YR 1982	TOTAL	232552.9	MEAN	637	MAX	2160	MIN	6.8	AC-FT	461300		
WTR YR 1983	TOTAL	414557.0	MEAN	1136	MAX	3910	MIN	73	AC-FT	822300		

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 mi², 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 good except those for winter months, which are poor. 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, 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.--43 years (1918-23, 1945-83), 37.4 ft³/s, 27,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s Feb. 11, 1962, gage height, 6.89 ft, from rating curve extended above 2,500 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 13	2000	1,590	6.22	Apr. 24	2000	828	4.99
Mar. 14	1000	*1,720	6.31	May 31	2100	338	4.09
Apr. 1	0600	649	4.70				

Minimum daily, 1.6 ft³/s, July 20.

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	4.7	12	20	4.0	9.0	250	603	533	334	22	3.0	10
2	5.1	11	16	4.5	9.0	399	492	500	323	23	4.0	9.5
3	5.5	11	14	5.0	9.5	537	441	486	298	22	4.3	8.8
4	6.0	11	12	6.0	9.5	606	385	460	313	20	4.6	5.6
5	6.5	11	10	8.0	9.5	577	340	458	294	19	4.9	4.7
6	7.0	10	12	10	12	458	302	487	262	17	5.3	4.5
7	7.4	11	12	12	18	401	282	459	233	16	6.5	4.3
8	7.7	11	12	14	23	495	273	417	208	14	11	4.0
9	8.0	11	12	14	26	499	289	388	197	13	10	3.8
10	8.5	11	8.0	14	33	615	310	370	186	12	9.9	4.2
11	8.8	11	10	13	85	779	305	349	179	12	13	4.6
12	8.6	11	12	11	409	999	295	321	175	11	13	5.5
13	8.9	11	13	9.0	920	881	276	286	165	11	12	5.1
14	9.5	11	14	8.0	437	1430	260	260	151	6.2	12	4.5
15	9.8	11	15	7.0	235	1010	252	247	109	3.7	13	4.3
16	9.8	10	16	7.0	154	705	240	231	82	3.0	13	4.2
17	9.8	9.0	16	7.0	187	585	231	210	58	2.4	12	4.2
18	10	8.0	16	7.0	257	518	303	190	40	2.0	12	3.8
19	10	10	14	8.0	245	456	381	179	36	1.9	13	3.6
20	9.7	11	10	9.0	153	374	443	180	37	1.6	16	3.7
21	9.3	12	12	10	114	321	518	192	39	1.7	15	3.7
22	9.1	14	11	10	154	320	629	219	39	2.0	12	4.1
23	9.1	13	10	10	204	328	650	253	36	2.8	11	4.8
24	9.5	12	9.5	10	250	337	736	276	33	3.2	11	5.5
25	9.2	10	9.0	10	363	321	804	285	29	3.1	11	6.0
26	9.8	8.0	8.0	10	456	305	708	296	25	3.7	10	5.2
27	10	10	7.5	9.5	399	268	589	308	23	3.2	10	5.0
28	10	14	7.0	9.0	289	275	502	314	22	2.1	10	5.1
29	10	15	6.0	9.0	---	257	481	308	21	1.8	9.8	7.9
30	11	20	5.0	9.0	---	246	518	320	21	1.7	9.8	9.1
31	11	---	4.0	9.0	---	422	---	328	---	2.0	10	---
TOTAL	269.3	341.0	353.0	283.0	5469.5	15974	12838	10110	3968	260.1	312.1	159.3
MEAN	8.69	11.4	11.4	9.13	195	515	428	326	132	8.39	10.1	5.31
MAX	11	20	20	14	920	1430	804	533	334	23	16	10
MIN	4.7	8.0	4.0	4.0	9.0	246	231	179	21	1.6	3.0	3.6
AC-FT	534	676	700	561	10850	31680	25460	20050	7870	516	619	316

CAL YR 1982	TOTAL	30957.24	MEAN	84.8	MAX	1740	MIN	.65	AC-FT	61400
WTR YR 1983	TOTAL	50337.30	MEAN	138	MAX	1430	MIN	1.6	AC-FT	99840

HUMBOLDT RIVER BASIN

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 Railroad, 1.0 mi upstream from Kelly Creek, 9 mi northeast of Golconda, and 32 mi northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi², 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. 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.--69 years, 312 ft³/s, 226,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,860 ft³/s May 6, 1952, gage height, 11.52 ft, maximum gage height, 11.76 ft June 14, 1983; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,210 ft³/s June 14, gage height, 11.76; minimum daily, 72 ft³/s Sept. 19.

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	208	285	332	285	310	1320	3260	4210	2920	3130	292	221
2	233	302	350	315	285	1420	3190	4370	3090	3040	354	212
3	252	320	378	335	270	1520	3130	4320	3240	2950	427	201
4	260	330	383	355	240	1720	3100	4200	3370	2850	311	191
5	267	335	378	363	203	1810	3140	4050	3510	2750	294	188
6	269	343	380	376	208	1900	3250	3990	3670	2630	276	183
7	270	334	379	404	232	2050	3370	3970	3810	2480	267	178
8	272	326	381	386	237	2250	3410	3900	3980	2320	253	170
9	264	319	393	375	320	2500	3410	3810	4230	2140	247	163
10	264	315	384	370	407	2930	3360	3770	4520	2010	238	156
11	270	309	379	360	390	3400	3300	3750	4810	1900	238	151
12	267	301	320	340	402	3850	3220	3740	5100	1810	238	146
13	264	297	300	320	435	4170	3130	3680	5130	1700	260	143
14	260	291	280	290	443	4230	3040	3600	5160	1570	253	139
15	254	292	300	320	585	4160	2950	3530	5100	1450	245	110
16	249	290	335	360	856	4180	2910	3460	4930	1370	245	94
17	241	285	330	400	947	4270	2900	3410	4710	1260	221	88
18	237	279	337	435	956	4330	2870	3330	4510	1140	225	78
19	233	279	342	451	907	4480	2810	3250	4460	1040	201	72
20	229	282	350	444	934	4500	2760	3200	4400	942	238	73
21	224	278	347	441	1010	4360	2730	3150	4390	866	236	74
22	222	270	349	460	1050	4180	2790	3060	4280	799	283	113
23	220	260	356	422	1030	3960	2850	3000	4130	742	290	98
24	220	250	359	410	1020	3790	2980	2910	3930	689	294	93
25	221	240	385	350	1040	3630	3080	2820	3790	638	305	90
26	226	230	322	290	1080	3540	3200	2710	3660	600	318	89
27	226	270	257	330	1150	3470	3350	2650	3510	561	313	98
28	230	290	250	320	1240	3410	3510	2620	3400	523	299	106
29	241	315	260	380	---	3340	3720	2630	3300	480	273	114
30	260	316	250	410	---	3310	4000	2690	3220	450	257	135
31	271	---	240	350	---	3310	---	2800	---	423	230	---
TOTAL	7624	8833	10386	11447	18187	101290	94720	106580	122260	47253	8421	3967
MEAN	246	294	335	369	650	3267	3157	3438	4075	1524	272	132
MAX	272	343	393	460	1240	4500	4000	4370	5160	3130	427	221
MIN	208	230	240	285	203	1320	2730	2620	2920	423	201	72
AC-FT	15120	17520	20600	22710	36070	200900	187900	211400	242500	93730	16700	7870

CAL YR 1982 TOTAL 202390.75 MEAN 554 MAX 1700 MIN .10 AC-FT 401400
WTR YR 1983 TOTAL 540968.00 MEAN 1482 MAX 5160 MIN 72 AC-FT 1073000

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW1/4 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 mi², approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft, 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.--45 years (1921-23, 1924-27, 1943-1983), 24.9 ft³/s, 18,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft³/s Jan. 21, 1969, gage height, 8.40 ft, minimum, 0.46 ft³/s Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 507 ft³/s June 2, gage height, 4.83 ft; minimum daily, 8.0 ft³/s April 5, 7-9, 12-16.

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	8.8	8.9	9.2	9.1	10	15	8.2	17	418	83	87	12
2	8.8	8.6	9.1	9.4	9.4	29	8.0	21	495	84	82	14
3	8.8	8.5	9.0	9.4	8.8	23	8.3	18	483	80	77	16
4	8.5	8.5	9.0	9.4	9.0	31	8.1	16	495	78	77	17
5	8.5	8.6	9.1	9.6	9.2	23	8.0	29	476	78	75	16
6	8.5	8.5	9.1	9.6	9.6	19	8.3	69	434	78	75	15
7	8.5	8.5	9.0	9.9	10	17	8.0	85	398	75	76	15
8	8.2	8.6	8.8	9.9	10	17	8.0	88	364	75	76	12
9	8.2	8.6	8.6	9.9	11	22	8.0	91	331	75	77	10
10	8.2	8.8	8.6	9.9	25	21	8.3	95	304	76	78	10
11	9.1	8.8	8.6	9.9	17	27	8.1	99	300	75	78	9.5
12	8.5	8.6	8.5	10	15	24	8.0	104	280	75	75	11
13	8.2	8.6	8.6	10	15	36	8.0	106	260	74	74	12
14	8.2	8.5	8.6	10	15	34	8.0	112	244	74	78	12
15	8.2	8.5	8.7	10	14	29	8.0	115	221	77	76	11
16	8.2	8.5	8.8	10	14	13	8.0	119	200	76	77	10
17	8.5	8.7	8.8	11	13	12	8.1	127	185	74	74	9.5
18	8.2	9.5	9.1	11	13	11	8.3	130	163	73	74	9.2
19	8.2	9.8	9.0	11	13	10	8.5	133	148	73	75	9.0
20	8.3	9.1	9.0	11	12	10	8.3	140	144	74	74	8.4
21	8.3	8.8	9.2	11	12	9.6	8.5	144	140	78	73	8.2
22	8.3	8.8	9.4	11	12	9.5	10	148	128	80	52	8.1
23	8.3	8.5	9.7	11	13	9.0	9.4	165	119	81	21	8.6
24	8.4	8.5	9.4	11	15	8.5	10	177	111	79	19	8.5
25	8.7	8.5	9.2	11	15	8.3	11	194	109	78	18	8.4
26	9.2	8.4	9.1	11	16	8.5	11	215	109	79	16	8.2
27	8.7	8.5	9.1	12	12	8.5	11	248	108	83	13	8.4
28	8.5	8.8	9.3	12	11	8.3	12	283	106	91	13	8.5
29	8.7	9.4	9.3	12	---	8.3	13	314	104	90	13	8.7
30	9.0	9.4	9.1	12	---	8.4	18	338	88	88	11	9.1
31	8.7	---	9.1	11	---	8.3	---	367	---	87	11	---
TOTAL	263.4	262.3	279.1	325.0	359.0	518.2	276.4	4307	7465	2441	1795	323.3
MEAN	8.50	8.74	9.00	10.5	12.8	16.7	9.21	139	249	78.7	57.9	10.8
MAX	9.2	9.8	9.7	12	25	36	18	367	495	91	87	17
MIN	8.2	8.4	8.5	9.1	8.8	8.3	8.0	16	88	73	11	8.1
AC-FT	522	520	554	645	712	1030	548	8540	14810	4840	3560	641
CAL YR 1982	TOTAL	7989.1	MEAN	21.9	MAX	96	MIN	6.4	AC-FT	15850		
WTR YR 1983	TOTAL	18614.7	MEAN	51.0	MAX	495	MIN	8.0	AC-FT	36920		

HUMBOLDT RIVER BASIN

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.40 E., Humboldt County, Hydrologic Unit

DRAINAGE AREA.--172 mi².

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.--62 years, 33.2 ft³/s, 24,050 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/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 ft³/s Feb. 6, 1945.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 13	0800	408	2.77	Apr. 23	2300	587	3.19
Mar. 3	2300	479	2.95	May 31	2400	798	3.68
Mar. 13	1800	*1,500	4.86				

Minimum, 4.9 ft³/s, Dec. 7, 8.

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	8.9	13	12	9.2	11	152	108	362	757	103	21	9.7
2	8.7	11	11	9.7	10	330	110	334	678	107	19	9.7
3	8.7	11	10	11	8.5	293	93	304	677	95	18	9.3
4	8.8	11	10	14	8.5	328	83	317	616	87	16	8.9
5	8.9	11	10	16	10	210	74	347	555	82	15	8.5
6	8.9	11	9.7	29	14	154	67	305	497	78	14	8.1
7	8.8	10	9.3	55	14	178	68	296	453	76	13	7.8
8	8.8	11	8.9	46	14	200	80	299	482	71	13	7.4
9	8.9	10	10	28	14	260	91	270	439	66	14	7.4
10	8.9	11	11	22	17	288	82	239	422	62	16	7.8
11	8.9	10	10	16	18	339	76	221	453	55	18	7.8
12	8.5	9.5	10	14	30	224	71	201	356	50	15	7.8
13	8.4	9.7	12	14	263	946	67	184	294	47	13	7.8
14	8.4	8.8	11	14	82	430	68	178	264	48	13	8.1
15	8.4	8.9	12	13	51	211	75	192	248	50	13	8.5
16	8.4	9.7	11	13	46	150	91	200	238	44	13	8.1
17	8.5	11	12	13	105	128	123	195	226	41	12	7.8
18	8.5	17	11	12	123	112	169	225	221	38	13	7.8
19	8.7	27	11	12	61	98	218	266	198	36	13	7.8
20	8.5	17	12	12	55	85	261	310	177	34	13	8.1
21	8.5	14	65	12	91	84	353	381	159	33	12	8.5
22	8.7	11	73	12	116	80	382	463	145	31	13	8.5
23	9.3	9.3	34	13	115	72	428	484	142	30	14	8.9
24	9.7	8.5	16	13	134	72	465	515	142	28	12	9.3
25	10	10	12	11	132	67	358	556	135	26	11	9.7
26	11	10	9.5	12	125	59	287	594	129	25	10	8.9
27	12	11	8.5	30	87	62	250	607	125	24	9.3	8.9
28	10	12	7.8	22	87	61	261	635	120	23	8.8	9.7
29	11	15	8.2	15	---	65	264	692	114	22	8.4	9.7
30	18	13	8.3	11	---	86	393	678	108	20	8.5	11
31	15	---	8.7	9.7	---	160	---	714	---	20	8.5	---
TOTAL	296.7	352.4	464.9	533.6	1842.0	5984	5516	11564	9570	1552	410.5	257.3
MEAN	9.57	11.7	15.0	17.2	65.8	193	184	373	319	50.1	13.2	8.58
MAX	18	27	73	55	263	946	465	714	757	107	21	11
MIN	8.4	8.5	7.8	9.2	8.5	59	67	178	108	20	8.4	7.4
AC-FT	589	699	922	1060	3650	11870	10940	22940	18980	3080	814	510
CAL YR 1982	TOTAL	18943.2	MEAN	51.9	MAX	1080	MIN	5.5	AC-FT	37570		
WTR YR 1983	TOTAL	38343.4	MEAN	105	MAX	946	MIN	7.4	AC-FT	76050		

HUMBOLDT RIVER BASIN

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10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼ 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 mi², 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 those for winter months and period of no gage-height record, July 15 to Aug. 15, 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.--44 years, 235 ft³/s, 170,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,080 ft³/s May 9, 1952, gage height, 12.15 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,190 ft³/s June 17, gage height, 12.03 ft; minimum daily discharge, 38 ft³/s Oct. 3.

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	41	187	242	185	320	788	2640	2450	2570	3080	800	287
2	39	193	255	190	280	815	2600	2530	2600	2980	750	271
3	38	199	264	210	230	859	2570	2640	2670	2880	700	264
4	41	205	264	230	200	894	2540	2820	2740	2800	670	255
5	78	217	273	250	190	927	2510	3020	2760	2720	630	250
6	112	229	289	280	190	954	2480	3170	2820	2640	600	245
7	140	242	293	319	200	980	2450	3180	2900	2560	560	242
8	155	248	283	337	210	1010	2420	3150	3100	2480	530	238
9	169	257	280	353	230	1040	2380	3110	3250	2410	500	222
10	178	260	275	335	250	1080	2370	3060	3400	2350	470	216
11	184	257	270	280	280	1130	2390	3040	3500	2280	440	213
12	187	253	265	265	327	1160	2450	3030	3600	2230	420	210
13	187	252	260	270	361	1200	2510	3000	3740	2170	400	204
14	190	248	260	275	357	1250	2530	2980	3900	2100	375	199
15	193	245	270	280	361	1290	2530	2950	4130	2000	350	196
16	193	242	276	285	373	1380	2500	2920	4100	1950	329	196
17	192	238	291	295	384	1530	2460	2900	4170	1880	319	190
18	189	243	282	295	448	2010	2420	2860	4170	1800	306	189
19	187	245	296	280	536	2510	2380	2830	4140	1700	309	167
20	184	238	294	270	598	2710	2350	2800	4070	1600	298	162
21	180	230	302	260	627	2840	2330	2740	3980	1500	293	158
22	180	229	309	260	630	3000	2320	2710	3870	1430	287	154
23	176	221	315	265	630	3130	2320	2680	3770	1350	287	154
24	176	218	298	275	654	3180	2310	2630	3670	1280	287	152
25	178	216	260	295	711	3150	2310	2590	3600	1200	289	154
26	183	216	230	310	722	3090	2310	2580	3560	1130	289	158
27	180	218	200	325	731	3000	2300	2570	3460	1050	289	159
28	178	220	185	341	749	2900	2320	2560	3370	1000	293	158
29	180	224	180	343	---	2830	2350	2540	3280	940	289	158
30	183	232	180	335	---	2760	2380	2540	3180	880	293	164
31	184	---	180	331	---	2700	---	2550	---	830	291	---
TOTAL	4855	6922	8121	8824	11779	58097	72730	87130	104070	59200	12943	5985
MEAN	157	231	262	285	421	1874	2424	2811	3469	1910	418	200
MAX	193	260	315	353	749	3180	2640	3180	4170	3080	800	287
MIN	38	187	180	185	190	788	2300	2450	2570	830	287	152
AC-FT	9630	13730	16110	17500	23360	115200	144300	172800	206400	117400	25670	11870
CAL YR 1982	TOTAL	163288	MEAN	447	MAX	1160	MIN	14	AC-FT	323900		
WTR YR 1983	TOTAL	440656	MEAN	1207	MAX	4170	MIN	38	AC-FT	874000		

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMJAY, 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.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 980 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 1982 TO SEPTEMBER 1983

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							
29...	1110	180	512	8.0	117	57	92
NOV							
23...	1325	213	550	2.0	134	77	88
JAN							
26...	1510	343	530	2.0	361	334	98
FEB							
15...	1400	361	--	--	551	537	96
MAR							
24...	1025	285	980	19.5	175	135	--
APR							
22...	1515	152	849	17.0	77	32	--

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'15", 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 mi², 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, 1983; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 193,100 acre-ft July 27 to Aug. 3, altitude, 4,135.9 ft; minimum, 138,700 acre-ft Oct. 21-26, altitude, 4,131.5 ft.

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

4,120	53,200	4,131	133,200
4,122	63,800	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 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143100	140900	152000	170800	176600	176600	168000	166700	173100	186000	193100	190700
2	143100	140900	153300	170800	176600	177700	168000	166700	173100	187200	193100	189500
3	143100	142000	154600	171900	176600	177700	168000	166700	173100	187200	193100	189500
4	143100	142000	155900	171900	176600	177700	169400	168000	171900	187200	191900	189500
5	143100	142000	155900	171900	176600	178900	169400	169400	170800	186000	191900	189500
6	142000	142000	157200	173100	176600	178900	170800	170800	168000	186000	191900	188400
7	142000	143100	157200	173100	176600	178900	171900	174200	166700	187200	190700	188400
8	142000	143100	157200	174200	176600	177700	171900	176600	162600	188400	190700	188400
9	142000	143100	158600	174200	176600	177700	173100	177700	161300	189500	190700	187200
10	142000	143100	158600	174200	176600	176600	173100	178900	158600	189500	190700	187200
11	142000	143100	159900	174200	175400	174200	173100	178900	158600	190700	191900	187200
12	140900	143100	159900	174200	175400	171900	173100	180100	157200	190700	191900	187200
13	140900	144200	159900	174200	174200	169400	173100	180100	159900	190700	191900	186000
14	140900	144200	161300	174200	174200	166700	173100	180100	161300	190700	191900	186000
15	140900	144200	161300	174200	174200	164000	173100	181200	159900	190700	190700	184800
16	140900	144200	161300	174200	174200	161300	174200	181200	161300	190700	190700	184800
17	140900	144200	162600	174200	174200	157200	175400	181200	161300	190700	190700	183600
18	139800	145500	164000	174200	174200	154600	175400	182400	164000	190700	190700	183600
19	139800	145500	164000	174200	174200	152000	175400	182400	166700	190700	190700	182400
20	139800	146800	164000	174200	174200	153300	175400	182400	169400	190700	190700	182400
21	138700	148100	165300	175400	174200	154600	175400	182400	170800	190700	190700	181200
22	138700	148100	165300	175400	174200	155900	174200	182400	174200	190700	189500	181200
23	138700	148100	166700	175400	174200	157200	174200	181200	175400	191900	189500	181200
24	138700	148100	166700	175400	175400	158600	174200	180100	177700	191900	189500	181200
25	138700	149400	168000	175400	175400	161300	173100	178900	178900	191900	189500	181200
26	138700	149400	168000	175400	175400	164000	171900	177700	181200	191900	190700	181200
27	139800	150700	168000	176600	175400	164000	171900	176600	182400	193100	190700	181200
28	139800	150700	169400	176600	176600	166700	170800	176600	183600	193100	190700	181200
29	139800	150700	169400	176600	---	166700	169400	175400	183600	193100	190700	181200
30	139800	152000	169400	176600	---	166700	168000	174200	184800	193100	190700	181200
31	140900	---	169400	176600	---	168000	---	174200	---	193100	190700	---
MAX	143100	152000	169400	176600	176600	178900	175400	182400	184800	193100	193100	190700
MIN	138700	140900	152000	170800	174200	152000	168000	166700	157200	186000	189500	181200
†	4131.7	4132.6	4133.9	4134.5	4134.5	4133.8	4133.8	4134.3	4135.2	4135.9	4135.7	4134.9
‡	-2200	+11100	+17400	+7200	0	-8600	0	+6200	+10600	+8300	-2400	-9500

CAL YR 1982 MAX 177700 MIN 57280 ‡ +112120
WTR YR 1983 MAX 193100 MIN 138700 ‡ + 38100

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

‡ Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

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 mi², 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 except for periods of no gage height record Nov. 15 to Jan. 9, which are poor. Flow completely regulated by Rye Patch Reservoir, capacity 157,200 acre-ft since Feb. 20, 1936. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--69 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-83), 218 ft³/s, 157,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s May 11, 12, 1952, gage height, 10.26 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,940 ft³/s June 16, gage height, 10.20 ft; minimum daily discharge, 2.0 ft³/s Nov. 16 to Jan. 8.

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	28	2.0	2.0	2.0	410	656	2520	2340	2150	2630	599	311
2	20	7.0	2.0	2.0	420	682	2390	2340	2140	2760	599	309
3	3.2	20	2.0	2.0	420	678	2200	2340	2280	2770	597	310
4	17	39	2.0	2.0	420	734	2020	2340	2580	2770	473	311
5	85	81	2.0	2.0	420	1150	1720	2350	2870	2500	396	310
6	163	110	2.0	2.0	430	1240	1720	2370	2950	2070	399	310
7	172	107	2.0	2.0	430	1480	1730	2570	3080	1680	383	313
8	152	92	2.0	2.0	430	1700	1730	3140	3150	1540	370	313
9	152	103	2.0	6.0	430	1730	1730	3340	3120	1670	395	312
10	214	130	2.0	136	430	2120	1870	3190	3100	1750	409	313
11	270	129	2.0	213	430	2190	1940	3120	3100	1750	365	312
12	270	129	2.0	211	430	2170	1950	3230	3170	1750	314	314
13	244	113	2.0	210	430	2410	1940	3230	3340	1580	274	314
14	275	82	2.0	210	430	2420	1940	3170	3580	1490	258	314
15	303	7.0	2.0	209	431	2610	1950	3000	3920	1490	308	313
16	298	2.0	2.0	209	478	2600	1950	3010	3930	1490	405	313
17	255	2.0	2.0	234	477	2590	1950	3010	3840	1490	441	314
18	265	2.0	2.0	265	476	2580	1950	3020	3810	1340	405	315
19	278	2.0	2.0	300	475	2570	1950	3020	3870	1150	382	313
20	255	2.0	2.0	350	473	2580	1950	3030	3600	895	337	314
21	234	2.0	2.0	400	469	2590	2060	3030	3230	727	266	313
22	152	2.0	2.0	350	470	2740	2120	3030	3010	726	178	261
23	110	2.0	2.0	300	468	2860	2120	3030	3060	725	137	208
24	90	2.0	2.0	300	470	2870	2120	3020	3040	725	136	116
25	52	2.0	2.0	330	466	2940	2110	3000	3110	524	198	139
26	24	2.0	2.0	367	466	3260	2100	2900	3130	408	237	183
27	26	2.0	2.0	389	609	3160	2090	2590	3150	533	258	196
28	30	2.0	2.0	392	601	2910	2250	2380	3170	603	271	156
29	61	2.0	2.0	400	---	2900	2360	2370	2940	602	270	133
30	30	2.0	2.0	410	---	2770	2350	2250	2560	600	270	134
31	8.0	---	2.0	410	---	2510	---	2160	---	599	296	---
TOTAL	4536.2	1181.0	62.0	6617.0	12789	68400	60780	86920	93980	43337	10626	8087
MEAN	146	39.4	2.00	213	457	2206	2026	2804	3133	1398	343	270
MAX	303	130	2.0	410	609	3260	2520	3340	3930	2770	599	315
MIN	3.2	2.0	2.0	2.0	410	656	1720	2160	2140	408	136	116
AC-FT	9000	2340	123	13120	25370	135700	120600	172400	186400	85960	21080	16040

CAL YR 1982 TOTAL 82903.19 MEAN 227 MAX 929 MIN .30 AC-FT 164400
WTR YR 1983 TOTAL 397315.20 MEAN 1089 MAX 3930 MIN 2.0 AC-FT 788100

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.

FECAI 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 1982 TO SEPTEMBER 1983

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 SATUR- ATION	COLI- FORM, FECAI, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAI, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV 23...	0945	2.0	782	8.6	5.5	11	11.4	104	K9	230	166
JAN 26...	1005	306	710	8.7	3.0	12	11.8	102	K5	--	167
MAR 22...	1245	2800	702	--	7.5	5.5	--	--	<2	200	163
MAY 25...	1200	3010	759	8.4	16.0	29	9.4	111	--	--	168
JUL 22...	1200	728	805	8.4	19.5	27	8.4	106	--	--	171
SEP 22...	1040	231	788	8.5	18.0	19	8.5	104	--	--	182

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 23...	43	14	99	3.5	11	242	61	66	.70	40	475
JAN 26...	42	15	87	3.0	13	232	55	61	.80	36	--
MAR 22...	42	14	83	2.9	12	225	50	56	.70	32	422
MAY 25...	44	14	96	3.3	12	232	76	56	.60	35	463
JUL 22...	47	13	110	3.8	16	284	71	56	.70	37	519
SEP 22...	48	15	110	3.7	13	273	61	60	.70	33	490

DATE	SOLIDS, SUM OF CONSTITUENTS, 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, DIS- SOLVED (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 23...	480	2.6	<.10	<.060	1.30	.090	.060	.030	10	31
JAN 26...	449	371	<.10	<.060	.90	.090	.070	.050	--	--
MAR 22...	425	3190	<.10	.110	.90	.090	.070	.090	30	26
MAY 25...	473	3760	<.10	.150	1.10	.190	.130	.100	--	--
JUL 22...	522	1020	.10	.080	1.50	.260	.200	.180	20	16
SEP 22...	505	306	.10	<.100	1.10	.140	.100	.090	10	20

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 23...	44	1	<1	<1	<3	3	6	<1	92	22
JAN 26...	--	--	--	--	--	--	--	--	--	--
MAR 22...	31	<1	<1	<1	<3	4	7	1	89	2
MAY 25...	--	--	--	--	--	--	--	--	--	--
JUL 22...	43	<1	<1	<1	<3	9	14	<1	55	2
SEP 22...	34	<1	<1	<1	<3	4	<3	2	66	2

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 23...	.1	<10	3	1	<1	430	14	17	57	.31
JAN 26...	--	--	--	--	--	--	--	--	63	52
MAR 22...	<.1	<10	3	1	<1	340	12	14	23	174
MAY 25...	--	--	--	--	--	--	--	--	29	236
JUL 22...	.1	<10	3	1	<1	360	14	6	31	61
SEP 22...	.1	<10	2	<1	<1	380	13	<3	25	16

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 mi².

PERIOD OF RECORD.--1867-1925 (occasional measurements 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 TOTAL CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	3,791.8	20,820,000	--
Oct. 31.	3,792.1	20,850,000	+30,000
Nov. 30.	3,792.9	20,940,000	+90,000
Dec. 31.	3,794.1	21,070,000	+130,000
CAL YR 1982	--	--	+760,000
Jan. 31.	3,794.9	21,160,000	+90,000
Feb. 28.	3,796.2	21,300,000	+140,000
Mar. 31.	3,798.1	21,510,000	+210,000
Apr. 30.	3,799.7	21,690,000	+180,000
May 31.	3,801.8	21,920,000	+230,000
June 30.	3,804.1	22,180,000	+260,000
July 31.	3,805.1	22,290,000	+110,000
Aug. 31.	3,805.2	22,300,000	+ 10,000
Sept. 30.	3,805.4	22,320,000	+ 20,000
WTR YR 1982-83.	--	--	+1,500,000

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10336600 UPPER TRUCKEE RIVER NEAR MEYERS, CA

LOCATION.--Lat 38°50'35", long 120°01'25", in NE 1/4 SE 1/4 sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 0.4 mi upstream from mouth of Echo Lake outlet, 1.1 mi southwest of Meyers, and 2.5 mi upstream from Angora Creek.

DRAINAGE AREA.--33.1 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,321.89 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. No regulation. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--23 years, 66.9 ft³/s, 48,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s Feb. 1, 1963, gage height, 12.41 ft; minimum daily, 1.5 ft³/s Aug. 31 to Sept. 7, 1977.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0315	542	8.03	June 11	0430	*1,160	9.69
Oct. 30	0915	243	6.47	Sept. 1	1030	225	6.16
May 29	2045	1,120	9.62				

Minimum daily, 14 ft³/s Oct. 18-20.

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	26	76	33	28	27	44	50	55	588	430	121	133
2	24	61	33	27	26	38	50	55	493	544	116	73
3	22	52	33	27	26	35	46	67	482	470	112	55
4	20	47	33	27	26	32	42	82	508	468	103	47
5	18	43	32	27	25	32	40	71	555	511	94	42
6	18	42	32	27	25	32	39	68	608	524	91	38
7	19	39	32	27	32	34	39	77	638	469	93	35
8	19	36	31	27	33	36	41	91	588	381	115	34
9	18	34	30	27	29	39	45	99	582	318	113	32
10	17	34	29	26	27	41	45	98	644	280	98	30
11	17	31	29	26	27	42	43	91	874	280	93	29
12	16	31	30	26	29	43	40	99	638	296	81	28
13	16	29	30	26	36	127	39	109	584	302	75	27
14	16	29	29	26	31	89	38	132	618	307	86	27
15	16	27	29	26	29	65	38	168	685	281	94	25
16	15	26	28	26	27	57	41	185	692	239	76	24
17	15	27	31	26	27	52	44	188	740	217	70	24
18	14	57	30	26	30	48	48	217	682	201	65	22
19	14	49	29	26	29	45	54	264	552	188	76	21
20	14	40	33	26	27	43	62	293	520	175	66	21
21	15	37	40	27	27	42	63	345	518	169	62	20
22	21	40	36	27	28	41	75	420	561	172	58	24
23	55	38	35	27	30	39	75	467	604	165	53	27
24	65	35	34	27	31	39	63	517	575	157	49	26
25	196	34	33	27	31	37	57	569	553	149	45	24
26	250	33	33	30	30	36	53	629	539	139	42	26
27	98	33	32	29	31	36	51	652	498	136	39	32
28	72	38	31	28	31	35	54	743	486	135	37	27
29	67	38	30	28	---	35	56	839	487	134	35	39
30	187	33	29	27	---	40	57	777	444	133	33	4
31	108	---	29	27	---	55	---	701	---	127	57	
TOTAL	1488	1169	978	834	807	1409	1488	9168	17536	8497	2348	1059
MEAN	48.0	39.0	31.5	26.9	28.8	45.5	49.6	296	585	274	75.7	35.3
MAX	250	76	40	30	36	127	75	839	874	544	121	133
MIN	14	26	28	26	25	32	38	55	444	127	33	20
AC-FT	2950	2320	1940	1650	1600	2790	2950	18180	34780	16850	4660	2100

CAL YR 1982	TOTAL	41034	MEAN	112	MAX	767	MIN	12	AC-FT	81390
WTR YR 1983	TOTAL	46781	MEAN	128	MAX	874	MIN	14	AC-FT	92790

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.--Lat 38°55'22", long 119°59'23", in NW 1/4 SE 1/4 sec.4, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank on downstream side of U.S. Highway 50 bridge, 1.0 mi northeast of South Lake Tahoe Post Office, and 1.4 mi upstream from Lake Tahoe.

DRAINAGE AREA.--54.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to September 1974, October 1976 to June 1977, October 1977 to June 1978, March 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,231.04 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for December to February and July to August which are fair. Two small dams may cause slight regulation at times. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--6 years, 128 ft³/s, 92,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s Feb. 16, 1982, gage height, 8.12 ft; minimum daily, 1.7 ft³/s on many days during September 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	1045	599	4.21	Mar. 13	1500	763	4.57
Oct. 30	1300	428	3.52	May 30	0345	*1,300	5.94
Nov. 18	unknown	unknown	unknown	June 11	1130	1,270	5.87

Minimum daily, 22 ft³/s Oct. 16-18.

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	35	140	84	72	57	128	165	165	887	600	160	203
2	32	120	80	70	56	126	161	154	748	640	155	204
3	31	108	77	68	56	110	137	170	667	700	140	121
4	28	87	75	67	56	97	119	195	699	620	135	68
5	27	75	73	65	56	91	110	198	725	660	125	61
6	26	69	68	64	56	93	105	180	765	680	120	57
7	28	63	66	72	69	100	108	195	858	640	125	52
8	28	59	64	74	72	111	120	210	806	550	150	48
9	27	59	62	75	72	116	136	225	772	460	150	45
10	25	56	60	77	71	119	135	190	829	385	135	42
11	25	54	59	69	70	129	121	175	1090	370	125	40
12	24	53	56	71	80	134	110	190	949	385	110	39
13	24	69	56	65	95	564	106	202	811	400	100	38
14	24	88	56	62	90	393	101	225	800	405	110	37
15	24	74	58	52	82	228	105	280	860	370	125	36
16	22	66	57	52	78	183	119	309	900	330	105	34
17	22	64	68	53	76	157	131	300	970	290	92	33
18	22	205	73	53	75	138	138	338	936	260	83	32
19	23	170	64	53	77	122	159	405	840	240	95	30
20	23	103	75	53	76	113	177	454	755	225	96	29
21	24	87	120	53	73	110	174	511	722	220	86	30
22	32	89	107	53	72	102	205	616	760	225	81	33
23	58	91	100	56	76	103	204	701	800	215	76	40
24	71	77	94	60	81	97	173	769	790	205	71	39
25	196	70	90	64	76	93	160	834	749	190	67	37
26	369	67	86	65	76	93	145	927	710	180	61	36
27	185	66	83	64	78	97	136	910	660	175	56	46
28	140	87	81	63	84	94	159	997	650	175	52	37
29	118	100	79	62	---	94	173	1090	650	170	49	49
30	328	90	76	59	---	116	171	1120	690	170	46	64
31	194	---	74	58	---	202	---	1010	---	165	67	---
TOTAL	2235	2606	2321	1944	2036	4453	4263	14245	23848	11300	3148	1660
MEAN	72.1	86.9	74.9	62.7	72.7	144	142	460	795	365	102	55.3
MAX	369	205	120	77	95	564	205	1120	1090	700	160	204
MIN	22	53	56	52	56	91	101	154	650	165	46	29
AC-FT	4430	5170	4600	3860	4040	8830	8460	28250	47300	22410	6240	3290
CAL YR 1982	TOTAL	68098	MEAN	187	MAX	2010	MIN	18	AC-FT	135100		
WTR YR 1983	TOTAL	74059	MEAN	203	MAX	1120	MIN	22	AC-FT	146900		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-74, 1978, 1980 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1972-74, 1978, 1980 to current year.

SEDIMENT RECORDS: Water years 1972-74, 1978, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to September 1983 (discontinued).

WATER TEMPERATURES: March 1981 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1971 to June 1974, October 1977 to June 1978, March 1980 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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 187 micromhos Sept. 24, 1981; minimum recorded, 8 micromhos Apr. 25, 1981.

WATER TEMPERATURES: Maximum recorded, 26.0°C Aug. 18, 1982; minimum recorded, 0.0°C on many days in winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 312 mg/L Dec. 29, 1973; minimum daily mean, 0 mg/L on several days during October 1973, January 1981, and October 1982.

SEDIMENT DISCHARGE: Maximum daily, 377 tons Apr. 11, 1982; minimum daily, 0 ton on several days during October 1973, January 1981, and October 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 130 micromhos May 18; minimum recorded, 17 micromhos Sept. 1, 2.

WATER TEMPERATURES: Maximum recorded, 19.0°C Sept. 5, 6, 12; minimum recorded, 0.0°C Dec. 1-15, 17.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 229 mg/L Mar. 13; minimum daily mean, 0 mg/L Oct. 15-20.

SEDIMENT DISCHARGE: Maximum daily, 349 tons Mar. 13; minimum daily, 0 ton Oct. 15-20.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT										
25...	0930	177	6.0	146	70	34	--	--	--	--
25...	1650	251	7.0	86	58	45	64	86	97	100
26...	1600	369	5.5	94	94	17	--	--	--	--
30...	1700	373	5.0	92	93	15	--	--	--	--
NOV										
18...	1530	242	3.0	154	101	49	--	--	--	--
DEC										
20...	2310	123	1.0	51	17	64	--	--	--	--
MAR										
13...	1105	668	0.0	300	541	47	66	86	96	100
14...	0035	556	0.0	118	177	28	--	--	--	--
MAY										
16...	1420	279	6.0	29	22	70	--	--	--	--
JUNE										
8...	1210	812	4.5	14	31	47	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	40	62	71	64	54	36	38	24	30	30	33
2	72	41	63	68	66	60	33	39	25	30	30	19
3	73	40	65	66	63	62	51	43	26	29	29	26
4	70	44	68	67	62	64	60	60	27	30	29	39
5	67	46	68	68	63	64	32	51	27	30	29	42
6	67	49	69	69	66	66	33	42	27	30	29	43
7	64	50	67	65	55	68	33	54	27	30	29	45
8	61	52	69	66	50	66	34	57	28	30	29	46
9	60	53	67	66	54	66	35	52	28	30	30	46
10	66	54	68	65	55	66	34	49	30	35	33	48
11	64	57	70	64	57	65	36	38	29	55	34	49
12	61	57	70	63	59	66	35	54	29	37	37	49
13	61	56	66	63	56	33	36	57	29	31	38	49
14	62	45	61	61	57	29	37	54	30	30	39	49
15	63	49	68	61	60	59	38	33	30	31	38	50
16	63	51	70	62	60	63	38	28	30	38	41	51
17	64	54	70	61	64	66	37	31	30	43	42	51
18	66	51	68	61	64	69	37	86	---	42	43	52
19	66	58	70	57	63	69	35	33	---	42	41	53
20	67	62	70	53	74	70	57	26	---	41	39	54
21	67	63	58	57	70	70	64	27	---	40	43	54
22	75	64	56	56	67	62	55	25	---	39	45	54
23	71	64	52	54	65	72	48	25	30	37	44	51
24	61	64	53	56	63	70	39	25	30	38	46	50
25	44	65	57	53	62	74	41	25	30	36	44	51
26	32	66	61	50	56	74	43	25	30	35	46	51
27	39	65	59	55	53	74	44	25	30	33	47	51
28	40	67	54	57	53	75	43	26	30	33	48	53
29	42	63	55	55	---	77	40	26	30	31	51	52
30	38	62	58	54	---	76	37	25	30	31	52	48
31	42	---	67	64	---	41	---	24	---	33	50	---
MEAN	60	55	64	61	61	64	41	39	29	35	39	47
WTR YR 1983	MEAN	50		MAX	86		MIN	19				

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	35	3	.28	140	12	4.5	84	6	1.4
2	32	3	.26	120	10	3.2	80	6	1.3
3	31	2	.17	108	9	2.6	77	6	1.2
4	28	2	.15	87	8	1.9	75	5	1.0
5	27	2	.15	75	8	1.6	73	5	.99
6	26	2	.14	69	7	1.3	68	5	.92
7	28	2	.15	63	7	1.2	66	6	1.1
8	28	2	.15	59	7	1.1	64	6	1.0
9	27	1	.07	59	8	1.3	62	6	1.0
10	25	1	.07	56	7	1.1	60	6	.97
11	25	1	.07	54	8	1.2	59	6	.96
12	24	1	.06	53	8	1.1	56	6	.91
13	24	1	.06	69	13	2.4	56	6	.91
14	24	1	.06	88	10	2.4	56	5	.76
15	24	0	.00	74	8	1.6	58	5	.78
16	22	0	.00	66	5	.89	57	5	.77
17	22	0	.00	64	4	.69	68	9	1.7
18	22	0	.00	205	105	58	73	9	1.8
19	23	0	.00	170	50	23	64	10	1.7
20	23	0	.00	103	13	3.6	75	23	4.7
21	24	1	.06	87	6	1.4	120	32	10
22	32	1	.09	89	6	1.4	107	65	19
23	58	25	6.4	91	8	2.0	100	60	16
24	71	35	6.7	77	6	1.2	94	25	6.3
25	196	106	58	70	6	1.1	90	15	3.6
26	369	134	144	67	6	1.1	86	12	2.8
27	185	25	12	66	6	1.1	83	9	2.0
28	140	12	4.5	87	10	2.3	81	7	1.5
29	118	12	3.8	100	16	4.3	79	6	1.3
30	328	139	138	90	9	2.2	76	6	1.2
31	194	30	16	---	---	---	74	6	1.2
TOTAL	2235	---	391.39	2606	---	132.78	2321	---	90.77
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	72	6	1.2	57	7	1.1	128	37	13
2	70	6	1.1	56	6	.91	126	19	6.5
3	68	6	1.1	56	6	.91	110	9	2.7
4	67	6	1.1	56	5	.76	97	7	1.8
5	65	5	.88	56	5	.76	91	7	1.7
6	64	5	.86	56	5	.76	93	7	1.8
7	72	5	.97	69	13	2.4	100	8	2.2
8	74	7	1.4	72	12	2.3	111	10	3.0
9	75	10	2.0	72	9	1.7	116	9	2.8
10	77	13	2.7	71	7	1.3	119	8	2.6
11	69	16	3.0	70	6	1.1	129	9	3.1
12	71	17	3.3	80	5	1.1	134	30	11
13	65	16	2.8	95	7	1.8	564	229	349
14	62	13	2.2	90	7	1.7	393	75	80
15	52	12	1.7	82	5	1.1	228	36	22
16	52	12	1.7	78	4	.84	183	18	8.9
17	53	12	1.7	76	3	.62	157	14	5.9
18	53	12	1.7	75	3	.61	138	12	4.5
19	53	11	1.6	77	3	.62	122	11	3.6
20	53	10	1.4	76	3	.62	113	10	3.1
21	53	9	1.3	73	4	.79	110	10	3.0
22	53	9	1.3	72	4	.78	102	10	2.8
23	56	9	1.4	76	4	.82	103	9	2.5
24	60	9	1.5	81	4	.87	97	9	2.4
25	64	12	2.1	76	4	.82	93	10	2.5
26	65	11	1.9	76	4	.82	93	10	2.5
27	64	10	1.7	78	4	.84	97	10	2.6
28	63	10	1.7	84	6	1.4	94	10	2.5
29	62	9	1.5	---	---	---	94	12	3.0
30	59	8	1.3	---	---	---	116	25	7.8
31	58	7	1.1	---	---	---	202	100	55
TOTAL	1944	---	51.21	2036	---	30.15	4453	---	615.8

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	165	30	13	165	7	3.1	887	18	43
2	161	18	7.8	154	7	2.9	748	25	50
3	137	14	5.2	170	13	6.0	667	27	49
4	119	10	3.2	195	17	9.0	699	24	45
5	110	8	2.4	198	18	9.6	725	21	41
6	105	7	2.0	180	17	8.3	765	19	39
7	108	8	2.3	195	18	9.5	858	15	35
8	120	13	4.2	210	22	12	806	13	28
9	136	23	8.4	225	29	18	772	11	23
10	135	20	7.3	190	26	13	829	14	31
11	121	13	4.2	175	21	9.9	1090	14	41
12	110	8	2.4	190	23	12	949	15	38
13	106	7	2.0	202	25	14	811	16	35
14	101	5	1.4	225	32	19	800	17	37
15	105	5	1.4	280	45	34	860	13	30
16	119	7	2.2	309	55	46	900	14	34
17	131	8	2.8	300	40	32	970	13	34
18	138	12	4.5	338	55	50	936	11	28
19	159	17	7.3	405	70	77	840	9	20
20	177	20	9.6	454	75	92	755	17	35
21	174	20	9.4	511	72	99	722	29	57
22	205	32	18	616	70	116	760	26	53
23	204	25	14	701	52	98	800	13	28
24	173	16	7.5	769	35	73	790	12	26
25	160	17	7.3	834	28	63	749	19	38
26	145	10	3.9	927	28	70	710	29	56
27	136	7	2.6	910	20	49	660	37	66
28	159	14	6.0	997	17	46	650	42	74
29	173	24	11	1090	16	47	650	41	72
30	171	12	5.5	1120	16	48	690	32	60
31	---	---	---	1010	17	46	---	---	---
TOTAL	4263	---	178.8	14245	---	1232.3	23848	---	1246
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	600	34	55	160	17	7.3	203	111	68
2	640	27	47	155	16	6.7	204	62	34
3	700	19	36	140	16	6.0	121	16	5.2
4	620	18	30	135	16	5.8	68	9	1.7
5	660	18	32	125	15	5.1	61	8	1.3
6	680	17	31	120	15	4.9	57	8	1.2
7	640	16	28	125	15	5.1	52	8	1.1
8	550	16	24	150	18	7.3	48	7	.91
9	460	17	21	150	42	17	45	7	.85
10	385	18	19	135	28	10	42	6	.68
11	370	20	20	125	19	6.4	40	6	.65
12	385	23	24	110	19	5.6	39	6	.63
13	400	24	26	100	19	5.1	38	5	.51
14	405	26	28	110	18	5.3	37	5	.50
15	370	28	28	125	17	5.7	36	4	.39
16	330	28	25	105	16	4.5	34	4	.37
17	290	27	21	92	14	3.5	33	4	.36
18	260	26	18	83	12	2.7	32	3	.26
19	240	25	16	95	10	2.6	30	3	.24
20	225	23	14	96	10	2.6	29	3	.23
21	220	21	12	86	9	2.1	30	3	.24
22	225	19	12	81	9	2.0	33	3	.27
23	215	19	11	76	8	1.6	40	4	.43
24	205	19	11	71	8	1.5	39	5	.53
25	190	18	9.2	67	8	1.4	37	4	.40
26	180	18	8.7	61	8	1.3	36	4	.39
27	175	18	8.5	56	8	1.2	46	6	.75
28	175	18	8.5	52	8	1.1	37	4	.40
29	170	17	7.8	49	8	1.1	49	5	.66
30	170	17	7.8	46	8	.99	64	8	1.4
31	165	17	7.6	67	8	1.4	---	---	---
TOTAL	11300	---	647.1	3148	---	134.89	1660	---	124.55
YEAR	74059		4875.74						

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LOCATION.--Lat 38°54'00", long 120°04'14", in NE¼SW¼ sec.11, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, 200 ft north of Cathedral Creek, 1.5 mi south of Fallen Leaf Dam, 2.9 mi southwest of Camp Richardson, and 3.7 mi west of South Lake Tahoe Post Office.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.29 ft May 30; minimum, 2.32 ft Jan. 15.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.40	3.28	2.78	2.46	2.57	2.80	2.61	2.60	4.10	3.82	4.13	3.77
2	3.37	3.13	2.73	2.44	2.53	2.76	2.63	2.59	3.90	4.02	4.12	3.85
3	3.32	3.02	2.67	2.42	2.51	2.73	2.61	2.58	3.78	4.06	4.12	3.82
4	3.27	2.93	2.64	2.40	2.48	2.68	2.57	2.60	3.75	4.04	4.10	3.76
5	3.24	2.87	2.61	2.39	2.47	2.65	2.55	2.63	3.75	4.07	4.08	3.68
6	3.19	2.80	2.56	2.37	2.60	2.62	2.52	2.62	3.74	4.15	4.05	3.62
7	3.19	2.73	2.52	2.36	2.72	2.63	2.50	2.61	3.74	4.12	4.03	3.51
8	3.13	2.71	2.48	2.35	2.70	2.60	2.48	2.60	3.72	4.02	4.08	3.45
9	3.09	2.67	2.45	2.35	2.69	2.58	2.46	2.61	3.73	3.87	4.08	3.45
10	3.06	2.66	2.44	2.35	2.66	2.57	2.46	2.63	3.84	3.72	4.07	3.44
11	3.04	2.62	2.43	2.33	2.62	2.57	2.45	2.63	4.05	3.64	4.03	3.44
12	3.00	2.60	2.43	2.33	2.65	2.68	2.44	2.63	3.98	3.68	3.98	3.43
13	2.96	2.57	2.43	2.33	2.67	3.08	2.44	2.65	3.90	3.77	3.90	3.41
14	2.92	2.54	2.39	2.33	2.63	3.02	2.43	2.68	3.85	3.85	3.87	3.40
15	2.89	2.50	2.36	2.32	2.60	2.94	2.41	2.77	3.87	3.90	3.85	3.39
16	2.86	2.47	2.34	2.33	2.57	2.88	2.40	2.84	3.91	3.88	3.82	3.37
17	2.81	2.47	2.39	2.33	2.53	2.85	2.40	2.89	3.96	3.83	3.77	3.35
18	2.78	2.76	2.38	2.39	2.61	2.80	2.40	2.97	3.99	3.84	3.70	3.31
19	2.76	2.79	2.35	2.39	2.58	2.73	2.42	3.06	3.88	3.87	3.67	3.28
20	2.72	2.74	2.49	2.38	2.55	2.69	2.47	3.15	3.77	3.92	3.62	3.26
21	2.74	2.68	2.68	2.37	2.52	2.66	2.48	3.26	3.70	3.97	3.57	3.24
22	2.75	2.68	2.87	2.52	2.49	2.68	2.51	3.38	3.70	4.02	3.51	3.27
23	3.04	2.64	2.84	2.53	2.47	2.69	2.59	3.53	3.79	4.06	3.46	3.26
24	3.13	2.62	2.77	2.69	2.45	2.69	2.65	3.65	3.87	4.07	3.42	3.25
25	3.87	2.58	2.71	2.67	2.59	2.66	2.65	3.78	3.90	4.08	3.40	3.24
26	4.25	2.54	2.67	2.70	2.62	2.62	2.63	3.88	3.89	4.10	3.38	3.23
27	3.97	2.52	2.63	2.72	2.65	2.65	2.62	3.98	3.86	4.10	3.38	3.21
28	3.70	2.59	2.58	2.67	2.72	2.62	2.63	4.10	3.83	4.10	3.37	3.21
29	3.54	2.69	2.55	2.68	---	2.57	2.63	4.26	3.81	4.11	3.37	3.21
30	3.63	2.82	2.51	2.65	---	2.60	2.62	4.29	3.79	4.12	3.35	3.20
31	3.46	---	2.49	2.61	---	2.64	---	4.24	---	4.13	3.45	---
MAX	4.25	3.28	2.87	2.72	2.72	3.08	2.65	4.29	4.10	4.15	4.13	3.85
MIN	2.72	2.47	2.34	2.32	2.45	2.57	2.40	2.58	3.70	3.64	3.35	3.20
CAL YR 1982	MAX 4.43	MIN 2.29										
WTR YR 1983	MAX 4.29	MIN 2.32										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE 1/4 NW 1/4 sec.2, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank 0.1 mi downstream from Fallen Leaf Lake outlet, and 1.4 mi southwest of Camp Richardson.

DRAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Flow regulated by Fallen Leaf Lake dam (station 10336625).

AVERAGE DISCHARGE (unadjusted).--15 years, 48.6 ft³/s, 35,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft³/s Jan. 14, 1980, gage height, 6.33 ft; minimum daily, 0.20 ft³/s Oct. 4-7, 1970, Sept. 4-6, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 433 ft³/s May 30, gage height, 4.97 ft; minimum daily, 7.7 ft³/s Aug. 29.

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	49	184	67	29	35	58	41	37	395	224	97	11
2	37	155	58	27	32	58	42	36	354	239	96	50
3	34	127	51	26	30	52	38	35	315	257	95	82
4	32	103	45	24	27	47	35	37	302	275	93	79
5	29	69	40	23	26	43	33	39	298	292	90	77
6	28	71	36	22	27	40	31	39	299	315	89	75
7	26	62	32	21	42	39	29	39	300	352	87	73
8	24	56	29	21	50	40	27	40	296	311	87	38
9	22	52	27	20	49	35	27	38	293	272	93	20
10	22	48	26	20	45	33	26	39	302	245	92	20
11	25	44	24	19	41	34	25	40	360	195	89	20
12	30	32	23	19	40	36	24	40	371	139	99	20
13	29	33	24	18	44	94	24	41	345	142	111	20
14	29	32	23	18	40	112	23	45	324	155	102	20
15	27	32	24	18	39	92	23	51	325	166	101	20
16	27	29	23	18	34	77	22	64	333	167	97	20
17	28	28	24	18	31	69	22	75	341	152	91	19
18	26	44	23	18	35	62	22	88	355	112	85	19
19	23	64	23	22	36	54	22	106	338	87	83	19
20	23	60	25	22	33	50	24	134	309	68	78	19
21	24	53	41	21	30	46	26	164	288	73	73	18
22	26	49	67	23	29	45	28	207	281	80	69	19
23	31	47	78	29	27	46	31	248	270	87	64	19
24	50	43	68	45	26	49	39	280	273	90	47	18
25	92	39	59	46	27	46	43	310	279	92	36	18
26	224	36	52	47	39	42	41	325	283	93	21	18
27	318	34	46	51	43	42	39	341	279	94	10	25
28	268	36	41	46	45	41	40	365	274	94	9.4	28
29	225	45	37	46	---	37	40	394	256	95	7.7	44
30	212	67	33	43	---	35	40	422	236	96	9.3	66
31	213	---	31	39	---	40	---	421	---	97	9.1	---
TOTAL	2253	1774	1200	859	1002	1594	927	4540	9274	5156	2210.5	994
MEAN	72.7	59.1	38.7	27.7	35.8	51.4	30.9	146	309	166	71.3	33.1
MAX	318	184	78	51	50	112	43	422	395	352	111	82
MIN	22	28	23	18	26	33	22	35	236	68	7.7	11
AC-FT	4470	3520	2380	1700	1990	3160	1840	9010	18390	10230	4380	1970
CAL YR 1982	TOTAL	29523.0	MEAN	80.9	MAX	398	MIN	5.4	AC-FT	58560		
WTR YR 1983	TOTAL	31783.5	MEAN	87.1	MAX	422	MIN	7.7	AC-FT	63040		

10336645 GENERAL CREEK NEAR MEEKS BAY, CA

LOCATION.--Lat 39°03'07", long 120°07'03", in NE 1/4 NE 1/4 sec.20, T.14 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, on right bank 200 ft upstream from State Highway 89, 1.1 mi north of Meeks Bay, and 0.4 mi upstream from Lake Tahoe.

DRAINAGE AREA.--7.44 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,250.38 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months, which are fair. No known diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s Dec. 20, 1981, gage height, 5.43 ft; minimum daily, 0.53 ft³/s Sept. 10, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0345	291	3.08	June 11	0200	323	3.11
May 29	2045	*335	3.24				

Minimum daily, 1.9 ft³/s Sept 16-21.

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	5.1	25	11	13	8.0	16	25	17	165	101	8.5	19
2	4.8	18	11	11	7.8	15	22	16	138	138	7.5	13
3	4.5	15	11	11	7.5	14	19	19	147	107	6.8	7.5
4	4.1	13	11	10	7.5	13	17	27	185	109	6.0	5.5
5	3.8	12	11	9.9	7.5	12	16	25	180	110	5.6	4.5
6	3.7	11	11	9.4	7.5	12	15	22	173	106	5.5	3.9
7	4.1	10	10	9.0	8.2	12	15	23	164	91	5.2	3.1
8	4.4	9.6	9.8	8.9	8.5	13	15	29	162	71	5.3	2.9
9	4.4	9.5	9.5	8.9	8.6	13	16	30	169	55	5.0	2.7
10	4.1	9.4	8.9	8.9	8.9	14	16	30	191	49	5.0	2.7
11	3.9	8.9	8.7	8.5	8.6	15	15	27	241	57	4.8	2.5
12	3.6	8.5	8.4	8.4	10	16	15	31	162	61	4.4	2.3
13	3.5	8.2	8.4	8.4	15	61	14	37	158	59	4.0	2.1
14	3.4	8.0	8.9	8.4	13	62	14	45	171	56	4.3	2.1
15	3.3	7.7	9.4	8.4	11	38	13	61	189	48	6.6	2.1
16	3.1	7.5	9.4	8.4	11	30	14	66	177	40	6.0	1.9
17	3.1	7.7	11	8.4	10	25	14	64	199	35	4.7	1.9
18	3.1	25	9.1	8.5	10	22	15	72	171	29	4.2	1.9
19	3.1	22	8.9	8.6	9.6	20	17	86	136	27	5.3	1.9
20	3.1	15	12	8.6	9.4	19	19	97	131	25	5.2	1.9
21	3.3	13	22	8.7	9.4	18	21	113	135	21	4.7	1.9
22	4.6	12	17	8.8	9.4	17	24	144	152	21	4.7	3.1
23	17	12	16	8.9	9.8	15	25	176	156	20	4.2	3.4
24	15	11	15	9.1	10	15	22	187	145	17	3.6	3.6
25	60	11	15	10	10	14	21	206	141	16	3.2	3.4
26	122	11	15	11	10	13	18	213	133	14	2.9	3.1
27	35	10	15	10	10	13	17	223	124	13	2.7	3.1
28	23	12	15	9.5	10	13	17	230	121	12	2.5	4.2
29	20	13	14	9.0	---	13	18	259	122	11	2.4	7.5
30	64	12	14	8.5	---	14	18	218	110	10	2.3	12
31	41	---	13	8.2	---	30	---	201	---	9.6	3.1	---
TOTAL	481.1	368.0	369.4	286.3	266.2	617	527	2994	4748	1538.6	146.	130.7
MEAN	15.5	12.3	11.9	9.24	9.51	19.9	17.6	96.6	158	49.6	4.72	4.36
MAX	122	25	22	13	15	62	25	259	241	138	8.5	19
MIN	3.1	7.5	8.4	8.2	7.5	12	13	16	110	9.6	2.3	1.9
AC-FT	954	730	733	568	528	1220	1050	5940	9420	3050	290	259
CAL YR 1982	TOTAL	10673.4	MEAN	29.2	MAX	414	MIN	1.5	AC-FT	21170		
WTR YR 1983	TOTAL	12472.5	MEAN	34.2	MAX	259	MIN	1.9	AC-FT	24740		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1981 to current year.

SEDIMENT RECORDS: Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983 (discontinued).

WATER TEMPERATURES: October 1980 to September 1983 (discontinued).

SEDIMENT RECORDS: October 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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 65 micromhos Sept. 25, 1981; minimum recorded, 7 micromhos several days during May 1982.

WATER TEMPERATURES: Maximum recorded, 24.0°C July 2, 1981; minimum recorded, 0.0°C on many days in most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 266 mg/L Dec. 20, 1981; minimum daily mean, 0 mg/L on many days in most years.

SEDIMENT DISCHARGE: Maximum daily, 457 tons Dec. 20, 1981; minimum daily, 0 ton on many days in most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 57 micromhos Sept. 19, 20, 22; minimum recorded, 7 micromhos May 29, July 1, 2.

WATER TEMPERATURES: Maximum recorded, 14.0°C July 30 to Aug. 6; minimum recorded, 0.0°C many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 40 mg/L Oct. 26; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 23 tons Oct. 26; minimum daily, 0 ton on many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
25...	1255	86	6.0	53	12	18
MAY						
20...	1800	103	3.0	12	3.3	79
23...	1900	200	1.5	25	14	20

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	4.5	3.5	2.5	.5	.5	.0	.0	.5	.5	.5	.0
2	7.5	5.0	3.5	2.5	.5	.5	.5	.0	1.0	.5	1.5	.5
3	7.5	5.5	3.5	2.5	1.0	.5	.5	.0	1.0	.5	1.5	1.0
4	7.0	5.5	3.0	2.0	1.0	.5	1.0	.5	1.0	.5	2.0	1.0
5	7.0	4.5	3.5	2.0	1.5	1.0	1.0	.5	1.0	.5	2.0	1.0
6	6.5	4.5	3.5	2.5	1.5	1.0	1.5	1.0	1.0	.5	2.0	1.0
7	6.0	4.5	3.5	2.5	1.0	.5	1.5	1.0	1.0	.5	2.0	1.0
8	5.5	4.0	2.5	1.0	.5	.5	1.5	1.0	1.5	.5	2.0	1.0
9	6.0	4.5	1.0	.5	.5	.0	1.0	.5	1.5	1.0	2.0	1.0
10	6.5	4.5	1.5	1.0	.5	.0	1.0	.5	2.0	1.0	2.5	1.0
11	6.0	4.0	1.5	.5	1.0	.5	.5	.0	2.0	1.5	2.0	1.0
12	6.5	4.5	2.0	.5	1.5	.0	.5	.0	2.0	1.0	1.5	1.0
13	6.5	4.5	1.5	.5	.5	.0	.5	.0	1.0	.5	.5	.0
14	6.5	4.5	1.5	.5	.5	.0	.5	.0	1.5	.5	.5	.0
15	6.5	5.0	1.5	.5	1.0	.5	1.5	.5	2.0	1.0	1.5	.0
16	6.5	4.5	1.5	.5	1.5	1.0	1.5	1.5	2.0	1.0	1.5	.5
17	6.5	4.5	2.5	1.5	1.0	.5	2.0	1.5	2.0	1.0	1.5	.5
18	5.5	4.0	2.0	.5	1.0	.0	2.0	.5	2.0	.5	1.5	.5
19	5.5	4.5	1.0	.5	.5	.0	.5	.0	1.0	.5	2.0	.0
20	6.0	4.5	1.5	1.0	1.0	.5	.5	.0	2.0	.5	1.5	1.0
21	6.5	4.5	1.0	.5	.5	.0	.5	.5	2.0	1.0	2.0	1.0
22	7.0	5.5	1.5	1.0	.0	.0	.5	.5	2.5	1.5	1.0	.0
23	7.0	6.0	2.5	1.5	.0	.0	1.0	.5	2.5	1.5	1.5	.0
24	7.0	5.5	2.0	1.5	.0	.0	1.0	.5	2.0	1.0	1.0	.0
25	6.5	5.5	2.0	1.0	.0	.0	.5	.5	1.5	.0	1.0	.0
26	5.5	3.0	2.0	.5	.5	.0	1.0	.5	.5	.0	1.5	.0
27	3.0	2.5	2.5	1.0	1.0	.5	1.0	.5	1.0	.0	1.5	.5
28	3.5	2.5	2.5	1.0	.5	.0	1.0	.5	1.0	.5	2.0	.5
29	4.5	3.5	1.0	.5	.5	.0	1.0	.5	---	---	2.5	1.0
30	4.5	3.5	.5	.5	.5	.0	1.0	.5	---	---	3.0	1.5
31	4.0	3.5	---	---	.0	.0	.5	.5	---	---	2.0	.5
MONTH	7.5	2.5	3.5	.5	1.5	.0	2.0	.0	2.5	.0	3.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.5	.5	2.5	1.0	3.5	1.0	7.0	3.5	14.0	10.0	11.0	9.0
2	2.5	1.0	3.5	1.5	3.5	1.5	7.5	3.5	14.0	10.0	11.5	8.5
3	2.0	.5	4.0	1.0	5.0	1.5	8.5	3.0	14.0	10.0	11.5	8.5
4	2.5	.5	2.5	1.0	5.0	1.5	9.0	4.0	14.0	9.5	11.0	8.0
5	2.0	.5	3.0	1.0	5.5	1.0	8.5	4.5	14.0	9.5	11.5	8.5
6	2.5	.5	4.0	.5	5.0	1.5	9.0	4.5	14.0	10.0	12.0	8.5
7	3.0	.5	4.5	1.0	4.0	1.5	8.0	4.5	13.0	11.0	12.0	8.5
8	3.5	1.0	4.0	1.0	4.5	1.5	6.5	4.5	13.0	11.0	11.5	9.0
9	3.5	1.0	4.0	1.0	6.0	1.5	6.5	3.5	14.0	10.0	11.0	8.0
10	3.0	1.0	3.0	1.0	5.5	1.5	8.5	4.0	13.0	11.0	11.0	7.5
11	2.0	.5	4.5	1.0	5.0	1.5	9.0	5.0	13.5	9.5	11.0	7.5
12	2.5	.5	4.0	1.0	6.0	1.5	10.0	6.0	13.5	9.5	11.5	8.0
13	3.0	1.0	4.0	1.0	6.0	1.5	10.0	6.0	13.0	10.0	11.5	8.5
14	2.5	.5	4.0	1.0	6.0	1.5	10.5	6.5	11.5	10.0	11.0	8.0
15	3.0	1.0	3.5	.5	7.0	1.5	10.0	6.5	12.5	10.0	11.0	7.5
16	3.0	1.5	3.5	.5	7.0	2.5	9.5	6.5	13.5	9.5	11.5	8.0
17	3.0	1.5	4.0	1.0	7.0	2.5	10.0	6.5	12.0	10.0	11.5	8.5
18	3.5	1.5	4.0	.5	7.0	2.5	9.5	6.5	12.0	9.0	10.5	8.0
19	4.0	1.5	3.5	.5	7.0	2.0	10.0	7.0	12.0	10.0	10.0	7.5
20	2.5	1.5	3.5	.5	7.0	2.5	10.0	6.5	12.5	9.5	9.5	7.0
21	3.5	1.5	4.0	.5	7.5	2.5	11.0	7.5	11.0	9.0	9.5	7.0
22	3.5	1.5	3.5	.5	7.5	2.5	12.0	8.5	11.0	9.0	8.5	8.0
23	2.0	.5	3.0	.5	7.0	2.5	11.5	8.0	11.5	8.0	8.5	7.5
24	1.0	.0	3.5	.5	7.5	3.0	12.0	8.5	11.5	8.0	9.0	7.0
25	2.0	.0	3.5	.5	8.0	3.0	12.0	8.5	11.5	8.0	9.5	7.0
26	2.5	.5	3.5	.5	7.5	2.5	12.0	8.0	11.5	7.5	9.0	7.5
27	2.0	1.0	4.0	1.0	8.0	3.0	12.5	8.5	11.5	8.0	9.0	6.5
28	2.5	1.0	3.0	1.0	7.5	3.0	13.0	8.5	11.5	8.0	9.0	7.5
29	2.5	1.0	4.0	1.0	7.5	3.5	13.5	9.0	11.5	8.0	7.5	6.5
30	3.0	1.0	4.5	1.0	7.5	3.5	14.0	10.0	11.5	8.0	7.0	6.5
31	---	---	4.5	1.0	---	---	14.0	10.5	11.0	9.0	---	---
MONTH	4.0	.0	4.5	.5	8.0	1.0	14.0	3.0	14.0	7.5	12.0	6.5
YEAR	14.0	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	27	30	40	37	33	31	35	15	8	32	34
2	36	27	31	40	37	33	31	36	17	8	34	28
3	36	29	31	41	37	34	32	34	17	10	35	34
4	39	30	30	41	36	37	32	31	15	9	36	39
5	39	31	30	40	36	38	33	31	12	10	38	42
6	40	32	30	40	38	38	33	32	14	10	39	45
7	40	32	30	40	36	38	34	32	13	10	41	47
8	41	33	29	40	36	37	34	30	13	10	43	48
9	42	33	37	39	34	37	33	29	12	11	46	49
10	44	34	44	39	36	36	33	27	12	11	47	50
11	44	34	45	39	36	35	33	28	12	11	47	51
12	47	36	44	39	37	35	33	28	12	11	48	53
13	47	36	43	39	34	30	34	27	12	11	50	53
14	48	37	44	38	35	28	34	25	12	11	51	53
15	49	37	44	38	35	30	34	22	11	11	48	53
16	49	37	44	38	36	30	35	19	12	12	46	54
17	49	37	43	38	37	31	34	20	12	13	48	55
18	51	35	43	38	35	31	34	20	12	13	50	55
19	51	32	44	37	34	32	34	21	13	14	51	55
20	52	31	42	37	37	32	32	18	10	14	48	55
21	54	31	39	37	37	33	32	18	12	15	49	55
22	54	30	40	37	37	33	32	20	12	15	45	56
23	43	31	40	37	38	34	32	19	11	15	43	55
24	36	31	39	36	36	33	32	18	12	16	45	52
25	30	31	40	35	35	34	32	18	12	21	46	51
26	23	30	41	36	34	34	33	17	13	26	46	51
27	23	30	41	36	34	34	34	15	12	27	48	51
28	24	30	40	37	33	34	35	9	12	28	49	50
29	24	30	41	38	---	34	35	8	12	29	50	43
30	24	30	41	37	---	34	36	12	10	30	51	32
31	25	---	41	38	---	31	---	13	---	31	51	---
MEAN	40	32	39	38	36	34	33	23	13	15	45	48
WTR YR 1983	MEAN	33	MAX	56	MIN	8						

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	5.1	0	.00	25	2	.14	11	1	.03
2	4.8	0	.00	18	2	.10	11	1	.03
3	4.5	0	.00	15	2	.08	11	1	.03
4	4.1	0	.00	13	2	.07	11	1	.03
5	3.8	0	.00	12	2	.06	11	1	.03
6	3.7	0	.00	11	2	.06	11	1	.03
7	4.1	0	.00	10	2	.05	10	1	.03
8	4.4	0	.00	9.6	2	.05	9.8	2	.05
9	4.4	0	.00	9.5	2	.05	9.5	2	.05
10	4.1	0	.00	9.4	2	.05	8.9	2	.05
11	3.9	0	.00	8.9	2	.05	8.7	2	.05
12	3.6	0	.00	8.5	2	.05	8.4	2	.05
13	3.5	0	.00	8.2	3	.07	8.4	1	.02
14	3.4	0	.00	8.0	5	.11	8.9	1	.02
15	3.3	0	.00	7.7	7	.15	9.4	1	.03
16	3.1	0	.00	7.5	6	.12	9.4	1	.03
17	3.1	0	.00	7.7	5	.10	11	1	.03
18	3.1	0	.00	25	7	.47	9.1	1	.02
19	3.1	0	.00	22	6	.36	8.9	1	.02
20	3.1	0	.00	15	5	.20	12	2	.06
21	3.3	0	.00	13	4	.14	22	2	.12
22	4.6	1	.01	12	3	.10	17	2	.09
23	17	4	.18	12	2	.06	16	2	.09
24	15	0	.00	11	2	.06	15	2	.08
25	60	17	3.7	11	1	.03	15	2	.08
26	122	40	23	11	1	.03	15	2	.08
27	35	4	.38	10	1	.03	15	2	.08
28	23	2	.12	12	1	.03	15	2	.08
29	20	1	.05	13	1	.04	14	2	.08
30	64	6	1.0	12	1	.03	14	2	.08
31	41	2	.22	---	---	---	13	4	.14
TOTAL	481.1	---	28.66	368.0	---	2.94	369.4	---	1.69
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	13	3	.11	8.0	0	.00	16	0	.00
2	11	2	.06	7.8	0	.00	15	0	.00
3	11	2	.06	7.5	0	.00	14	0	.00
4	10	1	.03	7.5	0	.00	13	0	.00
5	9.9	1	.03	7.5	0	.00	12	0	.00
6	9.4	1	.03	7.5	0	.00	12	0	.00
7	9.0	1	.02	8.2	0	.00	12	0	.00
8	8.9	0	.00	8.5	0	.00	13	0	.00
9	8.9	0	.00	8.6	0	.00	13	0	.00
10	8.9	0	.00	8.9	0	.00	14	0	.00
11	8.5	0	.00	8.6	0	.00	15	0	.00
12	8.4	0	.00	10	0	.00	16	1	.04
13	8.4	0	.00	15	1	.04	61	21	3.5
14	8.4	0	.00	13	1	.04	62	5	.84
15	8.4	0	.00	11	1	.03	38	2	
16	8.4	0	.00	11	0	.00	30	2	.16
17	8.4	0	.00	10	0	.00	25	1	.07
18	8.5	0	.00	10	0	.00	22	1	.06
19	8.6	0	.00	9.6	0	.00	20	1	.05
20	8.6	0	.00	9.4	0	.00	19	1	.05
21	8.7	0	.00	9.4	0	.00	18	0	.00
22	8.8	0	.00	9.4	0	.00	17	0	.00
23	8.9	0	.00	9.8	0	.00	15	0	.00
24	9.1	0	.00	10	0	.00	15	0	.00
25	10	0	.00	10	0	.00	14	0	.00
26	11	0	.00	10	0	.00	13	0	.00
27	10	0	.00	10	0	.00	13	0	.00
28	9.5	0	.00	10	0	.00	13	0	.00
29	9.0	0	.00	---	---	---	13	0	.00
30	8.5	0	.00	---	---	---	14	1	.04
31	8.2	0	.00	---	---	---	30	3	.24
TOTAL	286.3	---	0.34	266.2	---	0.11	617	---	5.26

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	25	1	.07	17	1	.05	165	5	2.2
2	22	1	.06	16	1	.04	138	5	1.9
3	19	1	.05	19	1	.05	147	7	2.8
4	17	1	.05	27	1	.07	185	8	4.0
5	16	1	.04	25	1	.07	180	9	4.4
6	15	1	.04	22	1	.06	173	7	3.3
7	15	1	.04	23	1	.06	164	7	3.1
8	15	1	.04	29	1	.08	162	7	3.1
9	16	1	.04	30	1	.08	169	8	3.7
10	16	1	.04	30	1	.08	191	18	9.3
11	15	1	.04	27	1	.07	241	15	9.8
12	15	1	.04	31	1	.08	162	8	3.5
13	14	1	.04	37	1	.10	158	6	2.6
14	14	1	.04	45	2	.24	171	7	3.2
15	13	1	.04	61	3	.49	189	8	4.1
16	14	1	.04	66	3	.53	177	7	3.3
17	14	2	.08	64	4	.69	199	13	9.0
18	15	2	.08	72	7	1.4	171	11	5.1
19	17	2	.09	86	8	1.9	136	6	2.2
20	19	1	.05	97	10	2.6	131	6	2.1
21	21	1	.06	113	13	4.0	135	6	2.2
22	24	0	.00	144	13	5.1	152	14	5.7
23	25	0	.00	176	15	7.1	156	11	4.6
24	22	0	.00	187	15	7.6	145	8	3.1
25	21	1	.06	206	16	8.9	141	7	2.7
26	18	1	.05	213	17	9.8	133	7	2.5
27	17	1	.05	223	18	11	124	7	2.3
28	17	1	.05	230	19	12	121	6	2.0
29	18	1	.05	259	21	15	122	5	1.6
30	18	1	.05	218	17	10	110	4	1.2
31	---	---	---	201	10	5.4	---	---	---
TOTAL	527	---	1.38	2994	---	104.64	4748	---	110.6
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	101	3	.82	8.5	1	.02	19	5	.26
2	138	4	1.5	7.5	1	.02	13	2	.07
3	107	3	.87	6.8	1	.02	7.5	1	.02
4	109	3	.88	6.0	1	.02	5.5	1	.01
5	110	3	.89	5.6	1	.02	4.5	1	.01
6	106	4	1.1	5.5	1	.01	3.9	0	.00
7	91	4	.98	5.2	1	.01	3.1	0	.00
8	71	3	.58	5.3	1	.01	2.9	0	.00
9	55	3	.45	5.0	1	.01	2.7	0	.00
10	49	3	.40	5.0	1	.01	2.7	0	.00
11	57	3	.46	4.8	1	.01	2.5	0	.00
12	61	3	.49	4.4	1	.01	2.3	0	.00
13	59	2	.32	4.0	1	.01	2.1	0	.00
14	56	2	.30	4.3	1	.01	2.1	0	.00
15	48	2	.26	6.6	2	.04	2.1	0	.70
16	40	2	.22	6.0	2	.03	1.9	0	.00
17	35	2	.19	4.7	1	.01	1.9	0	.00
18	29	2	.16	4.2	1	.01	1.9	0	.00
19	27	1	.07	5.3	1	.01	1.9	0	.00
20	25	2	.14	5.2	1	.01	1.9	0	.00
21	21	2	.11	4.7	0	.00	1.9	0	.00
22	21	2	.11	4.7	0	.00	3.1	1	.01
23	20	1	.05	4.2	0	.00	3.4	1	.01
24	17	1	.05	3.6	0	.00	3.6	1	.01
25	16	1	.04	3.2	1	.01	3.4	1	.01
26	14	1	.04	2.9	1	.01	3.1	1	.01
27	13	1	.04	2.7	1	.01	3.1	1	.01
28	12	1	.03	2.5	1	.01	4.2	1	.01
29	11	1	.03	2.4	1	.01	7.5	2	.04
30	10	1	.03	2.3	1	.01	12	1	.03
31	9.6	1	.03	3.1	1	.01	---	---	---
TOTAL	1538.6	---	11.64	146.2	---	0.37	130.7	---	0.51
YEAR	12472.5		268.14						

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA

LOCATION.--Lat 39°06'27", long 120°09'40", in NW 1/4 NE 1/4 sec.36, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft upstream from bridge on State Highway 89, 1,000 ft upstream from Lake Tahoe, and 4.6 mi south of Tahoe City.

DRAINAGE AREA.--11.2 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft, from topographic map. Oct. 1, 1960 to Sept. 30, 1964, at datum 10.25 ft lower and Oct. 1, 1964 to Aug. 27, 1970, at datum 12 ft lower; at site 400 ft downstream.

REMARKS.--Records good except those for the winter months, which are fair. No known diversion or regulation.

AVERAGE DISCHARGE.--23 years, 38.6 ft³/s, 27,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s Dec. 22 or 24, 1964, from indirect measurement of peak flow; maximum gage height, 9.90 ft Dec. 22, 1964; minimum discharge, 0.30 ft³/s Sept. 19, 1968.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0145	578	3.52	May 29	1945	*687	3.79
Mar. 13	1230	273	2.69	June 11	0030	633	3.66

Minimum daily, 5.3 ft³/s Sept. 16.

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	12	44	18	17	14	28	46	33	334	231	74	47
2	11	35	18	16	14	25	41	32	280	306	71	24
3	10	30	18	16	14	24	36	37	294	248	68	17
4	9.5	27	18	16	14	23	33	45	345	248	63	14
5	8.7	24	18	16	14	22	31	43	340	264	57	12
6	8.7	23	17	16	15	22	29	39	339	271	55	10
7	9.2	21	17	16	15	23	29	39	336	230	55	9.4
8	9.0	20	17	16	15	25	29	44	340	182	53	8.8
9	9.0	19	16	16	15	26	32	47	361	147	50	8.4
10	8.7	19	16	15	15	28	31	49	400	138	47	7.6
11	8.3	18	16	15	14	32	30	45	491	142	43	7.2
12	7.8	18	16	15	18	34	28	51	339	161	39	6.7
13	7.6	17	16	15	33	188	27	60	308	167	35	6.1
14	7.3	17	15	15	23	119	26	72	331	174	35	5.9
15	7.5	17	15	15	21	73	26	96	360	161	39	5.4
16	7.3	16	15	15	20	57	27	105	345	138	33	5.3
17	7.3	17	16	15	20	50	28	105	402	125	30	5.7
18	7.2	28	15	15	19	44	28	122	346	112	27	6.1
19	7.0	30	15	15	18	40	32	151	279	104	30	5.9
20	7.1	24	17	15	18	38	35	173	260	97	26	5.6
21	7.2	22	26	15	18	36	37	218	260	96	24	5.6
22	8.7	22	22	15	18	35	44	284	293	101	26	8.3
23	24	20	20	16	18	36	48	338	323	96	22	12
24	24	19	19	16	18	35	42	367	307	92	19	9.6
25	124	18	18	16	20	30	43	402	297	90	17	8.1
26	193	18	18	16	22	28	35	427	280	83	15	7.3
27	57	18	18	16	20	27	33	461	263	79	14	.0
28	41	20	18	16	21	26	33	487	251	79	13	6.7
29	35	20	18	15	---	25	33	554	259	79	13	9.8
30	104	19	18	15	---	27	33	453	238	83	1	12
31	61	---	17	14	---	58	---	430	---	80	15	---
TOTAL	849.1	660	541	480	504	1284	1005	5809	9601	4604	1120	304.5
MEAN	27.4	22.0	17.5	15.5	18.0	41.4	33.5	187	320	149	36.1	10.2
MAX	193	44	26	17	33	188	48	554	491	306	74	47
MIN	7.0	16	15	14	14	22	26	32	238	79	12	5.3
AC-FT	1680	1310	1070	952	1000	2550	1990	11520	19040	9130	2220	604

CAL YR 1982	TOTAL	22069.3	MEAN	60.5	MAX	684	MIN	4.4	AC-FT	43770
WTR YR 1983	TOTAL	26761.6	MEAN	73.3	MAX	554	MIN	5.3	AC-FT	53080

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78, 1980 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1975-78, 1980 to current year.

SEDIMENT RECORDS: Water years 1975-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1980 to September 1983 (discontinued).

WATER TEMPERATURES: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1974 to June 1978 (1977-78 storm season only), October 1979 to current year.

COOPERATION.--Selected sediment samples and water temperature observations furnished by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 121 micromhos Sept. 7, 1981; minimum recorded, 11 micromhos Sept. 18, 1983.

WATER TEMPERATURES: Maximum recorded, 22.5°C July 27, 28, 1981; minimum recorded, 0.0°C on several winter days during most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,200 mg/L Jan. 13, 1980; minimum daily mean, 0 mg/L on many days each year.

SEDIMENT DISCHARGE: Maximum daily, 2,590 tons Jan. 13, 1980; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 81 micromhos Feb. 27; minimum recorded, 11 micromhos Sept. 18.

WATER TEMPERATURES: Maximum recorded, 15.0°C on several days during August and September; minimum recorded, 0.0°C on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 148 mg/L Mar. 13; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 201 tons May 29; minimum daily, 0 ton on many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	
OCT									
23...	1045	39	7.0	34	3.6	--	--	--	
25...	0900	87	6.5	143	34	--	--	--	
25...	1200	161	6.0	162	70	9	18	28	
25...	2215	217	6.0	204	120	--	--	--	
MAR									
13...	1240	273	1.0	213	157	--	--	--	
MAY									
20...	1925	210	2.5	92	52	--	--	--	
26...	1800	478	3.0	109	141	--	--	--	
29...	1730	658	3.5	235	418	--	--	--	
JUNE									
06...	1235	277	6.5	15	11	--	--	--	
09...	1740	406	6.0	65	71	--	--	--	
15...	1055	290	5.0	26	20	--	--	--	
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT									
23...	--	--	56	--	--	--	--	--	--
25...	--	--	36	--	--	--	--	--	--
25...	40	49	55	69	89	98	100	--	--
25...	--	--	38	--	--	--	--	--	--
MAR									
13...	--	--	37	--	--	--	--	--	--
MAY									
20...	--	--	43	61	82	97	100	--	--
26...	--	--	26	--	--	--	--	--	--
29...	--	--	45	62	81	93	98	100	--
JUNE									
06...	--	--	34	--	--	--	--	--	--
09...	--	--	21	--	--	--	--	--	--
15...	--	--	34	--	--	--	--	--	--

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.0	5.5	6.0	3.0	.5	.5	.5	.0	1.0	.0	1.0	.5
2	10.5	6.0	6.0	3.5	.5	.0	1.0	.0	1.5	.0	2.0	1.0
3	10.0	6.5	6.0	3.0	2.0	.5	1.5	.0	1.5	1.0	3.0	1.5
4	9.5	6.5	5.5	2.5	2.0	.5	2.0	1.0	2.0	.5	3.5	1.5
5	9.5	5.5	6.0	3.0	2.5	1.0	2.0	.5	1.5	1.0	3.5	1.5
6	9.0	5.5	6.0	3.5	2.5	1.0	2.0	1.0	1.5	.5	4.0	1.5
7	8.5	5.0	5.5	3.5	1.5	.0	2.0	1.0	.5	.5	3.5	1.5
8	8.5	4.5	3.5	1.0	1.0	.0	2.0	1.0	1.0	.5	4.0	2.0
9	9.0	5.5	2.5	1.0	1.5	.0	2.0	.5	1.0	.5	4.5	2.0
10	9.0	6.0	3.0	2.0	2.0	.0	2.0	.0	2.0	.5	5.0	2.0
11	9.0	5.0	4.0	1.5	2.5	.5	1.5	.0	2.5	1.0	4.5	1.5
12	9.5	6.0	4.0	1.5	2.5	.0	1.0	.0	1.5	.5	2.5	1.0
13	9.5	5.5	4.0	1.0	1.5	.0	1.0	.0	1.0	.5	1.0	.5
14	9.0	5.5	4.0	1.0	1.0	.0	1.5	.0	2.5	.5	.5	.5
15	9.5	5.5	4.0	1.5	1.5	.5	2.5	.5	2.5	1.0	3.0	.5
16	9.0	5.5	4.0	1.0	2.5	.5	2.0	1.5	3.0	1.0	3.5	1.0
17	9.0	6.0	5.0	3.0	1.0	.0	3.0	1.5	3.0	1.5	3.5	1.0
18	8.0	4.5	3.5	.5	1.5	.0	2.5	.0	2.0	.5	3.5	1.5
19	7.5	5.5	2.5	.5	1.5	.0	.0	.0	1.5	.5	4.5	.5
20	8.0	6.0	3.5	1.5	1.0	.5	.5	.0	3.5	.5	3.0	1.5
21	8.5	6.0	3.0	1.0	.5	.0	1.5	.0	4.0	1.0	4.0	1.0
22	9.0	6.5	3.5	2.0	.0	.0	1.0	.0	4.0	2.0	2.0	.0
23	8.0	7.0	4.0	3.0	.0	.0	1.0	.0	4.0	2.0	2.5	.0
24	8.0	6.5	4.5	2.5	.0	.0	.5	.0	4.0	1.5	.5	.0
25	7.0	6.0	4.0	2.0	.0	.0	.5	.0	2.5	.5	2.5	.0
26	5.5	3.5	3.5	1.0	.0	.0	1.5	.0	.5	.5	3.5	.0
27	6.0	3.0	4.5	2.0	1.0	.0	.0	.0	.5	.5	2.5	.0
28	6.5	3.0	4.0	1.0	1.0	.0	1.0	.0	1.0	.5	4.0	1.0
29	6.5	4.5	1.0	.5	.5	.0	.5	.0	---	---	4.0	1.5
30	5.0	3.5	.5	.5	.5	.0	1.5	.0	---	---	6.0	2.0
31	6.5	4.0	---	---	.5	.0	1.0	.0	---	---	5.0	1.0
MONTH	10.5	3.0	6.0	.5	2.5	.0	3.0	.0	4.0	.0	6.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	1.0	6.0	1.5	5.5	2.0	8.5	2.5	13.5	5.5	10.5	8.0
2	4.5	1.0	6.5	2.0	5.5	2.0	8.0	2.5	13.5	5.5	13.5	6.5
3	4.0	.5	8.5	1.5	7.5	2.0	9.5	2.0	13.5	5.5	13.5	7.0
4	4.5	.5	5.0	1.5	7.0	2.0	9.5	2.5	13.5	5.5	14.0	7.0
5	3.5	.5	4.0	1.0	7.5	2.0	9.0	3.0	14.0	5.5	15.0	8.0
6	5.5	.5	7.5	.5	7.5	2.0	9.0	3.0	14.5	6.5	15.0	8.5
7	6.5	1.0	8.0	1.5	6.0	2.5	8.0	3.0	12.0	8.0	14.5	8.0
8	6.5	1.5	7.5	1.5	6.5	2.5	7.0	2.5	12.5	7.5	14.0	8.5
9	6.0	1.5	7.5	1.0	7.5	2.0	7.5	2.0	14.0	7.0	14.0	7.0
10	3.5	1.5	6.0	1.5	7.0	2.0	10.0	2.5	13.5	8.5	14.0	7.0
11	3.5	1.0	8.0	1.5	6.5	2.5	10.5	2.5	14.5	7.0	14.5	7.0
12	6.0	.5	7.5	1.5	7.5	2.0	11.0	3.0	14.5	7.0	15.0	8.0
13	5.5	1.0	8.0	1.5	8.0	2.0	11.0	2.5	13.5	8.0	15.0	8.5
14	6.0	1.0	8.0	1.5	8.0	2.5	10.5	3.0	11.0	8.0	14.5	7.5
15	6.5	1.5	7.0	1.5	7.5	2.5	10.0	3.0	13.5	8.5	14.0	7.0
16	6.5	2.0	6.5	1.0	8.0	2.0	10.5	2.5	15.0	8.0	15.0	8.0
17	5.5	2.0	7.0	1.5	7.5	2.0	10.5	3.0	12.0	8.5	14.5	8.5
18	6.5	2.0	6.5	1.5	7.5	2.0	10.5	3.0	13.0	7.5	13.0	8.0
19	7.0	2.0	7.0	1.5	8.0	1.5	10.5	3.0	12.5	9.0	12.0	7.0
20	5.0	2.0	7.0	1.5	8.0	2.0	11.0	2.5	14.0	7.5	12.0	6.5
21	6.5	2.5	7.0	1.5	8.5	2.0	12.0	3.5	10.5	8.0	12.5	6.5
22	6.0	2.0	6.5	1.5	8.5	2.5	12.0	4.0	12.5	7.0	10.5	8.5
23	3.5	.0	6.0	1.5	8.0	2.5	11.5	3.0	12.5	6.5	9.0	7.5
24	2.0	.0	6.0	1.5	8.0	2.5	12.0	4.0	13.5	7.0	11.5	7.0
25	4.5	.0	6.0	1.5	8.5	2.5	11.5	4.0	13.5	6.5	12.0	7.0
26	4.5	1.0	6.0	1.5	8.5	2.0	11.5	3.5	13.5	6.5	10.5	7.5
27	3.5	2.0	6.0	1.5	8.5	2.0	12.5	4.0	14.0	6.5	11.0	6.5
28	4.5	1.0	5.0	2.0	8.5	2.5	13.0	4.0	14.5	7.0	10.0	7.5
29	5.0	1.5	5.5	1.5	8.5	2.5	13.0	4.5	14.0	7.5	8.5	6.0
30	5.5	1.5	6.5	1.5	8.5	2.5	13.5	5.5	13.5	7.0	8.5	6.0
31	---	---	6.5	2.0	---	---	12.5	5.5	12.0	8.5	---	---
MONTH	7.0	.0	8.5	.5	8.5	1.5	13.5	2.0	15.0	5.5	15.0	6.0
YEAR	15.0	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	43	63	64	63	58	58	64	38	32	34	44
2	60	44	63	65	63	57	59	64	39	29	34	49
3	60	46	51	66	62	59	60	62	38	30	35	52
4	61	47	52	66	62	59	61	60	36	30	36	53
5	62	48	52	65	62	60	61	60	36	29	37	54
6	63	49	55	65	61	60	62	61	35	28	37	56
7	62	49	55	66	59	59	62	61	35	30	37	51
8	61	51	54	66	58	60	62	59	35	32	37	47
9	62	50	60	66	59	60	61	59	34	34	38	53
10	63	49	59	66	59	60	61	58	34	34	38	53
11	63	51	59	66	59	58	62	59	32	33	39	46
12	64	52	58	66	56	57	62	58	35	31	41	40
13	65	53	63	66	55	44	62	56	35	30	42	32
14	66	55	63	66	58	50	63	54	34	29	41	26
15	65	54	60	66	60	54	64	51	33	30	41	20
16	64	53	60	66	64	56	64	51	33	31	41	20
17	65	53	59	66	63	57	64	52	31	32	42	15
18	66	47	61	65	67	59	63	50	32	32	43	14
19	67	48	64	65	62	60	62	47	34	33	43	14
20	68	53	60	62	51	60	62	45	34	34	43	15
21	67	55	55	52	51	60	62	43	33	33	44	17
22	66	56	59	64	53	60	60	42	32	32	45	44
23	50	59	61	64	54	60	59	41	31	32	46	64
24	50	62	61	62	59	59	60	40	31	33	48	64
25	33	62	63	62	75	61	60	39	31	33	48	57
26	27	62	62	47	74	62	62	38	31	33	45	50
27	38	64	66	46	71	61	62	37	32	34	44	62
28	41	63	67	47	63	62	62	37	31	33	43	65
29	44	57	68	62	---	63	63	35	31	33	45	68
30	34	60	65	63	---	61	63	36	31	33	46	66
31	41	---	64	63	---	52	---	36	---	33	47	---
MEAN	57	53	60	63	61	58	62	50	34	32	41	44
WTR YR 1983	MEAN	51	MAX	75	MIN	14						

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	12	0	.00	44	1	.12	18	5	.24
2	11	0	.00	35	1	.09	18	6	.29
3	10	0	.00	30	1	.08	18	8	.39
4	9.5	0	.00	27	1	.07	18	10	.49
5	8.7	0	.00	24	1	.06	18	10	.49
6	8.7	0	.00	23	1	.06	17	10	.46
7	9.2	0	.00	21	1	.06	17	10	.46
8	9.0	0	.00	20	1	.05	17	9	.41
9	9.0	0	.00	19	1	.05	16	8	.35
10	8.7	0	.00	19	1	.05	16	8	.35
11	8.3	0	.00	18	1	.05	16	6	.26
12	7.8	0	.00	18	1	.05	16	4	.17
13	7.6	0	.00	17	2	.09	16	2	.09
14	7.3	0	.00	17	2	.09	15	1	.04
15	7.5	0	.00	17	3	.14	15	1	.04
16	7.3	0	.00	16	2	.09	15	2	.08
17	7.3	0	.00	17	1	.05	16	2	.09
18	7.2	0	.00	28	4	.30	15	3	.12
19	7.0	0	.00	30	3	.24	15	3	.12
20	7.1	0	.00	24	3	.19	17	4	.18
21	7.2	0	.00	22	3	.18	26	6	.42
22	8.7	0	.00	22	3	.18	22	4	.24
23	24	10	.91	20	2	.11	20	4	.22
24	24	5	.32	19	2	.10	19	4	.21
25	124	98	53	18	2	.10	18	3	.15
26	193	94	95	18	2	.10	18	3	.15
27	57	5	.77	18	2	.10	18	2	.10
28	41	4	.44	20	4	.22	18	2	.10
29	35	3	.28	20	4	.22	18	2	.10
30	104	20	6.0	19	4	.21	18	2	.10
31	61	4	.66	---	---	---	17	2	.09
TOTAL	849.1	---	157.38	660	---	3.50	541	---	7.00

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	17	3	.14	14	2	.08	28	2	.15
2	16	3	.13	14	2	.08	25	2	.14
3	16	3	.13	14	2	.08	24	2	.13
4	16	3	.13	14	2	.08	23	2	.12
5	16	3	.13	14	2	.08	22	2	.12
6	16	3	.13	15	2	.08	22	2	.12
7	16	3	.13	15	4	.16	23	3	.19
8	16	2	.09	15	3	.12	25	3	.20
9	16	1	.04	15	2	.08	26	2	.14
10	15	1	.04	15	2	.08	28	2	.15
11	15	1	.04	14	2	.08	32	3	.26
12	15	1	.04	18	6	.29	34	8	.73
13	15	1	.04	33	11	.98	188	148	82
14	15	1	.04	23	3	.19	119	27	8.7
15	15	1	.04	21	2	.11	73	7	
16	15	1	.04	20	2	.11	57	3	.16
17	15	1	.04	20	2	.11	50	2	.27
18	15	1	.04	19	2	.10	44	2	.24
19	15	3	.12	18	2	.10	40	2	.22
20	15	2	.08	18	2	.10	38	2	.21
21	15	1	.04	18	1	.05	36	1	.10
22	15	1	.04	18	1	.05	35	1	.09
23	16	1	.04	18	1	.05	36	1	.10
24	16	1	.04	18	1	.05	35	2	.19
25	16	1	.04	20	1	.05	30	1	.08
26	16	1	.04	22	1	.06	28	0	.00
27	16	1	.04	20	1	.05	27	0	.00
28	16	1	.04	21	1	.06	26	0	.00
29	15	1	.04	---	---	---	25	0	.00
30	15	1	.04	---	---	---	27	2	.15
31	14	1	.04	---	---	---	58	15	2.3
TOTAL	480	---	2.05	504	---	3.51	1284	---	98.96

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	46	3	.37	33	2	.18	334	30	27
2	41	1	.11	32	2	.17	280	30	23
3	36	1	.10	37	4	.40	294	35	28
4	33	1	.09	45	6	.73	345	55	51
5	31	1	.08	43	3	.35	340	54	50
6	29	1	.08	39	2	.21	339	32	29
7	19	1	.08	39	2	.21	336	27	24
8	9	1	.08	44	2	.24	340	32	29
9	32	1	.09	47	2	.25	361	38	37
10	31	1	.08	49	2	.26	400	49	60
11	30	1	.08	45	3	.36	491	77	102
12	28	1	.08	51	5	.69	339	48	44
13	27	1	.07	60	6	.97	308	37	31
14	26	1	.07	72	8	1.6	331	42	38
15	26	1	.07	96	11	2.9	360	50	49
16	27	1	.07	105	10	2.8	345	49	46
17	28	3	.23	105	12	3.4	402	65	71
18	28	5	.38	122	15	4.9	346	43	40
19	32	6	.52	151	26	11	279	30	23
20	35	9	.85	173	37	17	260	33	23
21	37	11	1.1	218	42	25	260	33	23
22	44	20	2.4	284	57	44	293	45	36
23	48	20	2.6	338	69	72	323	45	39
24	42	14	1.6	367	74	80	307	38	31
25	43	15	1.7	402	82	89	297	34	27
26	35	9	.85	427	73	84	280	31	23
27	33	4	.36	461	90	112	263	28	20
28	33	2	.18	487	102	134	251	27	18
29	33	2	.18	554	125	201	259	27	19
30	33	2	.18	453	93	114	238	31	20
31	---	---	---	430	50	58	---	---	---
TOTAL	1005	---	14.73	5809	---	1061.62	9601	---	1081
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	231	35	22	74	2	.40	47	35	5.4
2	306	59	49	71	2	.38	24	4	.26
3	248	37	25	68	2	.37	17	2	.09
4	248	35	23	63	2	.34	14	2	.08
5	264	32	23	57	2	.31	12	3	.10
6	271	33	24	55	2	.30	10	3	.08
7	230	20	12	55	1	.15	9.4	3	.08
8	182	13	6.4	53	1	.14	8.8	4	.10
9	147	12	4.8	50	1	.14	8.4	4	.10
10	138	14	5.2	47	1	.13	7.6	4	.08
11	142	19	7.3	43	1	.12	7.2	5	.10
12	161	30	13	39	1	.11	6.7	5	.09
13	167	27	12	35	1	.09	6.1	5	.08
14	174	21	9.9	35	1	.09	5.9	4	.06
15	161	15	6.5	39	2	.21	5.4	4	.06
16	138	8	3.0	33	1	.09	5.3	4	.06
17	125	6	2.0	30	1	.08	5.7	4	.06
18	112	6	1.8	27	1	.07	6.1	3	.05
19	104	5	1.4	30	2	.16	5.9	3	.05
20	97	5	1.3	26	2	.14	5.6	3	.05
21	96	5	1.3	24	2	.13	5.6	3	.05
22	101	6	1.6	26	2	.14	8.3	5	.11
23	96	7	1.8	22	2	.12	12	5	.16
24	92	7	1.7	19	1	.05	9.6	3	.08
25	90	6	1.5	17	1	.05	8.1	3	.07
26	83	5	1.1	15	1	.04	7.3	3	.06
27	79	5	1.1	14	1	.04	7.0	3	.06
28	79	4	.85	13	1	.04	6.7	3	.05
29	79	3	.64	13	1	.04	9.8	4	.11
30	83	3	.67	12	1	.03	12	4	.13
31	80	2	.43	15	2	.08	---	---	---
TOTAL	4604	---	265.29	1120	---	4.58	304.5	---	7.90
YEAR	26761.6		2707.52						

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

LOCATION.--Lat 39°07'56", long 120°09'24", in NW 1/4 SE 1/4 sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft downstream from State Highway 89 bridge, 2.1 mi north of Tahoe Pines, and 2.6 mi southwest of Tahoe City.

DRainage AREA.--9.70 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft, from topographic map.

REMARKS.--Records fair. Minor diversion for local water supply.

AVERAGE DISCHARGE.--11 years, 29.1 ft³/s, 21,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s Dec. 19, 1981, gage height, 8.05 ft, from rating curve extended above 800 ft³/s; no flow many days during 1977-78, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0100	578	5.84	May 29	1815	461	5.73
Oct. 30	0300	122	4.85	June 10	2400	*637	6.38
Mar. 13	1145	unknown	a 6.38				

a Backwater from ice.

Minimum daily, 4.3 ft³/s Sept. 21.

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	12	39	18	14	9.8	27	45	31	225	223	54	26
2	11	33	17	13	9.8	21	41	31	177	310	52	15
3	9.8	30	16	13	9.8	19	36	35	198	235	49	13
4	9.2	27	16	12	9.3	18	35	43	226	233	46	11
5	8.0	25	16	11	9.1	17	33	41	241	251	42	9.9
6	7.3	23	16	11	8.9	16	31	30	243	257	41	9.4
7	7.9	22	15	11	9.9	16	29	33	251	215	41	8.8
8	7.9	22	15	11	9.8	19	32	39	267	154	40	8.3
9	7.6	21	15	11	9.8	19	34	44	281	122	37	7.8
10	6.7	21	15	11	9.8	19	33	43	344	109	35	7.3
11	6.0	19	13	11	9.1	23	31	39	434	108	32	7.0
12	5.8	19	13	11	14	23	29	42	307	121	28	6.6
13	5.8	18	13	11	24	110	27	50	275	125	27	6.3
14	5.8	18	13	11	16	96	27	56	271	131	27	5.9
15	5.3	17	12	11	15	84	27	64	295	117	28	5.6
16	4.7	15	12	11	14	60	29	74	299	99	24	5.3
17	4.7	17	13	11	14	52	31	72	349	90	22	4.9
18	4.8	33	15	11	14	47	32	81	292	80	20	4.6
19	4.6	34	15	11	14	42	34	99	247	77	21	4.5
20	4.6	27	18	11	13	39	35	117	232	70	19	4.4
21	4.5	24	25	11	13	37	37	139	228	69	18	4.3
22	5.7	22	19	12	13	35	40	180	262	71	20	7.9
23	23	22	18	12	14	33	48	205	300	67	17	9.1
24	15	20	18	12	14	34	42	230	282	67	15	6.8
25	98	20	17	13	15	29	35	246	272	65	13	6.0
26	152	20	16	13	17	27	31	275	252	61	12	5.6
27	54	20	16	12	14	27	31	304	240	58	11	5.3
28	41	21	16	12	16	27	31	307	226	57	11	5.6
29	37	21	16	12	---	26	31	361	235	57	9.9	6.7
30	76	19	15	11	---	27	31	319	212	61		9.0
31	50	---	14	10	---	63	---	311	---	59		---
TOTAL	695.7	689	486	358	359.1	1132	1008	3941	7963	3819	834.3	237.9
MEAN	22.4	23.0	15.7	11.5	12.8	36.5	33.6	127	265	123	26.9	7.93
MAX	152	39	25	14	24	110	48	361	434	310	54	26
MIN	4.5	15	12	10	8.9	16	27	30	177	57	9.4	4.3
AC-FT	1380	1370	964	710	712	2250	2000	7820	15790	7570	1650	472
CAL YR 1982	TOTAL	18111.4	MEAN	49.6	MAX	518	MIN	2.3	AC-FT	35920		
WTR YR 1983	TOTAL	21523.0	MEAN	59.0	MAX	434	MIN	4.3	AC-FT	42690		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-78, 1980 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1973-78, 1980 to current year.

SEDIMENT RECORDS.--Water years 1973-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983 (discontinued).

WATER TEMPERATURES: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to current year.

OPERATION.--Selected sediment samples and water temperature observations furnished by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 82 micromhos Sept. 25, 26, 1981; minimum recorded, 21 micromhos Nov. 23, 1981 and June 23, 1983.

WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 8, 12, 13, 1981; minimum recorded, 0.0°C many days in winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1510 mg/L Dec. 19, 1981; minimum daily mean, 0 mg/L on many days each year.

SEDIMENT DISCHARGE: Maximum daily, 3,720 tons Dec. 19, 1981; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 79 micromhos Sept. 14; minimum recorded, 21 micromhos June 23.

WATER TEMPERATURES: Maximum recorded, 15.0°C Sept. 5; minimum recorded, 0.0°C Mar. 12-16.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 223 mg/L Oct. 25; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 128 tons May 29; minimum daily, 0 ton on many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
23...	1030	36	6.0	111	11	--	--	--
25...	0840	62	6.0	253	42	--	--	--
25...	1105	88	6.0	161	38	18	28	43
25...	2140	217	6.0	657	385	8	12	21
MAR								
13...	1145	220	1.0	557	331	--	--	--
MAY								
23...	1840	250	1.5	116	78	--	--	--
JUNE								
09...	1900	359	3.5	114	111	--	--	--
14...	2015	338	3.0	69	63	--	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT								
23...	--	--	94	--	--	--	--	--
25...	--	--	74	--	--	--	--	--
25...	63	80	90	95	99	100	--	--
25...	34	49	63	72	81	91	100	--
MAR								
13...	--	--	25	35	58	86	99	100
MAY								
23...	--	--	38	53	71	86	98	100
JUNE								
09...	--	--	24	--	--	--	--	--
14...	--	--	29	40	60	79	100	--

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	4.5	1.5							---	---
2	---	---	4.0	1.5							---	---
3	---	---	4.0	1.5							---	---
4	---	---	3.0	1.0							---	---
5	---	---	3.0	1.0							---	---
6	---	---	2.5	1.0							---	---
7	---	---	3.0	1.0							---	---
8	---	---	---	---							---	---
9	---	---	---	---							3.0	1.5
10	---	---	---	---							3.0	1.5
11	---	---	---	---							3.0	1.0
12	---	---	---	---							2.0	.0
13	---	---	---	---							.5	.0
14	---	---	---	---							.5	.0
15	---	---	---	---							2.0	.0
16	---	---	---	---							2.5	.0
17	---	---	---	---							2.5	1.0
18	---	---	---	---							3.0	1.0
19	5.5	2.5	---	---							4.0	.5
20	7.0	4.0	---	---							3.0	1.0
21	7.5	5.0	---	---							3.5	1.5
22	7.5	5.0	---	---							1.5	.5
23	8.0	5.0	---	---							2.0	.5
24	7.5	5.0	---	---							.5	.5
25	6.0	5.0	---	---							2.5	.5
26	5.5	2.0	---	---							3.0	.5
27	6.0	2.0	---	---							3.0	.5
28	5.5	2.0	---	---							3.5	.5
29	6.0	2.0	---	---							4.5	1.5
30	5.0	2.0	---	---							5.5	1.5
31	5.5	2.0	---	---							4.0	1.0
MONTH	8.0	2.0	4.5	1.0							5.5	.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.0	1.0	5.0	1.5	---	---	8.0	3.0	12.5	4.5	11.0	8.0
2	4.5	1.0	5.5	1.5	---	---	7.5	3.0	12.5	4.5	14.0	6.5
3	3.0	.5	7.5	1.5	---	---	9.0	2.5	12.5	4.5	13.5	6.5
4	4.0	1.0	4.5	1.5	---	---	9.0	3.0	12.5	4.5	14.0	6.5
5	3.0	1.0	4.0	1.0	---	---	8.0	3.5	13.0	4.5	15.0	7.5
6	5.0	.5	7.0	1.0	---	---	9.0	3.5	13.5	5.0	14.5	8.0
7	5.5	.5	7.0	1.5	---	---	8.0	3.5	10.5	6.5	14.0	8.0
8	6.0	1.0	6.5	1.5	---	---	8.0	3.0	11.5	6.0	13.5	8.5
9	5.5	1.5	7.0	1.5	---	---	8.0	3.0	12.5	5.5	13.0	7.0
10	3.5	1.5	4.5	1.5	---	---	10.5	3.0	12.0	6.5	13.5	6.5
11	3.5	1.0	7.5	1.5	---	---	11.0	3.0	13.0	5.0	13.5	6.5
12	4.5	.5	6.5	2.0	---	---	11.0	4.0	13.0	5.0	14.0	7.5
13	5.0	1.0	7.0	2.0	---	---	11.0	3.5	12.0	6.5	13.5	8.0
14	5.5	.5	7.0	1.5	---	---	10.0	3.5	10.0	6.0	13.5	7.5
15	6.0	1.0	6.5	2.0	---	---	10.0	3.5	11.5	7.0	13.0	7.5
16	6.0	1.5	6.0	1.5	---	---	9.5	2.5	12.5	6.0	14.0	8.0
17	5.0	1.5	6.5	2.0	---	---	9.5	3.0	10.0	6.5	15	8.5
18	6.0	1.5	6.0	2.0	---	---	10.5	3.0	11.0	5.5	12.5	7.5
19	6.5	1.5	6.0	1.5	---	---	10.5	3.5	11.0	7.0	12.0	7.0
20	4.0	2.0	5.5	1.5	---	---	11.0	3.0	11.5	5.5	11	6.0
21	6.0	2.0	5.5	1.0	---	---	11.5	3.5	9.5	6.0	11.5	6.0
22	5.0	2.0	5.0	1.5	---	---	11.5	4.0	12.0	7.0	9.5	8.0
23	3.5	.5	5.5	1.0	---	---	11.5	3.0	13.0	6.0	9.0	7.0
24	2.0	.5	5.0	1.5	7.5	2.5	11.5	3.5	14.0	6.5	11.0	6.0
25	5.0	.5	5.0	1.0	7.5	2.5	10.5	3.5	13.5	6.0	11.5	6.0
26	5.0	1.0	4.5	1.0	7.5	2.5	11.0	3.0	13.5	6.0	10.0	7.0
27	3.5	2.0	5.0	1.0	7.5	2.0	11.5	3.5	13.5	6.5	10.5	5.5
28	4.0	1.0	---	---	8.0	2.5	12.0	3.5	14.0	7.0	9.0	6.5
29	5.0	1.5	---	---	---	---	12.0	4.0	14.0	7.0	8.0	5.0
30	5.5	1.5	---	---	---	---	12.5	4.5	13.5	7.0	8.5	5.5
31	---	---	---	---	---	---	11.5	4.5	12.0	8.5	---	---
MONTH	6.5	.5	7.5	1.0	8.0	2.0	12.5	2.5	14.0	4.5	15.0	5.0
YEAR	15.0	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	51	56	56	---	64	55	60	---	36	41	48
2	---	52	56	56	---	60	56	59	---	35	41	52
3	---	53	57	58	---	61	61	57	---	37	41	53
4	---	54	57	58	---	61	58	55	---	38	41	54
5	---	54	58	60	---	61	58	56	---	36	43	54
6	---	54	58	59	---	64	57	56	---	34	42	56
7	---	55	60	61	---	66	59	56	---	34	41	55
8	---	55	62	58	---	68	57	55	---	36	41	54
9	---	55	62	60	---	67	56	56	---	38	42	56
10	---	56	57	58	---	66	56	56	---	38	40	57
11	---	57	59	59	---	65	58	57	---	39	43	57
12	---	56	57	59	55	63	60	56	---	37	45	58
13	---	55	58	57	58	51	57	56	---	37	43	58
14	---	58	56	56	52	56	56	57	---	36	43	60
15	---	58	58	59	54	63	58	53	---	36	43	59
16	---	58	58	58	57	59	59	55	---	38	45	60
17	---	59	56	58	53	61	60	54	---	38	45	60
18	---	54	53	56	53	61	60	54	---	39	46	60
19	64	55	58	50	60	64	61	55	---	39	45	60
20	66	58	56	53	59	61	61	53	---	40	47	61
21	66	58	50	54	59	61	62	51	---	41	48	61
22	64	58	48	55	60	60	62	52	---	40	49	61
23	56	58	47	51	56	58	61	51	30	40	50	56
24	56	59	54	52	56	58	60	50	36	40	51	61
25	45	59	54	50	56	60	59	51	36	39	51	62
26	42	58	52	53	56	63	62	50	36	40	52	63
27	48	59	53	52	57	59	61	49	36	40	53	64
28	49	56	59	50	59	59	61	---	---	41	53	64
29	50	56	58	53	---	59	61	---	---	41	54	63
30	46	59	60	53	---	59	60	---	---	40	54	60
31	50	---	57	---	---	51	---	---	---	40	52	---
MEAN	54	56	56	56	56	61	59	54	35	38	46	58
WTR YR 1983	MEAN	54	MAX	68	MIN	30						

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	12	0	.00	39	2	.21	18	2	.10
2	11	0	.00	33	2	.18	17	1	.05
3	9.8	0	.00	30	2	.16	16	1	.04
4	9.2	0	.00	27	2	.15	16	1	.04
5	8.0	0	.00	25	2	.14	16	1	.04
6	7.3	0	.00	23	2	.12	16	1	.04
7	7.9	0	.00	22	2	.12	15	1	.04
8	7.9	0	.00	22	2	.12	15	1	.04
9	7.6	1	.02	21	2	.11	15	1	.04
10	6.7	1	.02	21	2	.11	15	1	.04
11	6.0	1	.02	19	2	.10	13	1	.04
12	5.8	1	.02	19	2	.10	13	1	.04
13	5.8	1	.02	18	2	.10	13	1	.04
14	5.8	1	.02	18	2	.10	13	1	.04
15	5.3	1	.01	17	1	.05	12	1	.03
16	4.7	1	.01	15	2	.08	12	1	.03
17	4.7	1	.01	17	2	.09	13	1	.04
18	4.8	1	.01	33	6	.53	15	2	.08
19	4.6	1	.01	34	3	.28	15	2	.08
20	4.6	1	.01	27	2	.15	18	4	.19
21	4.5	1	.01	24	2	.13	25	5	.34
22	5.7	5	.08	22	2	.12	19	3	.15
23	23	40	2.5	22	1	.06	18	2	.10
24	15	5	.20	20	1	.05	18	2	.10
25	98	223	111	20	1	.05	17	2	.09
26	152	120	102	20	1	.05	16	1	.04
27	54	5	.73	20	1	.05	16	1	.04
28	41	2	.22	21	1	.06	16	1	.04
29	37	1	.10	21	1	.06	16	1	.04
30	76	12	2.5	19	3	.15	15	1	.04
31	50	3	.41	---	---	---	14	1	.04
TOTAL	695.7	---	219.93	689	---	3.78	486	---	2.10
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	14	1	.04	9.8	1	.03	27	5	.36
2	13	1	.04	9.8	1	.03	21	2	.11
3	13	1	.04	9.8	1	.03	19	1	.05
4	12	1	.03	9.3	1	.03	18	1	.05
5	11	1	.03	9.1	1	.02	17	1	.05
6	11	2	.06	8.9	1	.02	16	1	.04
7	11	2	.06	9.9	1	.03	16	1	.04
8	11	2	.06	9.8	1	.03	19	1	.05
9	11	2	.06	9.8	0	.00	19	1	.05
10	11	2	.06	9.8	0	.00	19	1	.05
11	11	2	.06	9.1	0	.00	23	1	.06
12	11	2	.06	14	3	.11	23	4	.25
13	11	2	.06	24	4	.26	110	108	65
14	11	2	.06	16	2	.09	96	42	5.7
15	11	2	.06	15	2	.08	84	25	2.1
16	11	2	.06	14	2	.08	60	13	.70
17	11	2	.06	14	2	.08	52	5	.38
18	11	2	.06	14	2	.08	47	3	.23
19	11	2	.06	14	2	.08	42	2	.21
20	11	3	.09	13	1	.04	39	2	.20
21	11	3	.09	13	1	.04	37	2	.19
22	12	3	.10	13	1	.04	35	2	.18
23	12	2	.06	14	1	.04	33	2	.18
24	12	2	.06	14	1	.04	34	2	.18
25	13	2	.07	15	1	.04	29	2	.16
26	13	2	.07	17	1	.05	27	2	.15
27	12	2	.06	14	1	.04	27	2	.15
28	12	2	.06	16	2	.09	27	2	.14
29	12	2	.06	---	---	---	26	2	.29
30	11	2	.06	---	---	---	27	4	3.4
31	10	1	.03	---	---	---	63	20	
TOTAL	358	---	1.83	359.1	---	1.50	1132	---	91.67

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	45	3	.36	31	1	.08	225	32	19
2	41	2	.22	31	1	.08	177	22	11
3	36	2	.19	35	1	.09	198	27	14
4	35	1	.09	43	1	.12	226	34	21
5	33	1	.09	41	1	.11	241	35	23
6	31	1	.08	30	1	.08	243	33	22
7	29	1	.08	33	1	.09	251	24	16
8	32	1	.09	39	1	.11	267	37	27
9	34	1	.09	44	1	.12	281	42	36
10	33	1	.09	43	1	.12	344	58	70
11	31	1	.08	39	2	.21	434	93	117
12	29	1	.08	42	2	.23	307	33	27
13	27	1	.07	50	2	.27	275	30	22
14	27	1	.07	56	2	.30	271	40	29
15	27	1	.07	64	4	.69	295	48	38
16	29	1	.08	74	5	1.0	299	47	38
17	31	1	.08	72	5	.97	349	63	59
18	32	1	.09	81	12	2.6	292	33	26
19	34	2	.18	99	22	5.9	247	27	18
20	35	4	.38	117	25	7.9	232	21	13
21	37	4	.40	139	36	16	228	21	13
22	40	4	.43	180	35	19	262	23	16
23	48	4	.52	205	52	33	300	25	20
24	42	4	.45	230	56	37	282	22	17
25	35	3	.28	246	53	38	272	18	13
26	31	2	.17	275	38	31	252	13	8.8
27	31	1	.08	304	57	52	240	12	7.8
28	31	1	.08	307	64	57	226	10	6.1
29	31	1	.08	361	116	128	235	10	6.3
30	31	1	.08	319	86	81	212	8	4.6
31	---	---	---	311	71	62	---	---	---
TOTAL	1008	---	5.13	3941	---	575.07	7963	---	758.6
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	223	18	11	54	2	.29	26	22	1.8
2	310	24	20	52	2	.28	15	2	.08
3	235	14	8.9	49	2	.26	13	1	.04
4	233	16	10	46	2	.25	11	1	.03
5	251	14	9.5	42	2	.23	9.9	1	.03
6	257	15	10	41	2	.22	9.4	1	.03
7	215	11	6.4	41	2	.22	8.8	1	.02
8	154	8	3.3	40	2	.22	8.3	1	.02
9	122	5	1.6	37	2	.20	7.8	1	.02
10	109	5	1.5	35	2	.19	7.3	1	.02
11	108	6	1.7	32	1	.09	7.0	1	.02
12	121	7	2.3	28	1	.08	6.6	1	.02
13	125	7	2.4	27	1	.07	6.3	1	.02
14	131	6	2.1	27	1	.07	5.9	1	.02
15	117	4	1.3	28	1	.08	5.6	1	.02
16	99	3	.80	24	1	.06	5.3	1	
17	90	4	.97	22	1	.06	4.9	1	.01
18	80	3	.65	20	1	.05	4.6	1	.01
19	77	3	.62	21	2	.11	4.5	1	.01
20	70	3	.57	19	2	.10	4.4	1	.01
21	69	3	.56	18	2	.10	4.3	1	.01
22	71	3	.58	20	3	.16	7.9	3	.06
23	67	3	.54	17	2	.09	9.1	17	.42
24	67	3	.54	15	2	.08	6.8	3	.06
25	65	3	.53	13	1	.04	6.0	2	.03
26	61	2	.33	12	1	.03	5.6	1	.02
27	58	2	.31	11	1	.03	5.3	1	.01
28	57	2	.31	11	1	.03	5.6	1	.02
29	57	2	.31	9.9	1	.03	6.7	3	.05
30	61	2	.33	9.4	1	.03	9.0	15	.36
31	59	2	.32	13	2	.07	---	---	---
TOTAL	3819	---	100.27	834.3	---	3.82	237.9	---	3.28
YEAR	21523.0		1766.98						

10336689 SNOW CREEK AT TAHOE VISTA, CA

LOCATION.--Lat 39°14'18", long 120°02'19", in SE 1/4 NW 1/4 sec.13, T.16 N., R.17 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft downstream from State Highway 28, 0.6 mi east of Tahoe Vista Post Office, and 20 ft upstream from Lake Tahoe.

DRAINAGE AREA.--4.43 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,225.24 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except flows below 5 ft³/s which are poor. Some small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100 ft³/s May 29, 1983, gage height, 4.34 ft; minimum discharge, no flow many days during July, August, and September, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 13	1700	32	2.98	May 29	1800	*100	4.34
Apr. 22	1945	21	2.76				

Minimum daily, 0.20 ft³/s Oct. 20.

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	.54	1.3	1.0	1.1	1.2	6.2	7.8	10	71	12	1.7	1.5
2	.50	1.1	.95	1.1	1.2	4.6	7.8	9.7	64	11	1.7	1.2
3	.50	.95	.95	1.1	1.1	4.0	7.1	11	63	8.4	1.6	.95
4	.52	.90	1.1	1.1	1.1	3.7	6.7	14	65	7.4	1.6	.85
5	.50	.84	1.1	1.1	1.1	3.9	6.1	13	62	7.6	1.5	.74
6	.58	1.3	1.0	1.1	1.0	4.1	6.0	13	60	7.0	1.5	.67
7	.48	.85	.88	1.1	1.4	4.8	6.2	15	57	6.6	1.4	.64
8	.40	1.1	.69	1.1	1.6	4.6	7.0	18	53	6.2	1.4	.60
9	.30	.75	.70	1.1	1.8	5.3	7.8	20	49	5.9	1.3	.56
10	.27	.66	.70	1.1	1.5	6.5	8.0	18	46	5.6	1.3	.54
11	.26	.65	.70	1.1	1.6	8.3	7.5	17	43	5.7	1.3	.51
12	.26	.65	.77	1.1	2.5	8.6	6.9	20	36	5.9	1.3	.49
13	.24	.65	.81	1.1	3.0	24	6.8	23	30	6.0	1.3	.47
14	.23	.65	.71	1.1	2.0	15	6.9	25	28	4.6	1.4	.45
15	.22	.65	.97	1.1	1.9	9.1	7.4	31	27	4.4	1.5	.42
16	.22	.68	.74	1.1	1.8	7.6	8.3	31	25	4.0	1.5	.41
17	.21	.75	.70	1.2	1.7	6.7	8.9	32	26	3.5	1.4	.43
18	.21	4.5	.73	1.2	3.4	5.9	10	35	24	3.5	1.3	.47
19	.21	2.1	1.0	1.5	3.1	5.2	12	39	20	3.2	1.3	.51
20	.20	1.0	1.5	1.2	2.6	4.8	15	44	18	3.3	1.2	.51
21	.67	1.1	1.4	1.2	2.4	4.6	15	48	16	3.2	1.1	.50
22	1.1	1.4	1.3	1.2	2.4	4.7	17	54	15	3.0	1.1	.60
23	.97	1.7	1.3	1.1	2.4	5.2	17	58	15	2.7	1.0	.75
24	.94	1.6	1.2	1.4	2.4	6.0	14	60	15	2.5	1.0	.70
25	2.9	.62	1.2	1.4	2.5	5.5	13	65	14	2.3	.97	.68
26	2.4	.39	1.2	1.6	2.6	5.1	11	76	13	2.1	.94	.67
27	1.5	1.1	1.1	1.5	2.6	5.4	10	85	13	2.0	.91	.66
28	1.0	2.6	1.1	1.4	3.4	5.2	11	88	12	1.9	.87	.70
29	2.0	1.5	.99	1.3	---	5.0	12	89	11	1.8	.85	.75
30	3.4	1.1	1.0	1.3	---	6.3	11	84	11	1.8	.82	.97
31	1.5	---	1.1	1.2	---	9.2	---	78	---	1.7	.88	---
TOTAL	25.23	35.14	30.59	37.3	57.3	205.1	291.2	1223.7	1002	146.8	94	19.90
MEAN	.81	1.17	.99	1.20	2.05	6.62	9.71	39.5	33.4	4.74		.66
MAX	3.4	4.5	1.5	1.6	3.4	24	17	89	71	12		1.5
MIN	.20	.39	.69	1.1	1.0	3.7	6.0	9.7	11	1.7	.32	.41
AC-FT	50	70	61	74	114	407	578	2430	1990	291	77	39
CAL YR 1982	TOTAL	1648.26	MEAN	4.52	MAX	44	MIN	.11	AC-FT	3270		
WTR YR 1983	TOTAL	3113.20	MEAN	8.53	MAX	89	MIN	.20	AC-FT	6180		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1981 to current year.

SEDIMENT RECORDS: Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1981 to September 1983 (discontinued).

WATER TEMPERATURES: October 1980 to September 1983 (discontinued).

SEDIMENT RECORDS: October 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.--

SPECIFIC CONDUCTANCE: Maximum daily, 222 micromhos Feb. 20, 1983; minimum daily, 67 micromhos Nov. 16, 1981.

WATER TEMPERATURES: Maximum recorded, 22.0°C June 23, July 10-11, 1982; minimum recorded, 0.0°C on several days during most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 936 mg/L Oct. 7, 1981; minimum daily mean, 1 mg/L on several days during most years.

SEDIMENT DISCHARGE: Maximum daily, 23 tons Nov. 21, 1981; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 222 micromhos Feb. 20; minimum daily, 69 micromhos Dec. 27.

WATER TEMPERATURES: Maximum recorded, 20.5°C July 30, Aug. 1; minimum recorded, 0.0°C on many days in March and April.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 359 mg/L Oct. 25; minimum daily mean, 1 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 9.2 tons Mar. 13; minimum daily, 0 ton on many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	0945	11	1.0	36	1.1	48
FEB 12...	1440	2.5	1.0	34	.23	92
MAR 13...	0125	15	0.5	155	6.3	35
MAY 22...	2015	63	8.0	100	17	71
31...	1055	75	6.5	15	3.0	57

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	1.5	1.0	.5	.5	.5	.5	.5	.0
2	---	---	---	---	1.5	1.0	.5	.5	.5	.5	1.5	.5
3	---	---	---	---	2.5	1.0	.5	.5	.5	.5	2.5	.5
4	---	---	---	---	3.0	.5	.5	.5	.5	.5	3.5	.5
5	---	---	---	---	3.5	1.0	.5	.5	.5	.5	4.0	.5
6	---	---	---	---	3.5	1.0	1.0	.5	.5	.5	4.0	.0
7	---	---	---	---	1.0	.5	1.0	.5	.5	.5	---	---
8	---	---	---	---	1.0	.5	1.5	.5	.5	.5	---	---
9	---	---	---	---	1.0	.5	1.0	.5	1.0	.5	4.5	.5
10	---	---	---	---	2.0	.5	1.0	.5	1.5	.5	5.0	.5
11	---	---	---	---	2.0	.5	.5	.5	2.0	.5	5.0	.5
12	---	---	---	---	3.0	1.0	.5	.5	1.5	.5	2.0	.0
13	10.5	6.0	---	---	1.5	.5	.5	.5	.5	.5	.5	.0
14	10.5	5.5	---	---	1.0	.5	1.0	.5	1.5	.5	1.0	.0
15	10.5	6.5	---	---	2.0	1.0	1.5	.5	2.5	.5	2.5	.0
16	10.0	5.5	---	---	2.5	1.0	1.0	1.0	3.0	.5	3.0	.0
17	9.5	5.5	---	---	2.5	.5	2.5	1.0	3.5	.5	3.5	.5
18	8.5	4.5	---	---	1.5	.5	2.0	.5	1.0	.5	3.0	.5
19	8.0	5.0	---	---	1.5	.5	1.0	.5	1.0	.5	6.0	.0
20	9.0	5.5	---	---	1.5	.5	1.5	.5	3.0	.5	3.5	.5
21	9.0	6.5	---	---	.5	.5	.5	.5	3.5	.5	4.0	.5
22	9.5	7.5	---	---	.5	.5	.5	.5	4.0	1.0	1.5	.0
23	10.0	7.5	---	---	.5	.5	.5	.5	4.0	1.0	2.0	.0
24	---	---	4.5	1.5	.5	.5	.5	.5	4.0	.5	.5	.0
25	---	---	4.0	1.0	.5	.5	.5	.5	1.0	.5	3.0	.0
26	---	---	4.0	1.0	.5	.5	.5	.5	.5	.5	2.0	.0
27	---	---	3.5	1.0	.5	.5	.5	.5	1.0	.5	4.5	.5
28	---	---	4.5	2.5	.5	.5	.5	.5	.5	.5	4.5	.5
29	---	---	2.5	1.5	.5	.5	.5	.5	---	---	3.0	1.0
30	---	---	1.5	1.0	.5	.5	.5	.5	---	---	7.5	.5
31	---	---	---	---	.5	.5	.5	.5	---	---	6.5	.5
MONTH	10.5	4.5	4.5	1.0	3.5	.5	2.5	.5	4.0	.5	7.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	.5	---	---	8.5	4.0	12.0	7.5	20.5	10.5	16.5	11.0
2	6.0	.5	---	---	7.5	4.5	15.5	7.0	20.0	10.5	16.5	9.0
3	5.0	.5	---	---	13.0	4.0	17.0	6.5	20.0	10.5	17.0	8.5
4	4.0	.5	---	---	11.5	4.5	18.5	8.0	20.0	10.0	17.0	8.5
5	4.5	.0	---	---	14.5	4.0	17.0	9.5	20.0	9.5	17.5	9.0
6	7.0	.0	---	---	---	---	18.0	9.0	20.0	11.0	17.5	10.0
7	8.0	.0	---	---	---	---	15.0	8.5	17.5	12.5	16.5	9.5
8	8.5	.5	---	---	---	---	16.0	7.5	18.5	12.5	15.5	10.0
9	8.0	1.0	---	---	---	---	13.0	6.0	20.0	11.0	13.5	8.5
10	7.0	1.0	8.5	1.5	---	---	16.0	5.5	17.5	13.0	13.5	8.0
11	5.0	.5	13.0	1.5	---	---	17.5	7.0	19.5	10.5	13.5	8.5
12	5.0	.5	12.0	2.0	---	---	18.0	8.0	19.0	10.0	14.0	9.0
13	8.0	.5	13.0	2.0	---	---	18.5	8.0	18.5	12.0	15.5	8.5
14	9.0	.5	13.5	1.5	14.5	5.0	18.0	8.5	15.5	11.5	14.5	9.0
15	9.5	.5	13.5	2.5	15.5	5.5	17.5	8.0	17.5	12.0	13.5	8.0
16	9.0	1.0	13.0	2.0	15.5	5.5	17.0	7.0	20.0	10.5	14.5	9.0
17	7.5	1.5	13.5	2.0	16.0	6.0	17.0	7.0	15.0	11.5	.0	9.5
18	9.0	1.0	13.5	2.5	15.5	5.5	17.0	7.0	16.0	10.5	14.5	8.5
19	9.5	1.5	13.5	2.5	15.5	4.5	16.5	7.0	17.0	11.5	17.5	8.0
20	5.0	1.5	14.0	2.5	15.5	5.5	17.0	5.5	18.0	10.5	1.0	7.5
21	6.0	1.5	14.0	2.5	17.5	6.0	18.5	7.5	15.0	10.0	12.5	7.5
22	9.0	1.5	14.0	3.0	17.0	6.5	19.0	8.5	17.5	10.5	12.0	9.5
23	5.5	.5	14.0	3.0	16.5	7.0	18.5	7.0	17.0	9.0	11.5	9.0
24	---	---	13.5	3.0	16.5	7.0	18.0	8.0	17.5	9.0	13.5	6.5
25	---	---	13.5	3.5	17.5	7.0	17.0	8.0	17.0	8.5	14.5	7.5
26	---	---	12.0	3.5	16.5	7.0	18.0	7.5	17.0	8.0	13.5	8.5
27	---	---	13.5	3.5	17.0	7.0	19.0	8.5	16.5	8.5	14.0	7.0
28	---	---	11.5	4.0	16.5	7.0	19.5	8.5	16.0	8.5	13.5	8.0
29	---	---	13.5	4.0	16.5	7.5	20.0	9.0	16.5	9.0	12.0	7.0
30	---	---	13.0	3.5	16.5	7.0	20.5	10.0	15.5	9.0	11.0	7.5
31	---	---	13.0	4.0	---	---	19.5	10.5	14.5	11.5	---	---
MONTH	9.5	.0	14.0	1.5	17.5	4.0	20.5	5.5	20.5	8.0	17.5	6.5
YEAR	20.5	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	171	143	188	180	184	---	86	106	143	179
2	---	---	180	144	198	179	186	---	88	108	145	184
3	---	---	176	138	184	186	190	---	87	110	146	182
4	---	---	172	146	184	192	195	---	85	112	148	181
5	---	---	168	151	198	195	196	---	84	114	151	181
6	---	---	---	158	216	201	194	---	---	116	153	182
7	---	---	166	160	188	---	191	---	---	117	155	181
8	---	---	166	162	188	---	186	---	---	118	156	183
9	---	---	163	165	201	178	184	---	---	119	157	181
10	---	---	164	168	217	177	188	156	---	120	160	179
11	---	---	168	171	202	175	191	155	---	121	163	181
12	---	---	161	175	185	179	192	151	---	124	161	182
13	171	---	168	183	192	139	201	148	---	127	163	185
14	172	---	166	175	197	167	191	143	---	126	161	184
15	171	---	162	170	202	166	186	137	88	122	168	184
16	173	170	167	170	198	174	183	133	87	122	175	186
17	173	166	178	167	185	193	183	129	87	124	173	186
18	172	---	167	185	183	185	180	123	87	125	173	186
19	172	---	168	167	218	181	177	117	89	126	169	185
20	170	---	182	195	222	180	177	115	91	126	175	185
21	171	---	123	178	211	184	175	111	93	128	174	186
22	178	---	91	190	213	183	170	105	94	129	169	182
23	180	---	75	200	220	189	172	104	94	131	180	193
24	---	161	74	182	208	184	---	122	95	131	178	198
25	---	162	73	185	178	190	---	161	96	132	177	197
26	---	167	73	190	198	191	---	81	97	133	177	195
27	---	170	69	180	202	200	---	88	99	135	177	193
28	---	186	88	189	187	193	---	86	101	135	177	192
29	---	173	134	184	---	193	---	87	102	137	177	188
30	---	169	139	189	---	190	---	84	104	139	178	182
31	---	---	140	189	---	178	---	84	---	141	175	---
MEAN	173	169	143	173	199	183	186	119	92	124	166	185
WTR YR 1983	MEAN	160	MAX	222	MIN	69						

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.54	1	.00	1.3	2	.01	1.0	3	.01
2	.50	1	.00	1.1	4	.01	.95	2	.01
3	.50	3	.00	.95	3	.01	.95	3	.01
4	.52	4	.01	.90	2	.00	1.1	6	.02
5	.50	1	.00	.84	1	.00	1.1	7	.02
6	.58	5	.01	1.3	7	.02	1.0	8	.02
7	.48	3	.00	.85	6	.01	.88	7	.02
8	.40	2	.00	1.1	15	.04	.69	5	.01
9	.30	2	.00	.75	10	.02	.70	6	.01
10	.27	2	.00	.66	13	.02	.70	6	.01
11	.26	2	.00	.65	17	.03	.70	4	.01
12	.26	2	.00	.65	21	.04	.77	4	.01
13	.24	2	.00	.65	26	.05	.81	4	.01
14	.23	3	.00	.65	30	.05	.71	4	.01
15	.22	2	.00	.65	34	.06	.97	5	.01
16	.22	2	.00	.68	34	.06	.74	8	.02
17	.21	2	.00	.75	20	.04	.70	5	.01
18	.21	2	.00	4.5	81	1.8	.73	5	.01
19	.21	2	.00	2.1	50	.28	1.0	5	.01
20	.20	2	.00	1.0	8	.02	1.5	19	.08
21	.67	5	.01	1.1	7	.02	1.4	25	.09
22	1.1	4	.01	1.4	6	.02	1.3	13	.05
23	.97	3	.01	1.7	5	.02	1.3	7	.02
24	.94	79	.41	1.6	5	.02	1.2	7	.02
25	2.9	359	3.5	.62	4	.01	1.2	6	.02
26	2.4	130	2.1	.39	3	.00	1.2	5	.02
27	1.5	2	.01	1.1	5	.01	1.1	5	.01
28	1.0	1	.00	2.6	6	.04	1.1	4	.01
29	2.0	4	.02	1.5	8	.03	.99	4	.01
30	3.4	13	.12	1.1	6	.02	1.0	4	.01
31	1.5	2	.01	---	---	---	1.1	3	.01
TOTAL	25.23	---	6.22	35.14	---	2.76	30.59	---	0.59
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	1.1	3	.01	1.2	5	.02	6.2	31	.52
2	1.1	3	.01	1.2	5	.02	4.6	17	.21
3	1.1	3	.01	1.1	5	.01	4.0	12	.13
4	1.1	3	.01	1.1	5	.01	3.7	10	.10
5	1.1	3	.01	1.1	5	.01	3.9	8	.08
6	1.1	3	.01	1.0	13	.04	4.1	7	.08
7	1.1	3	.01	1.4	64	.24	4.8	13	.17
8	1.1	3	.01	1.6	49	.21	4.6	7	.09
9	1.1	3	.01	1.8	40	.19	5.3	6	.09
10	1.1	3	.01	1.5	36	.15	6.5	8	.1
11	1.1	4	.01	1.6	34	.15	8.3	10	.12
12	1.1	11	.03	2.5	34	.23	8.6	26	.60
13	1.1	22	.07	3.0	31	.25	24	147	9.2
14	1.1	19	.06	2.0	29	.16	15	25	1.0
15	1.1	10	.03	1.9	28	.14	9.1	11	.27
16	1.1	6	.02	1.8	26	.13	7.6	8	.16
17	1.2	5	.02	1.7	24	.11	6.7	8	.14
18	1.2	5	.02	3.4	35	.32	5.9	8	.15
19	1.5	4	.02	3.1	29	.24	5.2	8	.11
20	1.2	3	.01	2.6	23	.16	4.8	8	.10
21	1.2	2	.01	2.4	20	.13	4.6	7	.09
22	1.2	2	.01	2.4	16	.10	4.7	8	.10
23	1.1	3	.01	2.4	11	.07	5.2	8	.11
24	1.4	15	.06	2.4	8	.05	6.0	7	.11
25	1.4	5	.02	2.5	9	.06	5.5	6	.09
26	1.6	4	.02	2.6	11	.08	5.1	4	.06
27	1.5	5	.02	2.6	10	.07	5.4	4	.06
28	1.4	5	.02	3.4	17	.16	5.2	5	.07
29	1.3	5	.02	---	---	---	5.0	5	.07
30	1.3	5	.02	---	---	---	6.3	13	.22
31	1.2	5	.02	---	---	---	9.2	24	.60
TOTAL	37.3	---	0.62	57.3	---	3.51	205.1	---	15.12

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	7.8	14	.29	10	14	.38	71	12	2.3
2	7.8	12	.25	9.7	11	.29	64	10	1.7
3	7.1	11	.21	11	10	.30	63	20	3.4
4	6.7	9	.16	14	10	.38	65	14	2.5
5	6.1	8	.13	13	8	.28	62	10	1.7
6	6.0	9	.15	13	6	.21	60	10	1.6
7	6.2	13	.22	15	12	.49	57	10	1.5
8	7.0	17	.32	18	17	.83	53	11	1.6
9	7.8	12	.25	20	28	1.5	49	10	1.3
10	8.0	9	.19	18	9	.44	46	9	1.1
11	7.5	8	.16	17	11	.50	43	9	1.0
12	6.9	7	.13	20	11	.59	36	8	.78
13	6.8	6	.11	23	12	.75	30	11	.89
14	6.9	8	.15	25	20	1.4	28	11	.83
15	7.4	8	.16	31	32	2.7	27	12	.87
16	8.3	6	.13	31	15	1.3	25	13	.88
17	8.9	4	.10	32	16	1.4	26	13	.91
18	10	6	.16	35	32	3.0	24	12	.78
19	12	14	.45	39	34	3.6	20	12	.65
20	15	14	.57	44	38	4.5	18	11	.53
21	15	9	.36	48	36	4.7	16	10	.43
22	17	13	.60	54	45	6.6	15	9	.36
23	17	13	.60	58	47	7.4	15	8	.32
24	14	12	.45	60	45	7.3	15	9	.36
25	13	14	.49	65	34	6.0	14	9	.34
26	11	16	.48	76	34	7.0	13	8	.28
27	10	21	.57	85	35	8.0	13	8	.28
28	11	24	.71	88	33	7.8	12	7	.23
29	12	25	.81	89	35	8.4	11	6	.18
30	11	20	.59	84	28	6.4	11	6	.18
31	---	---	---	78	15	3.2	---	---	---
TOTAL	291.2	---	9.95	1223.7	---	97.64	1002	---	29.78
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	12	7	.23	1.7	4	.02	1.5	5	.02
2	11	7	.21	1.7	4	.02	1.2	4	.01
3	8.4	7	.16	1.6	5	.02	.95	3	.01
4	7.4	7	.14	1.6	5	.02	.85	3	.01
5	7.6	7	.14	1.5	5	.02	.74	3	.01
6	7.0	8	.15	1.5	5	.02	.67	2	.00
7	6.6	8	.14	1.4	5	.02	.64	2	.00
8	6.2	7	.12	1.4	6	.02	.60	1	.00
9	5.9	7	.11	1.3	6	.02	.56	1	.00
10	5.6	6	.09	1.3	6	.02	.54	1	.00
11	5.7	6	.09	1.3	6	.02	.51	1	.00
12	5.9	6	.10	1.3	5	.02	.49	1	.00
13	6.0	6	.10	1.3	4	.01	.47	1	.00
14	4.6	9	.11	1.4	4	.02	.45	1	.00
15	4.4	8	.10	1.5	4	.02	.42	1	.00
16	4.0	8	.09	1.5	4	.02	.41	1	.00
17	3.5	8	.08	1.4	4	.02	.43	1	.00
18	3.5	8	.08	1.3	4	.01	.47	1	.00
19	3.2	7	.06	1.3	4	.01	.51	1	.00
20	3.3	7	.06	1.2	4	.01	.51	1	.00
21	3.2	7	.06	1.1	4	.01	.50	1	.00
22	3.0	7	.06	1.1	4	.01	.60	5	.01
23	2.7	6	.04	1.0	4	.01	.75	2	.00
24	2.5	6	.04	1.0	4	.01	.70	2	.00
25	2.3	5	.03	.97	4	.01	.68	2	.00
26	2.1	5	.03	.94	4	.01	.67	2	.00
27	2.0	4	.02	.91	4	.01	.66	2	.00
28	1.9	3	.02	.87	4	.01	.70	2	.00
29	1.8	3	.01	.85	4	.01	.75	2	.00
30	1.8	3	.01	.82	4	.01	.97	2	.01
31	1.7	3	.01	.88	10	.02	---	---	---
TOTAL	146.8	---	2.69	38.94	---	0.48	19.90	---	0.08
YEAR	3113.20		169.44						

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'26", long 119°56'41", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi².

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 6,234.03 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.--10 years (1970-73, 1978-83), 8.72 ft³/s, 6,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/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 ft³/s Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 17	2000	33	2.68	May 29	2130	80	3.14
Oct. 25	2400	80	3.06	July 6	1800	*86	3.23

Minimum daily discharge, 3.6 ft³/s, Jan. 27, Feb. 2-6, 11.

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	5.5	4.9	8.4	4.2	3.8	5.5	7.4	9.2	49	42	21	14
2	5.2	4.8	8.5	4.1	3.6	5.0	7.2	9.8	40	45	20	11
3	4.8	4.7	6.0	4.1	3.6	4.7	6.2	12	41	45	20	10
4	4.6	4.6	5.7	4.2	3.6	4.4	5.7	13	47	52	19	9.5
5	4.4	4.5	5.6	4.1	3.6	4.2	5.3	11	48	54	18	9.0
6	4.4	4.5	5.4	4.1	3.6	4.4	5.9	11	50	61	19	8.6
7	5.0	4.7	5.2	4.2	4.4	5.4	6.2	12	50	50	19	8.3
8	4.8	5.0	5.0	4.2	4.6	5.7	7.7	13	50	41	20	8.0
9	4.6	5.2	5.0	4.1	3.8	5.8	8.9	11	51	35	19	7.8
10	4.4	5.4	5.0	4.0	3.8	6.2	8.3	9.8	53	33	24	7.3
11	4.4	5.5	4.9	4.1	3.6	6.6	7.4	9.8	52	35	21	6.7
12	4.4	5.3	4.9	4.1	3.8	6.9	6.6	12	46	37	19	6.4
13	4.3	5.6	4.8	4.2	4.4	15	6.4	12	42	16	17	6.3
14	4.4	5.4	4.7	4.1	4.1	8.6	6.2	14	44	17	18	6.2
15	4.4	5.0	4.6	4.2	3.9	6.6	7.4	16	49	18	19	6.1
16	4.2	4.9	4.5	4.4	3.8	6.0	9.2	15	50	14	15	6.0
17	11	4.8	4.9	4.3	4.1	5.9	8.6	15	44	26	13	6.0
18	18	9.7	4.6	4.2	4.3	5.6	9.5	19	42	25	13	5.8
19	4.8	8.4	4.5	4.2	4.3	5.5	8.3	21	38	26	13	5.7
20	4.6	7.2	5.5	4.0	3.9	5.2	13	22	39	27	11	5.6
21	5.0	7.0	7.6	3.9	3.8	5.0	11	25	40	26	12	5.6
22	4.7	6.8	7.3	3.8	4.2	5.2	13	29	45	26	16	7.2
23	6.4	6.8	5.8	4.7	4.7	5.2	12	30	49	25	13	7.8
24	7.4	6.3	5.4	4.4	4.6	5.4	11	39	49	24	12	7.1
25	30	5.8	5.3	4.2	4.5	5.0	11	52	49	23	11	6.9
26	26	5.5	5.2	3.8	4.7	4.6	8.9	61	50	22	11	11
27	8.8	5.1	4.9	3.6	4.6	4.8	8.9	60	47	22	10	10
28	6.2	5.7	4.8	3.7	4.9	4.6	9.8	64	44	21	10	9.0
29	4.9	6.2	4.8	3.8	---	4.6	11	67	44	22	10	9.6
30	9.1	8.1	4.6	3.8	---	6.2	11	62	43	23	11	---
31	5.3	---	4.3	3.8	---	8.9	---	61	---	23	12	---
TOTAL	226.0	173.4	167.7	126.6	114.6	182.7	259.0	817.6	1385	956	486	242.5
MEAN	7.29	5.78	5.41	4.08	4.09	5.89	8.63	26.4	46.2	30.8	15.7	8.08
MAX	30	9.7	8.5	4.7	4.9	15	13	67	53	61	24	14
MIN	4.2	4.5	4.3	3.6	3.6	4.2	5.3	9.2	38	14	10	5.6
AC-FT	448	344	333	251	227	362	514	1620	2750	1900	964	481

CAL YR 1982	TOTAL	4985.9	MEAN 13.7	MAX 99	MIN 2.3	AC-FT 9890
WTR YR 1983	TOTAL	5137.1	MEAN 14.1	MAX 67	MIN 3.6	AC-FT 10190

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1975, 1978 to current year.

CHEMICAL ANALYSIS: Water years 1970-73, 1975, 1978-79.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1980 to current year.

SEDIMENT RECORDS: Water years 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to September 1983 (discontinued).

WATER TEMPERATURES: January 1980 to September 1983 (discontinued).

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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 350 micromhos Mar. 30, 1981; minimum daily, 24 micromhos May 14, 1981.

WATER TEMPERATURES: Maximum recorded, 19.5°C on several days during June to August 1981; minimum recorded,

0.0°C on several days during March and April 1981.

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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 234 micromhos Feb. 19; minimum daily, 27 micromhos June 30.

WATER TEMPERATURES: Maximum recorded, 15.0°C Aug. 6; minimum recorded, 0.0°C Mar. 23.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 285 mg/L Oct. 25; minimum daily mean, 1 mg/L Oct. 3-16, 19-22.

SEDIMENT DISCHARGE: Maximum daily, 47 tons Oct. 25; minimum daily, 0.01 ton Oct. 3-16, 19-22.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT										
25...	1030	22	6.0	140	8.3	62	--	--	--	--
25...	1050	22	5.5	286	17	69	78	90	97	100
25...	1830	63	5.5	906	154	26	--	--	--	--
NOV										
18...	1025	13	1.5	154	5.4	81	86	92	100	--
18...	1625	14	1.0	67	2.5	73	--	--	--	--
DEC										
20...	2215	9.2	1.5	53	1.3	68	--	--	--	--
MAR										
07...	1810	6.9	3.0	42	.78	82	--	--	--	--
MAY										
16...	0910	13	3.0	39	1.4	30	--	--	--	--
31...	1015	58	3.5	109	17	14	--	--	--	--
JUNE										
16...	1830	58	4.5	166	26	22	--	--	--	--
JULY										
13...	2100	43	8.0	94	11	20	--	--	--	--

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	6.5	3.0	1.0	.5	2.0	.5	2.0	.5	4.0	2.5
2	---	---	5.5	2.0	2.0	.5	2.5	1.0	2.5	.5	5.0	2.5
3	---	---	6.0	1.5	3.5	1.5	2.5	1.0	2.0	.5	4.5	2.5
4	---	---	6.0	1.5	3.5	1.0	3.5	2.0	2.5	.5	5.0	2.0
5	---	---	6.5	2.5	3.0	1.5	3.5	2.0	2.0	.5	5.5	2.5
6	---	---	6.5	3.0	4.0	1.5	3.5	2.0	2.0	1.0	5.5	2.5
7	---	---	5.5	2.5	1.5	.5	3.5	2.0	2.5	.5	5.5	3.0
8	---	---	2.0	1.0	.5	.5	4.0	1.5	2.0	.5	5.5	3.0
9	7.5	4.0	1.5	.5	2.5	.5	3.5	1.0	2.5	1.0	5.5	2.5
10	7.5	4.5	2.0	.5	3.5	1.5	3.5	1.0	3.5	2.0	6.0	2.5
11	8.0	4.0	3.0	.5	3.0	1.5	3.5	1.0	4.0	1.5	5.5	2.5
12	8.5	5.0	3.5	.5	3.5	1.5	3.5	.5	3.0	2.0	3.5	2.0
13	9.0	5.5	3.0	.5	2.0	1.0	3.5	.5	2.5	1.0	2.0	1.0
14	9.5	5.5	3.5	.5	1.5	.5	3.5	1.0	3.5	.5	3.5	1.5
15	9.0	5.5	4.0	.5	3.0	1.5	4.0	2.0	4.5	1.5	3.5	1.0
16	8.5	5.0	4.0	.5	3.5	2.0	3.5	2.5	4.5	1.5	3.5	1.5
17	8.5	5.5	4.5	3.0	3.0	1.0	4.0	2.5	4.5	1.5	3.0	1.5
18	8.0	5.0	3.5	1.0	2.5	.5	4.0	1.0	3.0	.5	2.5	1.0
19	6.5	4.5	1.5	.5	3.5	.5	2.0	.5	3.0	.5	4.0	.5
20	7.5	5.0	2.0	.5	3.0	2.0	---	---	4.0	1.0	3.0	.5
21	7.5	6.0	2.0	.5	2.0	.5	---	---	4.5	1.5	2.5	1.0
22	8.0	6.5	3.0	1.5	1.0	.5	---	---	5.0	2.5	2.0	.5
23	8.5	6.5	4.0	2.0	1.0	.5	---	---	4.5	2.5	3.0	.0
24	7.5	6.0	4.0	1.5	.5	.5	---	---	5.0	.5	1.5	.5
25	7.0	5.5	3.5	.5	1.0	.5	---	---	2.0	.5	3.5	1.0
26	5.5	2.5	3.5	.5	2.5	1.0	---	---	2.0	1.5	3.0	.5
27	5.0	1.5	3.5	1.5	2.0	1.0	2.0	.5	3.0	1.5	4.0	1.0
28	5.5	1.5	4.0	1.5	---	---	2.0	.5	4.0	2.0	4.0	1.5
29	6.5	4.5	2.0	.5	---	---	2.5	.5	---	---	4.0	2.5
30	6.0	4.0	.5	.5	1.5	.5	2.5	.5	---	---	6.0	2.5
31	6.5	2.5	---	---	2.0	.5	2.0	.5	---	---	5.5	2.0
MONTH	9.5	1.5	6.5	.5	4.0	.5	4.0	.5	5.0	.5	6.0	.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	2.0	5.0	2.5	5.0	3.0	5.5	3.5	14.0	9.0	12.5	9.5
2	6.0	2.0	8.5	2.5	5.5	3.5	7.5	3.5	14.5	9.0	13.0	8.0
3	4.5	1.5	9.0	2.5	8.0	3.5	8.5	3.5	14.0	9.0	12.5	7.5
4	4.5	1.5	6.0	3.0	6.5	3.5	9.5	4.5	13.5	8.0	13.0	8.0
5	5.0	1.0	5.5	2.5	8.0	3.0	8.5	4.5	14.0	8.0	14.0	8.0
6	6.5	1.0	8.0	1.5	7.5	3.0	9.0	5.0	15.0	9.0	14.0	9.0
7	7.0	1.0	8.5	2.0	6.0	3.0	8.5	5.0	13.0	10.5	13.5	8.5
8	7.0	2.0	8.5	2.0	7.5	3.0	8.0	4.5	13.0	11.0	13.0	8.5
9	7.0	2.5	8.0	1.5	---	---	7.5	4.0	---	---	12.0	7.0
10	6.0	2.5	7.0	2.5	---	---	9.5	4.5	---	---	12.5	7.0
11	6.0	2.0	9.5	2.5	6.0	3.0	11.0	5.5	---	---	13.0	7.0
12	2.5	1.5	9.0	3.0	7.0	3.0	11.5	6.5	---	---	13.5	8.0
13	5.5	1.5	9.5	3.0	7.0	3.0	12.0	6.0	---	---	13.5	8.5
14	---	---	9.5	2.0	7.5	3.0	12.0	7.0	---	---	12.5	7.5
15	---	---	9.0	3.0	7.0	3.0	11.5	6.5	13.0	10.0	12.5	7.0
16	---	---	9.0	2.5	7.0	3.0	11.5	5.0	14.5	9.0	13.0	8.0
17	---	---	9.5	2.5	7.0	2.5	10.5	5.5	11.5	9.5	13.0	8.5
18	---	---	10.0	2.5	6.0	3.0	11.0	5.5	12.0	9.0	--	---
19	8.0	2.5	10.0	3.0	6.5	2.5	11.0	6.0	12.5	10.0	---	---
20	4.5	2.5	10.0	3.0	6.5	3.0	11.0	5.0	12.5	9.0	10.5	5.5
21	6.0	3.5	9.5	3.0	7.0	3.0	12.5	6.5	11.0	8.0	11.5	5.0
22	7.0	3.0	9.5	3.0	7.5	3.5	12.5	7.0	12.5	8.5	9.5	1.5
23	6.0	2.0	9.0	3.0	7.0	3.0	12.0	6.0	12.0	7.5	9.0	1.5
24	3.0	1.0	8.5	3.0	7.0	3.0	12.0	6.5	12.5	7.5	10.0	6.0
25	5.0	.5	8.5	3.0	7.5	3.5	11.0	7.0	12.0	7.0	11.0	7.0
26	5.5	1.5	7.0	2.5	7.5	3.0	12.0	6.5	12.0	6.5	10.5	7.0
27	5.0	3.0	8.0	3.0	7.0	3.0	13.0	7.5	12.5	7.0	10.0	6.0
28	6.0	2.5	7.0	3.0	7.0	3.0	13.0	7.0	12.5	7.5	9.5	7.0
29	7.5	1.5	7.0	3.0	7.0	3.5	14.0	8.0	12.5	7.5	9.0	6.0
30	7.5	2.5	7.0	2.5	7.5	3.5	14.0	8.5	12.5	7.5	7.0	5.5
31	---	---	---	---	---	---	13.5	9.0	11.5	9.5	---	---
MONTH	8.0	.5	10.0	1.5	8.0	2.5	14.0	3.5	15.0	6.5	14.0	5.5
YEAR	15.0	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	60	66	84	101	105		---	47	31	36	52
2	---	60	62	83	99	113		---	54	32	36	59
3	---	61	64	85	96	117		---	54	32	36	59
4	---	61	67	94	93	111		---	51	31	---	60
5	---	62	68	97	95	110		---	46	37	---	60
6	---	62	71	91	93	113		---	45	44	---	61
7	---	62	66	92	96	115		---	43	---	43	62
8	---	63	64	94	102	116		---	43	---	43	63
9	66	63	66	89	102	117		---	---	---	---	63
10	67	64	65	88	107	118		95	---	---	---	64
11	68	68	62	88	110	120		101	38	---	---	65
12	69	68	62	90	114	121		107	39	---	---	66
13	70	67	64	94	114	103		112	40	---	---	67
14	71	68	65	92	116	139		99	41	---	---	67
15	71	68	68	93	115	133		95	39	---	48	67
16	71	67	69	118	117	122		---	39	43	48	67
17	69	71	69	121	112	146		85	38	38	52	67
18	54	65	67	95	94	137		79	38	36	53	---
19	61	62	69	92	125	131		75	41	38	53	---
20	67	63	70	---	111	119		65	43	38	53	69
21	69	62	75	---	107	131		63	42	41	54	69
22	73	75	71	---	111	116		60	43	48	50	67
23	74	76	69	---	108	121		53	42	44	51	69
24	75	74	73	---	113	113		45	42	41	51	68
25	68	73	78	---	107	130		48	44	41	52	68
26	60	73	81	---	102	108		---	45	41	52	63
27	52	73	82	96	99	124		36	45	42	53	61
28	55	80	---	95	100	119		33	43	42	55	64
29	57	73	---	93	---	124		33	35	42	53	64
30	60	69	81	96	---	116		33	30	41	50	56
31	61	---	83	96	---	122		---	---	37	45	---
MEAN	66	67	70	94	106	120		69	43	39	49	64
WTR YR 1983	MEAN	73	MAX	146	MIN	30						

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	5.5	2	.03	4.9	2	.03	8.4	4	.09
2	5.2	2	.03	4.8	2	.03	8.5	5	.11
3	4.8	1	.01	4.7	2	.03	6.0	5	.08
4	4.6	1	.01	4.6	2	.02	5.7	5	.08
5	4.4	1	.01	4.5	2	.02	5.6	5	.08
6	4.4	1	.01	4.5	2	.02	5.4	5	.07
7	5.0	1	.01	4.7	2	.03	5.2	5	.07
8	4.8	1	.01	5.0	2	.03	5.0	5	.07
9	4.6	1	.01	5.2	2	.03	5.0	4	.05
10	4.4	1	.01	5.4	2	.03	5.0	3	.04
11	4.4	1	.01	5.5	2	.03	4.9	3	.04
12	4.4	1	.01	5.3	2	.03	4.9	3	.04
13	4.3	1	.01	5.6	3	.05	4.8	3	.04
14	4.4	1	.01	5.4	3	.04	4.7	3	.04
15	4.4	1	.01	5.0	3	.04	4.6	3	.04
16	4.2	1	.01	4.9	3	.04	4.5	3	.04
17	11	60	5.2	4.8	3	.04	4.9	3	.04
18	18	59	4.5	9.7	73	2.3	4.6	3	.04
19	4.8	1	.01	8.4	15	.34	4.5	3	.04
20	4.6	1	.01	7.2	2	.04	5.5	23	.34
21	5.0	1	.01	7.0	2	.04	7.6	3	.06
22	4.7	1	.01	6.8	2	.04	7.3	3	.06
23	6.4	20	.35	6.8	2	.04	5.8	3	.05
24	7.4	30	.60	6.3	2	.03	5.4	3	.04
25	30	285	47	5.8	2	.03	5.3	3	.04
26	26	214	26	5.5	2	.03	5.2	3	.04
27	8.8	6	.14	5.1	2	.03	4.9	3	.04
28	6.2	2	.03	5.7	2	.03	4.8	3	.04
29	4.9	2	.03	6.2	2	.03	4.8	3	.04
30	9.1	34	1.1	8.1	3	.07	4.6	3	.04
31	5.3	3	.04	---	---	---	4.3	3	.03
TOTAL	226.0	---	85.23	173.4	---	3.59	167.7	---	1.92

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	4.2	3	.03	3.8	3	.03	5.5	12	.18
2	4.1	3	.03	3.6	3	.03	5.0	10	.14
3	4.1	3	.03	3.6	3	.03	4.7	8	.10
4	4.2	3	.03	3.6	3	.03	4.4	7	.08
5	4.1	3	.03	3.6	3	.03	4.2	7	.08
6	4.1	4	.04	3.6	3	.03	4.4	9	.11
7	4.2	4	.05	4.4	10	.12	5.4	21	.31
8	4.2	4	.05	4.6	10	.12	5.7	11	.17
9	4.1	4	.04	3.8	3	.03	5.8	12	.19
10	4.0	4	.04	3.8	3	.03	6.2	12	.20
11	4.1	4	.04	3.6	3	.03	6.6	12	.21
12	4.1	4	.04	3.8	10	.10	6.9	66	1.5
13	4.2	4	.05	4.4	3	.04	15	154	6.4
14	4.1	4	.04	4.1	3	.03	8.6	43	1.0
15	4.2	4	.05	3.9	3	.03	6.6	17	.30
16	4.4	4	.05	3.8	5	.05	6.0	8	.12
17	4.3	4	.05	4.1	5	.06	5.9	5	.08
18	4.2	3	.03	4.3	7	.08	5.6	5	.08
19	4.2	3	.03	4.3	7	.08	5.5	5	.07
20	4.0	3	.03	3.9	5	.05	5.2	5	.07
21	3.9	3	.03	3.8	5	.05	5.0	5	.07
22	3.8	3	.03	4.2	7	.08	5.2	5	.07
23	4.7	3	.04	4.7	7	.09	5.2	5	.07
24	4.4	3	.04	4.6	7	.09	5.4	4	.06
25	4.2	3	.03	4.5	7	.09	5.0	4	.05
26	3.8	3	.03	4.7	7	.09	4.6	4	.05
27	3.6	3	.03	4.6	7	.09	4.8	4	.05
28	3.7	3	.03	4.9	8	.11	4.6	4	.05
29	3.8	3	.03	---	---	---	4.6	4	.05
30	3.8	3	.03	---	---	---	6.2	43	.72
31	3.8	3	.03	---	---	---	8.9	64	1.5
TOTAL	126.6	---	1.13	114.6	---	1.72	182.7	---	14.14

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	7.4	16	.32	9.2	10	.25	49	63	8.3
2	7.2	15	.29	9.8	15	.40	40	38	4.1
3	6.2	10	.17	12	17	.55	41	62	6.9
4	5.7	10	.15	13	14	.49	47	40	5.1
5	5.3	10	.14	11	13	.39	48	40	5.2
6	5.9	11	.18	11	15	.45	50	40	5.4
7	6.2	12	.20	12	16	.52	50	35	4.7
8	7.7	17	.35	13	22	.77	50	35	4.7
9	8.9	17	.41	11	28	.83	51	42	5.8
10	8.3	12	.27	9.8	12	.32	53	60	8.6
11	7.4	10	.20	9.8	14	.37	52	65	9.1
12	6.6	10	.18	12	15	.49	46	36	4.5
13	6.4	15	.26	12	18	.58	42	42	4.8
14	6.2	15	.25	14	51	1.9	44	45	5.3
15	7.4	20	.40	16	75	3.2	49	50	6.6
16	9.2	20	.50	15	53	2.1	50	60	8.1
17	8.6	15	.35	15	56	2.3	44	63	7.5
18	9.5	17	.44	19	70	3.6	42	35	4.0
19	8.3	22	.49	21	67	3.8	38	28	2.9
20	13	23	.81	22	63	3.7	39	31	3.3
21	11	16	.48	25	112	7.6	40	32	3.5
22	13	22	.77	29	94	7.4	45	82	10
23	12	12	.39	30	111	9.0	49	109	14
24	11	10	.30	39	112	12	49	108	14
25	11	12	.36	52	118	17	49	124	16
26	8.9	10	.24	61	118	19	50	101	14
27	8.9	10	.24	60	124	20	47	94	12
28	9.8	12	.32	64	145	25	44	91	11
29	11	13	.39	67	146	26	44	75	8.9
30	11	13	.39	62	156	26	43	68	7.9
31	---	---	---	61	128	21	---	---	---
TOTAL	259.0	---	10.24	817.6	---	217.01	1385	---	226.2
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	42	41	4.6	21	6	.34	14	14	.53
2	45	52	6.3	20	6	.32	11	8	.24
3	45	55	6.7	20	6	.32	10	8	.22
4	52	65	9.1	19	6	.31	9.5	7	.18
5	54	70	10	18	6	.29	9.0	7	.17
6	61	116	19	19	6	.31	8.6	6	.14
7	50	55	7.4	19	6	.31	8.3	6	.13
8	41	32	3.5	20	6	.32	8.0	6	.13
9	35	18	1.7	19	6	.31	7.8	6	.13
10	33	18	1.6	24	27	1.7	7.3	5	.10
11	35	22	2.1	21	8	.45	6.7	4	.07
12	37	20	2.0	19	6	.31	6.4	3	.05
13	16	27	1.2	17	5	.23	6.3	2	.03
14	17	20	.92	18	15	.73	6.2	2	.03
15	18	18	.87	19	8	.41	6.1	2	.03
16	14	18	.68	15	6	.24	6.0	2	.03
17	26	14	.98	13	6	.21	6.0	2	.03
18	25	10	.68	13	6	.21	5.8	2	.03
19	26	8	.56	13	10	.35	5.7	2	.03
20	27	7	.51	11	7	.21	5.6	2	.03
21	26	6	.42	12	7	.23	5.6	2	.03
22	26	6	.42	16	15	.65	7.2	22	.43
23	25	6	.41	13	6	.21	7.8	5	.11
24	24	6	.39	12	5	.16	7.1	5	.10
25	23	7	.43	11	4	.12	6.9	5	.09
26	22	8	.48	11	3	.09	11	32	.95
27	22	10	.59	10	3	.08	10	6	.16
28	21	10	.57	10	3	.08	9.0	6	.15
29	22	14	.83	10	3	.08	9.6	8	.21
30	23	15	.93	11	17	.50	14	25	.95
31	23	8	.50	12	10	.32	---	---	---
TOTAL	956	---	86.37	486	---	10.40	242.5	---	5.51
YEAR	5137.1		663.46						

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 mi².

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, 12,220 acre-ft June 18-20, altitude, 7,839.01 ft; minimum, 11,780 acre-ft July 24, altitude, 7,837.97 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 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11930	11970	12030	11930	11940	11990	11930	11960	12190	12020	11850	11930
2	11920	11960	12020	11930	11930	11970	11920	11940	12200	12000	11860	11930
3	11910	11950	12000	11920	11930	11970	11920	11930	12200	11990	11860	11930
4	11910	11940	11990	11920	11930	11950	11920	11930	12200	11970	11870	11930
5	11900	11940	11970	11910	11920	11940	11910	11930	12200	11970	11870	11920
6	11880	11930	11960	11900	11940	11930	11900	11930	12190	11950	11880	11920
7	11900	11910	11940	11900	12000	11930	11900	11930	12190	11920	11880	11900
8	11890	11930	11950	11900	11980	11920	11900	11930	12180	11920	11890	11890
9	11870	11950	11940	11900	11980	11910	11890	11920	12180	11910	11890	11890
10	11870	11960	11940	11890	11970	11910	11890	11920	12180	11900	11910	11900
11	11870	11950	11930	11880	11960	11910	11880	11920	12180	11890	11900	11900
12	11870	11940	11930	11880	11960	11940	11880	11920	12190	11880	11910	11890
13	11870	11930	11930	11870	11970	11990	11890	11920	12190	11870	11910	11880
14	11870	11930	11900	11870	11960	11980	11890	11920	12190	11870	11910	11880
15	11870	11930	11920	11860	11940	11960	11890	11930	12200	11860	11920	11870
16	11870	11930	11900	11880	11930	11960	11880	11930	12210	11850	11920	11870
17	11870	11930	11930	11880	11930	11960	11880	11940	12200	11830	11920	11870
18	11850	11970	11930	11880	11970	11960	11870	11950	12210	11830	11920	11860
19	11860	12000	11920	11900	11950	11950	11870	11960	12220	11810	11930	11850
20	11860	11990	11930	11890	11940	11940	11890	11970	12210	11810	11940	11850
21	11860	11980	12000	11890	11930	11930	11900	11980	12200	11810	11960	11850
22	11860	12000	12030	11930	11920	11970	11900	12000	12170	11790	11960	11850
23	11870	11980	12030	11930	11920	11980	11930	12000	12140	11790	11960	11850
24	11880	11970	12010	12000	11910	11980	11950	12020	12120	11790	11950	11860
25	11940	11960	12000	11970	11930	11970	11980	12040	12100	11790	11950	11860
26	11970	11950	11990	11990	11950	11960	11970	12060	12080	11810	11930	11870
27	11960	11950	11970	12000	11970	11960	11950	12100	12070	11810	11930	11870
28	11950	11980	11970	11980	11970	11960	11960	12120	12060	11830	11930	11880
29	11940	12000	11950	11980	---	11940	11970	12150	12050	11840	11910	11880
30	11980	12050	11940	11970	---	11940	11970	12160	12030	11850	11900	11900
31	11970	---	11940	11960	---	11940	---	12180	---	11850	11920	-
MAX	11980	12050	12030	12000	12000	11990	11980	12180	12220	12020	11960	11930
MIN	11850	11910	11900	11860	11910	11910	11870	11920	12030	11790	11850	11850
†	7738.44	7838.62	7838.37	7838.40	7838.44	7838.37	7838.43	7838.92	7838.56	7838.16	7838.31	7838.26
‡	+40	+80	-110	+20	+10	-30	+30	+210	-150	-180	+70	-20

CAL YR 1982 MAX 12090 MIN 11800 † +100
WTR YR 1983 MAX 12220 MIN 11790 † -30

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

PERIOD OF RECORD.--October 1973 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft, from topographic map.

REMARKS.--Records good except those for periods of no gage height record, Oct. 1 to Jan. 6, which are fair. 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.--10 years, 2.85 ft³/s, 2,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft³/s June 22, 1983, gage height, 3.00 ft; no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft³/s June 22, gage height, 3.00 ft; minimum daily, 0.25 ft³/s July 25.

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	2.5	3.9	7.1	7.0	7.5	11	7.4	8.8	31	27	1.5	5.6
2	2.5	3.4	6.4	6.3	6.8	10	7.2	7.9	28	26	1.7	5.7
3	2.2	3.2	5.8	5.7	6.3	9.3	6.4	7.3	27	24	1.8	5.5
4	1.9	3.0	5.0	5.1	5.8	8.3	6.4	7.0	30	23	1.9	5.3
5	1.7	2.9	4.4	4.8	5.6	7.5	6.2	7.1	30	21	2.0	5.0
6	1.6	2.7	4.2	4.6	6.2	6.9	5.4	6.9	30	21	2.1	4.8
7	1.6	2.4	3.9	4.4	8.9	6.9	4.9	6.4	32	20	2.2	4.6
8	1.4	2.4	3.8	4.1	11	6.1	4.6	6.0	32	19	2.6	4.1
9	1.2	2.6	3.6	3.8	11	5.6	4.5	5.8	30	18	2.6	3.4
10	1.0	3.0	3.5	3.6	9.3	5.2	4.3	5.8	28	17	2.5	3.3
11	1.0	3.2	3.4	3.3	8.0	5.5	3.9	5.6	25	16	2.7	3.3
12	.95	2.9	3.4	3.2	7.5	5.6	4.1	5.4	25	15	2.8	3.3
13	.95	2.7	3.6	3.0	9.5	11	4.6	5.3	25	14	3.2	3.3
14	.95	2.6	3.4	2.8	8.3	11	4.3	5.3	26	14	4.0	3.1
15	.95	2.4	3.2	2.7	7.1	9.7	4.1	5.7	27	13	4.8	3.0
16	.95	2.3	3.0	2.9	6.1	8.6	3.9	5.7	29	13	4.8	3.0
17	.85	2.3	3.2	3.0	5.4	8.6	3.6	5.9	29	14	4.7	2.8
18	.78	3.0	3.5	3.2	6.7	8.9	3.5	6.3	27	13	4.7	2.7
19	.71	5.6	3.4	3.9	7.7	8.1	3.4	7.0	27	13	5.6	2.4
20	.71	5.2	5.0	3.8	7.2	7.4	4.4	7.6	27	12	5.9	2.1
21	.71	4.6	7.0	3.6	6.5	7.6	4.7	8.7	33	12	7.0	2.0
22	.71	4.8	11	4.8	5.9	7.9	4.5	10	39	12	7.9	2.2
23	.85	4.6	14	5.9	5.4	9.8	4.9	12	41	11	7.5	2.6
24	1.0	4.0	13	10	5.0	11	7.8	14	40	5.5	7.0	2.8
25	1.9	3.7	12	10	5.7	10	11	16	38	.25	6.5	2.5
26	3.7	3.4	11	8.6	7.3	9.1	9.4	18	32	.36	5.9	2.6
27	3.7	3.0	10	11	8.7	9.1	8.7	21	27	.51	5.5	2.9
28	3.4	3.4	9.4	10	9.3	8.6	9.2	22	24	.70	5.3	3.0
29	2.9	4.2	9.0	10	---	8.2	9.6	25	27	.91	4.6	2.9
30	4.2	7.4	8.5	9.4	---	7.8	10	27	28	1.0	4.3	4.1
31	4.2	---	8.0	8.4	---	8.4	---	29	---	1.3	4.1	---
TOTAL	53.67	104.8	195.7	172.9	205.7	258.7	176.9	331.5	894	398.53	129.7	103.9
MEAN	1.73	3.49	6.31	5.58	7.35	8.35	5.90	10.7	29.8	12.9	4.18	3.46
MAX	4.2	7.4	14	11	11	11	11	29	41	27	7.9	5.7
MIN	.71	2.3	3.0	2.7	5.0	5.2	3.4	5.3	24	.25	1.5	2.0
AC-FT	106	208	388	343	408	513	351	658	1770	790	257	206

CAL YR 1982 TOTAL 1710.03 MEAN 4.69 MAX 14 MIN .17 AC-FT 3390
WTR YR 1983 TOTAL 3026.00 MEAN 8.29 MAX 41 MIN .25 AC-FT 6000

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to September 1983.

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 ft³/s May 27, 1983, gage height, 2.41 ft; minimum daily, 1.7 ft³/s Oct. 16, 17.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s May 27, (1915 hours), gage height, 2.41 ft, no other peak above base of 15 ft³/s; minimum daily, 1.7 ft³/s Oct. 16, 17.

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	2.3	2.7	2.5	2.1	2.0	2.5	4.4	4.9	16	4.9	3.1	4.5
2	2.2	2.5	2.4	2.0	2.0	2.5	4.3	5.5	15	4.9	3.5	3.5
3	2.1	2.5	2.3	2.0	2.0	2.4	3.8	6.6	15	4.7	3.5	3.2
4	2.1	2.4	2.2	2.1	1.9	2.4	3.6	6.8	14	4.6	3.4	3.1
5	2.0	2.3	2.2	2.1	1.9	2.4	3.6	6.6	12	4.5	3.3	3.6
6	2.0	2.3	2.2	2.1	1.9	2.4	3.6	7.0	12	4.4	3.3	3.0
7	2.0	2.3	2.2	2.1	2.0	2.6	3.6	8.0	12	4.3	3.7	2.9
8	2.1	2.2	2.1	2.1	2.1	2.8	3.7	8.5	11	4.3	5.7	2.9
9	2.0	2.2	2.1	2.1	2.0	3.1	4.0	8.5	11	4.3	5.3	2.9
10	2.0	2.3	2.1	2.1	2.0	3.3	4.0	7.7	11	4.2	4.9	2.8
11	1.9	2.2	2.1	2.1	2.1	3.5	3.7	7.2	10	4.1	4.1	2.7
12	1.9	2.2	2.1	2.0	2.3	3.4	3.5	8.3	9.0	4.0	3.8	2.7
13	1.9	2.1	2.1	2.0	2.4	7.0	3.4	9.1	8.5	3.9	3.9	2.6
14	1.8	2.1	2.0	2.0	2.2	4.5	3.4	10	8.3	3.8	4.9	2.7
15	1.8	2.1	2.0	2.0	2.2	3.8	3.4	12	8.0	3.9	4.5	2.7
16	1.7	2.1	2.1	2.0	2.2	3.6	3.5	12	7.7	3.8	3.9	2.7
17	1.7	2.3	2.1	2.0	2.3	3.5	3.9	13	7.3	3.8	3.9	2.7
18	1.7	3.0	2.1	2.0	2.3	3.3	4.5	14	7.0	3.7	3.9	2.8
19	1.8	2.6	2.1	2.0	2.2	3.3	5.0	16	6.7	3.7	4.9	2.7
20	1.8	2.4	2.2	2.0	2.3	3.0	5.4	18	6.5	3.6	4.9	2.7
21	1.9	2.3	2.6	1.9	2.3	3.0	5.8	19	6.4	3.7	5.3	3.0
22	2.1	2.3	2.2	1.9	2.4	2.9	6.5	20	6.2	3.5	4.6	3.6
23	2.3	2.3	2.2	1.9	2.5	3.0	5.9	20	5.8	3.7	4.1	3.7
24	2.5	2.2	2.2	2.1	2.4	2.9	5.7	20	5.8	3.4	3.8	3.3
25	3.8	2.2	2.2	2.0	2.3	2.8	5.2	20	5.5	3.4	3.7	3.4
26	5.0	2.1	2.2	2.0	2.3	2.7	4.6	21	5.4	3.5	3.5	3.1
27	3.2	2.3	2.2	2.0	2.2	2.7	4.4	21	5.2	3.6	3.2	3.1
28	2.8	2.3	2.2	2.0	2.2	2.7	5.0	21	5.1	3.6	3.2	3.5
29	2.8	2.3	2.1	2.0	---	3.3	5.4	21	5.0	3.3	3.1	3.6
30	6.0	2.1	2.1	2.0	---	4.2	5.2	19	5.0	3.3	3.0	4.2
31	3.2	---	2.1	2.0	---	4.9	---	18	---	3.2	3.9	---
TOTAL	74.4	69.2	67.5	62.7	60.9	100.4	132.0	409.7	263.4	121.6	123.8	93.9
MEAN	2.40	2.31	2.18	2.02	2.18	3.24	4.40	13.2	8.78	3.92	3.99	3.13
MAX	6.0	3.0	2.6	2.1	2.5	7.0	6.5	21	16	4.9	5.7	4.5
MIN	1.7	2.1	2.0	1.9	1.9	2.4	3.4	4.9	5.0	3.2	3.0	2.6
AC-FT	148	137	134	124	121	199	262	813	522	241	246	186

WTR YR 1983 TOTAL 1579.5 MEAN 4.33 MAX 21 MIN 1.7 AC-FT 3130

PYRAMID AND WINNEMUCCA LAKES BASIN

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to September 1983.

WATER TEMPERATURES: October 1982 to September 1983.

SEDIMENT RECORDS: October 1982 to September 1983.

PERIOD OF DAILY RECORD.--

SEDIMENT RECORDS: October 1982 to September 1983.

COOPERATION.--Selected sediment samples and water temperature observations furnished by Lahontan Regional Water Quality Control Board.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 403 mg/L May 21; minimum daily mean, 2 mg/L Dec. 13-19.

SEDIMENT DISCHARGE: Maximum daily, 22 tons May 21; minimum daily, 0.01 ton Dec. 13-19.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
FEB						
17...	1550	2.5	3.5	28	.19	76
MAY						
16...	1130	11	4.0	65	1.9	58
19...	2020	22	5.0	709	42	49
21...	1700	20	9.0	665	36	37

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TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

[illegible]

10336759 EDGEWOOD CREEK NEAR STATELINE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	2.3	5	.03	2.7	7	.05	2.5	5	.03
2	2.2	5	.03	2.5	7	.05	2.4	4	.03
3	2.1	5	.03	2.5	7	.05	2.3	4	.02
4	2.1	5	.03	2.4	7	.05	2.2	4	.02
5	2.0	5	.03	2.3	6	.04	2.2	4	.02
6	2.0	4	.02	2.3	6	.04	2.2	4	.02
7	2.0	4	.02	2.3	6	.04	2.2	4	.02
8	2.1	4	.02	2.2	6	.04	2.1	3	.02
9	2.0	4	.02	2.2	5	.03	2.1	3	.02
10	2.0	4	.02	2.3	5	.03	2.1	3	.02
11	1.9	4	.02	2.2	5	.03	2.1	3	.02
12	1.9	4	.02	2.2	5	.03	2.1	3	.02
13	1.9	4	.02	2.1	4	.02	2.1	2	.01
14	1.8	4	.02	2.1	4	.02	2.0	2	.01
15	1.8	4	.02	2.1	4	.02	2.0	2	.01
16	1.7	4	.02	2.1	4	.02	2.1	2	.01
17	1.7	4	.02	2.3	4	.02	2.1	2	.01
18	1.7	4	.02	3.0	21	.19	2.1	2	.01
19	1.8	4	.02	2.6	10	.07	2.1	2	.01
20	1.8	4	.02	2.4	6	.04	2.2	7	.04
21	1.9	4	.02	2.3	6	.04	2.6	14	.10
22	2.1	5	.03	2.3	6	.04	2.2	7	.04
23	2.3	10	.06	2.3	6	.04	2.2	5	.03
24	2.5	20	.14	2.2	5	.03	2.2	5	.03
25	3.8	97	1.0	2.2	5	.03	2.2	4	.02
26	5.0	178	2.4	2.1	5	.03	2.2	4	.02
27	3.2	20	.17	2.3	5	.03	2.2	4	.02
28	2.8	10	.08	2.3	4	.02	2.2	3	.02
29	2.8	5	.04	2.3	4	.02	2.1	3	.02
30	6.0	80	1.3	2.1	4	.02	2.1	3	.02
31	3.2	14	.12	---	---	---	2.1	3	.02
TOTAL	74.4	---	5.81	69.2	---	1.18	67.5	---	0.71
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	2.1	3	.02	2.0	5	.03	2.5	23	.16
2	2.0	3	.02	2.0	5	.03	2.5	23	.16
3	2.0	3	.02	2.0	5	.03	2.4	22	.14
4	2.1	3	.02	1.9	5	.03	2.4	22	.14
5	2.1	3	.02	1.9	5	.03	2.4	22	.14
6	2.1	3	.02	1.9	5	.03	2.4	22	.14
7	2.1	3	.02	2.0	10	.05	2.6	23	.16
8	2.1	3	.02	2.1	10	.06	2.8	23	.17
9	2.1	3	.02	2.0	10	.05	3.1	23	.
10	2.1	3	.02	2.0	10	.05	3.3	23	.22
11	2.1	3	.02	2.1	15	.09	3.5	23	.22
12	2.0	3	.02	2.3	20	.12	3.4	24	.22
13	2.0	3	.02	2.4	20	.13	7.0	215	4.3
14	2.0	3	.02	2.2	15	.09	4.5	38	.46
15	2.0	3	.02	2.2	15	.09	3.8	25	.26
16	2.0	3	.02	2.2	15	.09	3.6	22	.21
17	2.0	3	.02	2.3	20	.12	3.5	21	.20
18	2.0	3	.02	2.3	25	.16	3.3	19	.17
19	2.0	4	.02	2.2	23	.14	3.3	17	.15
20	2.0	4	.02	2.3	22	.14	3.0	16	.13
21	1.9	4	.02	2.3	22	.14	3.0	15	.12
22	1.9	4	.02	2.4	25	.16	2.9	14	.11
23	1.9	4	.02	2.5	25	.17	3.0	14	.11
24	2.1	4	.02	2.4	25	.16	2.9	14	.11
25	2.0	4	.02	2.3	25	.16	2.8	14	.11
26	2.0	4	.02	2.3	25	.16	2.7	14	.10
27	2.0	4	.02	2.2	24	.14	2.7	13	.09
28	2.0	4	.02	2.2	23	.14	2.7	13	.09
29	2.0	4	.02	---	---	---	3.3	31	.28
30	2.0	5	.03	---	---	---	4.2	49	.56
31	2.0	5	.03	---	---	---	4.9	40	.53
TOTAL	62.7	---	0.64	60.9	---	2.79	100.4	---	10.13

10336759 EDGEWOOD CREEK NEAR STATELINE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	4.4	29	.34	4.9	20	.26	16	270	12
2	4.3	23	.27	5.5	25	.37	15	270	11
3	3.8	19	.19	6.6	35	.62	15	280	11
4	3.6	19	.18	6.8	30	.55	14	250	9.5
5	3.6	19	.18	6.6	25	.45	12	260	8.4
6	3.6	18	.17	7.0	32	.60	12	320	10
7	3.6	17	.17	8.0	50	1.1	12	290	9.4
8	3.7	16	.16	8.5	80	1.8	11	400	12
9	4.0	14	.15	8.5	80	1.8	11	260	7.7
10	4.0	12	.13	7.7	70	1.5	11	160	4.8
11	3.7	12	.12	7.2	60	1.2	10	180	4.9
12	3.5	13	.12	8.3	70	1.6	9.0	150	3.6
13	3.4	14	.13	9.1	90	2.2	8.5	145	3.3
14	3.4	14	.13	10	110	3.0	8.3	135	3.0
15	3.4	15	.14	12	178	7.3	8.0	122	2.6
16	3.5	17	.16	12	148	5.4	7.7	100	2.1
17	3.9	19	.20	13	170	6.8	7.3	90	1.8
18	4.5	21	.26	14	238	11	7.0	80	1.5
19	5.0	23	.31	16	317	17	6.7	72	1.3
20	5.4	25	.36	18	396	21	6.5	65	1.1
21	5.8	30	.47	19	403	22	6.4	58	1.0
22	6.5	35	.61	20	370	20	6.2	51	.85
23	5.9	40	.64	20	360	19	5.8	43	.67
24	5.7	37	.57	20	300	16	5.8	32	.50
25	5.2	35	.49	20	280	15	5.5	29	.43
26	4.6	32	.40	21	230	13	5.4	27	.39
27	4.4	28	.33	21	220	12	5.2	26	.37
28	5.0	31	.42	21	200	11	5.1	25	.34
29	5.4	30	.44	21	230	13	5.0	25	.34
30	5.2	28	.39	19	210	11	5.0	24	.32
31	---	---	---	18	250	12	---	---	---
TOTAL	132.0	---	8.63	409.7	---	249.55	263.4	---	126.21
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	4.9	22	.29	3.1	7	.06	4.5	42	.51
2	4.9	20	.26	3.5	15	.14	3.5	20	.19
3	4.7	18	.23	3.5	10	.09	3.2	15	.13
4	4.6	17	.21	3.4	11	.10	3.1	12	.10
5	4.5	16	.19	3.3	11	.10	3.6	15	.15
6	4.4	15	.18	3.3	11	.10	3.0	11	.09
7	4.3	14	.16	3.7	17	.17	2.9	12	.09
8	4.3	13	.15	5.7	151	3.6	2.9	12	.09
9	4.3	13	.15	5.3	121	2.3	2.9	12	.09
10	4.2	12	.14	4.9	73	.97	2.8	12	.09
11	4.1	11	.12	4.1	36	.40	2.7	10	.07
12	4.0	11	.12	3.8	33	.34	2.7	10	.07
13	3.9	10	.11	3.9	36	.38	2.6	10	.07
14	3.8	10	.10	4.9	132	2.3	2.7	9	.07
15	3.9	10	.11	4.5	57	.69	2.7	7	.05
16	3.8	10	.10	3.9	27	.28	2.7	7	.05
17	3.8	10	.10	3.9	26	.27	2.7	7	.05
18	3.7	10	.10	3.9	25	.26	2.8	17	.13
19	3.7	10	.10	4.9	59	.97	2.7	12	.09
20	3.6	10	.10	4.9	73	1.4	2.7	12	.09
21	3.7	15	.15	5.3	64	1.1	3.0	18	.15
22	3.5	11	.10	4.6	24	.30	3.6	23	.22
23	3.7	12	.12	4.1	20	.22	3.7	18	.18
24	3.4	12	.11	3.8	16	.16	3.3	12	.11
25	3.4	12	.11	3.7	16	.16	3.4	20	.18
26	3.5	12	.11	3.5	16	.15	3.1	19	.16
27	3.6	16	.16	3.2	16	.14	3.1	18	.15
28	3.6	17	.17	3.2	16	.14	3.5	20	.19
29	3.3	15	.13	3.1	16	.13	3.6	23	.22
30	3.3	12	.11	3.0	16	.13	4.2	32	.36
31	3.2	9	.08	3.9	50	.53	---	---	---
TOTAL	121.6	---	4.37	123.8	---	18.08	93.9	---	4.19
YEAR	1579.5		432.29						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

LOCATION.--Lat 38°55'12", long 119°58'17", in NW 1/4 SE 1/4 sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 5 ft upstream from Martin Avenue Bridge, 500 ft upstream from Heavenly Valley Creek, and 1.8 mi east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft, from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Minor diversions for local water supply.

AVERAGE DISCHARGE.--23 years, 38.2 ft³/s, 27,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft³/s Feb. 1, 1963, gage height, 11.14 ft, from rating curve extended above 250 ft³/s on basis of computation of peak flow (weir formula); no flow for part of Sept. 11, 1966.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0530	110	7.47	Mar. 13	1445	147	7.99
Oct. 30	0800	121	7.63	June 18	0300	*358	10.40

Minimum daily, 26 ft³/s Jan. 19, 20.

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	36	48	34	29	30	40	54	56	292	266	111	80
2	35	45	35	29	30	43	52	56	261	274	106	67
3	34	41	34	29	30	42	48	65	250	261	104	63
4	32	39	32	29	29	40	47	71	254	258	101	59
5	31	38	31	29	29	38	46	65	255	264	97	57
6	31	36	31	29	28	37	42	64	264	265	93	55
7	31	35	30	28	33	37	42	71	275	258	95	53
8	31	33	30	28	36	38	45	78	270	244	110	52
9	31	34	30	27	33	40	48	79	269	224	106	50
10	31	34	30	27	31	41	48	77	281	206	103	50
11	30	34	29	27	30	43	48	72	302	196	94	49
12	30	34	29	27	32	45	46	77	287	194	86	48
13	29	32	29	27	36	121	45	82	281	192	83	47
14	29	32	30	27	33	96	42	89	286	193	101	45
15	28	33	30	27	31	72	42	101	298	194	104	45
16	27	31	28	27	30	60	45	106	304	188	88	44
17	27	32	30	27	30	56	47	106	314	182	85	43
18	27	59	28	28	30	52	50	117	327	177	82	41
19	27	52	28	26	32	48	54	131	307	163	92	39
20	28	43	30	26	31	48	58	142	298	152	93	39
21	29	41	36	30	31	47	58	156	292	146	101	39
22	32	41	36	29	31	45	63	176	293	141	87	45
23	35	39	40	32	32	45	61	195	301	136	81	49
24	38	36	39	37	33	44	57	218	301	134	76	49
25	64	34	38	38	33	42	54	239	298	134	73	46
26	80	34	37	36	32	40	50	255	295	129	70	44
27	51	34	34	34	32	40	49	271	290	125	68	44
28	44	36	33	33	31	39	55	293	285	123	65	44
29	43	37	31	32	---	38	59	309	281	121	64	5
30	90	29	30	31	---	42	59	314	273	119	62	5
31	54	---	29	30	---	59	---	315	---	116	69	---
TOTAL	1165	1126	991	915	879	1518	1514	4446	8584	5775	2750	1488
MEAN	37.6	37.5	32.0	29.5	31.4	49.0	50.5	143	286	186	88.7	49.6
MAX	90	59	40	38	36	121	63	315	327	274	111	80
MIN	27	29	28	26	28	37	42	56	250	116	62	39
AC-FT	2310	2230	1970	1810	1740	3010	3000	8820	17030	11450	5450	2950
CAL YR 1982	TOTAL	25535	MEAN	70.0	MAX	242	MIN	21	AC-FT	50650		
WTR YR 1983	TOTAL	31151	MEAN	85.3	MAX	327	MIN	26	AC-FT	61790		

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to September 1983 (discontinued).

WATER TEMPERATURES: Water years 1974, 1978, 1980 to current year.

SEDIMENT RECORDS: Water years 1974, 1978, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1981 to September 1983 (discontinued).

WATER TEMPERATURES: February 1981 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1973 to September 1974, October 1977 to June 1978, March 1980 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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 micromhos Aug. 24, 1981, minimum recorded, 14 micromhos May 28, 1982.

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug. 12, 1981; minimum recorded, 0.0°C on many days during most winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 321 mg/L Mar. 13, 1983; minimum daily mean, 0 mg/L Oct. 15, 16, 1973.

SEDIMENT DISCHARGE: Maximum daily, 162 tons Feb. 16, 1982; minimum daily, 0 ton Oct. 15, 16, 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 117 micromhos Mar. 26; minimum recorded, 23 micromhos July 10.

WATER TEMPERATURES: Maximum recorded, 15.0°C July 13; minimum recorded, 0.5°C on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 321 mg/L Mar. 13; minimum daily mean, 2 mg/L Oct. 14-18.

SEDIMENT DISCHARGE: Maximum daily, 108 tons Mar. 13; minimum daily, 0.15 ton Oct. 15-18.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
OCT										
25...	1005	79	5.5	212	45	19	--	--	--	--
26...	1530	68	4.5	49	9.0	32	--	--	--	--
30...	1730	84	4.5	66	15	28	--	--	--	--
NOV										
12...	1205	50	2.5	71	9.6	40	--	--	--	--
18...	1550	82	2.0	208	46	31	48	82	100	--
DEC										
06...	1400	32	2.0	16	1.4	57	--	--	--	--
MAR										
13...	0400	83	1.5	319	71	36	--	--	--	--
13...	1145	146	0.5	379	149	34	48	79	97	100
MAY										
16...	1255	96	6.0	58	15	66	--	--	--	--
18...	2330	140	4.5	124	47	32	--	--	--	--
20...	1620	137	9.0	94	35	34	--	--	--	--
26...	1905	247	8.5	109	73	76	88	96	100	--
JULY										
13...	0945	194	8.0	78	41	13	--	--	--	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	4.0	5.0	2.5	1.0	.5	.5	.5	1.0	.5	2.5	.5
2	8.0	4.5	4.5	2.0	1.0	.5	1.0	.5	1.0	.5	4.0	1.0
3	8.0	5.0	5.0	1.5	1.5	1.0	1.5	.5	1.5	1.0	4.0	2.0
4	8.0	5.5	5.0	4.5	1.5	1.0	1.5	1.0	1.0	.5	4.5	2.0
5	7.0	4.5	5.0	4.5	1.5	1.0	1.5	1.0	1.0	1.0	---	---
6	7.0	4.5	4.5	4.0	2.0	1.0	1.5	1.0	1.0	1.0	---	---
7	7.0	5.0	4.5	4.0	1.0	.5	2.0	1.0	1.5	.5	---	---
8	6.5	3.5	4.0	4.0	.5	.5	2.5	1.0	1.5	.5	---	---
9	7.0	4.0	3.5	3.0	1.0	.5	2.0	1.0	1.0	1.0	---	---
10	7.5	4.5	3.0	2.5	1.5	.5	2.0	.5	1.5	1.0	---	---
11	7.0	3.5	2.5	2.5	1.5	.5	1.5	.5	2.5	1.5	---	---
12	7.5	4.0	2.5	2.5	1.5	.5	1.0	.5	3.0	1.5	---	---
13	7.5	4.5	2.5	2.0	1.5	.5	1.0	.5	2.5	.5	---	---
14	7.5	4.5	2.0	2.0	1.0	.5	1.5	.5	2.5	.5	---	---
15	8.0	5.0	2.0	2.0	1.5	1.0	2.5	1.0	4.0	1.0	---	---
16	7.5	4.5	2.0	1.5	2.5	1.5	2.5	2.0	4.0	1.0	---	---
17	8.0	4.5	4.0	1.5	2.5	1.0	3.0	2.0	4.0	1.0	---	---
18	6.5	3.5	3.0	1.5	1.5	.5	3.5	1.5	2.5	.5	---	---
19	5.5	4.0	2.0	.5	1.5	.5	1.5	1.0	1.5	.5	---	---
20	6.5	4.5	2.5	.5	2.5	1.5	1.5	1.0	2.5	1.0	---	---
21	6.5	5.0	1.0	.5	2.0	.5	1.0	.5	4.0	1.0	---	---
22	8.0	6.0	3.0	1.0	1.0	.5	1.0	.5	5.0	2.0	2.5	.5
23	7.5	6.5	3.5	2.0	1.0	.5	1.0	.5	5.0	2.0	3.0	.5
24	7.5	6.5	3.0	1.0	.5	.5	1.0	.5	4.5	1.5	1.5	.5
25	7.0	6.0	2.0	.5	1.0	.5	1.0	.5	2.5	1.0	3.5	1.0
26	6.5	4.5	1.5	.5	1.0	1.0	1.5	.5	2.0	.5	2.5	1.0
27	5.0	3.0	3.0	1.0	1.0	.5	1.0	.5	1.5	.5	2.5	1.0
28	4.5	2.5	3.5	2.0	.5	.5	1.0	.5	2.5	1.0	3.5	1.5
29	6.0	4.0	2.0	.5	1.0	.5	1.0	.5	---	---	3.5	2.0
30	5.0	4.5	.5	.5	.5	.5	1.5	1.0	---	---	4.5	2.0
31	5.5	3.5	---	---	.5	.5	1.0	.5	---	---	4.5	2.0
MONTH	8.0	2.5	5.0	.5	2.5	.5	3.5	.5	5.0	.5	4.5	.5

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	47	48	54	50	47	50	47	26	28	30	37
2	43	48	50	54	51	48	50	47	26	30	31	38
3	44	49	52	56	48	47	50	46	31	30	31	38
4	44	55	52	56	49	49	51	45	31	30	32	39
5	43	55	53	55	48	---	51	47	30	31	32	39
6	43	53	53	54	48	---	56	48	30	31	32	39
7	42	52	52	54	48	---	54	47	30	33	33	39
8	42	51	53	54	48	---	52	46	30	34	33	41
9	42	51	50	55	52	---	54	44	30	34	33	41
10	45	51	52	57	50	---	62	43	29	26	34	41
11	45	51	53	56	48	---	57	44	28	26	33	41
12	45	51	53	55	48	---	51	45	29	32	33	42
13	46	51	52	54	48	---	52	45	29	32	33	42
14	46	52	47	53	49	---	53	41	28	32	34	43
15	46	52	53	53	50	---	54	31	28	31	35	43
16	45	52	55	53	49	---	65	32	28	31	36	43
17	46	51	54	53	52	---	56	42	27	31	35	44
18	46	41	52	53	51	---	52	40	27	31	35	44
19	47	37	54	52	47	---	52	39	28	30	34	45
20	47	38	54	51	49	---	---	36	28	30	34	46
21	49	41	51	52	50	---	---	32	28	31	34	46
22	50	40	51	46	50	51	48	30	28	30	33	44
23	51	42	52	46	51	52	45	30	28	30	33	43
24	51	43	50	49	51	50	45	29	28	30	34	43
25	50	44	46	52	52	52	46	28	28	30	34	45
26	50	45	53	50	53	58	46	28	27	29	35	46
27	50	48	52	50	51	51	47	28	28	29	35	46
28	49	48	53	48	51	52	47	28	27	30	36	46
29	47	47	54	47	---	53	46	27	27	31	36	43
30	46	47	55	48	---	52	46	27	27	30	37	43
31	47	---	55	47	---	49	---	26	---	30	37	---
MEAN	46	48	52	52	50	51	51	38	28	30	34	42
WTR YR 1983	MEAN	43	MAX	65	MIN	26						

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	36	5	.49	48	19	2.5	34	22	2.0
2	35	5	.47	45	16	1.9	35	25	2.4
3	34	5	.46	41	15	1.7	34	24	2.2
4	32	5	.43	39	13	1.4	32	19	1.6
5	31	5	.42	38	13	1.3	31	20	1.7
6	31	6	.50	36	12	1.2	31	18	1.5
7	31	6	.50	35	11	1.0	30	18	1.5
8	31	5	.42	33	10	.89	30	20	1.6
9	31	4	.33	34	23	2.1	30	18	1.5
10	31	4	.33	34	30	2.8	30	16	1.3
11	30	3	.24	34	32	2.9	29	17	1.3
12	30	3	.24	34	35	3.2	29	15	1.2
13	29	3	.23	32	35	3.0	29	19	1.5
14	29	2	.16	32	35	3.0	30	23	1.9
15	28	2	.15	33	35	3.1	30	19	1.5
16	27	2	.15	31	33	2.8	28	17	1.3
17	27	2	.15	32	20	1.7	30	16	1.3
18	27	2	.15	59	101	19	28	17	1.3
19	27	3	.22	52	48	6.7	28	20	1.5
20	28	4	.30	43	25	2.9	30	18	1.5
21	29	6	.47	41	32	3.5	36	22	2.1
22	32	7	.60	41	18	2.0	36	33	3.2
23	35	12	1.1	39	15	1.6	40	32	3.5
24	38	11	1.1	36	15	1.5	39	25	2.6
25	64	92	17	34	25	2.3	38	34	3.5
26	80	95	23	34	32	2.9	37	25	2.5
27	51	25	3.4	34	20	1.8	34	20	1.8
28	44	18	2.1	36	21	2.0	33	25	2.2
29	43	15	1.7	37	25	2.5	31	22	1.8
30	90	123	33	29	20	1.6	30	24	1.9
31	54	32	4.7	---	---	---	29	25	2.0
TOTAL	1165	---	94.51	1126	---	86.79	991	---	58.7
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	29	25	2.0	30	43	3.5	40	37	4.0
2	29	26	2.0	30	38	3.1	43	40	4.6
3	29	20	1.6	30	33	2.7	42	32	3.6
4	29	15	1.2	29	30	2.3	40	30	3.2
5	29	10	.78	29	30	2.3	38	27	2.8
6	29	9	.70	28	25	1.9	37	22	2.2
7	28	8	.60	33	38	3.4	37	20	2.0
8	28	9	.68	36	45	4.4	38	20	2.1
9	27	12	.87	33	35	3.1	40	20	?
10	27	17	1.2	31	32	2.7	41	20	
11	27	20	1.5	30	29	2.3	43	20	2.3
12	27	23	1.7	32	27	2.3	45	22	2.7
13	27	32	2.3	36	45	4.4	121	321	108
14	27	34	2.5	33	38	3.4	96	130	34
15	27	25	1.8	31	25	2.1	72	50	9.7
16	27	21	1.5	30	13	1.1	60	25	4.1
17	27	20	1.5	30	10	.81	56	18	2.7
18	28	22	1.7	30	13	1.1	52	15	2.1
19	26	24	1.7	32	18	1.6	48	12	1.6
20	26	26	1.8	31	15	1.3	48	10	1.3
21	30	40	3.2	31	11	.92	47	10	1.3
22	29	46	3.6	31	12	1.0	45	11	1.3
23	32	50	4.3	32	11	.95	45	14	1.7
24	37	50	5.0	33	10	.89	44	12	1.4
25	38	48	4.9	33	10	.89	42	10	1.1
26	36	45	4.4	32	10	.86	40	16	1.7
27	34	45	4.1	32	10	.86	40	11	1.2
28	33	45	4.0	31	12	1.0	39	10	1.1
29	32	45	3.9	---	---	---	38	12	1.2
30	31	40	3.3	---	---	---	42	18	2.0
31	30	40	3.2	---	---	---	59	45	7.2
TOTAL	915	---	73.53	879	---	57.18	1518	---	218.6

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	54	32	4.7	56	12	1.8	292	60	47
2	52	26	3.7	56	15	2.3	261	42	30
3	48	25	3.2	65	22	3.9	250	33	22
4	47	21	2.7	71	27	5.2	254	33	23
5	46	19	2.4	65	24	4.2	255	28	19
6	42	26	2.9	64	22	3.8	264	26	19
7	42	18	2.0	71	24	4.6	275	31	23
8	45	19	2.3	78	33	6.9	270	29	21
9	48	23	3.0	79	38	8.1	269	30	22
10	48	22	2.9	77	36	7.5	281	32	24
11	48	13	1.7	72	28	5.4	302	38	31
12	46	12	1.5	77	40	8.3	287	29	22
13	45	10	1.2	82	43	9.5	281	25	19
14	42	8	.91	89	50	12	286	25	19
15	42	9	1.0	101	63	17	298	22	18
16	45	11	1.3	106	69	20	304	23	19
17	47	12	1.5	106	63	18	314	21	18
18	50	13	1.8	117	79	25	327	18	16
19	54	15	2.2	131	90	32	307	21	17
20	58	23	3.6	142	108	41	298	32	26
21	58	17	2.7	156	110	46	292	36	28
22	63	20	3.4	176	105	50	293	29	23
23	61	22	3.6	195	116	61	301	17	14
24	57	18	2.8	218	120	71	301	19	15
25	54	15	2.2	239	120	77	298	26	21
26	50	15	2.0	255	116	80	295	22	18
27	49	15	2.0	271	104	76	290	24	19
28	55	20	3.0	293	105	83	285	20	15
29	59	21	3.3	309	103	86	281	16	12
30	59	18	2.9	314	78	66	273	23	17
31	---	---	---	315	63	54	---	---	---
TOTAL	1514	---	74.41	4446	---	986.5	8584	---	637
DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	266	22	16	111	77	23	80	35	7.6
2	274	23	17	106	77	22	67	18	3.3
3	261	24	17	104	78	22	63	15	2.6
4	258	23	16	101	80	22	59	13	2.1
5	264	23	16	97	81	21	57	12	1.8
6	265	30	21	93	80	20	55	10	1.5
7	258	22	15	95	75	19	53	10	1.4
8	244	17	11	110	146	49	52	10	1.4
9	224	21	13	106	86	25	50	10	1.4
10	206	33	18	103	70	19	50	10	1.4
11	196	52	28	94	52	13	49	11	1.5
12	194	53	28	86	45	10	48	11	1.4
13	192	73	38	83	42	9.4	47	11	1.4
14	193	80	42	101	131	49	45	11	1.3
15	194	81	42	104	76	21	45	12	1.5
16	188	82	42	88	44	10	44	12	1.4
17	182	80	39	85	43	9.9	43	12	1.4
18	177	80	38	82	40	8.9	41	12	1.3
19	163	80	35	92	66	16	39	12	1.3
20	152	80	33	93	97	30	39	12	1.3
21	146	73	29	101	86	25	39	12	1.3
22	141	54	21	87	51	12	45	15	1.8
23	136	54	20	81	50	11	49	10	1.3
24	134	57	21	76	48	9.8	49	10	1.3
25	134	60	22	73	40	7.9	46	10	1.2
26	129	63	22	70	33	6.2	44	9	1.1
27	125	65	22	68	25	4.6	44	9	1.1
28	123	67	22	65	18	3.2	44	11	1.3
29	121	81	26	64	16	2.8	51	12	1.7
30	119	78	25	62	15	2.5	51	10	1.4
31	116	75	23	69	33	6.1	---	---	---
TOTAL	5775	---	778	2750	---	510.3	1488	---	51.8
YEAR	31151		3627.32						

PYRAMID AND WINNEMUCCA LAKES BASIN

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE¼NE¼ 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, 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City, and at mile 116.27 upstream from Marble Bluff Dam.

DRAINAGE AREA.--506 mi², at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Only monthend lake levels available 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, U.S. 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 altitudes 6,223 ft, natural rim of lake, and 6,229.1 ft, maximum permissible altitude by Federal Court decree. Lake altitudes are referenced to Bureau of Reclamation datum, which 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 altitude, 6,231.26 ft, July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft Dec. 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum altitude, 6,228.95 ft July 8; minimum, 6,226.99 ft May 16.

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

6,223	0	6,227	48,6800
6,224	12,1400	6,228	60,9300
6,225	24,3000	6,229	73,2300
6,226	36,4800		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.40	8.57	8.15	7.63	7.74	7.71	7.57	7.17	7.80	8.80	8.82	8.67
2	8.39	8.52	8.12	7.61	7.70	7.70	7.58	7.16	7.85	8.85	8.82	8.66
3	8.40	8.50	8.10	7.59	7.68	7.68	7.56	7.15	7.90	8.87	8.80	8.66
4	8.35	8.47	8.08	7.57	7.65	7.66	7.50	7.09	7.93	8.90	8.80	8.65
5	8.33	8.43	8.05	7.56	7.64	7.64	7.48	7.10	7.96	8.93	8.80	8.65
6	8.32	8.41	8.02	7.55	7.67	7.60	7.45	7.08	8.01	8.93	8.81	8.64
7	8.32	8.44	7.98	7.54	7.76	7.62	7.44	7.06	8.05	8.93	8.81	8.63
8	8.32	8.37	7.93	7.53	7.73	7.60	7.39	7.05	8.08	8.95	8.81	8.62
9	8.34	8.32	7.89	7.52	7.71	7.57	7.35	7.04	8.11	8.93	8.79	8.55
10	8.26	8.27	7.87	7.51	7.69	7.55	7.35	7.04	8.15	8.93	8.80	8.56
11	8.26	8.27	7.85	7.50	7.68	7.50	7.33	7.03	8.21	8.93	8.79	8.54
12	8.25	8.21	7.83	7.50	7.68	7.56	7.32	7.02	8.25	8.92	8.79	8.52
13	8.24	8.18	7.82	7.50	7.71	7.75	7.30	7.02	8.28	8.91	8.79	8.51
14	8.23	8.15	7.79	7.49	7.68	7.76	7.27	7.01	8.30	8.89	8.81	8.50
15	8.23	8.12	7.77	7.50	7.64	7.75	7.24	7.00	8.35	8.88	8.83	8.50
16	8.22	8.07	7.67	7.51	7.64	7.72	7.21	6.99	8.41	8.85	8.83	8.47
17	8.21	8.07	7.70	7.50	7.58	7.75	7.21	7.00	8.47	8.85	8.82	8.45
18	8.20	8.28	7.67	7.55	7.66	7.73	7.16	7.02	8.45	8.81	8.81	8.46
19	8.18	8.28	7.65	7.55	7.64	7.71	7.16	7.04	8.48	8.78	8.84	8.45
20	8.17	8.22	7.68	7.55	7.63	7.70	7.18	7.06	8.50	8.80	8.84	8.38
21	8.23	8.18	7.82	7.54	7.59	7.67	7.16	7.07	8.53	8.79	8.83	8.35
22	8.20	8.21	7.95	7.63	7.57	7.71	7.13	7.12	8.58	8.80	8.83	8.38
23	8.20	8.17	7.92	7.62	7.55	7.71	7.16	7.16	8.60	8.79	8.80	8.35
24	8.22	8.13	7.88	7.78	7.53	7.72	7.20	7.21	8.66	8.79	8.79	8.34
25	8.45	8.11	7.86	7.75	7.58	7.69	7.20	7.28	8.68	8.79	8.76	8.32
26	8.45	8.08	7.83	7.83	7.57	7.64	7.18	7.35	8.69	8.78	8.76	8.30
27	8.47	8.06	7.79	7.83	7.62	7.66	7.18	7.42	8.74	8.78	8.72	8.29
28	8.48	8.11	7.76	7.82	7.64	7.61	7.18	7.49	8.76	8.78	8.70	8.26
29	8.51	8.11	7.73	7.80	---	7.60	7.20	7.57	8.76	8.79	8.68	8.28
30	8.55	8.19	7.68	7.79	---	7.59	7.17	7.65	8.79	8.79	8.66	8.29
31	8.53	---	7.66	7.76	---	7.61	---	7.72	---	8.80	8.67	---
MAX	8.55	8.57	8.15	7.83	7.76	7.76	7.58	7.72	8.79	8.95	8.84	8.67
MIN	8.17	8.06	7.65	7.49	7.53	7.50	7.13	6.99	7.80	8.78	8.66	8.26
†	674500	632700	567700	579900	565200	561500	507600	575000	706500	707700	691700	645000
‡	+14800	-41800	-65000	+12200	-14700	-3700	-53900	+67400	+131500	+1200	-16000	-46700

CAL YR 1982 † +194400
WTR YR 1983 † -14700

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

Note: Add 6,220 ft to obtain altitude, Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10337500 TRUCKEE RIVER AT TAHOE CITY, CA

LOCATION.--Lat 39°09'59", long 120°08'36", in NN¼NW¼ sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on left bank 510 ft downstream from dam at outlet of Lake Tahoe at Tahoe City, and at mile 116.20 upstream from Marble Bluff Dam.

DRAINAGE AREA.--507 mi².

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

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

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft, National Geodetic Vertical Datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft upstream at different datum. Nov. 12, 1912 to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937 to Aug. 21, 1957, water-stage recorder at datum 2.26 ft higher and Aug. 22, 1957 to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft. There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin.

AVERAGE DISCHARGE (unadjusted).--83 years (water years 1901-83), 254 ft³/s, 184,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft³/s June 19, 1969, gage height, 9.32 ft; no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,980 ft³/s Jan. 29, gage height 7.73 ft; maximum gage height, 7.93 ft Nov. 30; minimum daily, 12 ft³/s Oct. 22.

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	67	1020	1820	1890	1940	1680	1810	1790	153	576	578	556
2	69	1100	1820	1900	1930	1650	1810	1780	444	575	579	555
3	73	1220	1800	1760	1920	1630	1810	1770	773	576	579	562
4	74	1430	1800	1240	1900	1620	1810	1770	943	575	579	573
5	74	1680	1800	855	1900	1630	1810	1740	944	803	579	576
6	74	1730	1800	656	1900	1650	1790	1400	945	1430	579	576
7	74	1730	1800	657	1900	1650	1800	1200	1150	1550	579	575
8	73	1720	1800	657	1890	1690	1810	1190	1460	1550	578	573
9	72	1730	1790	657	1820	1790	1800	1190	1590	1560	579	573
10	72	1720	1780	656	1820	1800	1800	1190	1260	1560	579	573
11	72	1720	1780	573	1760	1790	1800	1190	973	1560	579	571
12	72	1720	1780	304	1730	1790	1810	1190	973	1690	579	570
13	71	1720	1790	300	1750	1360	1800	1190	1190	1790	579	570
14	62	1730	1790	299	1740	1110	1810	1190	1310	1790	581	570
15	33	1720	1800	298	1720	1720	1810	1180	1310	1790	586	568
16	32	1530	1780	299	1710	1810	1800	1090	1290	1790	586	571
17	31	1200	1800	300	1690	1810	1790	900	1410	1740	586	573
18	27	804	1800	300	1700	1820	1780	900	1580	1350	586	574
19	25	893	1800	305	1700	1820	1800	833	1420	1090	586	572
20	20	1470	1800	304	1680	1810	1820	605	1120	912	586	793
21	19	1700	1860	386	1680	1810	1820	609	808	910	586	1090
22	12	1740	1920	499	1660	1820	1800	610	634	783	587	960
23	18	1760	1940	488	1660	1830	1800	422	630	591	580	953
24	31	1750	1940	489	1660	1850	1820	153	630	589	510	936
25	51	1750	1930	741	1660	1840	1830	58	632	589	540	928
26	62	1760	1920	1140	1680	1830	1820	59	631	583	561	928
27	51	1780	1910	1480	1690	1820	1810	60	632	580	56	928
28	75	1790	1900	1870	1680	1820	1810	61	735	579	56	848
29	203	1790	1900	1960	---	1810	1810	65	946	579	560	740
30	405	1830	1890	1960	---	1800	1800	63	795	579	556	3
31	676	---	1890	1950	---	1810	---	63	---	579	555	-
TOTAL	2770	47237	56930	27173	49470	53670	54190	27511	29311	33198	17779	20598
MEAN	89.4	1575	1836	877	1767	1731	1806	887	977	1071	574	687
MAX	676	1830	1940	1960	1940	1850	1830	1790	1590	1790	587	1090
MIN	12	804	1780	298	1660	1110	1780	58	153	575	510	555
AC-FT	5490	93690	112900	53900	98120	106500	107500	54570	58140	65850	35260	40860
CAL YR 1982	TOTAL	223633	MEAN	613	MAX	1940	MIN	12	AC-FT	443600		
WTR YR 1983	TOTAL	419837	MEAN	1150	MAX	1960	MIN	12	AC-FT	832700		

PYRAMID AND WINNEMUCCA LAKES BASIN

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'25", long 120°14'00", in SW 1/4 NW 1/4 sec.17, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, in Donner Memorial State Park, on left bank 10 ft downstream from bridge on Donner Memorial State Park road, 0.2 mi downstream from outlet of Donner Lake, 0.7 mi upstream from Cold Creek, and 2.5 mi west of Truckee.

DRAINAGE AREA.--14.3 mi².

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

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

GAGE.--water-stage recorder. Altitude of gage is 5,930 ft, from topographic map. Nov. 1, 1909, to Aug. 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records excellent. Flow regulated by dam at outlet of Donner Lake, usable capacity, 9,500 acre-ft.

AVERAGE DISCHARGE (unadjusted).--46 years (water years 1930-35, 1937, 1940-42, 1944-52, 1956-57, 1959-83), 35.2 ft³/s, 25,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 700 ft³/s, estimated, Nov. 21, 1950; maximum gage height observed, 4.55 ft Dec. 25, 1964; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 368 ft³/s May 31, gage height, 4.01 ft; minimum daily, 1.6 ft³/s Aug. 23,24.

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	91	135	54	38	40	61	78	77	360	33	13	19
2	88	118	51	35	38	63	80	74	348	24	20	19
3	86	104	47	34	35	61	78	72	340	23	19	19
4	84	92	44	31	33	58	74	76	337	22	19	19
5	96	82	42	30	32	56	70	80	337	21	19	19
6	104	73	40	29	32	54	66	82	333	21	19	13
7	98	65	38	28	38	54	63	81	326	21	18	4.7
8	91	59	36	28	42	55	61	82	318	21	17	4.4
9	84	55	34	27	43	55	61	83	313	19	12	31
10	75	50	32	27	43	56	61	85	313	17	4.8	51
11	68	46	31	26	41	61	60	85	326	17	4.0	51
12	75	42	30	26	44	65	59	86	320	17	3.4	50
13	82	39	32	26	54	125	58	90	308	17	3.0	80
14	76	35	31	25	53	161	56	97	299	16	2.8	181
15	39	33	30	25	50	158	54	109	295	15	2.9	253
16	15	30	28	26	48	148	53	124	289	15	2.5	238
17	14	29	31	25	46	138	53	133	287	15	2.4	222
18	13	40	30	26	48	127	54	143	282	15	2.1	205
19	13	54	29	32	48	116	57	158	269	15	1.9	208
20	13	54	32	31	46	106	61	180	257	13	1.7	211
21	12	51	56	30	44	98	65	203	216	13	1.7	183
22	37	49	68	32	42	93	72	228	193	13	1.7	156
23	58	47	73	33	41	90	79	253	171	12	1.6	134
24	61	44	68	45	40	87	87	265	116	12	1.6	115
25	121	42	62	46	43	81	91	279	92	11	9.2	99
26	188	40	58	44	49	75	86	299	94	18	28	93
27	181	37	54	50	52	71	83	312	62	26	37	89
28	190	40	50	47	55	66	83	325	40	26	36	76
29	178	47	46	47	---	61	83	343	39	17	26	68
30	168	56	43	45	---	59	80	354	39	4.5	20	63
31	153	---	40	43	---	74	---	361	---	3.6	20	---
TOTAL	2652	1688	1340	1037	1220	2633	2066	5219	7319	533.1	370.3	2974.1
MEAN	85.5	56.3	43.2	33.5	43.6	84.9	68.9	168	244	17.2	11.9	99.1
MAX	190	135	73	50	55	161	91	361	360	33	37	253
MIN	12	29	28	25	32	54	53	72	39	3.6	1.6	4.4
AC-FT	5260	3350	2660	2060	2420	5220	4100	10350	14520	1060	734	5900
CAL YR 1982	TOTAL	25660.64	MEAN	70.3	MAX	303	MIN	.82	AC-FT	50900		
WTR YR 1983	TOTAL	29051.5	MEAN	79.6	MAX	361	MIN	1.6	AC-FT	57620		

10339250 MARTIS CREEK AT STATE HIGHWAY 267, NEAR TRUCKEE, CA

LOCATION.--Lat 39°18'08", long 120°07'13", in SW 1/4 SW 1/4 sec.20, T.17 N., R.17 E., Placer County, Hydrologic Unit 16050102, 4.0 mi southeast of Truckee. Water-quality samples are collected 10 ft upstream from State Highway 267. Temperature records are obtained about 300 ft upstream from highway, off left bank immediately downstream from confluence of main stem and Middle Martis Creek.

DRAINAGE AREA.--25.8 mi².

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

CHEMICAL ANALYSES: Water years 1975 to current year.

WATER TEMPERATURES: Water years 1975 to current year.

SEDIMENT RECORDS: Water years 1975, 1977 to current year.

REVISED RECORDS.--WDR CA-80-3: Drainage area.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October to November 1974, August 1975 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.5°C July 30, Aug. 3, 1977; minimum recorded, -0.5°C Jan. 5, 10-16, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 20.5°C on July 30, Aug. 2, 6; minimum recorded, 0.0°C on several days during December and January.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
NOV 24...	1005	19	2.0	2	.10
APR 13...	0950	49	2.5	4	.53
JUN 07...	1015	142	8.0	12	4.6
AUG 30...	1045	12	11.0	6	.19

10339250 MARTIS CREEK AT HIGHWAY 267 NEAR TRUCKEE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	12.0	4.0	8.0	2.5	2.5	.5	.5	.0	2.0	.5	1.5	.5
2	12.5	5.0	7.5	1.5	2.5	.5	.5	.0	1.5	.5	2.5	.5
3	12.5	5.0	7.5	1.5	3.5	1.0	1.0	.5	2.5	.5	3.5	1.0
4	12.0	5.5	7.0	1.0	3.5	.5	2.5	.5	1.0	.5	4.5	1.0
5	12.0	4.0	8.0	1.5	4.0	1.5	2.5	.5	2.0	.5	5.0	1.0
6	10.5	4.0	7.5	2.0	4.0	.5	2.5	.5	3.0	1.0	5.5	1.0
7	11.0	4.5	6.5	2.5	2.0	.5	3.5	1.0	3.5	.5	5.0	1.5
8	10.5	2.5	3.5	1.0	1.0	.5	3.5	.5	3.0	1.0	5.0	1.0
9	11.0	3.0	3.0	1.0	.5	.5	2.5	.5	2.0	.5	5.5	1.0
10	11.0	3.0	4.5	1.5	1.5	.5	2.5	.5	3.5	1.0	6.5	1.0
11	11.0	2.5	5.0	1.0	2.5	.5	1.5	.0	4.0	1.0	6.0	1.0
12	11.5	3.0	4.5	.5	2.5	.5	1.0	.0	2.0	.5	4.0	.5
13	11.5	3.5	4.5	.5	2.0	.5	1.5	.5	1.5	.5	1.0	.5
14	11.0	4.0	4.5	.5	.5	.5	2.0	.5	3.0	.5	3.5	.5
15	12.0	6.0	5.0	1.0	2.5	.5	3.0	.5	4.0	.5	5.5	.5
16	11.5	4.5	5.0	.5	3.0	1.0	3.0	1.5	4.5	.5	5.0	.5
17	11.5	4.5	6.0	3.0	2.0	.5	4.0	2.0	5.0	1.0	6.0	1.0
18	9.5	2.5	4.0	1.0	2.0	.5	4.5	.5	2.0	.5	6.0	.5
19	7.5	3.5	3.5	.5	2.0	.5	2.0	.5	2.5	.5	8.5	.5
20	9.5	4.5	4.0	1.0	2.5	.5	2.5	.5	3.5	.5	4.0	.5
21	10.0	5.5	2.5	.5	.5	.5	1.5	.5	4.0	.5	6.5	1.0
22	10.0	7.5	3.5	2.0	1.0	.5	2.0	1.0	5.0	1.0	3.5	.5
23	11.0	7.5	4.5	2.0	1.5	.5	2.5	.5	5.5	1.0	4.0	.5
24	9.5	7.0	4.5	1.5	1.0	.5	1.0	.5	5.5	1.0	1.5	.5
25	9.5	7.5	5.0	2.5	.5	.5	1.5	.5	2.0	.5	4.5	.5
26	8.5	5.0	4.0	1.5	2.0	.5	2.5	.5	2.5	.5	3.5	.5
27	8.0	4.0	5.5	1.0	2.0	.5	2.0	.5	2.0	.5	5.5	1.0
28	8.0	3.0	4.5	2.0	2.0	.0	2.0	.5	2.0	.5	5.5	.5
29	9.0	5.0	2.0	1.5	1.5	.0	2.5	.5	---	---	6.5	2.0
30	7.0	5.5	2.5	.5	.5	.0	3.0	.5	---	---	8.5	1.5
31	9.0	4.5	---	---	.5	.0	2.0	.5	---	---	8.5	1.0
MONTH	12.5	2.5	8.0	.5	4.0	.0	4.5					
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	10.0	.5	7.5	1.5	10.0	4.0	11.5	9.0	20.0	10.0	16.0	10.5
2	8.0	1.0	14.5	2.0	9.5	5.0	16.5	8.5	20.5	10.0	17.0	8.0
3	4.5	.5	16.0	2.0	12.0	5.0	18.5	7.5	20.0	10.0	17.0	8.5
4	5.5	1.0	9.5	2.5	13.0	5.0	19.0	8.5	19.5	9.5	17.5	8.0
5	5.5	.5	10.5	2.5	14.5	4.0	18.5	10.0	20.0	9.0	18.0	8.5
6	9.0	.5	14.0	1.0	14.5	4.5	19.0	10.5	20.5	10.0	18.0	9.0
7	10.0	.5	13.5	2.0	12.0	6.0	17.5	9.5	18.5	12.5	17.5	9.0
8	10.5	.5	13.0	1.5	12.5	5.0	17.0	8.0	16.0	12.5	17.0	10.0
9	8.5	1.0	13.5	1.5	15.0	5.0	14.5	7.0	20.0	10.0	16.0	7.5
10	9.0	1.5	9.0	2.0	14.0	5.0	17.0	6.5	18.5	12.5	16.5	7.0
11	6.0	.5	14.0	2.0	14.0	6.0	19.0	7.5	19.5	10.5	17.0	7.5
12	7.5	.5	12.0	2.0	14.5	5.0	20.0	9.0	19.0	9.0	17.0	8.0
13	8.0	.5	13.0	2.5	15.0	5.0	20.0	9.0	19.0	11.5	17.5	8.5
14	11.0	.5	14.0	2.0	15.0	5.5	19.5	9.5	14.5	10.0	16.5	8.0
15	11.0	1.0	13.5	3.5	15.5	6.0	19.0	9.0	16.0	11.5	16.0	7.0
16	11.0	1.0	13.0	2.0	16.0	6.0	18.0	7.5	18.5	10.5	16.0	8.0
17	8.5	1.5	14.0	2.0	16.0	7.0	17.5	8.5	15.0	10.0	16.5	8.5
18	10.5	1.5	13.5	2.5	15.0	6.5	17.5	7.5	15.5	9.5	15.5	7.5
19	13.0	2.0	13.5	3.0	15.5	5.0	17.0	8.0	15.5	11.0	15.0	7.5
20	8.5	3.0	14.0	3.0	14.0	6.0	18.0	6.5	15.5	9.5	14.0	5.5
21	10.5	3.0	14.5	3.0	16.5	6.5	19.0	8.0	13.5	9.0	14.0	6.0
22	12.5	2.5	14.0	3.5	17.0	7.5	19.5	9.5	16.0	10.0	11.5	9.0
23	7.0	1.0	14.0	3.5	16.5	8.0	18.5	7.5	16.5	8.5	11.0	8.5
24	3.5	.5	14.0	3.5	17.0	7.5	18.5	8.0	16.0	8.5	12.0	7.5
25	7.0	.5	14.0	3.5	17.5	8.0	18.0	9.0	16.5	8.0	13.5	7.0
26	9.0	.5	13.0	3.5	17.0	7.5	18.0	7.5	16.5	7.0	12.5	8.0
27	7.5	2.0	14.0	3.5	17.0	7.5	19.0	8.0	16.5	7.5	12.0	7.0
28	12.0	1.0	12.0	4.0	17.0	7.5	19.0	8.5	16.5	7.5	12.0	8.0
29	11.0	2.0	13.5	4.5	17.0	9.0	20.0	9.5	16.5	8.0	10.0	7.5
30	12.0	2.0	14.0	3.5	17.5	8.0	20.5	10.5	16.5	8.5	11.0	7.5
31	---	---	13.0	4.0	---	---	19.5	10.5	14.0	10.0	---	---
MONTH	13.0	.5	16.0	1.0	17.5	4.0	20.5	6.5	20.5	7.0	18.0	5.5
YEAR	20.5	.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'38", long 120°06'48", in NE 1/4 NW 1/4 sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, Tahoe National Forest, in control house at Martis Creek Dam, 2.0 mi upstream from mouth, and 3.5 mi east of Truckee.

DRAINAGE AREA.--39.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to May 1972 (occasional readings only), June 1972 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-ft between elevations 5,745 ft, streambed elevation at dam, and 5,838 ft, elevation of spillway crest. Figures given herein represent total contents, which include 775 acre-ft of inactive storage below elevation 5,780 ft, intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,700 acre-ft May 11, 12, 1980, elevation, 5,815.16 ft; minimum (since storage began), 768 acre-ft Aug. 24, 1977, elevation, 5,779.88.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1530 acre-ft Mar. 13, elevation, 5,788.97 ft; minimum, 796 acre-ft Sept. 18, elevation 5,780.34 ft.

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

5,779	716	5,800	3,255
5,780	775	5,810	5,884
5,785	1,139	5,820	9,718
5,790	1,646		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	866	857	850	820	827	918	874	864	978	841	806	802
2	864	851	845	819	827	899	864	864	960	841	804	803
3	862	846	842	818	823	878	856	875	961	836	804	801
4	861	846	841	820	821	867	848	876	950	831	803	801
5	860	846	839	822	820	864	845	872	945	829	803	800
6	857	845	837	822	827	862	845	872	944	826	803	799
7	854	843	833	822	851	883	850	877	941	824	803	822
8	851	844	831	823	854	881	862	879	935	823	804	806
9	849	843	830	822	843	883	863	881	933	823	804	800
10	848	843	829	818	839	894	855	878	931	821	804	799
11	847	842	829	816	838	889	849	875	927	820	804	798
12	845	841	830	815	885	920	846	878	913	818	804	798
13	844	841	829	815	881	1530	847	883	906	817	804	798
14	844	841	829	813	862	1100	845	890	903	815	804	798
15	845	841	830	815	854	914	848	903	899	815	811	798
16	844	841	831	818	850	890	856	904	895	814	809	797
17	848	841	844	820	851	877	854	907	896	813	806	797
18	852	1010	839	831	852	867	860	914	887	813	806	796
19	854	890	833	831	848	862	869	927	879	812	806	797
20	854	864	892	827	844	858	873	937	874	813	806	797
21	858	853	938	825	841	852	877	959	869	811	806	798
22	866	850	966	843	842	848	883	981	867	811	805	804
23	878	846	909	841	848	845	880	1000	865	810		803
24	885	842	871	875	848	844	870	1020	862	810		802
25	931	839	854	859	850	841	872	1030	859	810	803	801
26	916	836	853	861	848	836	867	1040	854	810	802	303
27	874	842	848	866	844	835	877	1040	851	809	801	801
28	858	877	834	854	870	832	891	1060	847	808	801	801
29	851	866	825	846	---	837	877	1070	843	807	801	803
30	883	856	824	837	---	883	869	1050	840	805	801	804
31	867	---	822	829	---	887	---	1020	---	804	801	---
MAX	931	1010	966	875	805	1530	891	1070	978	841	811	822
MIN	844	836	822	813	820	832	845	864	840	804	801	796
a	5781.43	5781.27	5780.74	5780.85	5781.47	5781.72	5781.46	5783.55	5781.02	5780.47	5780.42	5780.47
b	-1	-11	-34	+7	+41	+17	-18	+151	-180	-36	-3	+3

CAL YR 1982 b -17

WTR YR 1983 b -64

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1975 to current year.

SEDIMENT RECORDS: Water years 1975-76, 1978 to current year.

SUSPENDED SEDIMENT CONCENTRATION, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)
NOV 24...	1110	3.0	6
APR 13...	1110	4.5	9
JUN 07...	1120	14.5	3
AUG 30...	1200	17.0	15

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE 1/4 NW 1/4 sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.2 mi downstream from Martis Creek Lake Dam, 1.8 mi upstream from mouth, and 3.5 mi east of Truckee.

DRAINAGE AREA.--39.9 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft, from topographic map. Prior to July 10, 1972, at site 1.0 mi downstream at different datum.

REMARKS.--Records excellent. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

AVERAGE DISCHARGE (unadjusted).--25 years, 26.5 ft³/s, 19,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s Feb. 1, 1963, gage height, 6.16 ft, site and datum then in use; minimum, 1.1 ft³/s July 19, 20, 1961. Maximum discharge since construction of Martis Creek Lake Dam in 1971, 648 ft³/s Apr. 2, 1974, gage height, 6.01 ft; minimum daily, 0.20 ft³/s Nov. 9-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 578 ft³/s Mar. 13, gage height, 5.41 ft; minimum daily, 11 ft³/s Oct. 17, 18.

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	16	24	35	28	37	169	127	113	313	59	21	21
2	15	20	31	27	36	172	118	103	266	60	21	21
3	15	18	29	26	35	129	99	112	267	55	20	20
4	14	15	27	26	33	99	86	132	259	48	20	20
5	14	15	26	26	32	88	77	128	244	45	20	20
6	14	15	26	26	29	86	73	120	239	43	20	20
7	15	15	24	25	37	101	76	124	240	41	20	14
8	15	15	22	25	65	119	89	134	234	39	20	23
9	14	15	21	24	53	118	105	139	225	39	20	20
10	14	15	21	23	44	127	100	142	223	38	21	18
11	14	15	21	22	41	140	88	127	228	36	21	18
12	14	14	21	21	67	136	79	133	206	34	20	17
13	14	14	22	21	132	511	79	138	186	33	19	17
14	14	14	20	20	91	555	75	146	175	32	20	17
15	14	14	21	20	69	292	77	167	170	31	23	17
16	14	14	21	20	60	173	86	186	162	30	25	17
17	11	14	27	22	57	143	92	184	155	29	22	17
18	11	110	28	23	65	123	93	194	149	28	21	17
19	12	138	24	30	58	106	106	216	135	27	23	17
20	13	55	29	27	53	96	124	233	123	27	22	17
21	12	38	182	24	49	88	122	250	113	26	21	18
22	12	34	172	30	48	81	132	280	106	26	22	19
23	16	32	186	39	54	74	141	308	100	25	21	21
24	20	29	107	84	59	65	131	335	96	24	20	20
25	38	27	71	74	59	68	117	355	90	24	20	20
26	114	25	54	57	60	58	112	379	85	24	19	20
27	47	25	49	78	55	56	114	384	79	23	19	20
28	26	35	46	63	58	53	140	390	73	23	19	20
29	20	54	39	52	---	52	141	397	68	23	9	20
30	32	41	31	45	---	80	125	387	64	22	9	22
31	32	---	29	42	---	179	---	356	---	21	9	---
TOTAL	646	909	1462	1070	1536	4337	3124	6792	5073	1035	637	568
MEAN	20.8	30.3	47.2	34.5	54.9	140	104	219	169	33.4	20.5	18.9
MAX	114	138	186	84	132	555	141	397	313	60	25	23
MIN	11	14	20	20	29	52	73	103	64	21	19	14
AC-FT	1280	1800	2900	2120	3050	8600	6200	13470	10060	2050	1260	1130
CAL YR 1982	TOTAL	20060.4	MEAN	55.0	MAX	568	MIN	7.9	AC-FT	39790		
WTR YR 1983	TOTAL	27189	MEAN	74.5	MAX	555	MIN	11	AC-FT	53930		

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
 CHEMICAL ANALYSES: Water years 1975 to current year.
 WATER TEMPERATURES: Water years 1975 to current year.
 SEDIMENT RECORDS: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1974 to current year.

REMARKS.--Unpublished chemical-quality, water temperatures, and sediment data prior to October 1974, available at State office in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURE: Maximum recorded, 24.0°C on several days in 1977 and 1979; minimum recorded, 0.0°C Feb. 16, 17, 1982.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 19.5°C Aug. 6 and Sept. 7; minimum recorded, 0.5°C Mar. 14.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 13...	1150	76	5.0	1	.21
JUN 07...	1155	239	11.5	4	2.6
AUG 30...	1245	19	17.0	5	.26

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10340300 PROSSER CREEK RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'40", long 120°08'10", in NW 1/4 SW 1/4 sec.30, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Prosser Creek Dam on Prosser Creek, 1.4 mi upstream from mouth, and 4.2 mi northeast of Truckee.

DRAINAGE AREA.--50.3 mi².

PERIOD OF RECORD.--January 1963 to current year. Prior to October 1976, published as "near Boca."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REVISED RECORDS.--WDR NV-76-1: 1975. WDR NV-79-1: Drainage area.

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft between elevations, 5,660.6 ft top of inactive storage, and 5,741.2 ft spillway crest. Inactive storage, 1,200 acre-ft, includes 83 acre-ft dead storage below elevation 5,660.6 ft. Figures given herein represent total contents at 0800 hours. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 32,269 acre-ft June 1, 1973, elevation, 5,744.33 ft; minimum observed, 83 acre-ft Aug. 18, 1976 to Apr. 18, 1977, July 8 to Dec. 26, 1977, Feb. 19 to Mar. 21, 1978; minimum elevation observed, 5,637.01 ft July 20 to Dec. 19, 1977, Feb. 24 to Mar. 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 30,856 acre-ft Aug. 17, elevation, 5,742.53 ft; minimum observed, 1,378 acre-ft Sept. 30, elevation, 5,662.51 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	5,728.99	21,606	--
Oct. 31.....	5,702.15	9,316	-12,290
Nov. 30.....	5,701.80	9,203	-113
Dec. 31.....	5,699.70	8,545	-658
CAL YR 1982.....	--	--	-562
Jan. 31.....	5,701.25	9,027	+482
Feb. 28.....	5,702.60	9,464	+437
Mar. 31.....	5,701.80	9,203	-261
Apr. 30.....	5,701.40	9,075	-128
May 31.....	5,706.75	10,906	+1,831
June 30.....	5,718.46	15,881	+4,975
July 31.....	5,739.80	28,804	+12,923
Aug. 31.....	5,741.90	30,371	+1,567
Sept. 30.....	5,662.51	1,378	-28,993
WTR YR 1983.....	--	--	-20,228

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM, NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'24", long 120°07'50", in NW 1/4 NE 1/4 sec.31, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 300 ft downstream from Station Creek, 0.5 mi downstream from Prosser Creek Dam, 0.9 mi upstream from mouth, and 4.2 mi northeast of Truckee.

DRAINAGE AREA.--52.9 mi².

PERIOD OF RECORD.--October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Prior to October 1976, published as "near Boca." Monthly discharge only for October 1942 to December 1950, published in WSP 1734. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Part 2, have been found to be unreliable and should not be used.

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

GAGE.--Water-stage recorder. Datum of gage is 5,602.31 ft National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). See WSP 2127 for history of changes prior to September 1956. October 1956 to May 1976, water-stage recorder at site 0.8 mi downstream at datum 29.69 ft lower.

REMARKS.--Records excellent. Flow regulated by Prosser Creek Dam since Jan. 31, 1963.

AVERAGE DISCHARGE (adjusted for change in contents in Prosser Creek Reservoir since 1963).--40 years (water years 1943-50, 1952-83), 89.8 ft³/s, 65,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (water years 1943-83).--Maximum discharge, 4,560 ft³/s Dec. 23, 1955, gage height, 10.13 ft present datum, from rating curve extended above 910 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft from floodmarks, present datum, Nov. 20, 1950; minimum discharge, 0.4 ft³/s July 18, 1961, result of work on dam upstream. Maximum discharge since construction of Prosser Creek Dam in 1963, 1,610 ft³/s Dec. 25, 1964, gage height, 6.28 ft; minimum daily, 0.02 ft³/s Jan. 2, 1975, result of temporary closing of Prosser Creek Dam for spillway maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s May 25, gage height, 6.19 ft; minimum daily, 9.4 ft³/s Oct. 17-19, Dec. 16, Jan. 7-9.

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	258	153	41	23	76	131	221	240	897	16	15	55
2	257	153	41	9.9	76	129	284	243	895	15	15	56
3	257	67	62	9.9	76	127	281	245	887	15	16	55
4	305	11	76	9.9	37	127	234	246	795	15	16	54
5	335	81	76	9.9	11	127	206	245	656	14	20	52
6	385	126	76	9.8	11	127	177	290	609	14	29	50
7	413	125	76	9.4	13	129	160	321	614	14	39	319
8	424	74	76	9.4	13	129	149	321	498	14	47	458
9	428	40	76	9.4	64	129	143	322	319	14	56	598
10	424	40	76	27	98	130	144	322	364	14	58	679
11	419	40	76	37	98	158	169	320	475	14	58	671
12	415	40	76	37	101	178	184	320	542	14	62	818
13	410	40	76	37	102	140	184	319	622	14	63	900
14	406	40	76	61	100	213	184	319	653	13	65	1030
15	400	40	36	75	100	319	173	318	654	13	72	1100
16	144	40	9.4	75	87	422	167	319	655	14	81	973
17	9.4	40	30	75	79	485	169	321	654	14	83	883
18	9.4	47	43	76	80	477	169	683	654	14	81	855
19	9.4	79	42	75	80	472	174	903	652	14	86	709
20	23	102	44	75	80	466	217	796	603	14	87	613
21	41	100	51	75	57	332	247	738	572	14	83	518
22	65	100	50	76	43	250	294	737	467	14	84	456
23	113	100	48	76	43	192	322	739	402	15	83	441
24	180	86	132	78	43	156	319	741	403	15	79	426
25	338	78	191	77	66	143	317	1000	184	15	75	408
26	410	55	189	77	81	133	315	1150	18	15	70	342
27	537	40	189	78	81	134	274	1060	17	15	66	395
28	597	41	185	77	109	107	247	762	17	15	62	277
29	345	42	98	76	---	91	245	772	17	15	59	75
30	216	42	42	76	---	109	241	891	16	15	55	37
31	178	---	41	76	---	125	---	895	---	15	53	---
TOTAL	8756.2	2062	2400.4	1592.6	1905	6387	6610	16898	14811	446	1818	14303
MEAN	282	68.7	77.4	51.4	68.0	206	220	545	494	14.4	58.6	477
MAX	597	153	191	78	109	485	322	1150	897	16	87	1100
MIN	9.4	11	9.4	9.4	11	91	143	240	16	13	15	37
AC-FT	17370	4090	4760	3160	3780	12670	13110	33520	29380	885	3610	28370

CAL YR 1982 TOTAL 61951.6 MEAN 170 MAX 1250 MIN 9.4 AC-FT 122900 MEAN a 169 AC-FT a 122300
WTR YR 1983 TOTAL 77989.2 MEAN 214 MAX 1150 MIN 9.4 AC-FT 154700 MEAN a 186 AC-FT a 134500

a Adjusted for change in contents in Prosser Creek Reservoir.

PYRAMID AND WINNEMUCCA LAKES BASIN

10343000 INDEPENDENCE CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°27'20", long 120°17'13", in SW 1/4 NW 1/4 sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.3 mi downstream from Independence Lake outlet, and 10.5 mi northwest of Truckee.

DRAINAGE AREA.--8.10 mi².

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft, from topographic map. July 1, 1904, to June 30, 1910, nonrecording gage 75 ft downstream from Independence Lake outlet; prior to July 1, 1904, nonrecording gage 600 ft downstream at approximately same datum.

REMARKS.--Records good. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft.

AVERAGE DISCHARGE (unadjusted).--20 years (water years 1903-7, 1969-83), 28.3 ft³/s, 20,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft³/s Dec. 20, 1981, gage height, 6.12 ft; no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 256 ft³/s May 29, gage height, 5.56 ft; minimum daily discharge, 4.9 ft³/s Feb. 18, 26, Mar. 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	11	63	99	6.0	5.2	4.9	6.2	6.8	221	150	47	38
2	11	53	56	6.0	5.2	5.0	6.2	6.8	193	152	47	38
3	11	59	6.0	6.0	5.2	5.0	6.2	6.8	199	148	47	38
4	11	72	6.0	6.0	5.2	5.0	6.2	6.8	213	145	47	38
5	14	79	6.0	5.8	5.2	5.0	6.5	6.8	201	146	47	21
6	12	84	6.0	5.7	5.2	5.0	6.5	6.9	194	150	46	13
7	11	85	6.0	5.7	5.2	5.0	6.5	6.9	190	149	44	13
8	11	85	6.0	5.7	5.2	5.0	6.5	6.9	186	143	44	13
9	10	84	5.9	5.7	5.2	5.0	6.5	6.9	185	122	44	13
10	10	89	5.7	5.4	5.2	5.1	6.5	7.0	193	88	44	13
11	9.9	104	5.7	5.4	5.2	5.2	6.5	7.2	212	75	43	13
12	9.9	112	5.7	5.4	5.3	5.2	6.5	7.5	205	76	42	13
13	9.5	111	5.7	5.4	5.3	6.0	6.5	7.6	213	77	42	13
14	9.5	111	5.7	5.4	5.2	6.0	6.5	8.3	217	79	42	12
15	9.5	110	5.7	5.4	5.2	5.7	6.5	10	209	80	42	12
16	9.2	109	5.7	5.4	5.0	5.4	6.5	11	201	81	42	13
17	9.1	108	5.7	5.4	5.0	5.4	6.5	13	202	81	41	13
18	9.0	109	5.7	5.4	4.9	5.4	6.5	14	197	79	41	13
19	8.8	108	5.7	5.3	5.0	5.4	6.6	17	186	77	41	13
20	8.8	107	5.8	5.2	5.0	5.4	6.8	19	177	75	40	13
21	8.8	107	5.9	5.2	5.0	5.4	6.8	24	169	73	40	13
22	8.8	106	6.0	5.2	5.0	5.7	6.8	52	167	61	40	13
23	10	105	6.0	5.2	5.0	5.7	6.8	124	170	55	40	13
24	17	104	6.0	5.3	5.0	5.7	6.8	188	171	54	40	13
25	56	103	6.0	5.2	5.0	5.7	6.5	207	170	54	39	13
26	124	102	6.0	5.4	4.9	5.7	6.8	209	170	51	39	13
27	102	102	6.0	5.2	5.1	5.7	6.8	209	166	51	39	13
28	83	101	6.0	5.2	5.0	5.8	6.8	219	161	49	39	13
29	67	101	6.0	5.2	---	5.8	6.8	240	157	48	39	13
30	65	100	6.0	5.2	---	6.0	6.8	247	153	48	39	13
31	69	---	6.0	5.2	---	6.2	---	244	---	47	39	---
TOTAL	815.8	2873	325.6	169.2	143.1	168.5	196.9	2146.2	5648	2764	1306	496
MEAN	26.3	95.8	10.5	5.46	5.11	5.44	6.56	69.2	188	89.2	42.1	16.5
MAX	124	112	99	6.0	5.3	6.2	6.8	247	221	152	47	38
MIN	8.8	53	5.7	5.2	4.9	4.9	6.2	6.8	153	47	39	12
AC-FT	1620	5700	646	336	284	334	391	4260	11200	5480	2590	984
CAL YR 1982	TOTAL	16870.7	MEAN	46.2	MAX	167	MIN	5.7	AC-FT	33460		
WTR YR 1983	TOTAL	17052.3	MEAN	46.7	MAX	247	MIN	4.9	AC-FT	33820		

PYRAMID AND WINNEMUCCA LAKES BASIN

223

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°25'54", long 120°14'13", in NE 1/4 NE 1/4 sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank 2.2 mi upstream from bridge on State Highway 89, and 7.5 mi north of Truckee.

DRAINAGE AREA.--10.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft, from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

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

AVERAGE DISCHARGE.--30 years, 13.0 ft³/s, 9,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s Feb. 1, 1963, gage height, 4.64 ft from floodmarks, from rating curve extended above 160 ft³/s on basis of slope-area measurement at gage height 4.28 ft; minimum, 0.6 ft³/s Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0115	119	3.14	May 29	1845	*270	4.13
Mar. 13	1430	88	2.98				

Minimum daily, 4.4 ft³/s Oct. 18, 19.

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	6.4	11	7.7	6.9	5.9	10	22	19	183	75	15	10
2	5.8	9.6	7.3	6.8	5.9	9.2	20	19	163	72	15	8.7
3	5.3	8.8	7.2	6.8	5.9	8.8	18	23	167	66	15	8.2
4	5.0	8.2	7.2	6.5	5.8	8.3	17	27	177	64	14	7.9
5	4.9	7.9	7.2	6.5	5.9	8.1	15	26	171	64	13	7.7
6	4.9	7.6	7.1	6.5	5.8	8.0	15	24	178	64	13	7.5
7	5.9	7.3	6.9	6.4	5.8	8.4	15	28	180	60	13	7.2
8	5.3	7.2	6.7	6.4	5.9	9.4	16	31	173	54	13	7.0
9	5.0	7.2	6.8	6.3	5.9	11	17	32	174	49	12	7.0
10	4.8	7.1	6.7	6.2	5.9	13	17	31	188	44	12	7.0
11	4.7	6.9	6.4	6.1	5.9	14	15	31	206	41	12	6.9
12	4.7	6.7	6.4	6.1	8.1	14	14	35	184	39	11	6.7
13	4.7	6.5	6.4	6.0	9.6	72	14	40	170	37	11	6.6
14	4.8	6.2	6.2	5.9	7.9	52	13	47	157	36	11	6.5
15	4.9	6.2	6.2	6.0	7.4	36	14	62	151	35	15	6.4
16	4.6	6.1	6.2	6.1	7.1	30	15	67	144	32	13	6.3
17	4.5	7.0	6.4	5.9	7.2	26	17	70	147	30	12	6.2
18	4.4	18	6.2	6.1	7.6	22	18	79	137	28	11	6.2
19	4.4	14	6.2	6.0	7.1	20	21	94	123	27	14	6.1
20	4.5	10	8.2	5.9	6.9	19	22	105	116	26	12	6.2
21	4.9	9.3	12	5.9	6.8	17	24	120	111	24	12	6.2
22	6.4	8.8	8.9	6.2	7.0	16	28	128	112	23	13	9.9
23	16	8.3	8.3	6.1	7.4	15	27	136	112	22	11	9.6
24	19	8.0	8.1	6.3	7.7	14	23	142	106	21	10	7.8
25	46	7.6	8.1	6.6	7.8	13	20	146	101	20	9.5	7.2
26	56	7.4	7.6	6.6	7.5	13	19	152	96	19	9.0	7.0
27	18	7.4	7.4	6.6	7.4	12	19	160	91	19	8.6	7.0
28	13	8.2	7.1	6.2	7.8	12	19	166	85	18	8.4	7.7
29	12	8.2	7.0	6.3	---	12	19	189	81	17	8.1	10
30	21	8.0	7.0	6.1	---	15	20	197	76	17	7.9	12
31	13	---	6.9	6.0	---	29	---	192	---	16	9.8	---
TOTAL	324.8	250.7	224.0	194.3	192.9	567.2	553	2618	4260	1159	364.3	226.7
MEAN	10.5	8.36	7.23	6.27	6.89	18.3	18.4	84.5	142	37.4	11.8	7.56
MAX	56	18	12	6.9	9.6	72	28	197	206	75	15	12
MIN	4.4	6.1	6.2	5.9	5.8	8.0	13	19	76	16	7.9	6.1
AC-FT	644	497	444	385	383	1130	1100	5190	8450	2300	723	450
CAL YR 1982	TOTAL	9434.6	MEAN	25.8	MAX	223	MIN	3.7	AC-FT	18710		
WTR YR 1983	TOTAL	10934.9	MEAN	30.0	MAX	206	MIN	4.4	AC-FT	21690		

PYRAMID AND WINNEMUCCA LAKES BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

SEDIMENT RECORDS: Water years 1981 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
04...	1250	5.1	8.0	1	.01
11...	0900	4.9	3.0	1	.01
18...	0900	4.3	2.5	2	.02
25...	1515	36	7.0	7	.68
NOV					
01...	0850	11	1.5	2	.06
08...	0855	7.3	0.5	2	.04
15...	0940	5.9	--	2	.03
24...	1445	8.0	2.0	5	.11
29...	1500	8.5	0.0	1	.02
DEC					
06...	1020	6.8	0.5	1	.02
13...	1100	6.4	0.0	1	.02
20...	0910	6.2	1.0	2	.03
27...	1135	7.3	0.5	2	.04
JAN					
03...	1335	6.8	0.0	4	.07
10...	1445	6.2	1.0	13	.22
14...	0805	5.9	0.0	2	.03
17...	1210	5.9	2.0	2	.03
27...	1540	6.6	0.5	2	.04
31...	1030	6.4	0.0	10	.17
FEB					
07...	1320	5.9	2.0	3	.05
21...	1300	6.6	2.0	1	.02
28...	0930	7.1	1.0	2	.04
MAR					
07...	1140	8.0	2.0	2	.04
14...	1020	51	0.0	9	1.2
28...	1520	11	2.0	2	.06
APR					
04...	0950	17	1.0	1	.05
12...	1545	15	1.0	1	.04
21...	1210	22	2.0	1	.06
25...	1120	20	2.0	0	0.0
MAY					
02...	0650	18	1.0	1	.05
09...	0830	30	0.0	2	.16
16...	0700	60	0.5	5	.81
17...	1515	77	3.0	11	2.3
18...	1600	95	2.0	22	5.6
19...	1700	119	1.0	29	9.3
22...	1615	143	1.5	43	17
23...	1615	149	1.5	58	23
24...	1640	153	2.0	39	16
25...	1620	155	2.5	45	19
26...	1535	153	3.5	45	19
27...	1600	175	3.0	51	24
28...	1625	198	4.0	24	13
30...	0930	153	3.0	8	3.3
31...	1000	180	3.0	5	2.4

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN					
01...	0930	177	--	5	2.4
02...	1030	151	3.0	2	.82
03...	1000	141	4.0	2	.76
04...	1000	160	5.0	3	1.3
05...	0730	145	2.5	4	1.6
06...	0915	151	4.0	3	1.2
07...	0900	160	3.0	3	1.3
08...	0850	155	3.0	3	1.3
09...	0845	145	3.0	3	1.2
10...	0915	155	4.0	3	1.3
11...	0915	195	4.0	6	3.2
12...	0900	177	3.0	4	1.9
13...	0840	160	4.0	4	1.7
14...	0805	139	4.0	3	1.1
20...	1530	117	11.0	5	1.6
27...	1500	89	13.0	7	1.7
JUL					
04...	0815	63	7.0	9	1.5
11...	1400	39	4.0	4	.42
22...	0800	24	--	3	.19
25...	1000	21	9.0	3	.17
AUG					
08...	1040	14	13.0	4	.15
26...	0815	9.7	7.0	4	.10
29...	1315	8.0	13.5	2	.04
SEP					
09...	1200	7.3	10.0	3	.06
13...	1230	6.8	12.5	2	.04
19...	1440	5.9	11.5	2	.03
27...	1150	7.3	8.0	2	.04

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
MAY										
29...	1845	221	3.0	40	24	82	87	92	97	100

PYRAMID AND WINNEMUCCA LAKES BASIN

10344300 STAMPEDE RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°28'16", long 120°06'10", in NW 1/4 NW 1/4 sec.28, T.19 N., R.17 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, in control house near base of spillway of Stampede Dam on Little Truckee River, 0.2 mi upstream from Worn Mill Canyon, and 11.0 mi northeast of Truckee.

DRAINAGE AREA.--136 mi².

PERIOD OF RECORD.--August 1969 to current year. August 1969 to September 1977 (monthend elevations and contents only). Prior to October 1976, published as "near Boca."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft at elevation 5,948.7 ft, spillway crest. Inactive storage, 5,010 acre-ft, includes 660 acre-ft dead storage below elevation 5,798.3 ft. Figures given herein, including extremes, represent total contents at 0800 hours. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 254,493 acre-ft June 1, 1983, elevation, 5,956.55 ft; minimum since reservoir first filled, 30,772 acre-ft Jan. 31, Feb. 1, 1978, elevation, 5,853.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 254,493 acre-ft June 1, elevation, 5,956.55 ft; minimum, 184,417 acre-ft Oct. 13, elevation, 5,935.77 ft.

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

5,850	27,915	5,900	94,535
5,855	31,951	5,910	115,865
5,860	36,470	5,920	140,141
5,865	41,505	5,930	167,355
5,870	47,204	5,940	197,630
5,875	53,295	5,950	231,005
5,880	60,185	5,960	267,386
5,890	76,008		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184570	192191	204890	210642	201685	202589	202944	227879	254493	239567	192782	193034
2	184590	193506	205232	210854	201750	202750	203690	228710	254272	238963	193113	193128
3	184610	193821	205574	211066	201879	202767	204436	229858	253425	238359	193443	193254
4	184631	194137	205726	211278	202008	202783	205183	231005	253168	237755	193695	193380
5	184631	194453	205878	211489	202159	202729	205689	232054	252707	236712	193947	193506
6	184631	194738	206031	211489	202310	202675	206194	233103	252287	235669	194253	193601
7	184570	195023	206162	211489	202460	202621	206717	232636	251847	233686	194559	193695
8	184509	195307	206292	211621	202638	202556	207240	232169	251445	231703	194864	193695
9	184540	195641	206357	211257	202815	202492	207930	231703	250823	229200	193729	193695
10	184571	195974	206422	210860	202831	202525	208620	231267	250385	226697	192594	193706
11	184601	196212	206564	210381	202847	202557	209309	230831	250531	224195	190845	193717
12	184509	196450	206706	209902	202869	203443	209969	231302	250220	221844	189097	193727
13	184417	196748	206847	208636	202890	204329	210628	231773	249910	219494	189335	193774
14	184494	197046	206995	207371	202912	205216	211291	233342	249400	217005	189573	193821
15	184570	197343	207142	206957	202799	206065	211953	234911	248890	214516	189811	193821
16	184621	197687	207290	206543	202686	206913	212641	236481	248563	211785	190029	193821
17	184672	198031	207437	206129	202621	206700	213329	239105	248236	209054	190247	193821
18	184723	198926	207535	205737	202556	206488	214016	239105	247644	206324	190512	193821
19	184815	199821	207633	205346	202491	205555	214986	239550	247052	203425	190777	193821
20	184906	200271	207731	204874	202428	204622	215956	239995	246459	200527	191038	193600
21	184998	200721	208388	204403	202363	203689	217201	241032	245646	198012	191299	193380
22	185090	201170	209045	204187	202250	203884	218446	242069	244834	195497	191559	193664
23	185653	201492	209218	203971	202137	204078	219758	243107	244383	192405	191747	193947
24	186216	201814	209391	203754	202040	204598	221070	244838	243933	189438	191935	193979
25	186778	202137	209564	203381	201943	205118	222382	246568	243407	189874	192076	194011
26	188684	202137	209737	203009	202072	204403	223306	247957	242881	190264	192217	194042
27	190590	202870	209910	202734	202201	203527	224229	249346	242354	190653	192332	194121
28	191184	203280	210083	202460	202330	202524	225191	250706	241727	191059	192447	194200
29	191778	203689	210256	202137	---	201041	226153	252066	241101	191465	192562	194327
30	192327	204565	210430	202008	---	201847	226981	253425	240351	191920	193157	194453
31	192876	---	210430	201879	---	202201	---	254161	---	192374	193751	---
MAX	192876	204565	210430	211621	202912	206913	226981	254161	254493	239567	194864	194453
MIN	184417	192191	204890	201879	201685	201041	202944	227879	240351	189438	189097	193034
†	5938.50	5942.15	5943.94	5941.32	5941.46	5941.42	5948.84	5956.46	5952.65	5938.34	5938.46	5939.00
‡	+8245	+11689	+5865	-8551	+451	-129	+24780	+27180	-13810	-47977	+1377	+702

CAL YR 1982 ‡ +96605

WTR YR 1983 ‡ +9822

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

‡ Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

LOCATION.--Lat 39°26'09", long 120°05'00", in SW 1/4 SW 1/4 sec.3, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1 mi upstream from Boca Reservoir, 1.5 mi upstream from Dry Creek, 3.0 mi downstream from Stampede Dam, and 5.5 mi northeast of Truckee.

DRAINAGE AREA.--146 mi².

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station" June 1903 to December 1907, as "at Starr" January 1908 to October 1910, and as "near Boca" September 1939 to September 1976.

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used in 1903-7.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records excellent. Flow regulated by Independence Lake, capacity, 17,500 acre-ft, one transbasin diversion to Sierra Valley, and Stampede Reservoir (station 10344300) since 1969.

AVERAGE DISCHARGE (adjusted for change in contents in Stampede Reservoir since 1969).--51 years (water years 1904-10, 1940-83), 194 ft³/s, 140,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s Feb. 1, 1963, gage height, 9.00 ft, from rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s Sept. 16-21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft³/s Jan. 13, gage height, 3.82 ft; minimum daily, 16 ft³/s Oct. 1-22.

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	16	19	21	20	95	196	83	65	1990	1240	41	18
2	16	19	20	20	46	192	82	72	2230	1220	40	18
3	16	19	20	20	45	188	77	91	2230	1190	40	18
4	16	18	19	20	47	213	72	137	2190	1160	40	18
5	16	18	19	27	45	231	68	156	2140	1540	40	18
6	16	18	20	42	46	232	67	541	2040	1940	40	17
7	16	18	20	80	77	233	59	1020	1980	1740	40	17
8	16	18	22	187	96	236	49	999	1940	1970	41	17
9	16	18	21	279	95	240	56	926	1890	1900	962	17
10	16	18	20	304	94	245	54	990	1820	1850	1690	17
11	16	18	19	304	139	250	47	910	1880	1690	853	17
12	16	18	19	663	174	252	44	687	1860	1900	44	17
13	16	18	19	783	179	399	42	121	1810	1860	42	17
14	16	18	19	315	175	299	42	154	1780	1840	41	17
15	16	18	19	304	173	264	45	212	1750	1830	42	17
16	16	18	18	304	173	429	52	289	1730	1820	32	17
17	16	18	20	304	174	656	54	604	1700	1810	19	18
18	16	30	20	305	178	739	58	1390	1670	1850	18	18
19	16	26	20	304	175	874	65	1430	1650	1860	19	18
20	16	22	21	304	173	872	75	1410	1600	1500	18	18
21	16	20	33	303	173	587	75	1450	1550	1860	18	18
22	16	21	32	305	173	100	80	1510	1500	1850	19	19
23	18	20	30	304	176	92	77	1570	1470	1850	18	19
24	19	19	25	309	177	91	68	1610	1460	760	18	19
25	30	19	24	304	180	400	62	1590	1430	46	19	18
26	36	19	23	306	178	652	54	1780	1400	43	18	20
27	22	19	22	308	177	760	54	1860	1370	43	17	19
28	20	21	22	304	180	862	60	1940	1340	42	17	19
29	20	22	21	230	---	454	64	2000	1310	42	18	19
30	21	23	21	164	---	72	62	2080	1270	41	18	20
31	20	---	20	163	---	92	---	2170	---	40	18	---
TOTAL	558	590	669	7889	3813	11402	1847	31764	51980	40327	4300	539
MEAN	18.0	19.7	21.6	254	136	368	61.6	1025	1733	1301	139	18.0
MAX	36	30	33	783	180	874	83	2170	2230	1970	1690	20
MIN	16	18	18	20	45	72	42	65	1270	40	17	17
AC-FT	1110	1170	1330	15650	7560	22620	3660	63000	103100	79990	8530	1070

CAL YR 1982 TOTAL 78889 MEAN 216 MAX 2460 MIN 16 AC-FT 156500 MEAN a 350 AC-FT a 253100
WTR YR 1983 TOTAL 155678 MEAN 427 MAX 2230 MIN 16 AC-FT 308800 MEAN a 440 AC-FT a 318600

a Adjusted for change in contents in Stampede Reservoir.

PYRAMID AND WINNEMUCCA LAKES BASIN

10344490 BOCA RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'20", long 120°05'43", in NE 1/4 NW 1/4 sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Boca Dam on Little Truckee River 1,800 ft upstream from mouth, and 6.3 mi northeast of Truckee.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--December 1938 to current year. Prior to October 1976 published as "at Boca." Monthend contents only for December 1938 to September 1957, published in WSP 1734.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Pressure gage with mercury column read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft between elevations 5,521 ft outlet sill, and 5,605 ft top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft. Dead storage, 241 acre-ft. Figures given herein represent usable contents at 0800 hours. Water is used for irrigation in the State of Nevada and for power development.

COOPERATION.--Records furnished by Bureau of Reclamation, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 41,440 acre-ft Dec. 23, 1955, elevation, 5,605.55 ft; minimum, 37 acre-ft Mar. 4-9, 1955, elevation, 5,521.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,868 acre-ft July 17, 19, 20, elevation, 5,605.00 ft; minimum, 5,863 acre-ft May 6, elevation, 5,552.65 ft.

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

5,548	4,352	5,576	17,359
5,552	5,636	5,580	20,002
5,556	7,112	5,585	23,589
5,560	8,778	5,590	27,488
5,564	10,627	5,595	31,699
5,568	12,671	5,600	36,128
5,572	14,915	5,605	40,868

CONTENTS, IN ACRE-Feet, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33556	24420	25499	18655	25694	24306	27732	9912	31177	28718	40381	39945
2	33335	24382	25538	18524	25734	24306	27732	8911	31004	28635	40381	39945
3	33070	24344	25577	18458	25773	24306	27569	7963	30660	28553	40332	39993
4	32763	24344	25499	18372	25812	24306	27488	7230	30531	28470	40332	39993
5	32457	24306	25499	18294	25891	24306	26843	6499	30403	28387	40332	40042
6	32196	24268	25499	18196	25969	24344	26364	5863	30317	29386	40332	40042
7	31936	24192	25460	18131	26088	24382	26285	6499	30317	30275	40332	40090
8	31699	24116	25460	18196	26285	24496	26206	7511	30275	30703	40332	40090
9	31394	24116	25111	18458	26364	24572	26206	8430	30147	31264	39080	40090
10	31004	24116	24841	18821	26444	24726	26206	9225	30062	31699	39512	40042
11	30660	24154	24496	19255	26523	24956	26206	10006	29977	31936	39945	39993
12	30232	24192	24116	19729	26563	25188	25655	10627	29977	32982	39800	39897
13	29935	24230	23814	20209	26484	25969	25227	10290	29977	34762	39800	39800
14	29512	24268	23216	22189	26404	28058	24726	9451	29977	36312	39849	39416
15	29302	24344	22773	22626	26246	28718	24268	8647	29892	38084	39945	39080
16	28635	24344	22298	23068	26127	28718	23589	8005	29850	39704	40042	38699
17	27977	24382	21685	23439	25969	28635	22847	7551	29808	40868	40090	38272
18	27326	24572	21187	23965	25812	28635	22189	8131	29723	40819	40090	37801
19	26843	24879	20695	24420	25655	28718	21471	9497	29639	40868	40090	37426
20	26285	24956	20209	24879	25499	28885	20835	10822	29554	40868	40139	37193
21	25812	25034	19934	25227	25305	28968	20002	12194	29512	40673	40139	36913
22	25460	25111	19729	25655	25188	28058	19255	13656	29386	40624	40139	36774
23	25111	25188	19900	26048	24956	28058	18327	15032	29344	40429	40139	36682
24	24802	25266	19900	26763	24802	27732	17359	16791	29260	40527	40139	36497
25	24611	25266	19866	26603	24649	27407	16234	18327	29218	40527	39849	36312
26	24649	25266	19831	26523	24534	27407	15032	20071	29135	40527	39849	36128
27	24649	25266	19763	26444	24420	27936	13937	21828	29051	40478	39849	35944
28	24496	25266	19661	26206	24306	28223	12832	23965	28968	40478	39849	35899
29	24496	25343	19525	26206	---	28553	11881	26048	28885	40478	39848	35899
30	24496	25499	19255	26088	---	27813	10921	28058	28801	40429	39897	35442
31	24496	---	18988	25891	---	27813	---	29977	---	40429	39945	---
MAX	33556	25499	25577	26763	26563	28968	27732	29977	31177	40868	40381	40090
MIN	24496	24116	18988	18131	24306	24306	10921	5863	28801	28387	39080	35442
†	5586.20	5587.50	5578.50	5588.00	5585.95	5590.40	5564.60	5593.00	5591.60	5604.55	5604.05	5599.25
‡	-9460	+1003	-6511	+6903	-1585	+3507	-16892	+19056	-1176	+11628	-484	-4503

CAL YR 1982 † -13513

WTR YR 1983 † +1486

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

‡ Change in contents, in acre-feet.

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'13", long 120°05'40", in NE 1/4 NW 1/4 sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank 800 ft upstream from mouth, 1,000 ft downstream from Boca Dam, and 6.2 mi northeast of Truckee.

DRAINAGE AREA.--173 mi².

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Prior to October 1976 published as "at Boca." Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft, from topographic map. Jan. 1, 1911, to Sept. 30, 1915, nonrecording gage at site 650 ft downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good. Flow regulated by Boca Reservoir (station 10344490), capacity, 40,870 acre-ft, Independence Lake, capacity, 17,500 acre-ft, one transmountain diversion to Sierra Valley, and Stampede Reservoir (station 10344300), capacity, 226,500 acre-ft since 1969.

AVERAGE DISCHARGE (unadjusted).--48 years (water years 1912-15, 1940-83), 189 ft³/s, 136,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,520 ft³/s July 17, gage height, 6.11 ft; minimum daily, 0.63 ft³/s Nov. 9-17.

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	176	47	33	131	131	316	284	720	1880	1370	51	2.9
2	144	47	33	88	33	316	274	707	2240	1340	45	2.9
3	144	47	42	88	38	316	258	692	2140	1310	39	2.9
4	144	47	58	88	39	317	370	680	2070	1280	36	2.7
5	144	47	61	88	39	318	437	668	2030	1290	36	2.6
6	144	47	66	88	39	319	322	658	2010	1470	35	2.7
7	144	47	90	89	68	319	197	674	1990	1560	35	2.6
8	164	23	117	89	83	321	197	692	1960	1630	377	2.6
9	195	.63	140	89	83	322	197	706	1940	1690	1200	16
10	195	.63	164	89	85	324	197	720	1900	1730	1430	49
11	194	.63	185	91	164	325	293	731	1890	1390	779	49
12	194	.63	220	92	276	327	394	739	1890	977	151	74
13	193	.63	275	94	319	155	393	732	1880	991	4.5	132
14	193	.63	295	95	318	164	391	721	1850	1000	4.3	176
15	290	.63	294	96	318	404	468	711	1830	1010	4.2	197
16	338	.63	292	96	317	655	540	700	1800	1020	3.6	197
17	336	.63	291	97	316	853	537	693	1780	1660	7.5	195
18	304	.96	290	98	317	836	568	708	1760	1910	3.4	195
19	275	.76	288	98	316	889	594	728	1740	1890	3.4	167
20	248	.71	288	99	316	923	638	745	1710	1650	3.3	98
21	228	.66	288	99	316	910	680	762	1680	1930	3.0	98
22	204	.70	159	100	315	448	743	777	1630	1920	3.0	98
23	183	.66	88	100	315	309	802	791	1590	1850	3.0	98
24	183	16	88	307	314	367	795	807	1570	732	111	98
25	132	32	88	437	314	447	786	820	1550	74	78	98
26	101	32	88	436	315	548	774	834	1520	63	2.9	98
27	103	33	88	435	315	634	764	847	1500	62	2.9	98
28	59	33	88	369	315	731	754	862	1470	62	2.8	98
29	32	33	139	304	---	757	743	876	1440	62	2.8	98
30	42	33	186	304	---	420	731	982	1400	62	2.8	166
31	45	---	186	304	---	295	---	1320	---	62	3.0	---
TOTAL	5471	574.12	5008	5078	6134	14585	15121	23803	53640	35047	4463.4	2614.9
MEAN	176	19.1	162	164	219	470	504	768	1788	1131	144	87.2
MAX	338	47	295	437	319	923	802	1320	2240	1930	1430	197
MIN	32	.63	33	88	33	155	197	658	1400	62	2.8	2.6
AC-FT	10850	1140	9930	10070	12170	28930	29990	47210	106400	69520	8850	5190
CAL YR 1982	TOTAL	95519.42	MEAN	262	MAX	2030	MIN	.63	AC-FT	189500		
WTR YR 1983	TOTAL	171539.42	MEAN	470	MAX	2240	MIN	.63	AC-FT	340200		

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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, and at mile 81.89 upstream from Marble Bluff Dam.

DRAINAGE AREA.--932 mi².

PERIOD 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 August 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" 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.--84 years (1900-1983), 811 ft³/s, 587,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s Nov. 21, 1950, gage height, 14.5 ft, present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft³/s Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,500 ft³/s June 17, gage height, 8.71 ft; minimum daily, 409 ft³/s Oct. 27.

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	733	1490	2170	2130	2070	2740	2980	3410	5620	3060	1050	895
2	683	1530	2140	2050	2050	2720	3030	3350	5800	3210	1050	842
3	673	1550	2160	2020	2040	2600	2940	3390	5900	3010	1030	821
4	699	1640	2180	1600	2000	2530	2950	3480	6110	2960	1010	819
5	736	1960	2170	1230	1960	2500	2940	3440	5960	3110	995	814
6	784	2130	2170	943	1960	2510	2760	3210	5930	4000	987	806
7	823	2120	2180	928	2050	2540	2580	2930	6070	4250	996	980
8	833	2040	2190	926	2140	2580	2620	3020	6120	4140	1230	1160
9	868	1960	2200	921	2080	2730	2670	3060	6150	4060	2050	1290
10	852	1950	2210	929	2100	2780	2660	3110	6040	4010	2310	1440
11	837	1930	2220	940	2160	2880	2740	3050	5970	3710	1760	1440
12	831	1930	2250	691	2330	2900	2870	3100	5640	3330	1090	1590
13	838	1930	2310	629	2580	4490	2860	3160	5620	3540	914	1780
14	833	1930	2310	642	2460	3140	2830	3260	5780	3560	915	2030
15	865	1930	2290	665	2410	3760	2890	3460	5820	3520	965	2270
16	691	1850	2220	671	2360	3900	3000	3610	5750	3420	941	2140
17	497	1470	2280	667	2340	4110	3030	3290	5830	3940	923	2030
18	468	1420	2280	675	2380	3980	3070	3730	6040	3940	906	1990
19	425	1290	2260	696	2340	3910	3180	4270	5630	3560	930	1820
20	424	1770	2300	678	2320	3890	3380	4110	5200	3040	917	1670
21	409	2080	2770	674	2280	3710	3480	4270	4770	3290	905	2010
22	422	2130	2650	875	2260	3090	3650	4620	4440	3260	924	1780
23	573	2160	2600	870	2270	2810	3770	4770	4420	2920	891	1760
24	697	2130	2490	1190	2290	2810	3670	4640	4280	1950	909	1690
25	1190	2120	2480	1320	2340	2830	3620	4830	3950	1170	900	1640
26	2020	2090	2440	1780	2360	2880	3560	5220	3650	1120	847	1580
27	1260	2090	2400	2040	2350	2960	3490	5270	3500	1110	847	1600
28	1170	2160	2370	2390	2400	3010	3510	5190	3370	1100	840	1480
29	990	2220	2300	2430	---	3020	3520	5360	3580	1090	827	1180
30	1160	2210	2230	2390	---	2760	3470	5340	3470	1080	809	1110
31	1220	---	2210	2200	---	3070	---	5530	---	1080	818	---
TOTAL	25504	57210	71430	38790	62680	96140	93720	122480	156410	90540	32486	44457
MEAN	823	1907	2304	1251	2239	3101	3124	3951	5214	2921	1048	1482
MAX	2020	2220	2770	2430	2580	4490	3770	5530	6150	4250	2310	2270
MIN	409	1290	2140	629	1960	2500	2580	2930	3370	1080	809	806
AC-FT	50590	113500	141700	76940	124300	190700	185900	242900	310200	179600	64440	88180

CAL YR 1982	TOTAL	577428	MEAN	1582	MAX	4900	MIN	372	AC-FT	1145000
WTR YR 1983	TOTAL	891847	MEAN	2443	MAX	6150	MIN	409	AC-FT	1769000

PYRAMID AND WINNEMUCCA LAKES BASIN

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10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'53", long 119°47'07", in NW¼ sec.7, T.19 N., 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, 5 mi upstream from Steamboat Creek, and at mile 59.07 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 mi².

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 datums.

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.--57 years (1906-21, 1925-26, 1930-34, 1946-83), 698 ft³/s, 505,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft³/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, 7,230 ft³/s Mar. 13, gage height, 9.28 ft; minimum, 236 ft³/s Oct. 21.

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	673	1360	2260	2170	2300	2910	3090	3270	5380	2710	770	703
2	587	1490	2210	2080	2130	2850	3130	3190	5590	2750	757	669
3	574	1510	2240	2080	2120	2690	3000	3200	5640	2700	744	630
4	571	1530	2260	1780	2080	2580	2970	3270	5910	2560	715	622
5	627	1790	2230	1340	2040	2530	2980	3220	5710	2570	696	614
6	646	2030	2220	1050	2040	2540	2830	3070	5590	3310	686	602
7	691	2050	2220	1010	2290	2560	2600	2740	5680	3700	709	672
8	704	1990	2240	1010	2370	2620	2630	2820	5850	3590	805	987
9	769	1900	2230	1000	2180	2750	2680	2860	5800	3500	1620	1070
10	751	1890	2240	998	2190	2850	2690	2900	5770	3440	1940	1290
11	731	1870	2240	1010	2230	2940	2700	2790	5660	3260	1670	1300
12	720	1860	2260	836	2440	2940	2850	2820	5370	2830	942	1360
13	725	1850	2330	705	2960	5510	2840	2870	5190	3020	692	1580
14	706	1870	2330	702	2590	3550	2800	2930	5460	3000	681	1730
15	731	1860	2310	742	2520	3790	2810	3110	5560	2980	765	2020
16	686	1850	2250	753	2450	3830	2920	3300	5470	2960	759	1970
17	397	1550	2340	748	2420	4110	2980	3010	5420	3270	721	1840
18	380	1830	2320	743	2510	4020	3030	3290	5700	3640	706	1800
19	341	1550	2300	789	2420	3930	3110	3860	5370	3120	756	1710
20	327	1700	2370	757	2390	3910	3340	3770	4890	2670	740	1470
21	315	2080	3800	738	2360	3780	3450	3870	4420	2800	756	1760
22	311	2180	3420	931	2320	3240	3490	4240	4010	2780	767	1590
23	358	2190	2950	981	2340	2890	3640	4480	3950	2630	731	1610
24	605	2160	2610	1700	2360	2890	3580	4410	3870	1880	695	1550
25	969	2140	2560	1460	2430	2880	3500	4530	3560	912	727	1480
26	2290	2110	2510	1870	2450	2900	3420	4970	3260	833	614	1430
27	1300	2100	2460	2290	2450	2980	3310	5040	3150	849	627	1430
28	1210	2170	2410	2450	2510	3020	3360	5030	2990	836	624	1420
29	1060	2330	2330	2510	---	3050	3470	5100	3140	813	616	1130
30	1120	2330	2260	2460	---	2870	3350	5200	3130	794	590	1010
31	1220	---	2230	2430	---	3300	---	5310	---	803	589	---
TOTAL	23095	57120	74940	42123	65890	99210	92550	114470	146490	77510	25210	39049
MEAN	745	1904	2417	1359	2353	3200	3085	3693	4883	2500	813	1302
MAX	2290	2330	3800	2510	2960	5510	3640	5310	5910	3700	1940	2020
MIN	311	1360	2210	702	2040	2530	2600	2740	2990	794	589	602
AC-FT	45810	113300	148600	83550	130700	196800	183600	227100	290600	153700	50000	77450

CAL YR 1982 TOTAL 561452 MEAN 1538 MAX 6550 MIN 195 AC-FT 1114000
WTR YR 1983 TOTAL 857657 MEAN 2350 MAX 5910 MIN 311 AC-FT 1701000

PYRAMID AND WINNEMUCCA LAKES BASIN
10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in SW 1/4, NE 1/4 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 mi², 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.--6 years, 899 ft³/s, 651,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s Jan. 14, 1980, gage height, 12.03 ft, maximum gage height 12.23 ft Dec. 20, 1981; minimum, 2.0 ft³/s, Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,340 ft³/s Mar. 13, gage height, 10.90 ft; minimum daily, 289 ft³/s, Oct. 22.

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	643	1370	2250	2100	2250	2990	3040	3270	5830	2790	777	627
2	557	1520	2200	2110	2130	2940	3110	3190	5870	2870	773	584
3	545	1530	2240	1800	2130	2780	2980	3190	6090	2730	772	531
4	540	1550	2260	1360	2090	2650	2940	3290	5900	2630	724	515
5	603	1800	2230	1050	2050	2600	2960	3260	5770	2680	699	506
6	618	2060	2220	1020	2050	2620	2840	3040	5880	3400	688	492
7	663	2070	2210	1020	2280	2640	2590	2780	5780	3860	706	546
8	675	2020	2230	1020	2400	2720	2640	2880	5960	3710	770	858
9	742	1930	2230	1010	2220	2840	2690	2900	5950	3620	1680	940
10	727	1920	2240	1010	2200	2940	2720	2970	5920	3550	2100	1160
11	711	1900	2250	1030	2240	3030	2730	2860	5770	3400	1830	1160
12	699	1890	2280	867	2450	3030	2900	2900	5490	2870	969	1230
13	709	1880	2340	702	3030	5820	2920	2970	5350	3120	677	1450
14	683	1900	2340	686	2630	3730	2870	3050	5580	3140	659	1610
15	711	1890	2350	723	2540	3960	2860	3270	5640	3150	745	1920
16	683	1860	2310	723	2480	3890	2960	3410	5570	3060	737	1860
17	371	1560	2380	731	2450	4090	3020	3110	5580	3390	686	1720
18	353	1050	2350	725	2560	3860	3020	3510	5850	3750	677	1680
19	316	1540	2320	779	2460	3760	3130	4030	5480	3230	720	1580
20	302	1710	2440	742	2430	3740	3350	3940	5040	2720	721	1360
21	293	2080	3910	721	2410	3640	3480	4130	4580	2950	735	1680
22	289	2160	3480	996	2350	3100	3500	4490	4170	2950	742	1510
23	338	2180	2970	1110	2380	2740	3690	4700	4140	2690	710	1530
24	587	2150	2620	1770	2400	2750	3620	4640	4020	2000	653	1480
25	994	2130	2410	1510	2460	2740	3520	4720	3740	928	687	1400
26	2310	2120	2530	2140	2510	2770	3450	5160	3400	835	558	1360
27	1300	2100	2480	2290	2520	2840	3340	5210	3260	860	558	1350
28	1200	2190	2430	2500	2570	2910	3380	5220	3090	850	559	1340
29	1050	2330	2330	2520	---	2950	3490	5340	3240	816	549	1060
30	1120	2330	1910	2480	---	2810	3380	5420	3220	794	513	938
31	1240	---	2090	2440	---	3250	---	5470	---	810	495	---
TOTAL	22572	57520	74830	41685	66670	99130	93120	118320	151160	80153	24869	35977
MEAN	728	1917	2414	1345	2381	3198	3104	3817	5039	2586	802	1199
MAX	2310	2330	3910	2520	3030	5820	3690	5470	6090	3860	2100	1920
MIN	289	1370	1910	686	2050	2600	2590	2780	3090	794	495	492
AC-FT	44770	114100	148400	82680	132200	196600	184700	234700	299800	159000	49330	71360
CAL YR 1982	TOTAL	540435	MEAN	1481	MAX	6680	MIN	133	AC-FT	1072000		
WTR YR 1983	TOTAL	866006	MEAN	2373	MAX	6090	MIN	289	AC-FT	1718000		

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 mi².

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 Oct. 1 to Nov. 16 and Mar. 11 to May 26. 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.--9 years (1975-83) 3.56 ft³/s, 2,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft³/s April 12, 1982, gage height, 2.60 ft; maximum gage height, 3.68 ft, backwater from ice or snowblock; minimum discharge, 0.48 ft³/s Sept. 9-11, 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft³/s May 29, gage height, 2.58 ft; minimum daily discharge, 2.7 ft³/s Dec. 11, 28-31, Jan. 4, 7-12.

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	3.5	3.3	3.8	2.8	3.2	3.6	5.4	5.8	27	19	7.9	7.2
2	3.3	3.2	3.1	2.8	3.1	3.4	5.0	6.2	30	21	7.8	7.0
3	3.1	3.1	3.1	2.8	3.1	3.2	4.6	7.2	16	18	7.6	6.4
4	3.0	3.0	2.9	2.7	3.1	3.2	4.4	8.0	28	16	7.6	5.7
5	2.9	3.0	2.9	2.8	3.1	3.2	4.2	6.8	28	16	7.5	5.5
6	2.9	3.0	2.9	2.8	3.2	3.2	4.1	6.8	28	15	7.6	5.3
7	3.3	3.0	2.9	2.7	4.5	3.4	4.0	7.4	26	14	7.1	5.1
8	3.2	3.2	2.9	2.7	3.9	3.4	4.2	8.0	32	13	7.4	5.0
9	3.0	3.1	2.9	2.7	3.4	3.6	4.5	6.8	41	13	7.0	4.9
10	2.9	3.0	2.9	2.7	3.2	3.7	4.7	6.0	38	12	7.6	4.9
11	2.9	3.0	2.7	2.7	3.1	4.0	4.3	6.0	32	12	7.8	4.7
12	2.9	3.0	2.9	2.7	3.1	4.5	4.1	7.0	25	12	7.3	4.6
13	2.8	3.0	3.2	2.9	3.7	9.0	3.9	7.2	21	11	6.9	4.6
14	2.9	3.0	3.0	2.9	3.2	6.6	3.8	8.4	22	11	6.8	4.4
15	2.9	3.0	2.9	2.9	3.1	5.5	4.5	9.6	25	11	7.7	4.1
16	2.8	3.1	2.9	3.0	3.0	4.8	5.5	9.3	27	11	7.2	4.2
17	2.8	3.2	3.3	3.0	2.9	4.5	5.3	9.3	32	11	7.0	4.2
18	2.9	4.4	3.2	2.9	3.3	4.2	5.8	11	37	10	7.0	4.2
19	2.9	4.9	3.1	2.9	3.1	4.0	5.2	13	30	10	7.4	4.1
20	3.0	4.0	3.2	3.0	3.1	3.8	7.8	14	30	10	8.3	4.2
21	3.3	3.4	3.7	2.9	3.1	3.8	7.0	15	30	9.9	8.3	4.3
22	3.1	3.2	4.3	2.9	3.1	3.8	7.8	17	23	9.5	7.9	4.5
23	3.3	3.2	3.4	2.9	3.2	3.8	7.4	19	24	9.4	8.0	5.2
24	3.2	3.2	3.0	3.0	3.2	3.7	6.8	23	28	9.3	7.5	5.6
25	6.8	3.2	2.9	2.9	3.3	3.6	6.6	29	28	8.7	7.2	5.4
26	7.2	3.2	2.9	3.1	3.6	3.5	5.4	35	27	8.7	6.7	5.2
27	4.4	3.4	2.8	3.0	3.6	3.6	5.4	37	25	8.7	6.3	5.2
28	3.8	3.8	2.7	2.9	3.6	3.7	6.0	26	21	8.6	5.9	4.5
29	3.3	4.2	2.7	2.9	---	3.9	6.8	35	21	8.3	5.8	4.8
30	6.0	4.5	2.7	3.0	---	4.5	6.8	30	20	8.3	5.7	6.7
31	3.5	---	2.7	3.2	---	6.6	---	33	---	8.3	5.9	---
TOTAL	107.8	100.8	94.5	89.1	92.1	129.3	161.3	462.8	822	363.7	223.7	151.7
MEAN	3.48	3.36	3.05	2.87	3.29	4.17	5.38	14.9	27.4	11.7	7.22	5.06
MAX	7.2	4.9	4.3	3.2	4.5	9.0	7.8	37	41	21	8.3	7.2
MIN	2.8	3.0	2.7	2.7	2.9	3.2	3.8	5.8	16	8.3	5.7	4.1
AC-FT	214	200	187	177	183	256	320	918	1630	721	444	301

CAL YR 1982 TOTAL 2047.1 MEAN 5.61 MAX 44 MIN 1.5 AC-FT 4060
WTR YR 1983 TOTAL 2798.8 MEAN 7.67 MAX 41 MIN 2.7 AC-FT 5550

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 mi², including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to September 1982 (monthly observations only), October 1982 to September 1983.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1982, nonrecording gage at different site but same level. Datum of gage is National Geodetic Vertical Datum of 1929.

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 including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from 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, 5,031.51 ft Mar. 15, 1983; minimum observed, 5,021.8 ft Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude recorded, 5,031.51 ft Mar. 15; minimum recorded, 5,029.02 ft Sept. 27.

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

5,029	37,400	5,031	49,200
5,030	43,300	5,032	55,700

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.47	9.87	10.52	10.92	11.12	11.29	11.35	10.83	10.97	11.00	10.30	9.78
2	9.47	9.87	10.53	10.90	11.11	11.31	11.36	10.82	10.98	10.95	10.27	9.75
3	9.47	9.87	10.55	10.89	11.10	11.32	11.35	10.81	11.03	10.95	10.23	9.75
4	9.45	9.88	10.55	10.90	11.08	11.33	11.35	10.75	11.05	10.93	10.21	9.73
5	9.48	9.88	10.55	10.90	11.05	11.33	11.23	10.74	11.07	10.93	10.18	9.72
6	9.47	9.88	10.56	10.90	11.06	11.32	11.23	10.73	11.06	10.95	10.15	9.68
7	9.45	9.89	10.56	10.88	11.23	11.34	11.20	10.71	11.10	10.90	10.13	9.62
8	9.47	9.89	10.55	10.88	11.27	11.27	11.15	10.68	11.12	10.87	10.12	9.60
9	9.47	9.92	10.53	10.87	11.20	11.25	11.13	10.67	11.12	10.87	10.11	9.58
10	9.48	9.95	10.53	10.85	11.18	11.24	11.11	10.66	11.12	10.85	10.10	9.56
11	9.48	9.96	10.52	10.85	11.15	11.21	11.08	10.65	11.10	10.85	10.09	9.54
12	9.48	9.95	10.50	10.84	11.14	11.19	11.07	10.64	11.12	10.85	10.08	9.52
13	9.49	9.97	10.48	10.83	11.13	11.48	11.06	10.65	11.12	10.78	10.08	9.48
14	9.49	9.97	10.45	10.83	11.13	11.50	11.03	10.65	11.10	10.77	10.07	9.47
15	9.49	9.97	10.43	10.81	11.12	11.51	11.00	10.65	11.15	10.77	10.06	9.44
16	9.50	10.02	10.45	10.82	11.12	11.50	10.98	10.63	11.12	10.71	10.05	9.40
17	9.49	10.07	10.55	10.81	11.12	11.50	10.95	10.63	11.12	10.72	10.04	9.38
18	9.49	10.20	10.53	10.80	11.12	11.50	10.93	10.65	11.09	10.65	10.03	9.32
19	9.54	10.28	10.43	10.81	11.12	11.49	10.90	10.63	11.10	10.62	10.03	9.31
20	9.54	10.25	10.45	10.80	11.13	11.48	10.90	10.63	11.08	10.60	10.02	9.26
21	9.65	10.22	10.76	10.75	11.15	11.41	10.87	10.64	11.08	10.59	10.00	9.24
22	9.66	10.28	11.00	10.85	11.17	11.45	10.84	10.65	11.03	10.56	10.00	9.20
23	9.66	10.30	11.04	10.80	11.18	11.42	10.83	10.68	11.06	10.55	9.99	9.17
24	9.66	10.30	11.04	11.06	11.19	11.43	10.85	10.70	11.04	10.50	9.97	9.13
25	9.77	10.34	11.02	11.03	11.21	11.42	10.85	10.74	11.05	10.45	9.95	9.08
26	9.85	10.30	11.02	11.02	11.23	11.38	10.83	10.77	11.03	10.43	9.93	9.06
27	9.85	10.35	11.00	11.13	11.25	11.40	10.83	10.82	11.02	10.41	9.90	9.02
28	9.86	10.40	10.99	11.12	11.28	11.37	10.83	10.85	11.00	10.38	9.85	9.17
29	9.87	10.47	10.98	11.13	---	11.30	10.86	10.88	11.00	10.37	9.82	9.26
30	9.87	10.48	10.96	11.13	---	11.32	10.84	10.91	10.96	10.35	9.78	9.30
31	9.87	---	10.94	11.13	---	11.37	---	10.95	---	10.34	9.75	---
MAX	9.87	10.48	11.04	11.13	11.28	11.51	11.36	10.95	11.15	11.00	10.30	9.78
MIN	9.45	9.87	10.43	10.75	11.05	11.19	10.83	10.63	10.96	10.34	9.75	9.02
†	42530	45980	48820	50040	51020	51610	48180	48880	48940	45180	41830	39170
‡	+2770	+3450	+2840	+1220	+ 980	+ 590	-3430	+ 700	+ 60	-3760	-3350	-2660

CAL YR 1982 MAX 11.04 MIN 5.3 ‡ +30240
WTR YR 1983 MAX 11.51 MIN 9.02 ‡ - 590

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

NOTES.--Add 5,020 ft to obtain altitude, in feet NGVD, at 2400 hrs.

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 mi².

PERIOD OF RECORD.--April 1963 to September 1970, October 1982 to September 1983 (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, 5,031.3 ft Mar. 3; minimum observed, 5,029.5 ft Oct. 5.

MONTH-END ALTITUDES AND TOTAL CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,029.5	700	--
Oct. 31.	5,029.9	740	+ 40
Nov. 30.	5,030.5	790	+ 50
Dec. 31.	5,030.7	810	+ 20
CAL YR 1982	--	--	+ 400
Jan. 31.	5,030.9	840	+ 30
Feb. 28.	5,031.3	880	+ 40
Mar. 31.	5,031.2	870	- 10
Apr. 30.	5,031.0	850	- 20
May 31.	5,031.0	850	0
June 30.	5,031.0	850	0
July 31.	5,030.2	770	- 80
Aug. 31.	5,029.8	730	- 40
Sept. 30.	5,029.4	690	- 40
WTR YR 1982-83	--	--	- 10

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi², 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 poor, no gage-height record Jan. 2 to Feb. 11, stage-discharge relation indefinite May 15 to July 5. 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 in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--22 years, 9.45 ft³/s, 6,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft³/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 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0030	96	2.87	Mar. 13	0700	50	3.08
Nov. 21	0830	21	2.36	May 29	1000	*143	3.62

Minimum daily, 4.7 ft³/s, Feb. 10 (result of freezeup).

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	18	12	9.1	6.4	6.4	12	11	8.0	45	69	34	27
2	17	11	8.4	6.8	6.4	10	10	7.4	51	66	30	22
3	16	11	8.2	7.0	6.2	9.9	9.1	7.3	51	66	29	21
4	15	11	7.8	6.6	6.0	9.1	9.1	8.6	62	76	29	21
5	14	11	8.2	6.8	5.8	9.1	9.1	8.6	62	74	29	20
6	14	11	9.1	7.3	5.5	8.6	9.0	8.2	69	72	30	20
7	14	11	7.0	7.6	5.2	9.4	8.6	8.3	65	65	31	19
8	14	9.7	6.0	7.2	5.0	9.2	8.2	8.8	67	60	31	19
9	14	10	6.4	7.0	4.8	9.3	8.2	8.6	69	60	30	19
10	14	11	7.0	6.8	4.7	9.7	8.2	8.6	72	65	32	19
11	14	10	7.5	6.8	5.2	9.3	8.3	7.9	72	68	30	18
12	14	9.8	8.0	6.8	11	11	8.0	8.2	74	70	29	18
13	13	9.4	8.2	6.8	14	37	7.8	9.1	74	72	27	17
14	13	9.8	11	7.0	11	19	7.8	10	74	72	28	17
15	13	10	9.0	7.1	9.7	14	7.8	12	76	68	29	17
16	13	10	8.0	7.4	9.2	14	7.8	12	76	60	27	16
17	13	10	7.5	7.7	9.6	13	7.4	11	74	67	27	16
18	12	14	7.4	8.2	9.9	12	7.6	8.2	55	65	27	16
19	12	12	7.2	8.8	9.0	12	8.5	13	76	69	28	15
20	12	12	7.2	9.2	8.2	11	9.3	17	80	64	31	15
21	12	15	15	9.0	8.2	11	8.6	22	73	65	31	15
22	17	11	14	8.6	8.3	11	8.2	33	69	64	33	17
23	21	10	13	7.8	9.1	11	8.3	37	72	58	30	18
24	25	10	12	7.4	8.6	11	8.6	42	78	52	28	16
25	44	11	11	7.2	9.2	9.8	8.7	45	76	51	27	15
26	34	13	9.2	7.0	9.0	12	8.5	46	80	47	25	16
27	15	9.5	8.6	6.8	9.0	9.5	8.2	59	76	44	24	16
28	14	10	7.6	6.7	9.2	9.5	7.8	70	80	42	24	15
29	13	9.5	7.0	6.6	---	9.2	8.5	91	85	39	24	17
30	16	9.1	6.3	6.5	---	10	8.3	72	67	37	22	18
31	14	---	6.0	6.4	---	13	---	59	---	37	25	---
TOTAL	504	323.8	267.9	225.3	223.4	365.6	254.5	766.8	2105	1884	881	535
MEAN	16.3	10.8	8.64	7.27	7.98	11.8	8.48	24.7	70.2	60.8	28.4	17.8
MAX	44	15	15	9.2	14	37	11	91	85	76	34	27
MIN	12	9.1	6.0	6.4	4.7	8.6	7.4	7.3	45	37	22	15
AC-FT	1000	642	531	447	443	725	505	1520	4180	3740	1750	1060
CAL YR 1982	TOTAL	6975.38	MEAN 19.1	MAX 155	MIN .20	AC-FT 13840						
WTR YR 1983	TOTAL	8336.30	MEAN 22.8	MAX 91	MIN 4.7	AC-FT 16540						

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 mi².

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

AVERAGE DISCHARGE.--22 years, 18.2 ft³/s, 13,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft³/s Jan. 31, 1963, gage height, 5.44 ft, from rating curve extended above 360 ft³/s; minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 618 ft³/s Mar. 13, gage height, 4.30 ft; minimum daily, 12 ft³/s Oct. 15-21.

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	22	48	87	112	103	166	168	118	210	217	123	89
2	20	51	85	110	102	125	174	116	197	220	119	80
3	19	48	85	109	99	117	154	117	205	210	115	77
4	17	47	83	109	98	114	149	122	211	208	113	75
5	17	46	82	106	98	118	147	122	213	215	108	72
6	16	46	81	106	101	117	147	116	216	227	107	68
7	17	46	76	105	171	121	145	115	218	229	106	70
8	14	46	77	104	153	116	146	123	219	220	107	70
9	14	45	81	103	132	116	149	106	225	204	107	66
10	14	46	80	112	119	116	143	103	234	197	114	62
11	14	45	79	104	108	117	134	99	246	192	108	62
12	13	46	81	102	119	118	131	101	228	192	106	61
13	13	45	81	98	118	286	131	101	223	192	100	59
14	13	45	80	97	104	181	129	104	228	197	100	57
15	12	45	87	96	102	158	128	111	232	188	106	55
16	12	45	83	98	103	154	126	108	232	184	100	53
17	12	46	92	96	100	149	126	112	245	180	96	50
18	12	85	75	100	112	147	124	111	240	170	94	47
19	12	64	74	103	101	141	123	116	219	164	104	44
20	12	59	96	94	99	161	126	119	217	160	102	43
21	12	59	187	93	99	170	124	127	218	156	102	44
22	15	59	263	134	98	173	126	138	225	150	107	48
23	16	61	146	105	97	169	129	142	230	145	101	53
24	18	62	117	242	97	183	126	143	227	141	97	48
25	34	62	119	122	113	160	127	149	224	138	95	43
26	44	63	118	129	113	166	120	155	225	131	88	42
27	16	63	115	161	122	174	118	164	223	129	86	45
28	15	69	112	111	119	163	123	179	217	128	85	43
29	14	86	113	111	---	162	126	206	217	128	84	49
30	27	108	115	108	---	177	124	211	215	128	82	49
31	47	---	115	104	---	181	---	224	---	129	84	---
TOTAL	553	1686	3165	3484	3100	4716	4043	4078	6679	5469	3146	1724
MEAN	17.8	56.2	102	112	111	152	135	132	223	176	101	57.5
MAX	47	108	263	242	171	286	174	224	246	229	123	89
MIN	12	45	74	93	97	114	118	99	197	128	82	42
AC-FT	1100	3340	6280	6910	6150	9350	8020	8090	13250	10850	6240	3420
CAL YR 1982	TOTAL	18209.3	MEAN	49.9	MAX	263	MIN	4.4	AC-FT	36120		
WTR YR 1983	TOTAL	41843.0	MEAN	115	MAX	286	MIN	12	AC-FT	83000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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 Railroad bridge, 0.9 mi southeast of Vista, 1.5 mi downstream from Steamboat Creek, 4 mi southeast of Sparks, and at mile 52.23 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,431 mi².

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.--55 years, 830 ft³/s, 601,300 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft³/s Feb. 1, 1963, gage height, 16.76 ft from rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 7 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,040 ft³/s Mar. 13, gage height, 11.72 ft; minimum discharge, 554 ft³/s Oct. 21.

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	880	1620	2690	2550	2710	3590	3510	3830	6290	3290	1110	981
2	764	1800	2580	2450	2500	3460	3540	3720	6590	3360	1090	934
3	751	1820	2610	2460	2480	3190	3410	3700	6600	3250	1050	863
4	731	1830	2650	2180	2440	3030	3350	3790	7010	3110	1020	843
5	789	2080	2630	1740	2380	2980	3360	3750	6800	3140	989	823
6	797	2350	2610	1430	2380	2980	3220	3620	6580	3800	977	795
7	866	2370	2610	1360	2620	2990	2960	3260	6650	4280	995	832
8	903	2320	2610	1360	3060	3070	3010	3350	6900	4180	1080	1170
9	972	2240	2600	1350	2690	3190	3050	3390	6870	4090	1970	1240
10	967	2240	2610	1340	2590	3280	3060	3470	6820	4010	2460	1470
11	958	2210	2620	1360	2590	3390	3060	3350	6640	3910	2170	1480
12	955	2200	2640	1200	2760	3380	3220	3360	6350	3350	1320	1540
13	970	2190	2710	1010	3460	6280	3220	3400	6140	3570	1010	1770
14	958	2200	2700	1010	2990	4370	3150	3470	6380	3600	979	1920
15	993	2200	2700	1060	2880	4350	3140	3650	6450	3610	1090	2230
16	993	2190	2630	1070	2820	4290	3260	3860	6360	3510	1080	2180
17	654	1880	2710	1060	2770	4580	3330	3570	6320	3740	1000	2020
18	624	2220	2700	1070	2920	4460	3360	3750	6650	4180	1000	1970
19	595	2170	2660	1160	2830	4350	3450	4410	6250	3630	1060	1890
20	582	2090	2700	1090	2770	4290	3690	4410	5710	3140	1080	1670
21	583	2430	4130	1060	2740	4250	3820	4450	5170	3320	1100	1990
22	586	2530	4230	1270	2680	3720	3860	4880	4670	3310	1120	1850
23	640	2570	4080	1420	2710	3320	4050	5190	4610	3070	1080	1890
24	931	2520	3240	2570	2730	3330	4030	5140	4510	2460	1000	1840
25	1400	2490	2970	2320	2780	3300	3980	5220	4250	1300	1030	1770
26	2650	2460	2910	2290	2880	3320	3900	5750	3890	1190	886	1710
27	1570	2450	2850	2910	2910	3380	3780	5830	3770	1200	886	1700
28	1420	2540	2790	2920	2960	3420	3900	5870	3570	1180	882	1710
29	1280	2720	2720	2950	---	3440	4090	5860	3700	1160	853	1440
30	1390	2810	2640	2890	---	3270	3990	6100	3710	1130	810	1350
31	1540	---	2610	2820	---	3750	---	6200	---	1140	807	---
TOTAL	30694	67740	88140	54730	77030	114000	104750	133600	172210	93210	34984	45871
MEAN	990	2258	2843	1765	2751	3677	3492	4310	5740	3007	1129	1529
MAX	2650	2810	4230	2950	3460	6280	4090	6200	7010	4280	2460	2230
MIN	582	1620	2580	1010	2380	2980	2960	3260	3570	1130	807	795
AC-FT	60880	134400	174800	108600	152800	226100	207800	265000	341600	184900	69390	90990
CAL YR 1982	TOTAL	631958	MEAN	1731	MAX	7150	MIN	260	AC-FT	1253000		
WTR YR 1983	TOTAL	1016959	MEAN	2786	MAX	7010	MIN	582	AC-FT	2017000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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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, 13 mi east of Sparks, and at mile 40.62 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,590 mi².

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.--11 years, 917 ft³/s, 664,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s Jan. 14, 1980, gage height, 11.11 ft, maximum gage, height 11.46 ft Dec. 20, 1981; minimum, 22 ft³/s Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,150 ft³/s Mar. 13, gage height, 10.87 ft; minimum, 427 ft³/s Oct. 22.

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	877	1460	2520	2500	2530	3530	3630	3900	6200	3370	1060	846
2	770	1720	2390	2370	2260	3370	3660	3790	6360	3400	1030	860
3	746	1730	2400	2380	2230	3050	3520	3780	6460	3310	998	780
4	728	1700	2450	2140	2180	2860	3450	3840	6840	3170	967	760
5	775	1960	2420	1610	2110	2800	3480	3810	6670	3170	931	741
6	779	2280	2400	1270	2100	2800	3370	3730	6460	3730	923	716
7	827	2290	2370	1160	2280	2790	3080	3340	6520	4320	931	704
8	852	2230	2370	1150	3020	2890	3110	3400	6770	4230	975	1050
9	906	2120	2390	1140	2540	3010	3150	3450	6740	4150	1050	1100
10	909	2130	2400	1120	2410	3110	3160	3500	6670	4100	2450	1370
11	884	2090	2420	1140	2400	3220	3130	3420	6520	4030	2270	1390
12	872	2070	2430	1010	2520	3210	3300	3420	6320	3400	1310	1420
13	872	2060	2530	816	3330	6070	3320	3470	6100	3600	953	1700
14	851	2070	2530	788	2850	4910	3270	3520	6250	3630	909	1840
15	856	2070	2530	834	2690	4660	3240	3670	6320	3660	1010	2210
16	891	2040	2470	822	2650	4480	3370	3920	6250	3540	1010	2200
17	577	1720	2540	847	2580	4720	3420	3660	6210	3670	923	2020
18	519	1900	2560	823	2740	4630	3440	3750	6460	4260	938	1950
19	478	2150	2520	910	2640	4540	3550	4470	6180	3640	975	1910
20	455	1840	2540	841	2580	4470	3750	4510	5720	3200	1010	1640
21	449	2220	4220	806	2540	4440	3920	4510	5270	3340	1020	1940
22	438	2360	4700	942	2490	3900	3950	4900	4840	3340	1030	1830
23	455	2420	4570	1160	2530	3440	4180	5200	4730	3120	1010	1890
24	655	2360	3330	2350	2530	3420	4160	5190	4660	2660	931	1850
25	1030	2320	2990	2210	2570	3380	4100	5210	4440	1310	960	1770
26	2890	2290	2910	2030	2700	3410	4020	5710	4000	1170	806	1700
27	1630	2270	2840	2760	2720	3470	3870	5800	3870	1160	799	1680
28	1390	2330	2770	2770	2770	3520	3970	5830	3680	1150	799	1710
29	1250	2530	2680	2780	---	3540	4150	5750	3750	1100	780	1420
30	1240	2620	2590	2730	---	3400	4120	5960	3780	1080	735	1270
31	1500	---	2550	2640	---	3820	---	6000	---	1080	710	---
TOTAL	28351	63350	85330	48849	71490	114860	107840	134410	171040	94090	33003	44267
MEAN	915	2112	2753	1576	2553	3705	3595	4336	5701	3035	1065	1476
MAX	2890	2620	4700	2780	3330	6070	4180	6000	6840	4320	2450	2210
MIN	438	1460	2370	788	2100	2790	3080	3340	3680	1080	710	704
AC-FT	56230	125700	169300	96890	141800	227800	213900	266600	339300	186600	65460	87800
CAL YR 1982	TOTAL	627004	MEAN	1718	MAX	7340	MIN	303	AC-FT	1244000		
WTR YR 1983	TOTAL	996080	MEAN	2731	MAX	6840	MIN	438	AC-FT	1977000		

PYRAMID AND WINNEMUCCA LAKES BASIN
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 mi², approximately.

PERIOD OF RECORD.--April 1972 to current year.

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 current year, twice per hour.

INSTRUMENTATION.--Temperature recorder since June 1972.

REMARKS.--Periods of no record due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

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.--

WATER TEMPERATURES: Maximum, 22.0°C July 30, Aug. 1-4; minimum, 2.0°C Dec. 25, and Jan. 1.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

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. 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.--17 years, 116 ft³/s, 194,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft³/s June 10, 1970; no flow at times in some years.

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	11	43	.00	44	.00	4.2	50	99	192	242	327	310
2	49	57	28	44	.00	11	46	97	182	228	324	319
3	73	58	26	44	.00	17	45	97	148	240	312	276
4	81	57	38	45	.00	19	44	101	116	237	263	270
5	83	63	44	43	.00	17	43	105	103	252	281	277
6	98	73	42	41	.00	13	41	106	114	280	299	272
7	117	76	32	40	.00	11	39	114	127	265	296	265
8	116	75	32	43	.00	8.4	35	116	135	267	303	273
9	112	64	30	44	.00	7.1	34	141	134	256	306	255
10	109	57	18	45	.00	6.2	49	143	130	259	290	252
11	106	56	24	47	5.5	5.4	52	152	148	257	257	249
12	102	56	24	48	27	5.2	54	158	167	225	247	252
13	107	55	25	46	66	2.9	56	161	173	267	233	245
14	114	55	24	48	19	.00	58	192	177	272	231	210
15	113	55	24	48	48	.00	58	201	172	283	232	203
16	109	55	22	48	17	6.2	58	177	170	275	232	201
17	98	48	22	48	.00	84	60	145	178	261	222	188
18	98	26	25	49	.00	100	73	178	189	258	220	178
19	94	39	25	48	.00	74	114	193	193	213	220	198
20	95	10	26	48	.00	68	121	192	172	201	229	201
21	94	21	22	49	.00	66	126	196	176	229	233	208
22	99	40	27	49	.00	64	128	209	156	233	229	185
23	108	27	25	52	.00	60	130	220	165	220	225	177
24	115	35	21	53	.00	56	133	211	196	209	213	167
25	100	63	16	52	.00	54	133	195	222	226	180	163
26	15	18	15	48	.00	54	127	192	250	218	178	160
27	40	5.7	15	51	.00	53	117	185	223	275	240	145
28	80	28	25	51	.60	53	110	188	192	276	243	140
29	98	40	33	51	---	53	116	184	258	297	252	126
30	69	.00	35	51	---	49	111	165	268	309	273	100
31	54	---	43	28	---	48	---	161	---	315	293	---
TOTAL	2757	1355.70	808.00	1446	183.10	1069.60	2361	4974	5226	7845	7883	6465
MEAN	88.9	45.2	26.1	46.6	6.54	34.5	78.7	160	174	253	254	216
MAX	117	76	44	53	66	100	133	220	268	315	327	319
MIN	11	.00	.00	28	.00	.00	34	97	103	201	178	100
AC-FT	5470	2690	1600	2870	363	2120	4680	9870	10370	15560	15640	12820
CAL YR 1982	TOTAL	47353.30	MEAN	130	MAX	469	MIN	.00	AC-FT	93930		
WTR YR 1983	TOTAL	42373.40	MEAN	116	MAX	327	MIN	.00	AC-FT	84050		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION (REVISED).--Lat 39°30'10", long 119°02'47", in NW¼NE¼ sec.22, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft downstream from Bango check dam, 4.5 mi southwest of Hazen, and at mile 3.23 upstream from terminal weir at Lahontan Reservoir.

PERIOD OF RECORD.--October 1966 to current year. Records since Oct. 1, 1980, equivalent if records for the KX lateral are added to records for 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. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--17 years (1967-83) 198 ft³/s, 143,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s Feb. 3, 1967; no flow at times.

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	12	16	10	26	69	3.1	9.8	64	63	127	139	51
2	4.2	6.7	7.5	35	37	2.9	12	52	69	87	130	112
3	.95	13	51	31	3.4	3.7	11	45	104	112	97	66
4	.21	9.3	35	29	3.4	4.1	10	36	77	144	62	17
5	.10	21	52	28	2.9	6.4	9.5	44	22	144	58	54
6	.00	39	57	24	2.4	5.4	9.5	16	15	90	66	118
7	.00	53	49	20	2.0	5.2	3.4	25	1.9	57	86	45
8	5.3	58	39	18	1.4	4.8	3.7	11	17	50	146	99
9	26	46	39	20	.80	4.3	8.0	18	37	91	129	117
10	29	34	30	21	.40	4.3	8.0	34	30	98	210	107
11	24	25	14	22	.20	4.5	13	30	11	93	160	96
12	12	23	11	22	.00	3.9	26	7.1	26	63	155	142
13	8.7	21	11	21	.00	5.1	26	5.5	28	49	160	163
14	66	15	10	18	.00	4.9	19	7.7	56	90	161	70
15	22	18	9.6	18	.00	4.5	28	35	36	60	183	58
16	42	18	8.3	18	.00	3.6	14	81	20	94	129	55
17	27	18	9.5	19	.00	2.8	22	19	29	107	86	25
18	36	12	6.1	19	.05	26	22	23	3.5	155	95	16
19	29	4.5	5.6	24	.30	39	59	87	31	94	79	16
20	20	2.7	4.9	13	.57	19	81	45	86	44	124	70
21	48	2.2	5.0	11	.82	17	91	49	9.7	42	119	62
22	52	1.7	4.2	3.4	2.2	14	98	74	25	107	166	84
23	54	1.4	6.0	3.4	3.2	8.5	136	124	2.7	89	162	54
24	85	1.2	4.2	18	4.2	12	129	102	.59	41	145	63
25	97	.71	2.7	24	3.5	12	147	116	1.4	38	36	61
26	27	.35	1.7	13	3.9	10	107	84	37	73	2.1	63
27	3.2	3.1	1.4	3.4	3.1	11	116	37	54	107	57	65
28	1.4	3.0	.91	3.4	2.9	10	47	45	1.8	103	66	21
29	43	2.5	.91	14	---	11	73	98	8.9	92	50	51
30	61	14	.92	15	---	12	98	117	136	101	22	79
31	28	---	7.6	26	---	12	---	17	---	152	43	---
TOTAL	864.06	483.36	495.04	580.6	147.64	287.0	1436.9	1548.3	1039.49	2794	3323.1	2100
MEAN	27.9	16.1	16.0	18.7	5.27	9.26	47.9	49.9	34.6	90.1	107	70.0
MAX	97	58	57	35	69	39	147	124	136	155	210	163
MIN	.00	.35	.91	3.4	.00	2.8	3.4	5.5	.59	38	2.1	16
AC-FT	1710	959	982	1150	293	569	2850	3070	2060	5540	6590	4170
CAL YR 1982	TOTAL	19954.12	MEAN	54.7	MAX	420	MIN	.00	AC-FT	39580		
WTR YR 1983	TOTAL	15099.49	MEAN	41.4	MAX	210	MIN	.00	AC-FT	29950		

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE DAILY

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

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, and 9 mi southwest of Wadsworth, and at mile 34.49 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,676 mi².

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.--64 years (1918-57, 1958-83), 372 ft³/s, 269,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s Feb. 1, 1963, gage height, 14.26 ft, from rating curve extended above 1,500 ft³/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, 8,310 ft³/s Mar. 13, gage height, 10.04 ft; minimum daily, 330 ft³/s Oct. 22.

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	743	1300	2420	2340	2630	3520	3350	3490	5520	2870	688	520
2	647	1460	2290	2220	2360	3420	3370	3380	5900	2800	663	547
3	622	1480	2310	2230	2330	3110	3250	3350	5860	2780	640	472
4	610	1460	2380	2020	2300	2920	3160	3410	6280	2630	623	455
5	651	1660	2360	1620	2230	2860	3190	3400	6130	2630	584	439
6	662	1930	2340	1330	2220	2860	3100	3310	5900	2980	578	419
7	696	1950	2340	1170	2300	2840	2790	2940	5900	3610	590	402
8	721	1930	2340	1170	3020	2940	2820	2980	6150	3610	633	722
9	768	1820	2360	1160	2290	3050	2870	3000	6140	3520	1290	799
10	769	1830	2390	1150	1870	3140	2860	3070	6100	3460	1820	990
11	753	1800	2400	1160	1850	3250	2820	2990	5950	3440	1790	1010
12	741	1780	2410	1100	1980	3250	2990	2980	5710	2830	916	1020
13	743	1780	2480	861	2820	5660	3000	3000	5390	2990	637	1240
14	725	1780	2490	836	2430	4840	2950	3000	5620	3000	584	1340
15	729	1780	2490	877	2410	4310	2910	3150	5680	3030	647	1640
16	767	1770	2430	871	2710	4120	3030	3410	5610	2940	681	1650
17	482	1520	2460	902	2640	4440	3100	3170	5540	3000	596	1510
18	425	1560	2490	882	2790	4320	3020	3210	5830	3630	613	1460
19	394	1950	2450	967	2710	4240	3050	3880	5540	3050	630	1430
20	371	1600	2450	924	2650	4160	3250	3980	5100	2640	677	1230
21	365	1900	3590	877	2620	4140	3440	3940	4630	2650	671	1430
22	330	2040	4050	956	2550	3670	3450	4320	4290	2690	693	1400
23	340	2100	4190	1250	2580	3160	3640	4620	4160	2520	678	1420
24	536	2060	3070	2010	2600	3130	3640	4630	4040	2140	632	1390
25	892	2020	2660	2320	2620	3080	3630	4610	3840	950	650	1330
26	2440	2000	2620	1990	2770	3100	3560	5140	3440	806	523	1280
27	1500	1970	2550	2640	2780	3160	3440	5220	3310	758	486	1250
28	1230	2010	2530	2700	2800	3220	3520	5280	3120	753	487	1290
29	1030	2210	2480	2730	---	3240	3690	5140	3120	716	470	1080
30	1070	2370	2400	2710	---	3130	3670	5450	3170	697	433	968
31	1290	---	2380	2660	---	3500	---	5450	---	693	411	---
TOTAL	24042	54820	80600	48633	69860	109780	96560	118900	152970	76813	22014	32133
MEAN	776	1827	2600	1569	2495	3541	3219	3835	5099	2478	710	1071
MAX	2440	2370	4190	2730	3020	5660	3690	5450	6280	3630	1820	1650
MIN	330	1300	2290	836	1850	2840	2790	2940	3120	693	411	402
AC-FT	47690	108700	159900	96460	138600	217700	191500	235800	303400	152400	43660	63740
CAL YR 1982	TOTAL	530314	MEAN	1453	MAX	6990	MIN	52	AC-FT	1052000		
WTR YR 1983	TOTAL	887125	MEAN	2430	MAX	6280	MIN	330	AC-FT	1760000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 mi².

PERIOD OF RECORD.--May 1965 to current year.

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

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft, National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956.

REMARKS.--Records poor. 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.--18 years, 669 ft³/s, 404,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,820 ft³/s Jan. 14, 1980, gage height, 12.41 ft; minimum daily discharge, 3.1 ft³/s Sept. 4, 1978, Nov. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 8,000 ft³/s Mar. 13, gage height, unknown, minimum daily, 475 ft³/s Oct. 23.

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	865	1580	2610	2280	2840	3770	3470	3770	6300	3230	730	572
2	744	1730	2420	2190	2600	3730	3500	3660	6640	3140	756	634
3	739	1770	2430	2150	2560	3400	3360	3630	6810	3100	751	597
4	744	1780	2460	2060	2530	3220	3260	3660	7270	2930	774	582
5	759	1870	2450	1720	2490	3140	3310	3660	7270	2920	699	572
6	780	2090	2440	1470	2470	3090	3220	3610	7010	3270	666	547
7	780	2150	2430	1300	2470	3090	2960	3260	6970	4030	672	528
8	806	2170	2430	1290	2730	3140	2940	3180	7250	3960	694	768
9	849	2140	2430	1290	2880	3180	2990	3190	7230	3900	1270	891
10	893	2140	2450	1270	2660	3310	2960	3230	7070	3860	2000	1100
11	893	2150	2470	1280	2670	3430	2940	3220	6930	3830	2100	1180
12	887	2170	2490	1250	2640	3480	3130	3130	6640	3250	1110	1180
13	865	2160	2550	1060	3100	4500	3170	3160	6260	3270	828	1470
14	833	2170	2560	1050	3410	5600	3100	3160	6450	3320	739	1540
15	827	2170	2550	1050	2980	4460	3040	3270	6560	3280	780	1000
16	876	2160	2560	1050	2970	4480	3130	3550	6510	3170	841	1830
17	694	2000	2530	1080	2930	4570	3220	3470	6450	3180	756	1700
18	506	1930	2530	1070	2880	4600	3170	3300	6700	4030	780	1660
19	560	2430	2520	1130	3020	4510	3170	4060	6450	3510	780	1600
20	525	2000	2510	1110	2920	4430	3350	4270	5990	3210	841	1420
21	516	2210	3460	1060	2890	4390	3580	4180	5390	2890	816	1520
22	491	2350	3920	1110	2870	3960	3630	4530	4920	3070	853	1570
23	475	2420	4350	1350	2810	3360	3790	4840	4650	2930	859	1570
24	642	2420	3230	2220	2840	3280	3830	4890	4560	2550	828	1540
25	904	2370	2790	2640	2850	3270	3800	4880	4270	1150	853	1480
26	1990	2390	2670	2270	2850	3300	3740	5390	3770	963	762	1430
27	1780	2370	2580	2840	2940	3310	3650	5650	3670	853	634	1390
28	1450	2370	2530	2880	3030	3420	3690	5760	3520	878	644	1440
29	1350	2540	2470	2880	---	3360	3870	5620	3430	816	628	1270
30	1330	2650	2360	2890	---	3280	3960	6170	3510	786	562	1160
31	1620	---	2310	2880	---	3580	---	6150	---	774	499	---
TOTAL	28053	64850	82490	53170	78880	115640	100930	127500	176450	86050	26555	36541
MEAN	905	2162	2661	1715	2817	3730	3364	4113	5882	2776	857	1218
MAX	1990	2650	4350	2890	3410	5600	3960	6170	7270	4030	2100	1830
MIN	475	1580	2310	1050	2470	3090	2940	3130	3430	774	499	528
AC-FT	55640	128600	163600	105500	156500	229400	200200	252900	350000	170700	52670	72480

CAL YR 1982 TOTAL 585493 MEAN 1604 MAX 6300 MIN 54 AC-FT 1161000
WTR YR 1983 TOTAL 977109 MEAN 2677 MAX 7270 MIN 475 AC-FT 1938000

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 9.42 mi upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,327 mi².

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.

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.--26 years, 538 ft³/s, 389,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s Feb. 2, 1963, gage height, 14.39 ft; minimum daily, 8.1 ft³/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 ft³/s, by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,420 ft³/s Mar. 14, gage height, 9.58 ft; minimum daily, 399 ft³/s Oct. 23.

REVISIONS.--Revised daily discharges, in cubic feet per second, for the period Mar. 26 to Apr. 21, 1980, are given below. These figures supersede those published in WDR NV-80-1.

Mar. 26	367	Apr. 1	438	Apr. 7	498	Apr. 13	537	Apr. 19	1,120
27	361	2	438	8	465	14	579	20	1,330
28	415	3	455	9	469	15	773	21	1,510
29	407	4	451	10	483	16	932		
30	407	5	455	11	507	17	984		
31	424	6	542	12	527	18	1,070		

Month	Total	Mean	Max	Min	Acre-ft
March	18726	604	890	361	37140
April	23542	785	1510	438	46700
WTR YR 1980	203326	556	8000	29	403300

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

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	967	1550	2690	2430	2740	3350	3550	3800	5760	3210	769	448
2	824	1740	2420	2330	2470	3600	3500	3680	5970	3080	737	548
3	786	1780	2440	2290	2400	3280	3420	3640	6130	3090	717	504
4	789	1770	2480	2170	2370	3080	3320	3680	6460	2950	752	488
5	804	1880	2460	1770	2320	2980	3340	3670	6490	2930	685	476
6	829	2190	2420	1460	2300	2970	3280	3600	6310	3130	615	450
7	811	2280	2420	1250	2360	2940	3050	3310	6170	3820	627	427
8	855	2260	2410	1240	2970	3010	2990	3230	6430	3860	647	603
9	897	2180	2430	1230	2790	3080	3030	3250	6460	3820	1120	795
10	919	2190	2450	1210	2550	3200	3010	3310	6400	3760	1850	968
11	904	2150	2450	1220	2500	3280	2990	3270	6290	3740	2150	1110
12	897	2130	2450	1200	2530	3310	3110	3190	6100	3300	1280	1110
13	872	2110	2520	933	3220	4190	3160	3200	5810	3270	882	1280
14	828	2110	2550	893	3100	5710	3130	3200	5870	3310	717	1440
15	813	2120	2530	914	2900	4330	3060	3320	5970	3320	731	1740
16	853	2110	2500	929	2860	4280	3130	3620	5940	3250	813	1850
17	701	1950	2480	954	2770	4470	3210	3580	5810	3220	725	1710
18	522	1710	2550	942	2830	4480	3210	3390	5970	3930	726	1650
19	488	2500	2510	1000	2860	4390	3220	3980	5840	3550	722	1600
20	451	1910	2480	998	2750	4290	3350	4260	5520	3340	811	1420
21	446	2190	3260	931	2720	4280	3560	4150	5080	2890	768	1430
22	425	2400	3910	951	2670	3980	3590	4420	4680	3130	797	1630
23	399	2510	4270	1290	2680	3450	3710	4710	4460	3020	828	1590
24	515	2460	3430	1820	2710	3330	3780	4850	4330	2760	766	1570
25	787	2390	2980	2550	2700	3300	3770	4840	4140	1420	787	1500
26	2270	2380	2880	2040	2850	3300	3740	5200	3710	1070	724	1450
27	2090	2360	2780	2610	2890	3320	3660	5440	3590	901	556	1410
28	1480	2360	2710	2750	2890	3390	3710	5510	3470	913	552	1430
29	1320	2560	2650	2800	---	3400	3870	5390	3350	828	535	1340
30	1250	2700	2530	2810	---	3360	3950	5690	3420	778	483	1180
31	1630	---	2480	2780	---	3490	---	5660	---	771	412	---
TOTAL	28422	64930	83520	50695	75700	112820	101400	126040	161930	86361	25284	35147
MEAN	917	2164	2694	1635	2704	3639	3380	4066	5398	2786	816	1172
MAX	2270	2700	4270	2810	3220	5710	3950	5690	6490	3930	2150	1850
MIN	399	1550	2410	893	2300	2940	2990	3190	3350	771	412	427
AC-FT	56380	128800	165700	100600	150200	223800	201100	250000	321200	171300	50150	69710
CAL YR 1982	TOTAL	589209	MEAN	1614	MAX	5010	MIN	58	AC-FT	1169000		
WTR YR 1983	TOTAL	952249	MEAN	2609	MAX	6490	MIN	399	AC-FT	1889000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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 current year, hourly.

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 current year, hourly.

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.

INSTRUMENTATION.--Specific-conductance and temperature recorder since May 1980.

REMARKS.--Periods of no record for daily specific-conductance and temperature due to recorder malfunctions and vandalism.

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.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 321 micromhos Oct. 23; minimum, 74 micromhos Apr. 12.

WATER TEMPERATURES: Maximum, 24.0°C Aug. 2-4, 6; minimum, 2.0°C Dec. 24, 25, Feb. 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)
NOV 24...	1200	2470	170	7.9	5.5	9.0	10.8	98	K16	130	46	12
MAR 14...	1215	5560	130	7.7	5.5	150	10.4	95	K340	760	45	12
MAY 18...	1245	3310	120	7.9	12.0	12	9.4	100	98	160	42	11
SEP 01...	1215	446	260	8.2	17.5	5.9	8.3	101	66	150	75	19

K: NON-IDEAL COLONY COUNT.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	6.5	9.5	7.5	13.0	10.5	15.5	14.0	23.5	19.0	21.0	17.5
2	9.0	6.5	11.0	7.0	13.0	10.0	16.0	13.5	24.0	19.5	21.0	16.5
3	7.5	5.0	12.5	8.5	13.5	11.0	17.0	13.0	24.0	19.5	21.0	17.0
4	6.5	4.5	12.0	9.0	14.0	11.5	18.5	13.5	24.0	19.5	22.0	17.0
5	7.0	4.0	9.5	8.0	15.0	12.0	19.0	15.5	23.5	19.0	22.0	18.0
6	8.0	4.0	11.0	7.5	15.5	12.5	19.0	15.0	24.0	19.5	22.5	18.5
7	9.0	5.0	12.0	8.5	14.0	12.5	17.0	14.5	23.0	20.5	22.0	18.5
8	10.5	6.0	12.0	8.0	14.5	12.5	16.0	13.0	23.5	20.0	21.0	18.0
9	9.5	7.0	11.5	8.0	15.5	13.0	15.5	13.0	23.0	20.0	19.5	15.5
10	8.0	6.0	9.5	8.0	15.5	12.5	16.0	12.0	21.5	19.5	19.5	15.0
11	8.0	5.5	11.0	7.5	14.5	12.0	17.5	13.0	22.0	18.5	20.0	15.0
12	7.5	5.0	12.5	8.5	14.5	12.0	19.0	14.0	22.5	18.0	20.5	16.0
13	8.0	4.5	12.5	8.5	15.0	11.5	19.5	15.5	22.5	18.5	20.5	17.0
14	9.5	5.5	12.5	9.0	15.0	12.5	18.0	15.0	22.0	19.0	20.0	16.5
15	10.0	6.0	13.0	9.5	15.5	13.0	18.0	14.5	22.5	19.5	19.5	16.0
16	10.5	7.0	12.5	9.5	16.0	13.0	17.5	14.5	23.5	19.0	19.5	16.0
17	9.5	7.5	13.0	9.0	16.0	13.0	17.5	13.5	22.0	19.0	20.0	16.5
18	10.0	7.0	13.5	9.5	15.0	12.5	16.5	13.5	21.5	19.5	19.5	16.5
19	9.0	7.5	13.5	10.0	14.5	11.5	17.0	13.5	21.5	18.5	18.0	15.0
20	11.0	8.5	13.5	10.0	14.5	12.0	16.5	13.5	21.5	18.5	17.0	14.0
21	10.5	8.0	14.0	10.0	16.0	12.0	18.0	13.5	21.5	18.0	17.0	13.5
22	10.5	8.0	14.5	11.0	17.0	13.0	19.0	15.5	20.0	17.5	17.0	15.5
23	10.0	7.5	14.5	10.5	16.5	14.0	19.0	15.0	21.0	16.5	16.0	15.5
24	9.0	6.5	14.5	11.0	16.0	13.0	19.0	15.0	21.0	17.0	17.5	16.0
25	8.5	6.0	14.5	11.0	17.0	13.0	19.5	15.0	21.5	17.5	18.5	15.0
26	9.0	6.0	14.0	11.0	17.0	13.5	20.0	15.5	21.5	17.5	18.5	15.5
27	9.5	6.5	14.0	11.0	17.0	13.5	21.0	16.5	21.5	17.5	18.0	15.5
28	10.0	7.5	14.5	11.0	17.0	13.5	22.0	17.0	21.5	18.0	17.0	15.5
29	10.0	8.0	14.5	11.5	17.0	13.5	23.0	18.0	21.0	17.0	16.5	14.5
30	10.5	7.5	13.5	11.0	17.5	14.0	23.5	18.5	20.5	16.5	---	---
31	---	---	14.0	10.5	---	---	22.5	19.5	20.5	17.5	---	---
MONTH	11.0	4.0	14.5	7.0	17.5	10.0	23.5	12.0	24.0	16.5	22.5	13.5
YEAR	24.0	2.0										

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	274	254	271	242	184	163	---	---	210	186	---	---
2	282	269	258	214	197	167	---	---	197	187	---	---
3	306	267	213	164	171	164	---	---	197	188	---	---
4	309	275	175	167	176	164	---	---	203	182	---	---
5	273	259	178	171	179	159	---	---	194	181	---	---
6	271	251	194	171	161	152	---	---	215	196	---	---
7	283	263	193	166	173	153	---	---	225	206	---	---
8	260	240	193	166	158	151	---	---	203	193	---	---
9	275	222	202	175	170	150	---	---	229	203	---	---
10	222	172	101	168	166	151	---	---	226	169	---	---
11	181	173	176	170	161	152	---	---	175	162	---	---
12	185	176	195	177	159	152	---	---	166	156	---	---
13	191	177	213	196	156	149	---	---	161	151	---	---
14	204	183	215	204	155	149	---	---	178	150	---	---
15	203	188	218	211	153	146	---	---	177	168	---	---
16	208	189	216	205	156	148	---	---	167	163	140	115
17	233	187	202	161	156	145	---	---	173	161	137	125
18	266	226	177	160	154	147	---	---	179	171	137	123
19	283	269	216	158	153	146	---	---	179	166	136	127
20	293	286	247	218	156	147	---	---	183	172	135	122
21	304	292	216	170	154	118	290	281	175	170	136	121
22	309	298	171	157	160	124	286	271	172	164	134	126
23	321	304	172	161	210	147	270	239	180	165	157	133
24	313	272	180	165	213	203	293	167	162	157	154	137
25	276	222	168	157	206	167	257	162	157	152	150	131
26	236	143	160	154	180	152	290	243	---	---	144	110
27	226	147	159	152	173	168	239	191	---	---	114	107
28	236	197	170	151	---	---	223	203	---	---	130	109
29	235	225	166	150	---	---	209	198	---	---	120	108
30	274	236	168	158	---	---	213	191	---	---	131	112
31	271	229	---	---	---	---	197	105	---	---	142	128
MONTH	321	143	271	150	213	118	293	162	229	150	157	107
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	139	115	150	143	101	91	129	126	200	190		
2	137	125	143	137	109	93	133	128	203	192		
3	126	117	140	136	109	92	131	123	208	198		
4	123	113	139	131	127	110	140	127	200	189		
5	141	119	135	130	121	102	154	133	209	190		
6	149	127	138	133	103	101	167	152	210	202		
7	156	141	147	135	106	101	169	121	245	202		
8	154	134	145	139	103	97	149	131	---	---		
9	140	84	139	128	109	102	144	136	---	---		
10	91	79	132	129	111	107	154	144	---	---		
11	84	76	138	128	118	108	154	148	---	---		
12	95	74	139	132	111	103	160	136	---	---		
13	95	80	136	129	113	108	140	137	---	---		
14	115	90	135	130	113	100	141	139	---	---		
15	105	85	132	126	101	96	141	134	---	---		
16	121	88	128	120	105	95	139	132	---	---		
17	134	99	130	122	106	102	137	131	---	---		
18	172	141	131	116	106	99	143	135	---	---		
19	154	142	116	102	107	103	147	126	---	---		
20	145	139	106	99	118	106	128	125	---	---		
21	143	119	105	100	142	109	127	107	---	---		
22	139	124	103	93	129	111	112	97	---	---		
23	134	125	97	91	115	108	112	109	---	---		
24	131	124	95	86	120	107	114	110	---	---		
25	136	127	91	84	117	107	187	110	---	---		
26	144	134	94	87	123	116	203	177	---	---		
27	137	131	100	79	122	115	206	193	---	---		
28	138	130	91	82	122	118	231	206	---	---		
29	143	131	108	91	126	117	253	231	---	---		
30	154	137	109	94	122	119	249	229	---	---		
31	---	---	102	93	---	---	227	197	---	---		
MONTH	172	74	150	79	142	91	253	97	245	189		
YEAR	321	74										

BLACK ROCK DESERT

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 mi².

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 fair, except those for winter months and period of no gage-height record, Mar. 9 to Apr. 6, 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.--35 years, 31.9 ft³/s, 23,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s about Feb. 1, 1963, gage height, 8.64 ft, in gage well, from rating curve extended above 250 ft³/s on basis of slope-area measurement of peak flow, maximum gage height, 8.70 ft about Mar. 14, 1983; no flow for several days in some years.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 7	2200	198	2.92	about Mar. 14	unknown	*2,180	8.70
Feb. 18	0500	254	3.00	June 3	0300	396	5.18

Minimum daily discharge, 3.9 ft³/s, Oct. 2-4.

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	4.2	12	15	54	12	127	300	393	356	60	20	8.0
2	3.9	10	15	66	12	166	350	317	290	71	18	11
3	3.9	9.1	15	79	12	182	240	274	297	61	16	11
4	3.9	8.8	15	86	12	202	190	266	248	55	15	9.7
5	4.2	9.0	15	98	12	174	150	295	204	52	14	8.4
6	4.2	8.7	14	135	12	146	117	254	186	51	12	7.9
7	5.8	8.4	13	164	14	141	135	231	170	49	11	7.6
8	5.8	8.3	12	107	17	150	154	229	192	45	11	6.5
9	6.2	7.4	11	76	18	165	167	202	169	42	19	6.5
10	6.2	8.3	14	54	20	190	137	189	160	42	18	7.2
11	6.2	9.2	18	48	23	240	131	202	194	38	22	8.0
12	6.2	9.0	22	52	32	325	124	200	159	34	17	7.8
13	6.2	8.4	24	48	111	450	114	180	135	32	15	8.4
14	6.2	10	19	49	79	700	117	182	120	33	13	8.7
15	6.2	12	17	41	58	400	126	190	112	38	13	9.1
16	6.2	13	13	36	48	250	150	195	105	32	15	8.4
17	5.8	14	14	19	85	220	186	190	99	29	14	7.1
18	5.8	26	13	18	229	200	219	209	97	26	13	6.5
19	5.8	38	15	18	122	200	259	226	92	24	14	6.0
20	5.8	24	15	16	99	190	284	236	87	22	20	6.3
21	6.4	20	44	15	94	180	287	252	87	22	20	7.5
22	6.4	17	79	14	125	170	328	268	80	24	21	7.8
23	6.3	15	40	12	149	165	357	264	76	23	23	9.6
24	6.9	12	28	13	146	160	375	268	74	22	20	14
25	8.4	13	25	11	151	155	276	277	72	20	17	12
26	15	14	28	12	137	150	254	277	68	20	15	9.9
27	15	16	27	23	119	155	214	270	67	20	13	11
28	10	18	25	41	116	160	209	258	65	19	11	11
29	10	21	22	23	---	160	229	267	62	19	9.6	11
30	15	22	35	16	---	160	314	279	63	18	9.0	9.9
31	15	---	45	13	---	220	---	297	---	17	8.4	---
TOTAL	223.1	421.6	707	1457	2064	6653	6493	7637	4186	1060	477.0	263.8
MEAN	7.20	14.1	22.8	47.0	73.7	215	216	246	140	34.2	15.4	8.79
MAX	15	38	79	164	229	700	375	393	356	71	23	14
MIN	3.9	7.4	11	11	12	127	114	180	62	17	8.4	6.0
AC-FT	443	836	1400	2890	4090	13200	12880	15150	8300	2100	946	523
CAL YR 1982	TOTAL	18765.48	MEAN	51.4	MAX	1200	MIN	.48	AC-FT	37220		
WTR YR 1983	TOTAL	31642.50	MEAN	86.7	MAX	700	MIN	3.9	AC-FT	62760		

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 current year, hourly.

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 current year, hourly.

INSTRUMENTATION.--Specific-conductance and temperature recorder since August 1980.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 895 micromhos Nov. 8, 1981; 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.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 875 micromhos Sept. 24; minimum, 312 micromhos Feb. 19.

WATER TEMPERATURES: Maximum, 28.0°C Aug. 9; minimum, freezing point on many days in Dec., Jan., and Feb.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS AS CACO ₃
NOV 22...	1600	1.4	657	8.5	4.0	12	12.9	114	72	3900	129
JAN 27...	1320	19	382	8.4	3.0	140	12.0	106	K27	--	89
MAR 21...	1600	328	437	--	8.5	42	--	--	K15	210	114
SEP 21...	1240	2.5	858	8.1	12.0	2.4	10.7	116	--	--	182

K: NON-IDEAL COLONY COUNT.

BLACK ROCK DESERT BASIN

10353500 OUINN RIVER NEAR McDERMITT, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 22...	35	10	89	3.5	6.9	192	82	44	1.4	46	413
JAN 27...	24	7.0	42	2.0	5.4	128	32	20	.80	36	224
MAR 21...	31	8.9	48	2.0	6.4	160	34	22	.80	38	265
SEP 21...	48	15	110	3.7	8.4	206	110	74	1.3	47	519

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 22...	430	1.6	<.10	.060	1.20	.080	.050	.020	10	15	45
JAN 27...	244	11.2	<.10	.060	1.20	.370	.130	.090	--	--	--
MAR 21...	286	235	<.10	.320	1.40	.260	.100	.100	40	12	33
SEP 21...	538	3.5	<.10	<.100	.60	.090	.050	.050	<10	13	59

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 22...	1	<1	<1	<3	2	8	<1	64	85	.1
JAN 27...	--	--	--	--	--	--	--	--	--	--
MAR 21...	<1	<1	<1	<3	5	24	1	51	13	.1
SEP 21...	<1	<1	<1	<3	2	<3	1	77	52	<.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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 22...	10	<1	1	<1	190	12	39	20	.08	--
JAN 27...	--	--	--	--	--	--	--	425	21	99
MAR 21...	<10	2	<1	<1	170	12	6	306	271	68
SEP 21...	10	4	<1	<1	280	10	<3	12	.08	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	14.5	7.5	9.0	4.0	5.0	2.5	.5	.0	2.5	.0	6.5	4.5
2	14.5	7.5	8.5	4.0	3.0	1.5	.5	.0	2.0	.0	7.5	5.0
3	15.0	9.5	8.0	3.5	5.0	1.5	1.5	.0	1.5	.0	7.5	5.5
4	13.0	10.0	8.0	3.5	6.0	3.0	2.5	.5	1.0	.0	8.5	6.0
5	14.0	6.5	10.0	5.0	5.0	2.0	4.0	1.0	2.0	.0	7.0	5.5
6	11.0	7.0	7.5	4.5	5.5	2.5	2.5	.5	2.5	.0	8.0	4.5
7	10.0	7.5	5.5	2.0	2.0	.5	4.5	.0	3.5	.0	8.5	6.0
8	11.5	5.0	5.5	2.5	1.5	.0	3.0	.0	3.0	.0	10.0	6.5
9	12.5	8.0	6.5	3.5	2.0	.0	2.0	.0	4.0	.5	11.5	7.5
10	13.0	6.0	4.0	2.5	3.0	.5	1.5	.0	6.0	2.0	12.0	8.5
11	13.0	7.0	7.0	3.0	3.0	.5	1.5	.0	6.0	2.5	10.0	7.5
12	15.0	7.5	4.5	2.0	3.5	.5	1.5	.0	5.5	3.0	7.0	5.5
13	15.0	9.0	5.0	2.0	4.5	2.5	2.5	.0	6.0	3.5	9.0	6.5
14	15.0	8.5	4.5	1.0	3.0	1.5	1.5	.0	5.0	2.0	7.5	5.0
15	15.0	9.0	4.5	1.0	4.5	2.0	2.0	.0	5.0	2.0	7.0	4.5
16	13.5	8.0	3.5	1.0	5.5	2.0	2.0	.0	6.0	2.0	7.0	3.0
17	14.5	9.5	6.0	3.0	5.0	2.0	2.0	.0	6.5	4.0	7.0	5.5
18	10.5	5.5	6.0	4.5	3.5	1.0	2.5	.0	5.5	4.0	8.5	5.0
19	7.5	3.5	5.5	3.5	4.0	1.0	1.5	.5	5.5	2.0	9.5	4.5
20	9.5	3.0	5.5	3.0	4.0	1.0	2.0	.0	6.5	2.0	9.5	5.0
21	12.0	6.0	4.5	2.0	4.5	3.0	2.5	.0	7.5	3.0	9.0	7.0
22	12.5	8.5	4.0	1.5	3.0	2.0	1.5	.0	9.0	5.0	8.0	6.5
23	15.0	10.0	3.0	.5	2.0	.0	3.0	.0	8.5	5.5	8.0	5.0
24	14.0	9.0	3.0	.5	1.5	.0	3.0	.0	9.0	4.5	7.0	5.0
25	12.0	10.0	3.0	.5	.5	.0	1.0	.0	7.0	4.5	8.5	5.0
26	11.5	8.0	3.0	.5	2.0	.0	3.0	.0	5.5	4.0	8.0	5.0
27	10.0	5.0	3.5	1.5	1.5	.0	3.0	1.0	5.5	3.0	8.5	4.5
28	8.5	4.0	5.0	3.0	.5	.0	4.0	.5	6.5	4.0	9.0	5.0
29	8.0	6.5	4.5	2.5	.5	.0	2.5	1.0	---	---	6.5	5.5
30	10.5	7.5	4.5	1.5	.5	.0	2.5	.0	---	---	11.0	5.0
31	9.0	4.5	---	---	.5	.0	2.5	.0	---	---	10.0	7.5
MONTH	15.0	3.0	10.0	.5	6.0	.0	4.5	.0	9.0	.0	12.0	3.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	10.5	6.0	9.0	7.5	17.0	14.5	19.0	16.0	26.0	18.5	20.5	15.5
2	10.0	6.0	13.5	7.5	19.0	13.5	20.0	15.0	26.0	17.5	20.5	13.0
3	6.5	4.0	17.0	10.5	18.5	17.0	21.0	14.0	26.0	17.5	20.5	11.5
4	6.0	3.5	16.0	12.5	21.5	16.0	23.0	16.5	25.5	17.0	21.5	12.0
5	7.5	2.5	13.5	11.0	22.0	17.0	23.0	19.0	26.0	16.5	21.5	12.5
6	10.0	3.5	13.5	9.0	23.0	17.5	24.0	19.5	27.5	17.5	21.0	12.5
7	12.0	6.0	14.0	10.5	23.0	18.5	23.0	18.0	24.5	20.0	21.0	13.0
8	13.5	8.0	12.0	10.0	22.0	19.0	23.0	17.5	27.0	18.0	19.0	13.0
9	10.5	7.5	11.0	7.5	22.5	18.0	17.0	14.0	28.0	20.0	19.0	10.5
10	9.0	6.5	9.0	7.0	20.5	18.0	20.5	12.0	21.5	19.5	18.5	9.5
11	9.5	5.0	11.0	6.5	18.5	16.0	23.0	14.5	25.5	18.0	20.5	11.0
12	8.0	5.5	14.5	8.0	18.0	14.0	24.0	16.0	25.5	16.0	22.0	13.0
13	9.5	4.5	16.0	10.0	20.5	14.0	25.5	18.0	21.5	17.0	20.0	14.0
14	11.0	5.0	15.5	11.0	21.0	16.0	21.0	15.5	25.0	16.0	22.0	13.5
15	13.0	6.5	13.5	11.5	22.0	17.5	20.5	13.0	23.5	18.0	21.0	12.5
16	14.5	8.0	13.0	10.0	22.0	17.0	21.0	13.5	26.0	16.5	19.5	12.0
17	14.0	10.0	18.0	9.5	22.0	18.0	22.0	14.5	25.5	17.0	19.5	11.5
18	15.0	11.5	16.5	14.0	20.5	15.5	23.0	15.0	24.0	17.0	19.0	11.5
19	12.0	10.5	18.0	11.5	20.5	14.5	23.0	16.5	22.0	18.0	15.0	9.0
20	16.0	9.5	20.5	13.5	17.5	14.5	23.0	15.5	24.5	17.0	15.5	6.5
21	14.0	12.0	21.0	15.5	20.5	13.5	24.0	15.5	24.5	17.5	16.5	7.5
22	14.0	10.5	21.5	15.5	22.0	15.5	22.5	17.5	22.5	16.5	16.5	10.5
23	14.5	11.5	23.0	16.5	21.5	17.0	24.5	17.5	22.5	14.5	15.5	13.5
24	12.5	9.5	23.5	18.0	22.0	15.5	23.0	16.5	21.5	15.0	19.0	11.5
25	12.0	7.0	24.5	19.0	22.5	16.0	23.0	16.5	22.5	13.5	20.0	12.5
26	12.0	7.5	24.5	19.0	20.0	17.0	23.5	16.0	22.0	13.5	20.5	14.0
27	14.5	8.5	25.5	19.5	21.0	16.0	24.5	16.0	21.0	13.5	17.0	14.0
28	13.0	11.0	26.0	20.0	22.5	16.5	25.0	17.0	21.0	13.0	14.0	10.0
29	11.5	9.5	22.5	20.0	20.5	18.5	26.5	17.5	20.5	12.5	13.5	10.0
30	9.5	7.5	24.0	17.5	21.5	16.5	26.0	17.5	20.5	12.0	14.5	11.5
31	---	---	21.0	17.0	---	---	25.5	19.5	23.5	15.5	---	---
MONTH	16.0	2.5	26.0	6.5	23.0	13.5	26.5	12.0	28.0	12.0	22.0	6.5
YEAR	28.0	.0										

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	653	639	650	615	667	616	520	486	563	472	451	439
2	663	644	653	630	655	592	530	495	540	505	458	434
3	666	649	654	639	639	598	576	505	584	494	461	436
4	663	646	656	639	659	612	602	506	602	506	473	451
5	658	647	660	637	664	588	656	507	590	531	473	440
6	661	647	654	640	712	603	657	483	602	523	444	434
7	658	645	653	633	724	621	596	458	635	501	473	428
8	656	642	653	639	708	627	582	435	557	448	470	447
9	656	643	654	648	726	624	545	393	637	511	449	429
10	654	644	655	642	726	651	513	387	682	531	437	422
11	660	629	655	641	740	660	450	365	662	521	424	384
12	655	645	653	643	716	633	442	321	649	479	383	366
13	658	650	659	647	715	625	508	337	517	398	370	358
14	661	650	668	650	679	620	503	346	549	403	361	330
15	662	648	668	654	699	585	529	354	416	363	368	340
16	659	653	668	653	672	609	409	331	435	390	389	364
17	658	650	660	645	646	608	469	363	452	352	400	386
18	661	651	649	622	673	591	478	378	406	337	411	396
19	659	650	628	593	646	552	480	365	351	312	427	412
20	660	647	647	630	678	552	506	376	377	313	436	425
21	660	644	657	635	630	368	491	364	407	380	446	435
22	662	643	660	634	694	448	563	381	408	387	449	441
23	656	644	684	659	695	571	551	333	388	375	452	447
24	651	634	712	664	651	544	531	334	403	374	455	450
25	647	634	677	658	657	557	539	384	410	396	460	453
26	639	619	692	664	550	467	547	358	430	406	467	457
27	645	620	675	663	460	413	493	324	436	403	466	460
28	647	622	669	649	478	427	522	444	452	437	478	459
29	646	626	681	652	538	458	638	488	---	---	481	461
30	636	617	678	630	517	475	591	479	---	---	473	461
31	645	624	---	---	514	482	582	480	---	---	479	438
MONTH	666	617	712	593	740	368	657	321	682	312	481	330
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	444	417	497	467	462	412	572	566	753	736	790	780
2	439	406	501	463	562	442	574	566	788	755	793	778
3	420	408	467	435	509	499	575	568	805	771	814	789
4	418	406	436	413	505	489	580	570	804	776	829	809
5	427	400	412	392	504	500	594	577	806	778	847	823
6	432	409	455	407	506	500	601	589	805	775	852	838
7	435	403	475	389	512	506	600	591	796	779	851	837
8	443	419	420	376	511	503	605	598	802	771	844	819
9	444	415	380	365	502	490	604	601	804	761	822	806
10	437	416	375	368	490	477	611	601	794	767	813	797
11	434	411	381	371	489	468	612	606	820	783	818	804
12	441	422	401	382	494	476	618	604	832	794	821	810
13	446	434	409	400	510	495	632	617	833	806	820	807
14	452	426	407	400	518	506	635	626	846	812	827	803
15	469	449	404	392	535	519	641	633	838	820	832	817
16	477	463	391	385	539	529	642	622	846	812	829	818
17	466	453	395	384	542	531	641	628	835	806	830	815
18	457	447	397	392	546	539	650	640	826	802	834	821
19	448	433	395	388	547	534	662	649	818	797	832	820
20	455	439	386	365	549	541	682	655	824	797	837	819
21	462	405	399	373	557	543	694	672	836	801	858	821
22	410	389	405	387	551	541	701	688	838	814	849	834
23	403	373	433	390	560	545	711	699	847	821	854	834
24	380	355	437	378	560	549	718	702	868	836	875	856
25	362	350	432	380	564	552	728	711	848	824	866	849
26	388	363	415	375	559	546	736	717	858	829	855	845
27	387	376	436	389	565	550	742	715	840	818	857	847
28	394	387	452	435	565	553	756	727	825	805	861	852
29	399	372	456	445	567	562	769	743	807	791	866	856
30	493	372	452	388	575	562	762	725	802	785	867	857
31	---	---	428	404	---	---	751	730	798	777	---	---
MONTH	493	350	501	365	575	412	769	566	868	736	875	778
YEAR	875	312										

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi².

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.--Records 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.--13 years (1962-68, 1978-83), 6.20 ft³/s, 4,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft³/s Feb. 1, 1963, gage height 4.00 ft from rating curve extended above 24 ft³/s on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft³/s May 26, gage height, 2.92 ft; minimum daily, 1.6 ft³/s Dec. 9 (result of freezeup).

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	2.3	2.4	2.9	2.0	2.5	14	30	86	101	21	4.6	3.6
2	2.0	2.2	2.8	2.3	2.8	16	31	81	99	20	4.1	3.5
3	2.0	2.3	3.0	2.5	2.5	20	30	82	91	18	3.8	3.0
4	2.0	2.2	2.9	2.8	3.0	23	28	92	79	16	3.5	2.8
5	2.0	2.2	2.9	3.0	2.4	19	27	106	69	16	3.3	2.6
6	2.0	2.2	2.7	3.0	2.7	17	27	106	63	17	3.1	2.5
7	2.2	2.3	2.4	5.5	2.9	17	25	103	59	16	3.0	2.4
8	2.1	2.3	2.2	4.7	3.0	17	27	103	60	13	3.3	2.4
9	2.1	2.6	1.6	4.2	3.0	19	27	96	60	14	4.3	2.5
10	1.9	2.4	2.1	3.1	3.1	24	27	86	60	11	4.2	2.5
11	1.9	3.0	2.1	3.0	3.2	27	28	79	64	10	4.1	2.4
12	1.7	2.7	2.2	3.1	3.8	24	27	72	54	9.7	3.4	2.5
13	1.7	2.9	2.8	3.1	7.2	56	27	70	45	10	3.2	2.5
14	1.7	2.4	2.6	2.7	5.4	61	27	75	40	12	3.0	2.6
15	1.8	2.6	2.9	2.8	5.4	41	28	81	38	9.7	3.4	2.4
16	1.8	2.6	2.9	3.1	5.9	32	31	81	38	8.5	3.4	2.3
17	1.7	2.7	3.3	3.3	8.6	26	33	81	36	7.9	3.2	2.3
18	1.7	4.9	3.5	3.4	11	25	36	88	36	7.3	3.2	2.3
19	1.8	3.3	3.8	3.3	7.4	23	38	100	32	7.1	4.3	2.3
20	1.9	2.9	3.9	3.0	6.9	22	55	106	28	6.8	4.1	2.5
21	2.0	2.9	6.8	3.4	7.5	21	74	118	26	6.3	3.8	2.6
22	1.8	2.8	4.3	3.4	10	20	90	123	24	6.1	4.2	2.5
23	2.2	2.5	3.9	3.3	11	19	86	120	23	5.9	4.4	3.9
24	2.1	1.8	3.0	3.4	11	19	113	120	23	5.6	3.5	3.2
25	3.5	2.2	2.3	5.0	12	18	107	120	22	5.4	3.3	2.9
26	3.8	2.4	2.8	3.3	12	16	92	124	22	5.2	3.0	3.2
27	2.4	2.8	2.7	3.2	12	18	82	125	22	5.1	2.8	3.3
28	2.2	2.9	1.8	3.2	12	18	72	114	21	4.9	2.7	3.1
29	2.6	3.2	2.0	3.2	---	20	74	125	21	4.6	2.7	3.0
30	3.6	3.0	1.8	2.8	---	24	90	107	20	4.3	2.7	3.1
31	2.7	---	1.7	2.5	---	32	---	95	---	4.9	2.9	---
TOTAL	67.2	79.6	88.6	100.6	180.2	748	1489	3065	1376	309.3	108.5	82.7
MEAN	2.17	2.65	2.86	3.25	6.44	24.1	49.6	98.9	45.9	9.98	3.50	2.76
MAX	3.8	4.9	6.8	5.5	12	61	113	125	101	21	4.6	3.9
MIN	1.7	1.8	1.6	2.0	2.4	14	25	70	20	4.3	2.7	2.3
AC-FT	133	158	176	200	357	1480	2950	6080	2730	613	215	164
CAL YR 1982	TOTAL	3031.41	MEAN	8.31	MAX	39	MIN	.75	AC-FT	6010		
WTR YR 1983	TOTAL	7694.70	MEAN	21.1	MAX	125	MIN	1.6	AC-FT	15260		

HUALAPAI FLAT

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 mi², 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 good. No diversion or regulation above station.

AVERAGE DISCHARGE.--10 years (1974-83) 0.79 ft³/s, 572 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 476 ft³/s, Mar. 1, 1983, gage height, 4.13 ft, from rating curve extended above 400 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 476 ft³/s Mar. 1, gage height, 4.13 ft; no flow Oct. 1-25, 29; Nov. 1 to Dec. 4.

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	.00	.00	.00	.05	4.2	152	5.0	6.6	7.1	.85	.02	.02
2	.00	.00	.00	.05	4.2	36	4.8	6.5	6.6	.85	.02	.02
3	.00	.00	.00	.05	3.2	35	4.3	6.1	7.5	.56	.02	.02
4	.00	.00	.00	.06	2.6	18	4.2	6.5	6.3	.36	.02	.02
5	.00	.00	.15	.05	2.6	12	3.5	6.6	5.7	.12	.02	.02
6	.00	.00	1.1	.06	3.1	10	3.2	6.2	5.3	.06	.02	.02
7	.00	.00	.93	.63	3.9	10	3.2	6.1	5.2	.09	.02	.02
8	.00	.00	.02	4.0	4.2	10	3.5	6.2	5.6	.11	.02	.02
9	.00	.00	.02	2.4	4.8	11	3.8	5.9	5.0	.12	.02	.02
10	.00	.00	.02	.94	5.7	11	3.6	5.8	4.9	.08	.02	.02
11	.00	.00	.02	.51	7.9	11	3.5	5.7	4.9	.05	.02	.02
12	.00	.00	.02	.41	15	9.2	3.4	5.3	4.2	.03	.02	.02
13	.00	.00	.02	.33	24	21	2.6	5.4	3.7	.03	.02	.02
14	.00	.00	.02	.31	14	9.3	2.5	5.4	3.3	.02	.03	.02
15	.00	.00	.02	.26	12	6.8	2.4	5.7	3.1	.02	.03	.02
16	.00	.00	.02	.26	12	6.0	2.7	5.7	2.8	.02	.03	.02
17	.00	.00	.02	.22	18	5.9	3.5	5.5	2.2	.02	.03	.02
18	.00	.00	.02	.23	14	5.3	4.7	5.5	2.2	.02	.03	.02
19	.00	.00	.03	5.5	5.8	4.6	5.9	6.0	2.0	.02	.03	.02
20	.00	.00	.03	3.3	4.1	4.5	6.2	6.1	2.2	.02	.03	.02
21	.00	.00	.04	2.5	5.3	4.6	6.6	6.3	1.9	.02	.03	.02
22	.00	.00	.04	1.8	11	4.5	6.9	6.5	1.5	.02	.03	.02
23	.00	.00	.04	1.2	12	4.2	6.5	6.5	1.5	.02	.03	.02
24	.00	.00	.04	1.2	7.1	4.8	6.1	6.5	1.5	.02	.03	.02
25	.00	.00	.04	.77	5.1	5.4	5.6	6.5	1.3	.02	.03	.02
26	.16	.00	.04	.77	5.3	4.8	5.4	6.5	1.0	.02	.03	.02
27	.03	.00	.05	7.4	7.3	5.0	5.4	6.4	1.1	.02	.03	.02
28	.02	.00	.05	7.9	15	4.9	6.0	6.4	.94	.02	.03	.02
29	.00	.00	.05	6.3	---	4.4	6.6	6.4	.84	.02	.03	.02
30	.01	.00	.05	4.9	---	4.4	6.1	6.6	.85	.02	.03	.02
31	.01	---	.05	4.5	---	6.4	---	7.3	---	.02	.02	---
TOTAL	.23	.00	2.95	58.86	233.4	442.0	137.7	190.7	102.23	3.67	.79	.60
MEAN	.007	.000	.095	1.90	8.34	14.3	4.59	6.15	3.41	.12	.025	.020
MAX	.16	.00	1.1	7.9	24	152	6.9	7.3	7.5	.85	.03	.02
MIN	.00	.00	.00	.05	2.6	4.2	2.4	5.3	.84	.02	.02	.02
AC-FT	.5	.00	5.9	117	463	877	273	378	203	7.3	1.6	1.2
CAL YR 1982	TOTAL	95.30	MEAN	.26	MAX	14	MIN	.00	AC-FT	189		
WTR YR 1983	TOTAL	1173.13	MEAN	3.21	MAX	152	MIN	.00	AC-FT	2330		

SNAKE RIVER BASIN

261

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.21 E., 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 mi². 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). Monthly measurements of specific conductance and water temperature are listed in section entitled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--69 years, 47.2 ft³/s, 34,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s Feb. 11, 1962, gage height, 9.3 ft, from rating curve extended above 20 ft³/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, 392 ft³/s May 28, 29, gage height, 4.06 ft; minimum daily, 14 ft³/s Sept. 5, 6.

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	32	46	36	16	25	65	74	201	372	55	29	17
2	33	40	34	17	26	88	76	221	372	60	38	15
3	32	36	26	28	18	99	74	221	334	62	53	16
4	29	34	29	35	17	79	72	228	301	62	34	15
5	28	33	40	37	17	73	70	246	294	53	26	14
6	27	33	41	36	20	70	71	269	261	48	24	14
7	26	32	30	60	25	68	68	280	230	44	22	16
8	26	32	23	70	22	70	69	284	212	39	26	19
9	26	32	25	45	26	68	67	280	209	43	41	38
10	26	32	29	35	32	65	67	280	197	49	36	35
11	26	32	31	30	30	69	68	286	189	49	41	25
12	26	30	32	24	34	74	68	280	194	48	33	22
13	26	31	34	24	36	80	67	251	178	43	29	21
14	26	26	33	23	37	94	67	223	152	39	26	21
15	25	27	36	23	38	100	66	206	133	33	26	20
16	24	37	38	23	43	93	66	209	118	33	27	19
17	25	36	36	24	54	89	66	202	108	32	30	18
18	24	35	38	24	65	87	71	189	97	31	30	18
19	24	34	35	24	107	82	85	191	92	31	30	18
20	24	33	34	23	69	74	104	189	89	24	34	19
21	25	28	38	22	54	69	123	193	89	26	54	20
22	26	25	36	22	63	70	149	206	91	32	46	22
23	26	24	36	24	69	67	167	242	84	43	42	23
24	26	23	28	26	75	68	196	274	75	44	38	26
25	26	24	19	27	85	68	224	311	69	38	32	23
26	28	29	19	26	89	66	237	338	65	34	29	22
27	29	29	19	28	67	66	216	363	66	32	26	26
28	29	31	18	26	58	67	199	381	66	29	24	33
29	30	35	15	25	---	65	194	385	56	26	24	38
30	37	36	16	26	---	66	193	383	55	24	22	38
31	43	---	16	24	---	70	---	372	---	24	21	---
TOTAL	860	955	920	897	1301	2329	3334	8184	4848	1230	993	671
MEAN	27.7	31.8	29.7	28.9	46.5	75.1	111	264	162	39.7	32.0	22.4
MAX	43	46	41	70	107	100	237	385	372	62	54	38
MIN	24	23	15	16	17	65	66	189	55	24	21	14
AC-FT	1710	1890	1820	1780	2580	4620	6610	16230	9620	2440	1970	1330
CAL YR 1982	TOTAL	23140.8	MEAN	68.4	MAX	519	MIN	7.6	AC-FT	45900		
WTR YR 1983	TOTAL	26522	MEAN	72.7	MAX	385	MIN	14	AC-FT	52610		

SALMON FALLS CREEK BASIN

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 mi², 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, 1916, 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.--71 years (1922-16, 1919-83), 142 ft³/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s May 18, 1975, gage height, 10.83 ft; maximum gage height, 12.65 ft Feb. 12, 1962; minimum discharge, 2.6 ft³/s Sept. 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft³/s June 1, gage height, 9.21 ft; minimum discharge, 24 ft³/s Feb. 4, may have been less during periods of ice effect.

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	84	92	79	35	68	247	310	598	1250	210	63	45
2	83	84	69	39	71	718	290	645	1210	204	58	45
3	76	81	66	48	65	725	287	645	1070	194	58	46
4	75	77	69	58	50	456	251	672	984	180	57	46
5	75	79	75	80	44	377	251	754	949	165	50	46
6	71	77	80	101	50	297	238	836	832	150	50	44
7	70	79	66	124	71	261	216	801	711	135	50	41
8	68	79	44	154	73	258	208	729	672	122	56	42
9	68	77	50	105	75	238	204	758	659	119	55	42
10	66	79	56	92	69	251	214	777	659	124	53	41
11	66	76	69	84	69	300	223	714	665	127	64	41
12	65	75	66	79	71	325	225	659	732	116	71	41
13	66	70	70	75	88	325	223	588	659	108	65	41
14	68	68	71	74	84	388	219	537	563	98	61	41
15	67	66	76	74	79	423	208	488	485	95	63	41
16	66	66	79	75	75	356	206	501	444	102	67	40
17	65	68	79	80	74	320	214	491	432	105	69	40
18	65	74	77	83	106	303	256	472	399	101	79	41
19	64	80	75	83	188	265	325	485	402	92	74	39
20	64	80	75	83	130	229	382	504	385	86	77	43
21	63	71	74	80	130	223	459	557	402	83	74	45
22	64	64	80	73	180	214	530	632	426	79	65	48
23	65	51	85	75	198	206	605	774	338	77	62	50
24	66	45	52	77	254	206	704	881	290	80	58	54
25	66	52	41	76	358	204	881	964	275	80	54	53
26	71	59	43	75	305	196	828	1020	265	76	51	51
27	75	65	40	76	210	194	672	1080	263	71	49	71
28	77	69	36	77	171	196	577	1160	251	68	45	80
29	76	74	33	75	---	186	550	1200	238	65	44	80
30	85	76	37	75	---	178	577	1230	223	64	42	86
31	95	---	35	69	---	227	---	1240	---	63	45	---
TOTAL	2195	2153	1947	2454	3406	9292	11333	23392	17133	3439	1829	1464
MEAN	70.8	71.8	62.8	79.2	122	300	378	755	571	111	59.0	48.8
MAX	95	92	85	154	358	725	881	1240	1250	210	79	86
MIN	63	45	33	35	44	178	204	472	223	63	42	39
AC-FT	4350	4270	3860	4870	6760	18430	22480	46400	33980	6820	3630	2900
CAL YR 1982	TOTAL	70318	MEAN	193	MAX	1010	MIN	22	AC-FT	139400		
WTR YR 1983	TOTAL	80037	MEAN	219	MAX	1250	MIN	33	AC-FT	158800		

SALMON FALLS CREEK BASIN

263

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi west of Rogerson, and at mile 46.0.

DRAINAGE AREA.--1,610 mi², approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft maximum operating level. Dead storage, 48,000 acre-ft. Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 166,000 acre-ft June 24, 1975, gage height, 75.00 ft; minimum observed, 125 acre-ft Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 119,800 acre-ft June 15, gage height, 59.70 ft; minimum observed, 30,900 acre-ft Oct. 1, gage height, 20.55 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

20.0	30,000	40.0	69,800
30.0	48,800	50.0	93,000
	60.0	120,600	

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30900	33800	---	39200	42600	47300	62300	82300	112100	113000	85700	72500
2	31000	33900	36700	39300	42700	47700	62800	83300	113400	112400	84800	71800
3	31200	34000	36800	---	42800	48600	63200	84400	114400	111800	84000	71200
4	31400	34100	---	39400	---	50000	63700	85700	115300	111400	83300	70500
5	---	34300	37000	39500	42900	50700	64000	86900	116200	111000	82600	70000
6	31400	34400	37200	39600	43000	51300	64400	88200	117000	110400	81800	69300
7	31500	34500	---	39700	43100	51800	64900	89600	117900	109700	81300	68600
8	31600	34600	37300	39900	---	52300	65200	91300	118100	108700	80600	68000
9	31700	34800	37400	40100	43200	52700	65600	92600	118400	107900	79900	67300
10	31800	34800	37500	40300	43400	53100	65900	93900	118700	107000	79300	66700
11	31900	34900	37600	40400	43500	53500	66100	95300	119000	106200	78800	66100
12	31900	35000	37700	40600	43600	54000	66500	96700	119100	105400	78200	65500
13	32100	35100	37800	40700	43700	54500	66900	97900	119400	104300	77700	65000
14	32200	35200	37900	40800	43900	54900	67300	99100	119700	103200	77300	64700
15	32300	35300	38000	40900	44000	55600	67800	100200	119800	102200	76800	---
16	---	35400	38200	41000	44100	56200	68100	100900	119500	101200	76300	---
17	32300	---	38300	41100	44200	56900	68500	101300	119400	100200	75800	---
18	32400	---	38400	41200	---	57300	68800	101900	119000	99200	75400	---
19	32500	35600	38500	41300	44300	58000	69300	102300	118700	98200	74900	---
20	32600	35800	38500	41400	44700	58400	69700	102700	118400	97100	74600	64600
21	---	35900	38600	41600	44800	58700	70500	103200	118000	96200	74100	---
22	32700	36000	38700	41700	44900	59100	71300	103600	117700	95200	73800	---
23	32800	---	38800	41800	45100	59400	72200	104200	117400	94200	73400	64600
24	32900	36000	---	---	45400	59800	73600	104800	116900	93000	73100	---
25	33000	---	38900	---	45800	60100	74600	105600	116400	92200	72700	---
26	33100	36100	---	41900	46300	60500	75900	106400	115900	91200	72700	64500
27	33200	---	39000	42100	46800	60800	77600	107300	115300	90300	---	64700
28	33300	36200	---	42200	47100	61100	79100	108100	114800	89300	---	64900
29	33400	36300	39100	42400	---	61400	80000	109000	114200	88400	72600	65000
30	33600	36500	---	42500	---	61700	81100	110100	113500	87500	---	65100
31	33600	---	39200	42600	---	62100	---	111200	---	86500	72500	---
MAX	---	---	---	---	---	62100	81100	111200	119800	113000	---	---
MIN	---	---	---	---	---	47300	62300	82300	112100	86500	---	---
†	22.05	23.60	25.05	26.90	29.10	36.45	44.85	56.60	57.45	47.15	41.15	37.85
‡	+2800	+2900	+2700	+3400	+4500	+15000	+19000	+30100	+2300	-27000	-14000	-7400

CAL YR 1982 † +25000
WTP YR 1983 ‡ +34300

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

‡ Change in contents, in acre-feet.

BRUNEAU RIVER BASIN

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.--302 mi². Area at crest-stage site, 380 mi².

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 good except those for winter months and period of no gage-height record, May 10 to June 20, which are poor. Minor diversions for irrigation above station. Monthly measurements of specific conductance and water temperature "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--22 years, 120 ft³/s, 86,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s Feb. 11, 1962, gage height, 13.0 ft site and datum then in use; minimum daily, 2.5 ft³/s Sept. 18, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 14	0700	512	5.45
Apr. 24	1100	*1,750	9.07

Minimum daily discharge, 19 ft³/s, Sept. 14, 16-19.

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	45	93	42	37	32	104	287	740	590	227	40	25
2	43	78	38	42	28	136	294	755	570	221	37	25
3	40	67	39	47	29	149	277	789	560	210	37	25
4	38	63	44	52	32	161	251	816	550	191	33	24
5	39	62	45	59	28	157	251	910	530	171	30	23
6	37	59	47	58	31	151	234	806	510	168	28	22
7	36	57	47	57	35	149	226	730	400	151	26	21
8	36	57	38	58	39	151	233	744	470	140	31	20
9	35	55	35	52	46	172	253	704	450	137	38	20
10	34	54	33	49	50	227	268	670	440	134	47	20
11	33	52	45	46	58	283	279	630	430	125	44	20
12	33	43	57	45	58	293	279	600	410	116	39	20
13	32	49	63	47	80	354	265	560	390	107	35	20
14	32	31	76	45	68	450	267	530	380	96	32	19
15	31	42	49	48	59	356	273	505	370	95	29	21
16	31	43	48	48	59	308	301	490	360	92	36	19
17	30	49	48	49	57	273	373	470	350	86	35	19
18	30	48	47	50	62	227	545	450	340	79	35	19
19	29	55	45	52	62	213	672	440	330	76	37	19
20	30	47	44	54	53	184	719	430	325	72	45	20
21	30	36	48	48	63	180	845	440	319	66	44	22
22	32	34	55	48	63	176	973	450	300	64	45	23
23	32	31	60	55	68	171	1200	470	298	66	43	23
24	32	37	38	54	78	167	1590	490	289	64	40	24
25	32	41	37	54	85	169	1170	520	284	56	36	28
26	42	44	35	52	95	166	873	540	283	53	33	26
27	48	47	34	54	89	171	702	550	281	50	35	28
28	41	51	33	55	91	166	667	570	263	50	42	28
29	50	44	32	52	---	175	686	580	251	45	37	29
30	116	43	30	52	---	190	714	590	226	42	30	53
31	113	---	32	37	---	203	---	590	---	39	26	---
TOTAL	1262	1512	1364	1556	1598	6512	15967	18559	11629	3289	1125	705
MEAN	40.7	50.4	44.0	50.2	57.1	210	532	599	388	106	36.3	23.5
MAX	116	93	76	59	95	450	1590	910	590	227	47	53
MIN	29	31	30	37	28	104	226	430	226	39	26	19
AC-FT	2500	3000	2710	3090	3170	12920	31670	36810	23070	6520	2230	1400
CAL YR 1982	TOTAL	59706	MEAN	164	MAX	970	MIN	11	AC-FT	118400		
WTR YR 1983	TOTAL	65078	MEAN	178	MAX	1590	MIN	19	AC-FT	129100		

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'10", long 115°50'35", in NE¼NW¼ sec.25, T.44 N., R.54 E., 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 mi².

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, 79,130 acre-ft Apr. 25, 1983, altitude 6,207.41 ft; minimum observed, no contents at times in each year (1938-41), 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 79,130 acre-ft Apr. 25, altitude 6,207.41 ft; minimum recorded, 53,680 acre-ft Oct. 18, 19, altitude 6,198.55.

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

6,198	52,310	6,204	68,510
6,200	53,390	6,206	74,590
6,202	62,780	6,208	81,070

MONTH-END ALTITUDES AND TOTAL CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	6,198.58	53,760	--
Oct. 31.	6,198.74	54,160	+ 400
Nov. 30.	6,199.11	55,100	+ 940
Dec. 31.	6,199.57	56,280	+ 1,180
CAL YR 1982	--	--	+33,020
Jan. 31.	6,200.07	57,570	+ 1,290
Feb. 28.	6,200.60	58,930	+ 1,410
Mar. 31.	6,202.26	63,520	+ 4,540
Apr. 30.	6,206.97	77,680	+14,160
May 31.	6,205.39	72,710	- 4,970
June 30.	6,205.32	72,490	- 220
July 31.	6,203.00	65,600	- 6,890
Aug. 31.	6,200.07	57,570	- 8,030
Sept. 30.	6,198.93	54,640	- 2,930
WTR YR 1982-83	--	--	+ 880

OWYHEE RIVER BASIN

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 mi².

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.--55 years (1917-25, 1936-83), 43.4 ft³/s, 31,440 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft³/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, about 1,700 ft³/s Apr. 25, gage height, 5.45 ft; minimum daily, 2.4 ft³/s Nov. 3-8, Dec. 1-13, 16-22, 24-27, 29 to Jan. 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	6.4	2.5	2.4	2.4	3.1	51	52	762	250	68	170	3.5
2	4.0	2.5	2.4	2.5	3.1	51	52	725	293	96	174	3.5
3	3.0	2.4	2.4	2.6	3.0	52	52	717	286	81	154	3.5
4	3.0	2.4	2.4	2.8	3.0	51	52	727	294	75	158	3.5
5	2.8	2.4	2.4	3.0	3.3	51	52	744	284	71	160	3.7
6	2.8	2.4	2.4	3.0	3.1	51	52	763	275	66	182	3.7
7	2.5	2.4	2.4	3.0	3.1	51	52	711	152	70	177	3.7
8	2.5	2.4	2.4	3.0	3.0	51	52	666	93	75	173	3.6
9	2.5	2.5	2.4	3.0	3.0	51	52	632	107	75	174	3.7
10	2.5	2.5	2.4	3.0	3.1	52	52	564	110	74	167	3.9
11	2.5	2.5	2.4	3.0	3.0	50	52	509	115	90	155	3.9
12	2.5	2.5	2.4	3.0	3.0	50	52	466	120	104	125	29
13	2.5	2.5	2.4	3.0	3.0	51	52	434	118	106	129	45
14	2.5	2.5	2.5	3.0	3.1	51	51	413	119	107	171	79
15	2.5	2.5	2.5	3.0	3.1	51	51	385	113	105	157	113
16	2.5	2.5	2.4	3.0	3.1	52	53	381	110	105	158	103
17	2.5	2.5	2.4	2.8	3.0	52	53	399	104	103	163	74
18	2.5	2.5	2.4	2.8	3.0	52	54	487	95	134	144	69
19	2.5	2.5	2.4	2.8	3.0	52	54	457	85	108	128	68
20	2.5	2.5	2.4	3.0	3.0	52	67	440	81	115	103	72
21	2.5	2.5	2.4	3.0	3.0	52	136	439	78	123	108	68
22	2.5	2.5	2.4	3.1	3.0	53	273	435	76	107	126	66
23	2.5	2.5	2.5	3.1	3.0	53	500	422	68	99	117	76
24	2.5	2.5	2.4	3.0	12	53	1000	407	62	115	84	76
25	2.5	2.5	2.4	3.1	35	53	1100	395	58	111	83	67
26	2.5	2.5	2.4	3.1	35	54	950	378	56	108	30	65
27	2.5	2.5	2.4	3.0	35	55	844	371	53	124	4.1	52
28	2.5	2.5	2.5	3.0	42	54	793	366	51	130	3.3	48
29	2.5	2.5	2.4	3.1	---	53	785	353	49	170	3.3	53
30	2.5	2.5	2.4	3.1	---	52	772	321	47	180	3.3	56
31	2.5	---	2.4	3.1	---	53	---	234	---	171	3.5	---
TOTAL	84.5	74.4	74.8	91.4	229.1	1610	8212	15503	3802	3266	3687.5	1319.2
MEAN	2.73	2.48	2.41	2.95	8.18	51.9	274	500	127	105	119	44.0
MAX	6.4	2.5	2.5	3.1	42	55	1100	763	294	180	182	113
MIN	2.5	2.4	2.4	2.4	3.0	50	51	234	47	66	3.3	3.5
AC-FT	168	148	148	181	454	3190	16290	30750	7540	6480	7310	2620
CAL YR 1982	TOTAL	15786.20	MEAN	43.2	MAX	237	MIN	.25	AC-FT	31310		
WTR YR 1983	TOTAL	37953.90	MEAN	104	MAX	1100	MIN	2.4	AC-FT	75280		

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 mi².

PERIOD OF RECORD.--March 1939 to current year.

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. 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 for Gaging Stations."

AVERAGE DISCHARGE.--44 years, 149 ft³/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft³/s about May 18, 1975, gage height, 10.84 ft, from inside high-water marks; minimum, 1.8 ft³/s Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft³/s Apr. 25, gage height, 10.14 ft, minimum daily, 15 ft³/s Sept. 2, 4.

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	45	60	43	48	44	274	419	1690	1580	185	192	17
2	42	53	42	54	43	448	396	1630	1440	216	191	15
3	40	48	43	60	42	381	369	1630	1320	206	188	17
4	40	47	45	70	41	338	343	1660	1360	196	186	15
5	39	46	52	75	41	313	320	1740	1150	187	185	17
6	40	45	49	89	41	275	296	1730	1030	179	199	18
7	39	44	47	125	41	293	284	1630	920	166	201	17
8	40	45	46	164	41	309	283	1590	727	166	207	16
9	39	46	45	126	41	319	298	1570	681	166	220	18
10	39	46	44	107	42	406	291	1470	649	173	205	16
11	38	45	43	79	43	498	283	1320	661	169	220	19
12	38	43	43	74	44	457	267	1150	612	166	202	18
13	37	45	42	72	51	597	257	1020	559	163	197	28
14	37	46	42	72	54	765	244	951	501	163	197	49
15	37	50	43	68	60	508	246	935	462	171	195	109
16	36	49	46	65	51	400	263	936	425	170	200	124
17	36	44	44	69	51	370	301	893	401	164	193	93
18	35	43	49	67	58	358	385	972	370	156	191	76
19	34	42	42	68	62	322	473	1040	359	182	173	80
20	36	42	50	82	65	281	544	1090	344	183	180	82
21	36	41	46	81	63	273	732	1280	333	182	180	85
22	36	41	45	78	69	262	961	1450	301	182	179	84
23	36	41	44	78	85	254	1340	1530	264	187	178	86
24	36	42	43	72	96	246	1950	1610	241	188	136	92
25	37	42	42	63	151	246	2170	1680	228	183	118	89
26	42	43	41	54	180	239	1980	1770	212	175	111	88
27	44	44	40	48	162	247	1770	1800	207	169	60	75
28	40	47	40	45	159	239	1610	1790	196	170	35	74
29	54	45	39	52	---	237	1560	1770	191	185	26	78
30	109	44	39	46	---	268	1600	1720	187	191	20	87
31	75	---	42	45	---	470	---	1600	---	192	17	---
TOTAL	1312	1359	1361	2296	1921	10893	22235	44647	17911	5531	4982	1682
MEAN	42.3	45.3	43.9	74.1	68.6	351	741	1440	597	178	161	56.1
MAX	109	60	52	164	180	765	2170	1800	1580	216	220	124
MIN	34	41	39	45	41	237	244	893	187	156	17	15
AC-FT	2600	2700	2700	4550	3810	21610	44100	88560	35530	10970	9880	3340
CAL YR 1982	TOTAL	73350	MEAN	201	MAX	1040	MIN	27	AC-FT	145500		
WTR YR 1983	TOTAL	116130	MEAN	318	MAX	2170	MIN	15	AC-FT	230300		

OWYHEE RIVER BASIN

13181000 OWYHEE RIVER NEAR ROME, OR

LOCATION.--Lat 42°52'02", long 117°38'52", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, Hydrologic Unit 17050107, on right bank 0.5 mi downstream from Jordan Creek, 2.6 mi north of Rome, and at mile 122.4.

DRAINAGE AREA.--About 8,000 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft, National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1960, at datum 0.24 ft lower.

REMARKS.--Records excellent. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft, increased in 1970; Wild Horse Reservoir, capacity, 32,690 acre-ft; and numerous small reservoirs. Diversions above station for irrigation.

AVERAGE DISCHARGE.--34 years, 949 ft³/s, 687,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft³/s Dec. 24, 1964, gage height, 16.7 ft, from floodmark; minimum, 42 ft³/s Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 4	2000	10,400	10.37	Apr. 24	1530	7,250	8.43
Mar. 14	1430	*16,400	13.07	May 2	1830	10,200	10.27
Apr. 1	1300	11,200	10.74	June 4	2200	8,210	9.12

Minimum, 192 ft³/s, Oct. 14, 15, 19, 20.

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	225	795	432	270	512	3570	9210	6560	5620	890	324	304
2	219	651	436	245	472	5120	7290	9320	6180	896	312	292
3	212	503	448	300	468	7300	6460	8290	6870	932	300	277
4	209	412	412	400	380	8660	5390	6790	6810	932	300	273
5	222	356	396	633	344	9430	4540	6550	6370	908	304	266
6	222	316	472	888	368	7540	4000	7350	5070	824	288	259
7	222	288	795	1150	404	6470	3650	7700	4350	740	280	249
8	222	277	633	1690	468	7290	3450	6910	3810	695	277	231
9	215	270	503	2540	452	6980	3550	6300	3410	630	280	221
10	212	270	424	1750	480	7730	3990	5820	3300	585	288	207
11	205	266	392	1280	525	7950	3560	5700	3190	550	316	198
12	202	270	348	1020	710	8200	3170	5750	3040	520	360	201
13	199	259	320	800	1150	10000	2990	5880	2910	510	463	204
14	196	256	320	629	3580	15300	2780	5000	2750	515	409	207
15	199	249	340	561	3320	12400	2800	4540	2500	515	392	207
16	205	232	370	548	2430	8660	3000	4290	2210	510	384	214
17	205	225	408	579	1920	6770	3420	4080	2010	525	384	207
18	199	270	416	593	2070	5860	3970	3910	1780	454	380	210
19	192	324	412	579	2850	5610	4630	3960	1520	441	388	210
20	196	440	420	543	2820	4960	4840	3960	1280	423	392	201
21	202	660	420	530	2160	4280	5490	4060	1200	400	409	201
22	202	615	472	507	2290	3820	6370	4220	1210	380	445	224
23	202	498	584	476	3010	3600	6160	4390	1240	376	454	221
24	199	368	570	464	3260	3430	6560	4570	1110	356	490	214
25	205	252	476	472	3700	3200	6440	4830	1010	324	500	217
26	219	277	364	472	4220	3190	6330	4980	926	308	481	214
27	222	280	260	460	4440	3150	6290	5180	860	300	445	217
28	235	300	260	593	3760	3340	5830	5340	890	308	400	221
29	259	328	260	651	---	3640	5220	5350	944	324	360	217
30	364	376	270	579	---	5090	5310	5330	962	328	332	221
31	539	---	290	561	---	7070	---	5350	---	336	312	---
TOTAL	7026	10883	12923	22763	52563	199610	146690	172260	85332	16735	11449	6805
MEAN	227	363	417	734	1877	6439	4890	5557	2844	540	369	227
MAX	539	795	795	2540	4440	15300	9210	9320	6870	932	500	304
MIN	192	225	260	245	344	3150	2780	3910	860	300	277	198
AC-FT	13940	21590	25630	45150	104300	395900	291000	341700	169300	33190	22710	13500
CAL YR 1982	TOTAL	562664	MEAN	1542	MAX	18600	MIN	164	AC-FT	1116000		
WTR YR 1983	TOTAL	745039	MEAN	2041	MAX	15300	MIN	192	AC-FT	1478000		

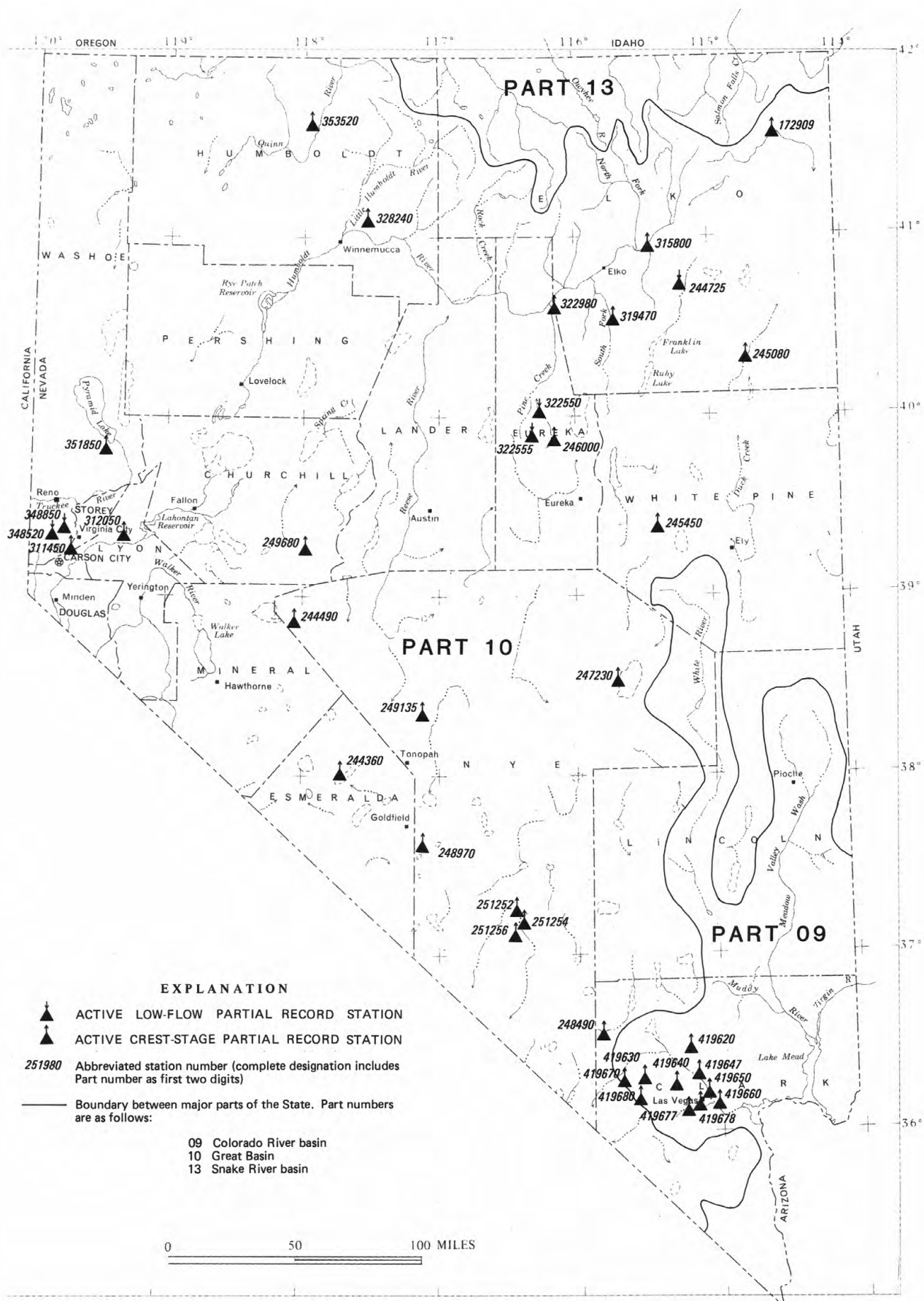


FIGURE 5.—Streamflow partial-record stations listed in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Ruby Valley						
10244725	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.31 N., R.59 E., Elko County, 0.8 mile west of McCreas Ranch and 13.5 miles northeast of Ruby Valley Post Office.	7.56	1965-83	1-14-83 6-08-83 8-23-83	3.79 71.3 8.47
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE $\frac{1}{4}$ 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	1972-83	2-22-83 5-05-83 6-27-82	0 17.5 3.75
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	1972-83	5-03-83 6-27-82	4.53 5.99
Pyramid and Winnemucca Lakes basin						
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.17 N., R.19 E., Washoe County, at base of hill 8.0 miles southwest of Steamboat.	4.2	1972-83	3-09-82	7.95
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.17 N., R.19 E., Washoe County, 1.5 miles upstream from mouth and 5.0 miles southwest of Steamboat.	3.6	1972-83	3-09-83	7.93

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges at crest-stage stations during water year 1982. 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 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)	Dis-charge (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	1962-83	3-3-83	--	105
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	1962-83	9-24-83	5.15	60
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	1961-83	6-1-83	0.69	3.0
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°13'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 mile southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	A62	1963-83	8-17-83	1.50	110
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, 1982-83	8-29-83	--	590
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	1961-83	1-30-82	--	1.0
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	1983	--	0
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.	8.09	1962-83	3-3-83	26.88	1,990
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	1969-83	8-10-83	12.15	4,700
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	1969-83	8-10-83	--	3,560

E: ESTIMATED.

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-Stage Partial-Record Stations--continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Las Vegas Valley--continued							
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road, 3 miles southwest of Blue Diamond.	18.3	1961-83	3-3-83	--	103
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, 1981-83	9-83	2.88	1.0
Clover and Independence Valleys							
10244240	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93, 21 miles southeast of Arthur.	A3	1968-83	2-83	2.84	4.0
Dixie Valley basin							
10244360	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'30", long 117°59'00", in SE $\frac{1}{4}$ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50, 6 miles west of Eastgate.	A11	1961-83	3-83	--	3.0
Rawhide Flats							
10244460	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S $\frac{1}{2}$ SW $\frac{1}{4}$ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95, 14 miles north of Schurz.	0.96	1967-81 1983	1983	--	1.0
Gabbs Valley							
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ 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, 1981-83	1983	--	0
Steptoe and Goshute Valleys							
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE $\frac{1}{4}$ 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	1961-83	1983	--	0
Jakes Valley							
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ 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	1962-83	8-9-83	--	1,120

E: ESTIMATED.

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Crest-Stage Partial-Record Stations--continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
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 north-west of Eureka.	2.12	1962-83	8-83	--	190
Stonewall Flats basin							
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.4 S., R.42 E., Esmeralda County, 8 miles south of Goldfield.	0.53	1964-79 1981, 1983	1983	--	0
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	1961-83	1983	--	0
Amargosa Desert							
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.12 S., R.47 E., Nye County, 170 feet downstream from airport road, 2.8 miles south of Beatty.	A470	1963-68, 1969-81, 1983	3-3-83	--	120
10251250	Fortymile Wash cross-section 7, Nevada Test Site, Nev.	Lat 36°52'40", long 116°23'20", Nye County, about 38 miles north-west of Mercury.	256	1982-83	3-3-83	--	1,520
10251252	Yucca Wash, Nevada Test Site, Nev.	Lat 36°52'00", long 116°23'40", Nye County, about 37 miles north-west of Mercury.	16.6	1982-83	3-3-83	--	100
10251254	Drill Hole Wash, Nevada Test Site, Nev.	Lat 36°49'20", long 116°24'00", Nye County, about 32 miles north-west of Mercury.	15.4	1983	1983	--	0
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	1982-83	1983	--	0
10251258	Fortymile Wash cross-section 1, Nevada Test Site, Nev.	Lat 36°45'00", long 116°23'40", Nye County, about 29 miles west of Mercury.	312	1982-83	3-3-83	--	325
Carson River basin							
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ 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, 1980-83	2-8-83	2.05	34
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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, 1981-83	1983	--	0

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
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, 1981-83	3-83	5.33	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, 1982-83	3-83	3.80	15
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-83	6-83	--	1,090
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, 1980-83	1983	--	0
Pyramid and Winnemucca Lakes basin							
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on former Southern Pacific Railroad right-of-way, 6.5 miles west of Nixon.	1.94	1968-79, 1981-83	2-3-83	--	5.0
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, 1980-83	1983	--	E5

E: ESTIMATED.

A: APPROXIMATE.

Miscellaneous Sites

The following table lists measurements of streamflow at miscellaneous sites. Data for the Black Rock Desert, Carson River, Humboldt River, and Spring Valley basins are for water year 1983 only. Data for Pyramid and Winnemucca Lake Basin list measurements for water year 1979.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Black Rock Desert Basin						
10353700 Leonard Creek near Denio	Quinn River	Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, Hydrologic Unit 16040202, 0.3 miles upstream from concrete diversion structure, 0.7 miles upstream from Leonard Creek ranch buildings, about 18 miles upstream from Quinn River, and 32 miles south of Denio.	52 approx.	1960-81†	7-13-83	22.1
Carson River basin						
Fredricksburg Canyon Creek	West Fork Carson River	Lat 38°49'41", long 119°48'29", in NE¼SE¼ sec.11, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, approx. 1.1 miles west of Fredricksburg, Calif.	3.45	1972-73, 1976-77, 1981-82	4-01-83 6-09-83 7-12-83 8-14-83	3.75 18.8 15.2 12.0
Luther Creek	West Fork Carson River	Lat 38°51'31", long 119°48'30", in NE¼SE¼ sec.35, T.12 N., R.19 E., Alpine County, Hydrologic Unit 16050201, approx. 2.4 miles northwest of Fredricksburg, Calif., at split box.	4.42	1976-77, 1981-82	1-06-83 7-12-83 8-24-83	1.32 13.7 9.34
Benson Spring	West Fork Carson River	Lat 38°52'36", long 119°48'49", in SW¼NE¼ sec.26, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.5 miles northwest of Fredricksburg, Calif.	--	1981-82	1-06-83 7-12-83 8-24-83	1.45 3.27 4.08
Miller Spring	West Fork Carson River	Lat 33°52'30", long 119°49'16", in NE¼NE¼ sec.27, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.1 miles southwest of Centerville.	--	1982	3-31-83 5-26-83 7-12-83 8-05-83	1.25 1.24 2.69 1.55
Jobs Canyon Creek	West Fork Carson River	Lat 38°53'28", long 119°50'22", in SW¼NW¼ sec.22 T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.6 miles southwest of Centerville.	2.97	1976, 1981-82	3-31-83 6-02-83 8-05-83 9-17-83	2.66 4.44 7.81 7.16
Barber Creek	West Fork Carson River	Lat 38°53'40", long 119°50'28", in NW¼NW¼ sec.22, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.6 miles southwest of Centerville.	.39	1981-82	6-02-83 8-05-83 9-17-83	0.70 1.62 1.82
Sheridan Creek	West Fork Carson River	Lat 38°53'46", long 119°50'48", in SE¼SE¼ sec.16, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.8 miles west of Centerville.	.23	1981-82	6-02-83 8-05-83 9-17-83	1.39 3.38 3.45

† Operates as a continuous-record gaging station.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Carson River basin--Continued						
Stutler Canyon Creek	West Fork Carson River	Lat 38°54'35", long 119°50'31", in NW¼NW¼ sec.15, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.5 miles west of Centerville.	1.90	1982	3-31-83 6-02-83 8-24-83	0.87 0.65 1.03
Mott Canyon Creek	West Fork Carson River	Lat 38°55'44", long 119°50'56", in NW¼SE¼ sec.4, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 0.7 mile west of Mottsville.	1.93	1969, 1971-73, 1976-77, 1981-82	3-30-83 7-12-83 8-24-83	4.75 7.34 7.27
Sierra Canyon Creek	Carson River	Lat 39°01'01", long 119°50'58", in NW¼SE¼ sec.4, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 0.9 mile north-west of Genoa.	3.12	1976-77, 1981-82	3-30-83 6-09-83 7-12-83 8-24-83 9-17-83	4.08 16.9 7.38 4.10 2.95
Humboldt River Basin						
10325000 Humboldt River at Battle Mountain	Humboldt River main stem	Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, 30 feet downstream from bridge on State Highway 18A, 2 miles north of Battle Mountain.	8,870 approx.	1896-97, ‡ 1921-24, ‡ 1945-81 ‡	3-07-83 3-10-83	3750 5730
Pyramid and Winnemucca Lakes basin						
Galena Creek Diversion	--	Lat 39°20'36", long 119°44'00", in NE¼NE¼NW¼ sec.14, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at topographic divide about 1400 feet from junction with Brown's Creek.	--	--	4-25-79 5-14-79 5-17-79 5-30-79 6-01-79 6-15-79 6-20-79	0.52 1.67 4.08 8.97 6.77 5.60 5.46
Galena Creek Diversion	--	Lat 39°21'11", long 119°51'11", in SE¼SE¼NW¼ sec.9, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 100 feet upstream at Highway Maintenance Station from crossing with State Route 27.	--	--	4-25-79 5-03-79 5-07-79 5-17-79 5-24-79 5-30-79 6-01-79 6-15-79 6-20-79	0.87 1.98 1.26 5.86 7.99 9.09 7.70 5.61 4.52
Galena Creek	Truckee River	Lat 39°21'20", long 119°51'11", in SE¼SE¼NW¼ sec.9, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 500 feet downstream from crossing with State Route 27.	--	--	4-25-79 5-03-79 5-07-79 5-24-79 5-30-79 6-01-79 6-15-79 6-20-79 8-30-79 9-26-79	7.37 14.5 11.8 25.5 23.6 22.2 15.6 14.2 1.32 0.92
Jones Creek	Galena Creek	Lat 39°21'54", long 119°50'55", in SW¼NE¼SE¼ sec.4, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 100 feet upstream from crossing with State Route 27.	--	--	4-27-79 5-03-79 5-14-79 5-17-79 5-24-79 5-24-79 5-30-79	0.42 0.52 0.39 0.55 0.52 0.51 0.41

‡ Operates as a continuous-record gaging station.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued						
Jones Creek	Galena Creek	Lat 39°21'43", long 119°51'57", in SE¼SE¼SE¼ sec.5, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at mountain front, 100 feet upstream from road crossing 8.5 miles west of State Route 27.	--	--	4-13-79 4-27-79 5-03-79 5-07-79 5-07-79 5-10-79 5-14-79 5-17-79 5-21-79 5-22-79 5-24-79 5-24-79 5-29-79 6-01-79 6-04-79 6-05-79 6-15-79 6-20-79 6-20-79 7-10-79 9-26-79	0.83 0.77 0.58 0.71 0.91 0.80 0.70 0.73 0.50 0.59 0.53 0.57 0.43 0.48 0.39 0.33 0.24 0.23 0.24 0.07 0.57
Thomas Creek	Truckee River	Lat 39°24'09", long 119°50'14", in NE¼NE¼NE¼ sec.26, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.3 mile west of Callahan Ranch Road and 1 mile north of State Route 7.	--	--	5-08-79	1.60
Thomas Creek	Truckee River	Lat 39°23'31", long 119°50'14", in NW¼SE¼SW¼ sec.27, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at mountain front 100 feet upstream from road crossing, 1.3 miles east of Callahan Ranch Road and 1.1 miles north of State Route 27.	--	--	5-08-79	4.76
Whites Creek	Truckee River	Lat 39°23'05", long 119°50'13", in NW¼SE¼NW¼ sec.34, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at mountain front 100 feet upstream from road cross- ing, 1.3 miles east of Callahan Ranch Road and 0.6 mile north of State Route 27.	--	--	5-08-79 5-08-79 5-21-79 6-01-79 6-15-79 6-20-79 9-26-79	5.84 7.25 2.06 9.63 11.8 10.5 1.60
Whites Creek	Truckee River	Lat 39°21'43", long 119°51'57", in NE¼NE¼NE¼ sec.35, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 100 feet upstream from road crossing, 1000 feet west of Callahan Ranch Road and 800 feet north of State Route 27.	--	--	5-21-79 6-01-79 6-15-79 6-22-79 9-26-79	2.18 11.4 9.74 8.25 0.83
Spring Valley						
102143760 Piermont Creek	Spring Valley Creek	Lat 39°29'05", long 114°33'00", in NE¼ sec.28, T.19 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at mouth of canyon, just above diversion, and 14 miles north- east of McGill.	7.5	1972-80	12-08-82	2.60
Kalamazoo Creek	Spring Valley Creek	Lat 39°33'46", long 114°33'49", in SE¼ sec.29, T.20 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at mouth of canyon, 1.9 miles west of State Route 893, and 16 miles northeast of McGill.	14.2	--	12-08-82 6-30-83	5.29 28.2

† Operates as a continuous-record gaging station.

										DISCHARGE	
SPRING NUMBER		SITE IDENTIFICATION	SPRING NAME	OWNER	USE ¹	LAND SURFACE ALTITUDE (FEET)	DATE	FT ³ /S	MEASURE- MENT METHOD ²		
153	N23 E54 03DBD 1	395415115524301	THOMPSON RANCH SP	T M THOMPSON	I	5840	7-06-83 8-03-83	2.39 2.82	C C		
179	N18 E64 21BDDC1	392502114464901	MCGILL SPRINGS	KENNECOTT COPPER	I	6100	7-06-83	11.2	C		

¹ Uses: I, irrigation.

² Measurement methods: C, current meter.

COLORADO RIVER MAIN STEM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	DEPTH (FT)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA- LITY, TOTAL (MG/L AS CaCO ₃)
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09420600 LAKE MEAD AT ICEBERG CANYON AZ-NV*
(RIVER MILE 287.5; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 17 FT)

OCT						
05...	0	1020	8.4	23.5	8.3	100
05...	10	1010	8.5	23.5	8.3	100
05...	25	1010	8.5	23.5	8.3	110
05...	50	1000	8.4	23.5	8.0	120
05...	80	900	8.3	22.0	7.8	120

09420650 LAKE MEAD AT SANDY POINT, AZ*
(RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 19 FT)

OCT						
04...	0	1000	8.3	24.5	9.0	98
04...	10	1010	8.4	24.5	9.0	100
04...	25	1010	8.4	24.0	8.5	110
04...	75	950	8.2	23.0	8.1	110
04...	100	920	8.1	21.5	7.9	110
04...	150	960	7.8	19.0	5.9	120
04...	200	940	7.8	14.5	5.7	120
04...	224	940	7.8	14.0	5.7	120

09420700 LAKE MEAD AT VIRGIN CANYON, AZ-NV*
(RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 21 FT)

OCT						
05...	0	1000	8.4	24.5	8.1	110
05...	10	1000	8.5	24.5	8.2	100
05...	25	1000	8.5	24.0	8.2	100
05...	50	1000	8.4	23.5	7.7	110
05...	75	940	8.2	23.0	7.0	120
05...	100	950	8.1	21.0	6.8	120
05...	150	880	8.0	19.5	6.4	120
05...	200	900	7.9	16.5	6.4	120
05...	250	920	7.7	15.0	5.6	120
05...	300	960	7.7	13.5	5.6	120
05...	310	980	7.7	12.0	5.6	120

09420750 LAKE MEAD NEAR OVERTON BEACH, NV*
(RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 7 FT)

OCT						
06...	0	1180	8.4	24.0	8.3	--
06...	5	1180	8.4	24.0	8.3	--
06...	10	1180	8.4	23.5	8.1	--
06...	20	1240	8.3	23.0	7.8	--

09420800 LAKE MEAD AT OVERTON ISLANDS, NV*
(RIVER MILE 9.5; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 17 FT)

OCT						
06...	0	1070	8.2	22.0	7.9	110
06...	10	1070	8.4	22.0	7.9	110
06...	25	1070	8.4	22.0	7.9	120
06...	75	980	8.0	21.5	5.9	120
06...	100	980	7.9	19.5	6.7	120
06...	125	980	7.8	19.5	5.8	120
06...	175	940	7.8	18.5	6.0	120
06...	225	960	7.9	17.5	6.6	110
06...	275	980	7.9	16.5	7.3	120
06...	300	980	7.9	16.5	7.2	100

* FIELD DETERMINATIONS, BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	DEPTH (FT)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA- LITY, TOTAL (MG/L AS CaCO ₃)
09420850 LAKE MEAD AT BOULDER CANYON, AZ-NV*						
(RIVER MILE 334.6; LAT 36°08', LONG 114°37'; SECCHI DISK TRANSPARENCY 30 FT)						
OCT						
07...	0	1060	8.3	23.5	8.0	95
07...	5	1040	--	23.0	--	--
07...	10	1050	8.3	23.0	7.9	95
07...	15	1060	--	23.0	--	--
07...	20	1060	--	23.0	--	--
07...	25	1060	8.4	23.0	8.0	93
07...	30	1060	--	22.5	--	--
07...	40	1060	--	22.5	--	--
07...	50	1060	--	22.0	--	--
07...	60	1060	--	22.0	--	--
07...	70	1040	--	22.0	--	--
07...	75	1040	8.3	22.0	7.8	93
07...	80	1050	--	22.0	--	--
07...	90	1050	--	22.0	--	--
07...	100	1030	--	22.0	--	--
07...	125	980	7.9	21.5	6.4	93
07...	150	950	--	21.0	--	--
07...	175	940	7.9	20.0	7.0	93
07...	200	940	--	18.0	--	--
07...	225	960	8.0	16.5	6.2	95
07...	250	990	--	15.5	--	--
07...	275	1020	7.9	15.5	7.2	95
07...	300	1040	--	13.0	--	--
07...	325	1040	7.9	12.0	7.0	95
07...	350	1040	--	12.0	--	--
07...	375	1040	7.9	12.0	6.8	95
07...	400	1050	--	11.5	--	--
07...	425	1050	7.9	11.5	6.2	95
07...	435	1050	7.9	11.5	6.6	95

* FIELD DETERMINATIONS, BY U.S. BUREAU OF RECLAMATION.

COLORADO RIVER MAIN STEM

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NV (LAT 36°06'30", LONG 114°49'10")

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983*

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARDNESS (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
DEC										
02...	0915	10.0	1040	1040	8.2	13.5	6.4	330	81	31
02...	0920	278	1140	1140	7.9	13.5	5.6	377	95	34
MAR										
08...	0950	10.0	1070	1070	8.3	14.5	9.5	327	80	31
08...	1000	291	1160	1210	8.1	13.0	8.2	382	97	34
JUN										
07...	0915	10.0	--	1100	8.3	24.0	9.1	323	80	30
07...	0930	298	--	1060	8.0	15.0	7.9	319	80	29
SEP										
28...	0930	10.0	--	1040	8.3	26.0	8.4	338	86	30
28...	1105	305	--	1020	7.8	14.5	6.8	325	84	28

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
DEC									
02...	100	2.5	4.6	125	310	92	.3	8.6	702
02...	110	2.5	6.1	132	340	100	.3	9.9	774
MAR									
08...	110	2.7	4.8	132	300	91	.3	9.0	705
08...	110	2.5	5.7	131	360	100	.3	9.9	795
JUN									
07...	100	2.5	5.2	118	280	97	.3	8.3	672
07...	99	2.5	5.0	132	270	88	.3	8.6	659
SEP									
28...	100	2.4	4.7	111	330	91	.3	8.0	717
28...	95	2.4	4.6	134	290	86	.3	8.7	677

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (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)
DEC									
02...	--	<.020	.20	.18	<.060	--	.80	1.0	.030
02...	--	<.020	.50	.51	.120	.98	1.10	1.6	.060
MAR									
08...	--	<.020	.30	.24	.060	.44	.50	.80	.010
08...	.38	.020	.40	.40	.130	.27	.40	.80	.030
JUN									
07...	--	<.020	<.10	<.10	<.060	--	.90	--	.010
07...	--	<.020	.30	.28	<.060	--	.60	.90	.010
SEP									
28...	--	<.020	<.10	<.10	.050	.85	.90	--	<.010
28...	--	<.020	.30	.32	<.010	--	.40	.70	<.010

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
DEC	
02...	33
MAR	
08...	39
JUNE	
07...	15
SEP	
28...	19

* Samples and field data collected by U.S. Bureau of Reclamation.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09420950 LAKE MEAD AT SADDLE ISLAND, NV (LAT 36°03'45", LONG 114°47'40")

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983*

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
DEC									
02...	1040	10.0	--	1040	8.3	15.5	7.8	330	81
02...	1045	155	--	--	8.1	15.5	5.8	--	--
02...	1050	374	1030	1020	8.1	13.5	6.0	326	81
MAR									
08...	1206	10.0	1060	1080	8.3	14.5	9.6	327	80
08...	1213	162	1060	--	8.2	13.0	8.8	--	--
08...	1220	419	1040	1040	8.2	11.5	8.2	318	78
JUN									
07...	1110	10.0	--	1080	8.2	24.0	8.5	321	79
07...	1115	163	--	--	8.3	14.0	7.9	--	--
07...	1120	422	--	1040	8.3	11.5	7.3	319	80
SEP									
28...	1240	10.0	--	1020	8.5	25.5	8.6	338	86
28...	1255	170	--	--	8.0	20.5	7.1	--	--
28...	1315	447	--	1010	8.0	13.5	7.1	323	83

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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
DEC									
02...	31	100	2.5	4.7	126	300	93	.3	8.6
02...	--	--	--	--	--	--	--	--	--
02...	30	100	2.5	4.6	132	300	91	.3	9.0
MAR									
08...	31	110	2.7	4.5	131	300	90	.3	9.0
08...	--	--	--	--	--	--	--	--	--
08...	30	100	2.5	4.5	137	280	87	.3	8.9
JUN									
07...	30	100	2.5	4.6	121	290	95	.3	8.6
07...	--	--	--	--	--	--	--	--	--
07...	29	99	2.5	4.7	132	270	87	.3	8.6
SEP									
28...	30	100	2.4	4.9	114	310	87	.4	8.2
28...	--	--	--	--	--	--	--	--	--
28...	28	96	2.4	4.4	134	270	86	.4	8.5

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC									
02...	694	<.020	.20	.20	<.060	--	.80	1.0	.010
02...	--	--	--	--	--	--	--	--	--
02...	695	<.020	.30	.26	<.060	--	.70	1.0	.010
MAR									
08...	703	<.020	.20	.25	<.060	--	.40	.60	.010
08...	--	--	--	--	--	--	--	--	--
08...	671	<.020	.30	.26	<.060	--	.30	.60	.010
JUN									
07...	680	<.020	.10	.11	<.060	--	1.00	1.1	.010
07...	--	--	--	--	--	--	--	--	--
07...	658	<.020	.30	.26	<.060	--	.90	1.2	.010
SEP									
28...	695	<.020	<.10	<.10	.050	.55	.60	--	<.010
28...	--	--	--	--	--	--	--	--	--
28...	657	<.020	.30	.29	<.010	--	.90	1.2	<.010

DATE
TRANSPARENCY,
SECCHI DISK
(FEET)

DEC	
02...	49
MAR	
08...	39
JUNE	
07...	20
SEP	
28...	31

* Samples and field data collected by U.S. Bureau of Reclamation.

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	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 29...	1215	1150	8.2	17.0	329	79	32	130

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 29...	3.2	5.5	130	320	100	7.7	752	<.10

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (STAND- ARD UNITS)	TEMPER- ATURE, WATER (DEG C)	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 29...	1300	1090	8.3	18.0	337	82	32	110

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 29...	2.7	4.8	122	310	93	9.2	714	<.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983*

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)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
SEP 14...	0845	E207	90	8.0	12.0	8.0	33	8.9

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)
SEP 14...	2.5	4.6	.4	1.0	38	3.0	1.0	65

E: ESTIMATED.

* Data from Calif. Dept. of Water Resources.

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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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")									
OCT, 1982					APR, 1983				
25...	1315	5.3	910	19.5	25...	1300	49	480	17.0
NOV					MAY				
22...	0900	6.3	1100	4.0	24...	1330	20	730	26.0
DEC					JUN				
21...	1215	6.9	950	7.0	28...	0945	2.7	860	22.5
JAN, 1983					JUL				
25...	1530	11	950	9.0	25...	1415	1.6	1050	30.5
FEB					AUG				
19...	1615	12	1000	12.5	22...	1300	4.4	--	26.5
MAR					SEP				
29...	1030	236	770	13.0	26...	1415	2.8	--	17.5
09419000 MUDDY RIVER NEAR GLENDALE, NV (LAT 36°38'35" LONG 114°32'20")									
OCT, 1982					MAY, 1983				
06...	0930	36	1420	19.0	11...	1115	36	1520	19.5
NOV					JUN				
03...	0900	41	1370	14.0	08...	1230	29	1550	26.0
JAN, 1983					JUL				
04...	1430	44	1610	15.5	13...	0915	29	1470	24.5
31...	1245	49	1530	19.0	AUG				
FEB					04...	0945	26	1440	27.5
28...	1345	41	1550	22.0					
APR									
06...	1315	45	1590	21.5					
10244720 FRANKLIN RIVER NEAR ARTHUR, NV (LAT 40°49'25" LONG 115°08'10")									
OCT, 1982					APR, 1983				
13...	1230	4.6	117	5.0	08...	1205	3.6	171	--
DEC					AUG				
21...	1205	2.6	151	1.0	23...	1035	9.0	153	9.0
JAN, 1983									
14...	1310	2.7	158	--					
10245900 PINE CREEK NEAR BELMONT, NV (LAT 38°47'40" LONG 116°51'13")									
DEC, 1982					JUN, 1983				
07...	1015	1.7	64	--	01...	1500	129	68	7.0
FEB, 1983					JUL				
23...	1435	1.7	71	3.0	18...	1745	16	53	10.0
MAY					SEP				
05...	1005	6.1	--	1.5	14...	1305	5.0	68	10.5
10245910 MOSQUITO CREEK NEAR BELMONT, NV (LAT 38°48'22" LONG 116°40'43")									
DEC, 1982					JUL, 1983				
07...	1200	.64	100	--	19...	1000	11	118	9.0
MAY, 1983					SEP				
05...	1120	5.3	--	4.5	15...	1015	2.0	128	9.0
10245925 STONEBERGER CREEK NEAR AUSTIN, NV (LAT 39°08'24" LONG 116°36'05")									
DEC, 1982					JUN, 1983				
07...	1405	1.0	377	.0	01...	0810	95	250	5.0
FEB, 1983					JUL				
23...	1645	1.3	340	4.0	18...	1515	6.8	330	13.5
MAY					SEP				
05...	1430	5.9	270	4.5	13...	1615	2.5	401	13.0
10249190 WILLOW CREEK NEAR WARM SPRINGS, NV (LAT 38°34'35" LONG 116°35'05")									
DEC, 1982					JUL, 1983				
06...	1610	E.01	239	2.0	19...	1255	1.2	280	13.5
FEB, 1983					SEP				
23...	1125	.65	186	4.0	15...	1200	.62	276	14.0
MAY									
04...	1700	34	127	3.0					
10249280 KINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV (LAT 39°12'45" LONG 117°06'45")									
DEC, 1982					JUN, 1983				
07...	1640	4.7	408	1.5	02...	0830	128	395	8.0
FEB, 1983					JUL				
22...	1345	4.8	371	6.5	20...	1100	34	395	9.0
MAY					SEP				
04...	1125	12	374	5.5	15...	1625	13	422	12.0

E: ESTIMATED.

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	ALTI- TUDE ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ALTI- TUDE ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE, WATER (DEG C)
10288500 WALKER LAKE NEAR HAWTHORNE, NV (LAT 38°35'05" LONG 118°42'15")									
FEB, 1983					AUG, 1983				
02...	1310	3958.71	14850	6.0	04...	1245	3966.34	12200	28.0
MAR									
01...	1200	3958.99	14430	5.5					
30...	1330	3960.42	--	10.0					

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)
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10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA (LAT 38°21'39" LONG 119°26'38")

OCT, 1982					JUN, 1983				
05...	1345	41	135	6.5	28...	1330	320	59	8.5
DEC					AUG				
28...	1110	38	202	--	02...	1210	182	64	11.5
JAN, 1983					SEP				
25...	1230	43	182	.0	07...	1250	62	110	12.5
MAR									
31...	1230	51	210	6.0					

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA (LAT 38°30'55" LONG 119°27'15")

OCT, 1982					APR, 1983				
28...	1330	317	70	2.5	27...	1100	227	139	5.5
NOV					MAY				
29...	0945	150	105	.5	31...	1045	2450	56	10.0
DEC					JUN				
28...	1050	117	115	--	28...	1450	1740	44	8.5
JAN, 1983					JUL				
25...	1025	102	131	.0	27...	1110	963	47	9.5
FEB					AUG				
28...	0905	119	129	2.0	30...	1200	326	70	10.0
MAR									
31...	1010	181	147	4.5					

10297500 WEST WALKER RIVER AT HOYE BRIDGE NEAR WELLINGTON, NV (LAT 38°43'40" LONG 119°25'40")

OCT, 1982					MAR, 1983				
22...	1310	188	132	10.5	09...	1300	779	173	7.0
NOV					MAY				
23...	1120	331	151	7.0	13...	1245	396	182	10.0
JAN, 1983					AUG				
12...	1300	52	270	3.5	24...	1400	589	116	17.0
FEB									
14...	1240	163	205	5.5					

10300600 WALKER RIVER NEAR MASON, NV (LAT 38°55'11" LONG 119°11'20")

OCT, 1982					MAY, 1983				
22...	1110	434	223	11.0	12...	1240	363	260	9.0
DEC					JUN				
10...	1240	1180	183	2.0	03...	1200	2170	165	16.0
FEB, 1983					AUG				
14...	1030	301	276	4.5	09...	1130	1010	153	17.0
MAR									
15...	1145	1580	215	5.0					

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)
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10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV (LAT 38°50'50" LONG 119°42'10")

OCT, 1982					APR, 1983						
04...	1015	196	132	8.0	27...	1555	534	182	7.5	7.5	
28...	1110	487	101	7.3	4.0	JUN					
DEC					06...	1420	2730	76	8.0	5.5	
06...	1100	256	153	8.0	1.5	30...	0935	2340	53	7.0	7.0
28...	1015	273	170	8.0	.5	JUL					
FEB, 1983					27...	1315	846	70	7.5	14.0	
01...	1340	218	199	8.0	2.5	SEP					
MAR					01...	1030	526	96	6.6	13.5	
07...	1255	412	194	7.9	7.5						
29...	0945	335	200	7.9	5.0						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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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, 1982					JUL, 1983				
12...	1130	91	155	10.0	14...	1215	1270	58	12.5
DEC					AUG				
16...	1500	174	163	3.5	25...	1525	97	137	20.0
MAR, 1983									
30...	1530	364	189	11.5					
10311000 CARSON RIVER NEAR CARSON CITY, NV (LAT 39°06'30" LONG 119°42'40")									
OCT, 1982					MAR, 1983				
06...	1320	314	212	12.0	07...	1032	711	260	7.3
NOV					30...	1515	643	242	10.0
15...	1400	440	207	5.0	JUL				
DEC					08...	1100	2630	82	12.5
06...	1510	525	245	4.5	SEP				
JAN, 1983					07...	0900	252	245	16.0
04...	1130	456	239	2.5					
FEB									
02...	1545	566	297	3.0					
10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV (LAT 39°09'14" LONG 119°48'24")									
OCT, 1982					APR, 1983				
01...	1115	2.7	73	6.0	28...	1600	2.8	161	8.0
NOV					JUN				
08...	1145	2.4	84	1.0	06...	1500	8.1	80	10.5
JAN, 1983					JUL				
03...	1445	2.1	108	1.0	06...	1445	8.0	65	11.5
FEB					AUG				
03...	1320	2.0	132	1.5	03...	1215	8.4	69	11.0
MAR					SEP				
02...	1105	4.3	164	5.0	08...	1040	6.4	70	9.0
30...	1335	3.1	137	8.0					
10311200 ASH CANYON CREEK NEAR CARSON CITY, NV (LAT 39°10'35" LONG 119°48'16")									
OCT, 1982					APR, 1983				
01...	1015	4.7	76	4.5	27...	1450	6.3	94	6.5
NOV					JUN				
08...	1025	4.2	80	1.0	06...	1215	17	52	8.5
JAN, 1983					AUG				
03...	1310	3.8	85	1.0	03...	1105	10	60	10.0
FEB					SEP				
03...	1045	3.6	89	2.0	08...	1150	6.7	68	10.0
MAR									
02...	1005	5.5	100	4.0					
30...	1145	5.4	93	5.5					
10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV (LAT 39°10'52" LONG 119°41'40")									
JAN, 1983					MAR, 1983				
26...	1300	1020	281	2.5	25...	1300	789	273	5.5
10312280 CARSON RIVER BELOW FALLON, NV (LAT 39°40'10" LONG 118°39'20")									
OCT, 1982					JUN, 1983				
04...	1030	17	711	10.0	15...	1400	586	285	21.0
APR, 1983									
01...	1410	589	291	6.5					
10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK NEAR DEETH, NV (LAT 41°15'10" LONG 115°15'20")									
OCT, 1982					MAY, 1983				
14...	1220	19	286	7.5	03...	1235	459	193	16.0
NOV					JUL				
03...	1540	42	242	5.5	12...	1120	58	206	19.5
JAN, 1983					SEP				
12...	1430	31	268	2.0	14...	1110	4.9	366	13.5
MAR									
14...	1445	240	181	3.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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")											
OCT, 1982						MAY, 1983					
21...	1425	41	159	--	7.0	31...	1850	522	121	8.1	--
FEB, 1983						JUN					
14...	1510	9.9	183	8.2	--	24...	1230	313	93	8.0	8.0
MAR						AUG					
25...	1440	15	193	--	5.0	19...	1505	42	124	--	15.5
APR						SEP					
12...	1510	14	193	8.8	5.5	15...	1010	13	164	7.2	8.0
MAY											
25...	1405	202	134	--	6.5						
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)	TEMPER- ATURE, WATER (DEG C)
10317420 MAHALA CREEK NEAR TUSCARORA, NV (LAT 41°20'16" LONG 115°54'32")											
JAN, 1983						JUN, 1983					
13...	1205	E.25	525	7.0		07...	1525	19	215	12.0	
FEB						JUL					
16...	1210	E.40	509	9.0		27...	1200	.54	422	12.0	
MAY											
04...	1430	16	380	--							
10317450 GANCE CREEK NEAR TUSCARORA, NV (LAT 41°17'45" LONG 115°57'16")											
OCT, 1982						APR, 1983					
14...	1240	2.0	388	11.5		04...	1200	29	250	7.0	
NOV						JUN					
04...	1210	2.7	386	8.0		07...	1310	40	241	11.0	
JAN, 1983						JUL					
13...	1310	2.6	366	5.5		27...	1430	3.6	338	17.0	
FEB											
16...	1330	2.7	327	6.5							
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)	TEMPER- ATURE, WATER (DEG C)
10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE NEAR HALLECK, NV (LAT 41°10'50" LONG 115°29'35")											
OCT, 1982						FEB, 1983					
14...	1445	27	314	--	10.5	02...	1320	60	300	8.4	.0
NOV											
03...	1300	44	310	8.4	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)
10318500 HUMBOLDT RIVER NEAR ELKO, NV (LAT 40°56'00" LONG 115°38'00")											
OCT, 1982						JUL, 1983					
21...	1145	149	414	7.0		19...	1350	308	381	--	
NOV						SEP					
08...	1215	218	482	3.5		14...	1400	58	432	17.5	
FEB, 1983											
17...	1230	253	434	2.5							
10322500 HUMBOLDT RIVER AT PALISADE, NV (LAT 40°36'25" LONG 116°12'05")											
OCT, 1982						MAR, 1983					
28...	1520	318	404	7.0		05...	1720	7020	309	5.5	
NOV						30...	1210	1510	482	9.0	
29...	1315	350	502	4.0		JUN					
JAN, 1983						02...	1340	5160	357	16.0	
27...	1525	327	467	2.5		28...	1615	2040	331	21.5	
FEB						JUL					
24...	1230	866	441	6.0		28...	1215	305	441	19.5	

E: ESTIMATED.

10323400 HUMBOLDT RIVER NEAR DUNPHY, NV (LAT 40°41'53" LONG 116°30'25")					10323600 HUMBOLDT RIVER BELOW SLAVEN DITCH NEAR ARGENTA, NV (LAT 40°39'19" LONG 116°45'17")						
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)		
OCT, 1982					FEB, 1983						
19...	1520	274	449	7.5	22...	1220	830	589	7.5		
DEC											
07...	1545	389	528	2.0							
10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40°49'30" LONG 116°34'45")											
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)
OCT, 1982						APR, 1983					
19...	1215	10	345	8.9	5.0	13...	1455	277	226	--	--
NOV						JUN					
16...	1135	15	393	--	.0	23...	1305	39	404	8.8	22.5
DEC						AUG					
07...	1315	14	355	8.6	1.0	24...	1415	11	334	8.7	24.0
FEB, 1983											
03...	1640	9.4	223	--	.0						
10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40°10'16" LONG 117°12'23")											
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)		
OCT, 1982					MAR, 1983						
20...	0955	.86	562	--	8.5	06...	1355	3.3	536	--	12.5
NOV						MAY					
15...	1545	1.1	559	--	5.5	19...	1435	20	329	8.4	17.0
DEC						JUN					
08...	1245	1.5	538	8.7	7.0	23...	0900	11	347	8.2	11.5
JAN, 1983						JUL					
25...	1410	1.8	556	8.7	4.5	13...	1405	4.0	445	--	23.5
10327500 HUMBOLDT RIVER AT COMUS, NV (LAT 40°59'33" LONG 117°19'00")											
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)		
OCT, 1982					JAN, 1983						
20...	1355	226	467	8.0	25...	1215	362	602	--		
NOV					AUG						
15...	1320	291	537	1.5	24...	1400	297	703	21.5		
DEC					SEP						
08...	0925	379	537	.5	22...	1105	131	781	13.5		
10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41°24'55" LONG 117°22'22")											
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)
OCT, 1982						MAY, 1983					
20...	1255	7.8	397	10.5		18...	1335	130	308	15.0	
NOV						JUN					
16...	1245	8.8	410	10.5		22...	1210	129	273	16.0	
FEB, 1983						AUG					
03...	1105	8.6	--	7.5		23...	1535	20	372	21.0	
MAR						SEP					
08...	1230	14	389	12.5		21...	1305	7.9	407	12.5	
APR											
19...	1240	8.8	419	19.0							
10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV (LAT 41°32'00" LONG 117°25'40")											
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)
OCT, 1982						APR, 1983					
20...	1420	8.9	228	--	11.0	19...	1545	184	119	--	--
NOV						JUN					
16...	1055	6.0	259	--	15.0	22...	0945	146	110	7.9	10.0
FEB, 1983						AUG					
03...	0900	4.2	140	--	10.5	23...	1325	14	198	8.9	21.0
MAR						SEP					
08...	1040	136	128	7.7	5.0	21...	1200	9.1	264	--	12.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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")									
JAN, 1983					AUG, 1983				
07...	1250	4.4	45	1.0	17...	1050	4.7	37	16.0
JUN					SEP				
14...	1300	31	38	4.0	14...	1200	3.2	45	16.0
10348000 TRUCKEE RIVER AT RENO, NV (LAT 39°31'55" LONG 119°47'05")									
OCT, 1982					APR, 1983				
05...	1046	633	100	10.0	18...	1025	2980	100	6.0
DEC					JUL				
02...	1000	2190	108	5.0	12...	1040	2840	86	13.0
JAN, 1983					SEP				
07...	1115	1000	113	5.0	12...	1045	1290	96	14.0
FEB									
07...	1305	2100	112	4.5					
10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV (LAT 39°12'12" LONG 119°52'17")									
NOV, 1982					AUG, 1983				
17...	1025	3.2	45	1.5	17...	1250	6.9	45	12.0
JAN, 1983					SEP				
07...	1415	2.8	52	2.0	14...	1335	4.6	47	14.0
JUN									
07...	1605	27	31	3.5					
24...	1130	27	29	11.5					
DATE	TIME	ALTI- TUDE ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ALTI- TUDE 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")									
OCT, 1982					JUL, 1983				
05...	0845	5029.49	509	11.0	06...	0830	5030.93	320	19.0
DEC					SEP				
03...	1330	5030.55	448	2.5	06...	1310	5029.75	326	15.5
MAY, 1983									
23...	1330	5030.69	374	26.0					
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°47'37")									
OCT, 1982					MAY, 1983				
05...	1145	14	67	7.5	11...	0950	7.8	94	5.0
MAR, 1983					SEP				
08...	1100	8.4	99	2.0	15...	1040	17	64	10.0
10349300 STEAMBOAT CREEK AT STEAMBOAT, NV (LAT 39°22'40" LONG 119°44'33")									
OCT, 1982					MAR, 1983				
05...	1115	17	164	7.5	13...	1250	369	189	8.0
FEB, 1983					MAY				
04...	1115	97	329	4.5	11...	1115	99	315	8.0
10350400 TRUCKEE RIVER BELOW TRACY, NV (LAT 39°33'52" LONG 119°31'02")									
OCT, 1982					FEB, 1983				
13...	1120	860	143	11.0	08...	1145	2900	186	4.5
NOV					APR				
09...	1340	2110	122	7.0	26...	1230	3870	127	6.5
DEC					JUL				
09...	1410	2370	130	2.5	07...	1200	4260	91	13.5
JAN, 1983					AUG				
05...	1500	1570	166	5.0	04...	1210	996	168	19.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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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)
10351650 TRUCKEE RIVER AT WADSWORTH, NV (LAT 39°38'19" LONG 119°16'09")									
NOV, 1982					MAY, 1983				
12...	1030	2170	148	7.0	02...	1325	4000	131	8.0
DEC					JUN				
13...	1225	2550	123	6.0	09...	1100	8080	90	13.0
JAN, 1983					JUL				
10...	1510	1280	124	4.0	15...	1035	3630	120	15.0
FEB					AUG				
04...	1100	2550	153	3.5	04...	1510	715	178	22.5
MAR					SEP				
04...	1215	3220	146	6.5	13...	0940	1440	143	16.5
APR									
12...	0940	3260	131	6.0					
10352500 McDERMITT CREEK NEAR McDERMITT, NV (LAT 41°58'00" LONG 117°50'01")									
NOV, 1982					MAY, 1983				
15...	1540	13	395	.5	19...	0925	239	215	6.5
JAN, 1983					JUN				
28...	0915	37	225	.0	21...	1710	89	261	19.5
FEB					JUL				
23...	0855	152	226	.5	21...	1450	22	349	25.5
MAR					SEP				
08...	1545	136	234	9.0	20...	1750	7.3	325	14.0
16...	1135	251	233	4.0					
10353600 KINGS RIVER NEAR OROVADA, NV (LAT 41°54'25" LONG 118°18'30")									
OCT, 1982					JUN, 1983				
21...	1345	2.0	159	11.5	28...	1315	21	94	15.0
DEC					AUG				
15...	1330	2.9	142	2.5	31...	1315	3.0	158	20.0
MAR, 1983									
24...	0830	18	154	2.5					
10353700 LEONARD CREEK NEAR DENIO, NV (LAT 41°31'40" LONG 118°42'45")									
OCT, 1982					DEC, 1982				
21...	1615	3.2	180	11.5	15...	1000	3.9	196	2.0
13082500 GOOSE CREEK ABOVE TRAPPER CREEK NEAR OAKLEY, ID (LAT 42°07'30" LONG 113°56'20")									
DEC, 1982					JUN, 1983				
03...	1400	27	374	1.5	30...	0815	54	426	16.0
JAN, 1983					AUG				
12...	1025	24	363	.0	10...	1130	33	438	23.0
FEB					SEP				
18...	1000	65	400	3.0	22...	1055	22	444	8.0
MAY									
18...	1050	191	305	10.0					
13105000 SALMON FALLS CREEK NEAR SAN JACINTO, ID (LAT 41°56'40" LONG 114°41'15")									
OCT, 1982					APR, 1983				
01...	1255	83	268	10.0	26...	1210	855	103	5.5
NOV					JUN				
30...	1000	78	250	4.0	01...	1355	1260	134	13.5
JAN, 1983					JUL				
26...	1110	74	231	3.5	14...	1100	93	256	18.0
MAR					AUG				
29...	1025	185	172	6.0	23...	1305	63	268	19.5
13161500 BRUNEAU RIVER AT ROWLAND, NV (LAT 41°56'00" LONG 115°40'25")									
OCT, 1982					MAR, 1983				
26...	1455	42	208	6.0	29...	1350	176	162	7.0
DEC					JUN				
06...	1350	47	191	2.0	21...	1415	337	181	10.0
JAN, 1983					JUL				
11...	1340	57	190	.0	27...	1055	49	202	16.0
FEB					SEP				
15...	1545	56	189	3.5	28...	0955	27	243	10.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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)
13174500 OWYHEE RIVER NEAR GOLD CREEK, NV (LAT 41°41'15" LONG 115°50'38")									
APR, 1983					JUL, 1983				
22...	1730	873	190	4.0	27...	1405	134	162	15.0
JUN					SEP				
23...	1405	71	157	--	28...	1210	48	179	14.5
13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM NEAR OWYHEE, NV (LAT 41°55'20" LONG 116°04'10")									
OCT, 1982					JUL, 1983				
27...	0855	47	271	1.0	26...	1530	176	200	18.5
FEB, 1983					SEP				
25...	1215	158	104	1.5	27...	1440	76	220	13.5
MAR									
30...	0905	260	183	6.5					

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) Orvada 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. Pumpnickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
(A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. 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. Kober 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. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
(A) Northern Part
(B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tipanoo V. (Tickaboo V.)
(A) Northern Part
(B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
(A) Southern Part
(B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
(A) Northern Part (Round V.)
(B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippet V.
186. Antelope V. (White Pine & Elko)
(A) Southern Part
(B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
(A) Herrell Siding--Brush Creek Area
(B) Toano--Rock Spring Area
(C) Rocky Butte Area
(D) Montello--Crittenden Creek Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahrnagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tuile 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

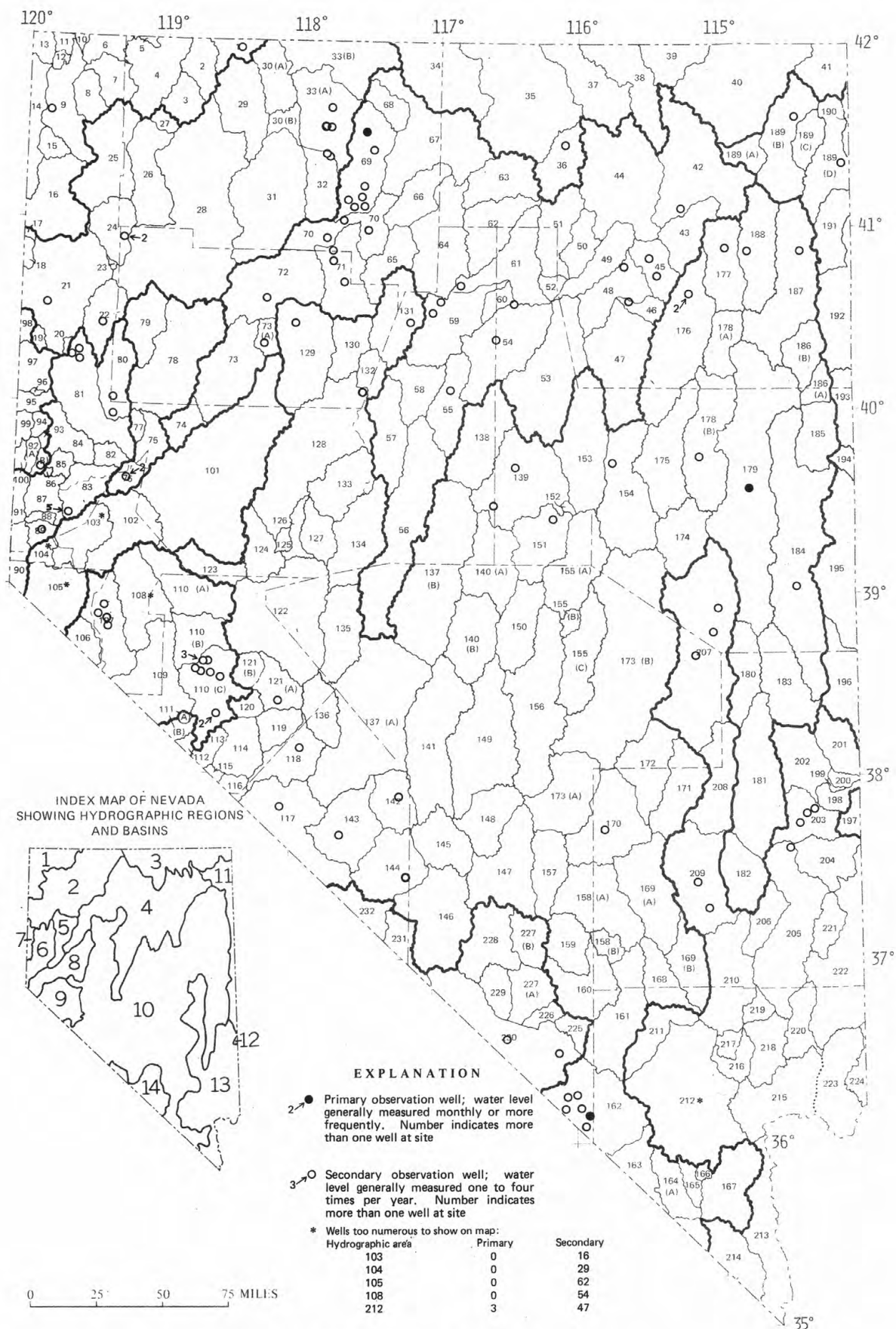


FIGURE 6.—Observation wells listed in this report.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

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 datum, Sept. 10, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	--	--	--	149.24	148.31	150.30	--	152.28	153.90	154.75	156.54	--
10	--	150.17	149.34	148.96	148.21	149.52	151.27	152.42	154.17	--	--	--
15	--	150.00	149.34	148.76	148.84	150.06	151.40	152.90	154.55	--	--	--
20	--	149.98	149.25	148.54	149.38	149.74	150.80	152.98	154.32	--	--	--
25	--	149.66	149.22	148.59	149.60	148.98	151.66	153.68	155.28	--	--	--
EOM	--	149.72	149.00	148.38	149.61	151.05	151.40	153.44	154.79	--	--	--

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 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4	77.67	Nov. 2	75.65	Dec. 6	73.18	Jan. 3	71.94	Feb. 7	70.67	Mar. 14	71.60
12	77.31	8	75.00	13	72.53	11	72.12	14	70.30	21	71.82
18	76.97	15	74.42	20	72.27	17	71.70	22	71.42	28	72.12
25	76.40	22	74.10	27	72.10	24	71.45	28	71.49		
		29	73.55			31	71.03				
Apr. 4	73.00	May 2	74.10	June 6	79.23	July 5	82.65	Aug. 1	84.38	Sept. 6	82.38
11	73.53	9	75.12	13	79.80	11	83.05	8	84.93	12	83.33
18	73.87	16	76.20	20	80.90	18	83.00	15	83.50	19	83.70
25	73.73	23	77.30			25	83.90	22	80.35		
		31	78.17					29	81.30		

360649215100001. 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 3 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.--1933 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, Jan. 25, 1939; lowest measured, 159.59 ft below land-surface datum, Aug. 1, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 4	157.30	Nov. 2	156.85	Dec. 6	156.22	Jan. 3	155.35	Feb. 7	155.00	Mar. 14	154.98
12	157.40	8	156.40	13	155.78	10	155.40	14	155.05	21	155.30
18	157.16	15	156.40	20	154.35	17	155.04	22	155.13	28	155.44
25	157.08	22	156.18	27	155.64	25	155.24	28	155.13		
		29	156.16			31	155.06				

LAS VEGAS VALLEY--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 4	155.63	May 2	156.48	June 6	158.12	July 11	158.35	Aug. 1	159.59	Sept. 6	159.35
11	155.87	9	156.46	13	158.40	18	159.35	8	159.56	12	159.49
18	155.95	16	156.60	20	158.35	25	159.42	15	159.20	19	159.50
25	156.00	23	157.30					22	158.55	26	159.50
		31	157.57					29	159.03		

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10AC1.

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 1982 TO SEPTEMBER 1983

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	106.01	100.47	98.45	96.57	--	97.73	100.25	100.77	--	106.15	106.86	--
10	105.33	98.60	98.05	96.57	97.34	98.04	101.76	--	104.60	106.01	--	104.01
15	104.37	--	97.85	96.57	97.28	98.80	101.74	--	104.15	105.95	--	105.36
20	103.62	--	97.22	95.86	96.72	99.03	101.27	--	104.84	--	--	105.78
25	104.08	--	97.20	96.05	96.72	100.48	99.52	--	105.63	--	--	104.82
EOM	102.84	--	96.74	96.06	96.72	100.26	100.49	--	106.03	--	--	--

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, 1.72 ft below land-surface datum, June 24, 1975; lowest measured, 11.03 ft below land-surface datum, Nov. 16, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 20	7.43	Jan. 28	6.40	Apr. 19	3.70	July 21	3.82
Nov. 22	7.35	Feb. 25	4.59	May 18	2.87	Aug. 23	4.28
Dec. 15	7.02	Mar. 23	2.85	June 22	3.22	Sept. 21	5.46

STEPTOE VALLEY

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, 9.37 ft below land-surface datum, Apr. 27, 1983; lowest measured, 17.87 ft below land-surface datum, Dec. 17, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 21	11.04	Jan. 20	10.27	Apr. 27	9.37	July 29	10.42
Nov. 21	10.94	Feb. 24	10.05	May 28	9.42	Aug. 31	10.65
		Mar. 31	9.47	June 28	9.71	Sept. 30	10.72

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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; O, observation; 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, water table.

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 N42 E37 32AAAC1	412854117495001	E F RUNOW	13	I	110VLFL	U	250.
32 N42 E37 33BDAB1	413310117482002	DREES	13	I	110VLFL	U	95.
33A N42 E37 03BBAB1	413320117482001	GEORGE REED	13	I	110VLFL	U	160.
33A N42 E37 04BDCA1	413300117494001	DONALD MORRIS	13	I	110VLFL	U	360.
33A N44 E37 33AAAA1	412934117483001	ALBISU	13	I	110VLFL	U	550.
36 N41 E52 28AADA2	412534116072602	ELLISON	7	U	110VLFL	U	200.
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 29CACC2	402100116352001	BEOWAVE FARMS	11	S	110VLFL	U	300.
54 N31 E49 05CACC1	403500116284501	WILLIAM CONNELLY	11	I	110VLFL	W	10.
55 N26 E45 28CBAC1	400540116550001	HENRY FILIPPINI	15	S	110VLFL	U	
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 N37 E38 24ACC 1	410415117384701	USGS	13	U	110VLFL	W	38.
69 N37 E39 15CBC 1	410448117344901	USGS	13	U	110VLFL	W	30.
69 N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	50.
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 E38 05DDCD1	410111117431801	USGS	13	U	110VLFL	W	24.
70 N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71 N33 E38 32BABB1	404138117441501	USBLM GUTHRIE WELL	27	U		W	54.
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	283.

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.

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4380.	1968-	45.58	03/20/68	56.80	05/01/69	49.69	04/16/83
6.		5200.	1968-	10.22	03/13/72	14.66	04/10/79	11.72	04/14/83
6.		4000.	1966-	37.91	09/15/66	54.97	04/17/79	54.16	04/21/83
6.		4013.	1966-	45.20	04/09/69	50.98	03/21/83	50.98	03/21/83
2.		4031.	1967-	3.77	04/16/73	14.73	04/14/83	14.73	04/14/83
2.		4031.	1967-	-2.25	06/14/67	11.26	04/14/83	11.26	04/14/83
16.	150.- 250.	4200.	1971-	50.96	04/30/73	78.11	04/29/71	58.03	04/15/83
18.		4220.	1948-	36.54	04/21/48	116.58	03/23/77	81.68	04/15/83
12.	10.- 150.	4260.	1949-	16.55	01/20/50	123.19	03/23/77	97.97	04/15/83
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	99.14	04/15/83
16.	175.- 545.	4280.	1972-	95.69	04/06/78	144.57	04/06/82	136.82	04/15/83
2.		5700.	1970-	45.58	06/02/83	47.78	04/16/81	45.58	06/02/83
48.		5350.	1938-	0.32	04/28/69	20.80	02/26/45	2.65	04/12/83
48.		5950.	1934-	0.09	04/28/46	18.00	11/01/40	8.58	04/12/83
8.		5550.	1944-	-1.48	02/26/53	7.10	12/26/52	-0.60	04/12/83
6.		5650.	1964-	73.49	04/13/83	90.92	03/17/70	73.49	04/13/83
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	5.88	04/13/83
14.		4800.	1958-	54.66	04/10/78	69.28	09/28/66	56.25	04/14/83
48.		4698.	1948-	5.48	04/30/69	8.33	09/22/54	5.75	04/14/83
10.		5100.	1965-	3.64	04/29/82	10.45	03/23/76	4.52	04/14/83
		4609.	1947-	5.25	04/30/69	6.91	03/29/82	6.61	04/14/83
2.		4557.	1964-	29.81	04/13/71	32.48	05/28/64	30.30	04/14/83
6.		4334.	1945-	26.07	03/18/53	49.66	10/19/82	46.33 47.87	04/14/83 03/09/83
1.		4317.	1960-	19.20	11/14/72	28.22	11/19/75	22.83	04/07/83
1.	28.- 30.	4326.	1968-	22.77	04/18/72	29.18	11/03/81	26.45	04/07/83
10.	20.- 75.	4317.	1968-	8.10	11/08/71	29.80	09/03/81	26.87 23.38	10/22/82 03/09/83
16.		4317.	1968-	9.86	04/18/72	26.44	11/21/81	25.94	03/09/83
8.		4414.	1970-	0.69	04/23/71	9.01	11/12/81	1.61	04/14/83
16.		4300.	1947-	50.74	03/17/53	76.52	04/07/83	76.52	04/07/83
1.		4400.	1960-	4.86	04/25/69	13.49	09/20/66	4.97	04/07/83
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	33.06	04/08/83
6.		4432.	1939-	28.40	07/24/46	39.46	03/28/79	39.20	04/07/83
6.		4329.	1946-	9.31	03/21/56	14.16	04/12/82	13.97	04/07/83
		4301.	1946-	17.68	05/16/46	28.79	04/07/83	28.79	04/07/83
14.		4150.	1954-	28.44	03/31/81	45.85	03/25/70	30.43	04/06/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
73A N29 E33 33AAAC1	402000118160001	CITY OF LOVELOCK	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 N27 E21 09BDA 1	401352119380201	USGS	31	U	110VLFL	U	47.
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 N17 E21 06ADCA1	392212119394101	CARLSBURG DEVEL CORP	29	U	122ALTA	U	290.
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.
89 N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	31	U	110VLFL	U	94.
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 COACH 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	339.
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 10BABD1	392132119232501	TERRY WEATHERMAN	19	I	110VLFL	U	300.
103 N17 E23 15CCAA1	392008119233301	DAVID STANLEY	19	H		U	378.
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 26CCCC1	391812119224001	KATHLEEN HOLMAN	19	H		U	176.
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	142.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	100.- 395.	4300.	1968-	119.10	04/23/69	126.15	04/06/83	126.15	04/06/83
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	4.44	03/21/83
10.		4135.	1953-	3.33	09/02/53	21.18	03/27/78	19.81	03/21/83
6.		3845.	1969-	23.65	07/31/69	27.14	07/14/70	25.89	03/21/83
48.		3800.	1968-	2.47	04/18/73	4.22	03/21/83	4.22	03/21/83
2.	45.- 47.	3845.	1967-	5.90	07/28/67	11.35	04/21/83	11.35	04/21/83
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	18.53	04/21/83
2.	58.- 60.	3865.	1967-	15.31	07/28/67	19.61	04/21/83	19.61	04/21/83
6.	60.- 290.	6355.	1977-	72.87	05/17/83	74.93	04/09/82	72.87	05/17/83
6.	265.- 295.	5980.	1977-	63.87	05/17/83	92.58	04/04/79	63.87	05/17/83
6.	160.- 180.	6242.	1977-	83.39	05/17/83	98.77	04/04/79	83.39	05/17/83
8.	83.- 300.	5785.	1977-	9.79	05/17/83	23.22	12/06/77	9.79	05/17/83
9.	80.- 200.	5785.	1980-	11.09	05/17/83	20.11	03/11/81	11.09	05/17/83
12.		5065.	1968-	5.18	03/09/72	7.91	03/07/80	6.46	05/05/83
2.	66.- 86.	4335.	1977-	60.56	04/01/83	66.24	09/22/77	60.56	04/01/83
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	53.95	04/01/83
2.		4339.	1977-	51.19	04/01/83	54.30	09/22/77	51.19	04/01/83
8.	240.- 276.	4455.	1972-	224.19	07/14/72	228.84	04/11/83	228.84	04/11/83
2.	83.- 86.	4286.	1977-	56.01	07/26/77	65.54	04/11/83	65.54	04/11/83
12.	287.- 395.	4322.	1977-	90.12	04/11/78	96.06	12/20/79	93.06	04/11/83
12.	12.-	4324.	1970-	73.98	08/05/70	87.01	10/16/80	85.56	04/11/83
2.	52.- 82.	4271.	1977-	33.42	09/22/77	40.10	04/11/83	40.10	04/11/83
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	56.89	04/11/83
2.		4277.	1977-	48.51	04/11/78	53.31	04/11/83	53.31	04/11/83
12.	234.- 300.	4286.	1969-	48.00	04/01/69	64.09	08/20/80	62.27	04/11/83
6.	338.- 378.	4297.	1976-	62.00	04/29/76	70.32	04/17/81	68.86	04/13/83
17.	137.- 265.	4286.	1970-	34.84	08/05/70	46.36	09/10/80	45.38	04/11/83
10.	175.- 255.	4279.	1980-	30.76	05/02/80	32.46	04/11/83	32.46	04/11/83
7.	156.- 176.	4298.	1978-	63.00	04/13/83	64.23	12/20/79	63.00	04/13/83
9.	180.- 220.	4286.	1970-	51.14	06/05/70	56.15	07/18/80	53.40	04/13/83
26.	231.- 380.	4845.	1977-	94.50	03/25/77	143.16	04/25/83	143.16 142.52	04/25/83 05/03/83
16.	295.- 494.	4860.	1972-	94.00	07/08/72	164.53	09/07/82	156.67	05/09/83
8.	80.- 150.	4825.	1960-	50.00	01/19/60	107.69	09/22/83	105.19 105.16 105.12 105.07 105.06 105.49 105.52 105.82 106.12 106.64 106.84 107.07 106.92 106.98 107.09 107.13 107.32 107.69	04/14/83 04/25/83 05/03/83 05/13/83 05/20/83 06/02/83 06/09/83 06/23/83 07/08/83 07/18/83 07/22/83 07/29/83 08/12/83 08/19/83 08/26/83 09/03/83 09/11/83 09/22/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 04DBDC1	391126119441901	NEVADA-DWR	25	U		U	89.
104 N15 E20 04DBDC2	391126119441902	USGS	25	U		U	33.
104 N15 E20 05BADA1	391154119453901	HAROLD E NEWPHER	25	U		U	96.
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 08BAAD1	391709119511201	JOE SAMMIT	25	H	110VLFL	U	35.
104 N15 E20 08BACB1	391104119455201	CITY OF CARSON	25	P		U	431.
104 N15 E20 10CAAC2	391040119432802	USGS	25	U		U	17.
104 N15 E20 15BDAB1	391004119433301	NEVADA-DWR	25	U		U	105.
104 N15 E20 15BDAB2	391004119433302	USGS	25	U		U	20.
104 N15 E20 16BCAA1	391004119444901	NEVADA-DWR	25	U		U	105.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	68.- 88.	4682.	1975-	19.00	04/11/83	24.87	01/06/75	20.49 19.40 19.00	11/08/82 03/23/83 04/11/83
2.	30.- 32.	4682.	1977-	19.05	04/11/83	30.01	07/25/77	20.52 19.49 19.05	11/08/82 03/23/83 04/11/83
6.		4730.	1982-	32.57	04/11/83	49.12	09/07/82	32.57	04/11/83
2.	82.- 102.	4737.	1975-	12.38	02/12/75	51.37	06/24/81	40.27 34.64 34.36 44.58	11/08/82 03/23/83 04/11/83 07/16/83
2.		4737.	1977-	24.97	02/17/78	42.23	09/16/81	34.86 30.05 29.63	11/08/82 03/23/83 04/11/83
2.		4800.	1975-	44.74	04/21/75	60.92	09/22/83	60.48 60.63 60.64 60.65 60.69 60.68 60.74 60.73 60.73 60.74 60.76 60.79 60.77 60.77 60.82 59.81 60.84 60.81 60.82 60.82 60.87 60.88 60.88 60.90 60.92	11/08/82 02/02/83 02/09/83 03/04/83 03/16/83 03/23/83 04/11/83 04/25/83 05/03/83 05/09/83 05/20/83 06/02/83 06/09/83 06/16/83 06/23/83 07/08/83 07/18/83 07/22/83 07/29/83 08/12/83 08/19/83 08/26/83 09/03/83 09/11/83 09/22/83
8.	85.- 105.	4802.	1972-	58.68	12/27/76	88.05	07/29/82	83.13 83.28 82.96 82.84 82.70 82.90 82.87 82.82 83.04 83.20 83.26 83.36 83.45 83.49 83.48 83.67 83.74 83.88	04/08/83 04/11/83 04/25/83 05/03/83 05/09/83 05/20/83 06/02/83 06/09/83 07/08/83 07/18/83 07/22/83 07/29/83 08/12/83 08/19/83 08/26/83 09/03/83 09/11/83 09/22/83
60.		4720.	1952-	0.98	03/13/52	28.84	04/07/80	7.25	04/11/83
16.	50.- 308.	4716.	1961-	2.00	09/10/61	46.37	09/17/81	33.58 25.91 35.57	10/26/82 04/11/83 06/28/83
2.	15.- 17.	4630.	1981-	0.79	04/11/83	4.39	10/02/81	0.79	04/11/83
2.	85.- 105.	4620.	1975-	6.76	03/23/83	13.99	05/16/75	8.40 6.76 6.89	11/08/82 03/23/83 04/11/83
2.	18.- 20.	4620.	1977-	5.79	04/11/83	10.78	07/25/77	7.69 5.97 5.79	11/08/82 03/23/83 04/11/83
2.	82.- 102.	4641.	1975-	0.76	03/23/83	12.20	07/24/79	3.62 0.76 1.22	11/08/82 03/23/83 04/11/83

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 17BCCD1	390954119460401	NEVADA-DWR	25	U		U	102.
104 N15 E20 17BDAD1	391001119453801	CITY OF CARSON	25	P		U	533.
104 N15 E20 17CAAD2	390949119453802	NEV BLDG & GRNDS DEPT	25	U		U	30.
104 N15 E20 17CACD1	390940119454701	NEV BLDG & GRNDS DEPT	25	P		U	595.
104 N15 E20 17DBBD1	390950119452901	CITY OF CARSON	25	P		U	820.
104 N15 E20 17DDDA1	390933119450601	CITY OF CARSON	25	P		U	604.
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 29BDDC1	390809119454401	CITY OF CARSON	25	P		U	560.
104 N15 E20 29DAAB1	390807119450901	NEVADA-DWR	25	U		U	105.
104 N15 E20 32BDAA1	390728119453301	NEVADA-DWR	25	U		U	105.
104 N15 E20 32DDCC1	390651119394801	STEWART INDIAN AG	25	U		U	243.

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	82.- 102.	4680.	1961-	16.90	04/11/83	27.45	07/24/79	20.67 17.13 16.90	11/08/82 03/23/83 04/11/83
12.	100.- 533.	4667.	1960-	5.20	03/22/60	46.43	09/15/81	18.25 9.14 9.25 9.83 9.72 9.57 9.28 9.09 8.71 8.49 8.31 8.06 7.85 7.45 7.35 7.30 7.22 7.15 7.07 7.00 6.99 6.90 6.92 6.92 6.84 6.76 7.00 7.07 7.52 11.83	10/26/82 02/07/83 02/08/83 02/09/83 02/10/83 02/11/83 02/14/83 02/16/83 02/22/83 02/24/83 02/28/83 03/04/83 03/11/83 03/21/83 03/25/83 03/28/83 04/01/83 04/04/83 04/08/83 04/11/83 04/15/83 04/18/83 04/22/83 04/25/83 05/02/83 05/09/83 05/16/83 05/20/83 05/23/83 06/13/83
2.	50.- 55.	4663.	1976-	8.36	02/07/83	14.84	08/03/81	8.36 8.37 8.44 8.36 8.25 8.16 9.11 8.81 8.02 8.05 7.64 8.24 8.04 7.83 7.70 7.65 7.68 7.65 7.66 7.64 7.77 7.67 7.66 7.35 7.48 7.73 7.70 7.90	02/07/83 02/08/83 02/10/83 02/11/83 02/14/83 02/16/83 02/22/83 02/25/83 02/28/83 03/04/83 03/11/83 03/21/83 03/25/83 03/28/83 04/01/83 04/04/83 04/08/83 04/11/83 04/15/83 04/18/83 04/22/83 04/25/83 05/02/83 05/09/83 05/16/83 05/20/83 05/23/83 06/13/83
18.		4662.	1946-	2.56	04/30/46	19.29	07/17/81	6.25	04/11/83
26.	200.- 805.	4655.	1976-	4.92	04/11/83	23.90	10/22/76	7.08 4.92	02/07/83 04/11/83
20.	155.- 589.	4643.	1969-	-0.71	04/11/83	26.53	03/24/82	-0.71	04/11/83
2.	82.- 102.	4739.	1975-	2.34	01/06/75	18.96	09/17/81	18.07 14.73 14.42	11/08/82 03/23/83 04/11/83
48.		4685.	1962-	20.53	03/29/71	28.63	03/24/82	23.63	04/11/83
24.	125.- 550.	4714.	1973-	48.50	02/17/78	56.49	03/24/82	54.69	04/11/83
2.	80.- 100.	4698.	1975-	27.70	03/12/75	50.49	07/16/80	40.85 36.79 36.48	11/08/82 03/23/83 04/11/83
2.	82.- 102.	4720.	1975-	32.03	02/12/75	45.11	09/07/82	37.82 35.85 35.59	11/08/82 03/23/83 04/11/83
10.	150.- 241.	4705.	1971-	20.36	04/11/83	28.04	09/07/82	20.36	04/11/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N16 E20 33CCDD1	391205119444901	NEVADA-DWR	25	U		U	113.
105 N11 E20 06ABB 1	385051119464101	USGS	5	U	110VLFL	U	16.
105 N12 E19 01BDCD1	385557119475701	USGS MOTTS-W. F.	5	U		U	19.
105 N12 E19 02BBD 1	385559119485701	JOHN C FEIL	5	S		U	262.
105 N12 E19 02CBAA1	385556119491501	USGS MOTTS-B	5	U		U	22.
105 N12 E19 11CDCC1	385439119490901	BLANKENSHIP	5	S		U	60.
105 N12 E19 12CDCD1	385438119475501	USGS CENT-BR	5	U		U	19.
105 N12 E19 13BAAB1	385436119475501	SARMAN	5	H		U	223.
105 N12 E19 23CDBB1	385304119460601	USGS SCOSSA	5	O		U	27.
105 N12 E19 24CCAA1	385303119480201	WAYNE CURRIE	5	H		U	82.
105 N12 E19 36ADDA1	385138119471801	LEWALLEN LAND & CATTLE CO	5	U		U	198.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	94.- 118.	4732.	1975-	44.22	04/11/83	49.24	09/17/81	47.79 44.24 44.22	11/08/82 03/23/83 04/11/83
2.	13.- 16.	4845.	1977-	0.58	05/06/78	6.01	09/28/77	2.79 2.60 1.61 1.45 1.52	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
1.		4700.	1982-	4.72	07/20/82	6.66	03/18/82	6.45 5.77 6.58 5.79 5.19 5.59 4.80	10/20/82 01/06/83 02/24/83 05/19/83 06/08/83 07/12/83 08/16/83
3.		4696.	1981-	-13.33	06/23/82	-5.17	07/23/81	-11.50 -6.67 -13.25 -11.92 -11.83 -11.75 -12.67 -12.25 -12.25 -12.08	10/21/82 12/22/82 01/28/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83 09/15/83
1.		4705.	1982-	5.49	09/22/82	14.20	03/09/82	5.93 6.48 5.59 5.36	10/20/82 02/24/83 05/19/83 08/16/83
4.		4714.	1981-	-19.50	03/30/83	-12.58	09/18/81	-16.75 -17.50 -19.17 -19.00 -19.50 -18.75 -18.33 -17.50 -17.50 -17.92	10/21/82 12/22/82 01/28/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83 09/15/83
1.		4711.	1982-	1.64	06/09/83	6.56	04/06/82	4.91 4.59 4.46 1.64 3.55 4.49	10/20/82 01/06/83 02/24/83 06/09/83 07/12/83 08/16/83
3.		4711.	1981-	-8.33	07/20/82	-2.83	09/18/81	-7.00 -7.33 -5.75 -6.08 -5.83 -7.75 -7.42 -7.83 -7.16	12/22/82 01/21/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83 09/15/83
1.		4795.	1982-	0.0	02/24/83	5.46	02/14/82	1.35 0.0 0.0 0.33 1.28	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
10.		4731.	1981-	-16.08	01/28/83	-12.83	10/21/81	-14.67 -14.58 -16.08 -14.67 -14.33 -14.00 -15.58 -15.33 -16.00	10/21/82 12/22/82 01/28/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83
12.		4794.	1981-	0.56	08/16/83	4.91	09/18/81	2.43 2.62 1.92 0.73 0.56	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N12 E20 01DCDB1	385534119405901	PARKS	5	H		U	210.
105 N12 E20 04BAAA2	385620119453101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06ABCC1	385612119464101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06BADD1	385612119464401	ROLPH III	5	I		U	430.
105 N12 E20 07DBCC1	385452119464101	USGS	5	U	110VLFL	U	15.
105 N12 E20 09BCAD1	385512119444801	JOHN H WHITE	5	I		U	450.
105 N12 E20 10AAAB1	385528119425801	STODDARD JACOBSEN	5	U		U	355.
105 N12 E20 14AABA1	385437119415201	U.S. FISH HATCH NO. 5	5	N		U	800.
105 N12 E20 14BABC1	385430119422401	USGS	5	U	110VLFL	U	21.
105 N12 E20 17BAAD1	385430119455001	JOHN HELWINKEL	5	I		U	365.
105 N12 E20 19ABBB1	385343119464101	USGS VERDE W	5	U		U	17.
105 N12 E20 21BCBC1	385327119445801	TUSH	5	U		U	81.
105 N12 E20 23DACA1	385311119415301	U.S. FISH HATCH NO. 2	5	N		U	500.
105 N12 E20 24DABC1	385314119404901	JOHN PASEK	5	I		U	220.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4981.	1981-	127.12	08/16/82	128.42	05/19/83	128.42 128.18	05/19/83 07/12/83
2.	11.- 21.	4759.	1977-	4.16	06/18/81	9.07	03/28/79	6.01 6.05 6.34 5.43 4.98	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	18.- 21.	4716.	1977-	1.95	06/10/80	6.21	10/11/77	3.08 3.55 3.47 3.83 2.85	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4716.	1981-	1.70	02/24/83	8.95	08/18/81	2.72 1.70 3.60 2.61 1.84	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	13.- 15.	4718.	1977-	1.33	03/28/79	3.52	10/11/77	1.65 1.42 2.25 2.23 1.93	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4769.	1981-	12.45	06/18/81	22.43	04/20/82	15.88 20.15 19.69 14.04 13.22	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4821.	1981-	25.32	09/22/82	34.63	08/17/81	25.53 25.35 29.19 30.04 25.96	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4883.	1981-	44.20	09/22/82	54.20	05/19/83	46.71 51.33 54.20 50.53 48.64	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	4.89 6.74 6.99 4.98 4.74	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
18.		4775.	1955-	9.26	07/11/67	26.81	09/18/81	14.71 19.12 19.17 10.90 10.74	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
1.		4735.	1982-	1.66	05/19/83	5.65	02/09/82	3.17 2.95 1.66 2.51 1.93	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
8.		4820.	1981-	29.35	09/22/82	63.92	04/20/82	39.94 54.37 49.01 35.24 34.58	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4891.	1981-	16.92	08/16/83	22.54	08/17/81	18.89 18.11 18.86 18.20 16.92	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
8.		4977.	1980-	94.47	05/19/83	104.02	07/22/81	96.58 94.77 94.47 96.34 96.55	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N13 E19 09DDAB1	390016119504101	GENOA PARK	5	P		U	306.
105 N13 E19 11CCDD1	385951119492001	USGS GENOA R	5	O		U	18.
105 N13 E19 11CCDD2	385951119491801	USGS GENOA R	5	O		U	18.
105 N13 E19 12BBAD1	390037119480701	SETTLEMAYER RANCHES	5	S		U	400.
105 N13 E19 22CAAA1	385815119500301	USGS MULL-BROK.	5	U		U	16.
105 N13 E19 22CCAC1	385813119502601	ALEXANDER	5	I	110VLFL	U	172.
105 N13 E19 23DDAD1	385816119482401	USGS	5	U	110VLFL	U	21.
105 N13 E19 24CADD1	385821119475001	DANGBERG-MULLER LN.	5	S		U	401.
105 N13 E19 33DADD1	385637119503701	ALLERMAN	5	U		U	80.
105 N13 E20 03BCBB1	390122119424701	HECKMAN	5	U		U	108.
105 N13 E20 08ACBC1	390024119453501	USGS HEYBURN	5	O		U	21.
105 N13 E20 18BAAA1	385948119464401	USGS	5	U	110VLFL	U	21.

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4776.	1981-	19.51	05/19/83	51.95	10/21/81	37.90 23.88 19.51 24.06 26.64	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
1.		4673.	1982-	5.12	07/12/83	8.55	08/18/82	8.15 7.29 5.48 5.12 7.30	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
1.		4673.	1982-	2.53	02/16/82	7.87	08/18/82	7.69 6.43 5.57 4.40 6.60	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
4.		4667.	1981-	-18.27	04/23/81	8.69	08/18/81	-16.43 -17.77 -17.77 -17.02 -17.60 -17.68 -17.77 -17.43 -17.18 -17.77	10/21/82 12/22/82 01/21/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83 09/15/83
1.		4677.	1982-	3.30	02/19/82	5.35	02/05/82	5.23 4.36 4.27 4.31 4.48	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
12.	69.- 169.	4760.	1977-	51.17	08/16/83	71.74	10/21/81	56.57 59.08 58.80 51.17	10/20/82 02/24/83 05/19/83 08/16/83
2.	18.- 21.	4681.	1977-	0.79	06/22/82	5.03	09/20/81	2.74 1.43 1.78 1.52 3.71	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
3.		4685.	1981-	-15.35	06/23/82	-3.77	09/20/81	-13.60 -13.77 -14.68 -14.10 -13.93 -13.76 -14.27 -14.02 -13.85 -13.93	10/21/82 12/22/82 01/21/83 02/24/83 03/30/83 05/03/83 06/08/83 07/08/83 08/09/83 09/15/83
8.		4755.	1981-	16.96	05/19/83	27.39	09/20/81	22.61 18.00 16.96 18.29 19.09	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
6.		4756.	1981-	32.05	02/24/83	32.57	08/17/82	32.35 32.05 32.24 32.34 32.05	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
1.		4692.	1982-	2.83	02/24/83	18.75	03/23/82	4.73 2.83 3.43 3.37 3.36	10/22/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	11.- 21.	4682.	1977-	1.58	05/19/83	4.43	09/29/77	3.32 3.06 1.58 2.91 2.48	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N13 E20 19AAAB1	385834119461501	DANGBERG TROUGH	5	S		U	318.
105 N13 E20 19ACCC1	385834119464101	USGS	5	U	110VLFL	U	11.
105 N13 E20 21BDDC1	385834119443201	USGS	5	U	110VLFL	U	22.
105 N13 E20 22CADD1	385821119432401	DANGBERG SEC. 22	5	I		U	
105 N13 E20 29AABB1	335807119451401	DANGBERG SEC. 29	5	I		U	
105 N13 E20 30DBBB1	385730119464101	USGS	5	U	110VLFL	U	21.
105 N13 E20 32CAAA1	385630119452001	MACK LAND & CATTLE CO	5	I	110VLFL	U	420.
105 N13 E20 34ACBC1	385655119432101	DANGBERG SEC. 34	5	I		U	
105 N13 E21 19CBBA1	385834119395901	BUCKEYE CREEK	5	U		U	140.
105 N13 E21 29DDAD1	385724119382301	BLM FISH SPRING	5	S		U	95.
105 N13 E21 32BDAD1	385657119385801	CHARLES D JONES	5	I		U	608.
105 N13 E21 33CDD1	385626119375201	LYANDON FINGAR	5	I		U	132.
105 N14 E19 11CADC1	390519119490201	LAVERNE ROSSE	5	H		U	250.
105 N14 E19 12ADAB1	390542119472001	RUSSIE PLUME	5	H		U	120.
105 N14 E19 25BAAC1	390230119480001	CARSON INDIAN COL	5	I	110VLFL	U	239.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
3.		4696.	1981-	-6.10	06/22/82	16.33	08/18/81	-5.43 -5.77 -6.01 -5.93 -5.77 -5.43 -5.85 -5.43 -5.51 -5.60	10/20/82 12/22/82 01/21/83 02/24/83 03/30/83 05/03/83 06/08/83 07/07/83 08/09/83 09/15/83
2.	2.- 11.	4694.	1977-	1.03	05/07/80	5.61	09/29/77	2.97 1.50 1.81 2.05 1.14	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	12.- 22.	4742.	1977-	10.09	05/02/81	13.02	10/02/77	11.76 12.10 11.00 10.77 11.04	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
12.		4799.	1981-	16.00	09/22/82	23.46	04/20/82	17.58 20.69 21.60 18.12 17.95	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
12.		4723.	1981-	0.37	07/20/82	3.86	08/17/81	0.70 0.79 0.69 0.58 0.55	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	19.- 21.	4702.	1977-	1.88	09/28/77	8.45	10/20/81	7.09 5.14 4.58 5.20 5.44	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
18.		4733.	1951-	7.22	07/11/67	16.39	07/22/81	9.93 11.50 10.92 9.28 8.53	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
		4791.	1981-	4.53	08/17/82	12.57	03/19/82	5.54 7.75 9.70 3.80 4.63	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
6.		5000.	1970-	93.05	08/16/83	102.38	05/14/70	93.54 93.05	05/19/83 08/16/83
8.			1981-	55.99	03/18/82	58.08	09/18/81	56.16 56.09	05/19/83 08/16/83
14.		5141.	1981-	27.80	08/17/81	28.57	09/22/82	28.16 28.02	05/19/83 08/16/83
10.		5206.	1981-	45.30	03/19/81	48.63	09/22/82	47.03	08/16/83
8.		5167.	1981-	81.99	08/16/83	95.82	09/20/81	87.33 84.13 82.82 84.19 81.99	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
6.		4909.	1981-	34.58	02/24/83	67.63	08/18/82	43.25 34.58 52.74 58.28 50.13	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
12.		4680.	1951-	6.09	04/04/76	23.00	10/12/61	9.85 8.64 7.04 7.44	10/20/82 02/24/83 05/19/83 07/12/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N14 E19 26ABBC1	390315119485001	HARVEY GROSS SEC 26	5	I		U	
105 N14 E19 35CBBC1	390156119492301	GROSS SEC 35	5	S		U	300.
105 N14 E20 07CBAD1	390525119465901	DOUGLAS CO.	5	U		U	246.
105 N14 E20 09BABB1	390559119444301	NEV STATE PRISON	5	I		U	454.
105 N14 E20 19ABBC1	390410119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 23CBAB1	390254119445101	PAUL UNRUH NORTH	5	U		U	420.
105 N14 E20 30DCCB1	390205119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 32DCCC1	390137119453601	USGS	5	U	110VLFL	U	21.
105 N14 E20 33BCDA1	390208119444601	PAUL UNRUH TURF	5	U		U	220.
105 N14 E20 35BCCC1	390202119424701	PAUL UNRUH EAST	5	U		U	280.
105 N12 E20 13DDBB1	385413119405001	TROELS UDSEN	5	H		U	250.
107 N10 E24 04CD 1	384500119182001	WALTER STRAUB	19	U	110VLFL	U	250.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4776.	1981-	20.10	05/21/81	24.56	08/18/82	20.45 19.23 19.63 20.12 19.82	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
3.		4659.	1981-	-10.58	05/03/83	-2.33	05/20/82	-8.83 -9.50 -10.40 -9.50 -10.58 -10.58 -9.00 -10.00 -9.16	10/21/82 12/22/82 01/21/83 02/24/83 03/30/83 05/03/83 07/08/83 08/09/83 09/15/83
6.		4835.	1981-	91.79	05/01/81	111.25	08/17/82	104.06 101.28 100.11 103.08 102.76	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
12.		4649.	1981-	11.93	02/24/83	48.49	07/12/83	16.57 11.93 48.49 25.67	10/20/82 02/24/83 07/12/83 08/16/83
2.	11.- 21.	4648.	1977-	5.09	02/24/83	9.46	11/13/77	7.49 5.09 4.64 4.99 5.47	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
16.		4680.	1981-	10.97	02/24/83	15.13	09/18/81	12.44 10.97 11.21 11.78 11.57	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	11.- 21.	4654.	1977-	2.26	03/06/80	6.43	10/11/77	4.27 2.75 3.38 3.46 3.62	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
2.	11.- 21.	4679.	1977-	2.59	06/21/82	9.54	10/02/77	3.66 2.66 3.17 2.85 2.62	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
13.		4683.	1981-	-0.93	05/19/83	3.52	09/18/81	1.70 -0.63 -0.93 -0.18 -0.02	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
8.		4836.	1981-	101.61	03/20/81	109.81	10/19/81	105.49 105.48 105.44 105.97 102.34	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
6.		5005.	1980-	144.46	03/19/81	146.59	06/21/82	146.46 145.79 145.58 146.12 146.43	10/20/82 02/24/83 05/19/83 07/12/83 08/16/83
14.		4900.	1948-	60.86	11/30/48	100.64	04/07/78	80.60	03/11/83
		4855.	1980-	22.71	03/31/81	29.18	03/24/82	23.04	03/11/83
16.		4865.	1948-	23.62	03/03/48	89.21	06/22/61	41.16	03/11/83
16.		4745.	1972-	4.50	06/23/72	8.35	04/07/78	4.80	03/11/83
16.	156.- 382.	4538.	1960-	48.36	10/14/80	54.05	01/19/83	54.05	01/19/83
16.	183.- 575.	4568.	1961-	68.87	10/26/65	75.49	12/28/81	72.27	01/19/83
16.	89.- 523.	4320.	1981-	6.52	02/01/83	9.54	11/16/81	6.52	02/01/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
108 N12 E25 03CBB1	385555119103701	SCEIRINE RANCHES	19	I		U	334.
108 N12 E25 09CDB1	385457119113601	CARL N HEBREW	19	H		U	100.
108 N12 E25 11CACD1	385456119091901	WILSON THOMAS	19	I		U	245.
108 N12 E25 12CDA1	385447119075901	ALBERT MACKENZIE	19			U	102.
108 N12 E25 15DB 1	385410119100401	DAVE MENESINI	19	I		U	310.
108 N12 E25 21ACA 1	385332119110601	KAY BUNN	19	H		U	100.
108 N12 E25 23DCC 1	385255119090501	NAT LOMMORI	19	I		U	325.
108 N12 E25 27DAA 1	385225119094801	CHARLES HOWARD	19	I		U	
108 N12 E25 33ACBD1	385142119111301	HARRY HASKINS	19	H		U	68.
108 N12 E25 35DC 1	385204119075201	JOHN C BAKER	19	I		U	253.
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 CONNELLY	19	I		U	280.
108 N13 E25 14CCAA1	385912119092601	CITY OF YERINGTON	19	I		U	330.
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 E25 36DCCA1	385633119074201	R H HOLBROOK	19	I		U	255.
108 N13 E26 02BBCC1	390127119030001	CARROL HASKINS	19	I		U	203.
108 N13 E26 06DBDC1	390059119064301	LANDOLT	16	I		U	241.
108 N13 E26 08CACA1	390011119060201	BARBARA DILLARD	19	I		U	130.
108 N13 E26 09DBCC1	390006119043901	H H THURSTON	19	I		U	166.
108 N13 E26 31DDCD1	385628119063301	TIBBELS	19	I		U	172.
108 N14 E25 03DDDC1	390558119094701	VINCE DYE	19	I		U	85.
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 27ACCD1	390225119100801	TWOMBLEY POLI RNCH	19	I		U	320.
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 15DAAC1	390436119030701	ARTHUR BURGESS	19	I		U	158.
108 N14 E26 23CACA1	390341119023701	JOE THOMAS	19	H		U	90.
108 N14 E26 26CCDD1	390231119024501	LORIMER G HENRY	19	I		U	250.

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.	104.- 334.	4415.	1961-	9.63	10/28/65	12.22	12/29/81	9.76	01/19/83
6.	60.- 100.	4430.	1965-	35.07	01/19/83	48.00	10/19/78	35.07	01/19/83
14.	100.- 245.	4436.	1961-	5.86	10/27/65	8.22	12/29/81	6.72	01/19/83
6.		4470.	1978-	18.00	06/28/78	32.94	01/20/83	32.94	01/20/83
14.	42.- 310.	4440.	1965-	9.77	11/09/65	12.45	03/14/66	10.10	01/19/83
6.		4460.	1965-	21.32	01/19/83	24.71	04/15/65	21.32	01/19/83
16.	104.- 325.	4460.	1965-	7.05	10/20/65	10.87	12/28/81	9.39	01/20/83
		4458.	1977-	11.74	10/14/80	23.30	08/16/77	12.37	01/19/83
6.	0.- 22.	4500.	1949-	16.00	01/26/49	20.99	04/20/65	16.31	01/19/83
16.	110.- 242.	4500.	1952-	8.00	01/26/52	20.44	04/07/78	12.85	03/11/83
16.	20.- 505.	4360.	1965-	6.26	03/10/80	11.14	03/24/82	8.65	01/20/83
14.	94.- 328.	4375.	1960-	7.01	01/20/83	8.40	12/23/81	7.34	03/11/83
								7.01	01/20/83
18.	120.- 432.	4350.	1972-	7.08	01/20/83	8.00	05/14/72	7.08	01/20/83
16.	103.- 306.	4330.	1961-	1.54	10/14/80	14.00	05/27/61	4.07	01/20/83
16.	115.- 280.	4370.	1977-	5.37	03/24/81	9.79	11/03/81	6.51	01/20/83
16.	140.- 290.	4382.	1963-	5.00	04/03/63	7.88	01/20/83	7.88	01/20/83
14.	100.- 308.	4394.	1963-	5.62	10/28/65	9.09	12/29/81	6.98	01/20/83
6.		4425.	1965-	14.68	11/01/65	20.03	12/29/81	19.68	01/20/83
14.	102.-	4405.	1981-	6.85	01/20/83	9.33	11/19/81	6.85	01/20/83
14.	40.- 255.	4434.	1965-	10.22	10/28/65	22.12	12/29/81	16.24	01/20/83
12.	64.- 203.	4408.	1961-	65.00	11/04/61	74.43	01/20/83	74.43	01/20/83
14.	95.- 241.	4358.	1961-	5.35	01/19/83	8.00	05/18/61	5.35	01/19/83
13.	50.- 120.	4350.	1973-	8.00	03/01/73	15.00	11/29/77	12.14	01/20/83
12.	60.- 160.	4380.	1956-	43.00	12/15/56	51.39	12/30/81	50.21	01/20/83
13.	90.- 172.	4460.	1960-	37.00	08/04/60	42.94	03/23/81	40.80	01/20/83
16.	91.- 258.	4323.	1977-	7.35	01/20/83	16.40	11/29/77	7.35	01/20/83
16.	240.- 604.	4320.	1981-	6.96	01/20/83	24.80	07/17/81	6.96	01/20/83
16.	97.- 451.	4320.	1981-	4.98	02/01/83	5.77	03/23/81	4.98	02/01/83
16.	89.- 523.	4320.	1981-	6.52	02/01/83	9.54	11/16/81	6.52	02/01/83
16.	107.- 348.	4410.	1976-	7.12	02/01/83	20.00	08/18/76	7.12	02/01/83
16.	448.- 460.	4332.	1974-	9.17	02/01/83	12.00	04/10/74	9.17	02/01/83
6.		4330.	1965-	6.02	10/27/65	11.20	12/23/81	8.04	01/20/83
		4323.	1983-	7.23	02/01/83	7.23	02/01/83	7.23	02/01/83
10.		4345.	1965-	19.70	10/27/65	26.61	12/23/81	23.14	01/20/83
16.	91.- 320.	4351.	1960-	8.90	03/08/77	12.24	03/27/62	10.04	01/22/83
10.	110.- 150.	4390.	1960-	45.00	12/06/60	52.22	04/07/65	47.93	01/22/83
16.	103.- 358.	4360.	1961-	10.00	03/30/61	18.99	01/20/83	18.99	01/20/83
12.	87.- 123.	4330.	1959-	2.00	05/01/59	7.80	11/29/77	2.23	01/19/83
12.	87.- 123.	4333.	1983-	5.38	01/19/83	5.38	01/19/83	5.38	01/19/83
12.	58.- 158.	4328.	1961-	2.48	03/16/66	7.48	12/30/81	6.19	01/19/83
7.	70.- 90.	4340.	1983-	8.94	01/19/83	8.94	01/19/83	8.94	01/19/83
12.	100.- 250.	4415.	1964-	64.00	06/11/64	85.97	01/20/83	85.97	01/20/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
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.
117 S01 E35 28A 1	374950118051001	REX CLARK	9	S	110VLFL	U	624.
118 N03 E36 02BCB 1	380854117565601		9	U	110VLFL	U	145.
121A N06 E35 05CBD 1	382415118063801		21	U	110VLFL	U	106.
128 N26 E39 30BBAB1	400600117380001	LITTLE MCCOY RCH	27	S	110VLFL	U	114.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
131 N30 E42 24CCAD1	402710117124001	USBLM	15	S	110VLFL	U	54.
139 N19 E47 36B 1	392800116380001	DRY CREEK RANCH	15		110VLFL	U	102.
139 N21 E49 16C 1	394059116282901	FRED ETCHEGARAY	11	S	110VLFL	W	60.
142 S01 E42 10AAA 1	375300117150001		9	U		U	443.
143 S03 E39 16CA 1	374036117392901		9	S	110VLFL	U	60.
144 S06 E43 05CAD 1	372700117110001		9	S	110VLFL	U	
151 N18 E51 34D 1	392310116125001	BARTHOLEMA CORP	11	S	110VLFL	U	134.
154 N18 E55 31CACCI	392300115493001	FERA	33	S	110VLFL	U	43.
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	RAY THOMAS	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	20.
176 N32 E60 29C 1	403639115133001	USGS	7	U	110VLFL	U	202.
176 N32 E60 29C 2	403730115134002	USGS	7	U	110VLFL	W	15.
177 N35 E62 27B 1	405310114574001	USGS	7	U	110VLFL	U	286.
178B N22 E60 26AAB 1	394507115102501	PARIS	33	S	110VLFL	U	130.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	80.- 157.	4400.	1930-	79.25	01/19/83	79.97	10/15/80	79.25	01/19/83
16.	87.- 239.	4342.	1977-	6.52	10/15/80	11.20	11/29/77	6.53	01/20/83
16.	120.- 400.	4342.	1981-	7.44	01/23/83	17.00	10/13/81	7.44	01/23/83
14.	100.- 308.	4350.	1961-	5.07	10/28/65	9.98	12/29/81	8.28	01/19/83
12.	40.- 120.	4300.	1960-	4.00	07/03/60	13.25	11/29/77	5.06	01/19/83
14.	47.- 247.	4300.	1977-	5.31	01/19/83	21.00	08/01/77	5.31	01/19/83
6.	94.- 103.	4300.	1949-	4.00	07/16/49	8.99	11/19/81	7.43	01/19/83
16.	114.- 428.	4000.	1981-	1.86	02/01/83	5.32	11/16/81	1.86	02/01/83
16.	123.- 370.	4310.	1976-	1.86	02/01/83	10.40	11/29/77	1.86	02/01/83
		5566.	1976-	40.38	06/30/76	55.29	05/12/82	54.90	04/28/83
10.	32.- 132.	5566.	1966-	36.43	02/15/66	55.03	05/12/82	54.49	04/28/83
18.	441.- 696.	4125.	1954-	40.28	05/12/82	117.86	09/27/65	50.77	04/28/83
2.	60.- 62.	4056.	1968-	31.69	03/18/68	35.60	04/28/83	35.60	04/28/83
18.	328.- 345.	4140.	1952-	95.10	11/21/52	109.10	04/28/83	109.10	04/28/83
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	212.80	04/28/83
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	258.60	04/28/83
18.	264.- 436.	4372.	1952-	242.60	11/21/52	257.29	04/13/70	248.55	04/28/83
2.	16.- 18.	4010.	1968-	8.54	04/23/73	9.93	05/12/82	9.91	04/28/83
2.	39.- 41.	4039.	1968-	18.75	03/18/68	22.10	04/28/83	22.10	04/28/83
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	34.44	03/18/83
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	41.42	03/18/83
6.		4545.	1968-	95.47	04/13/71	101.00	03/18/83	101.00	03/18/83
6.		3730.	1968-	76.25	03/20/68	96.54	05/02/78	91.90 90.99	10/17/82 04/12/83
16.		4240.	1963-	12.87	04/06/83	21.57	03/21/65	12.87	04/06/83
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	11.57	04/14/83
8.		6260.	1964-	47.31	04/28/73	56.70	03/16/74	48.66	03/14/83
6.		6230.	1953-	39.15	03/02/53	46.35	03/24/64	43.92	03/14/83
10.		4960.	1960-	196.69	02/01/60	204.50	04/23/75	203.95	03/17/83
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69	46.52	03/17/83
8.		4622.	1967-	283.74	03/07/79	295.72	03/19/80	290.31	03/24/83
6.		6330.	1951-	93.69	03/16/66	96.11	04/19/71	94.72	03/14/83
36.		5930.	1946-	33.19	09/15/54	43.96	09/11/63	37.10	04/19/83
12.		2607.	1947-	-56.65	06/17/48	46.58	03/19/82	43.90	03/24/83
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58	46.53	03/24/83
14.	30.- 168.	2558.	1952-	15.43	02/02/59	29.94	03/06/81	27.49	03/24/83
8.		2679.	1945-	-23.20	03/06/45	90.61	02/27/75	84.98	03/24/83
10.		2684.	1947-	32.20	05/28/53	47.41	03/06/79	45.76	03/24/83
8.		5080.	1968-	13.73	01/18/77	22.82	03/15/80	21.83	04/13/83
6.		6000.	1949-	0.35	04/22/83	3.85	03/07/77	0.35	04/22/83
2.		6000.	1960-	0.75	03/31/70	7.48	09/21/61	2.68	04/23/83
6.		5650.	1941-	5.45	04/20/83	11.07	05/03/55	5.45	04/20/83
6.		6160.	1950-	59.85	04/21/69	65.45	04/20/83	65.45	04/20/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
184 N13 E67 08ACAB1	390032114281901	A SCHAURMAN	33	U	110VLFL	W	45.
187 N34 E67 06AD 2	405123114263201	WESTERN PACIFIC RR	7	N	110VLFL	U	250.
188 N34 E63 01D 1	405100114480001	WESTERN PACIFIC RR	7	U	110VLFL	U	320.
189B N43 E66 25D 1	413444114261701	ECCLLES 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.
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 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 09DCC 1	361259115153901	LAWRENCE MONTELLO	3	U		U	450.
212 S20 E60 13DCCD1	361201115123701	MIKE TOMASELLI	3	H		U	157.
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 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 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 09CCC 1	361258115032101	NELLIS AFB	3	P		U	650.
212 S20 E62 21AAC 1	361204115024901	USGS	3	U		U	95.
212 S20 E62 29DCAB1	361036115040401		3	U	110VLFL	W	98.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
		5790.	1947-	11.23	04/21/69	18.60	09/23/61	13.10	04/20/83
16.		5588.	1948-	26.85	03/27/51	30.72	09/17/64	28.40	04/20/83
12.		5610.	1968-	12.56	04/13/79	15.14	03/28/68	13.30	04/19/83
60.		5250.	1950-	8.36	04/29/69	15.21	02/28/68	8.58	04/12/83
6.		4800.	1968-	5.69	03/13/74	17.28	03/19/81	7.10	04/12/83
10.	60.- 80.	4850.	1946-	30.32	04/25/46	41.63	03/11/81	38.70	04/14/83
8.		4720.	1949-	10.72	03/20/50	22.82	08/27/64	17.60	04/14/83
10.		4605.	1962-	20.74	02/24/62	24.10	03/11/81	23.48	04/14/83
14.		4360.	1963-	13.28	04/14/83	26.26	11/18/65	13.28	04/14/83
48.		5400.	1965-	30.00	03/12/68	32.87	03/20/80	30.29	03/16/83
6.		5400.	1953-	3.20	03/16/76	13.66	10/13/62	6.68	03/16/83
6.		5600.	1962-	44.97	04/24/70	53.51	04/13/78	50.20	03/16/83
6.		3550.	1960-	5.85	02/23/63	11.76	01/18/77	9.17	04/13/83
10.		3020.	1952-	14.82	04/13/83	28.06	02/24/76	14.82	04/13/83
6.		2360.	1946-	-46.90	06/03/46	86.80	06/25/79	74.21 70.32	11/05/82 03/08/83
		2290.	1971-	127.15	03/05/71	169.12	03/08/83	169.12	03/08/83
9.	180.- 300.	2200.	1980-	123.74	02/24/81	127.24	06/19/81	126.90	03/08/83
		2185.	1971-	72.91	02/22/71	96.14	03/08/83	96.14	03/08/83
14.	370.-	1867.	1972-	108.82	02/26/81	139.05	02/24/72	114.96	03/21/83
8.	360.-	2400.	1970-	330.00	07/22/70	397.42	03/08/83	397.42	03/08/83
8.		2224.	1971-	36.83	03/09/83	87.30	02/22/72	36.83	03/09/83
4.	80.- 84.	1919.	1979-	60.94	05/01/81	62.48	09/29/80	62.35 61.60	11/04/82 03/08/83
12.	150.- 900.	1973.	1974-	39.50	03/01/77	56.04	03/06/74	52.70	03/23/83
4.	58.- 62.	1920.	1979-	37.63	03/09/83	38.91	09/29/80	37.98 37.63	11/04/82 03/09/83
30.	102.-1039.	1857.	1973-	49.29	02/22/80	82.15	02/14/73	51.06	03/17/83
4.	43.- 46.	1910.	1981-	27.55	03/02/81	28.61	03/09/83	28.50 28.61	11/04/82 03/09/83
8.	550.- 640.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	180.10 185.70	11/05/82 03/08/83
30.	249.-1019.	1911.	1973-	17.35	02/22/80	30.78	02/23/75	18.23	03/17/83
4.	11.- 15.	2010.	1979-	8.97	06/10/80	11.91	11/04/82	11.91 11.62	11/04/82 03/09/83
4.	27.- 31.	2000.	1981-	8.47	06/19/81	11.92	03/02/81	8.97 9.20	11/05/82 03/09/83
4.	14.- 18.	2155.	1981-	10.53	11/05/82	13.21	03/02/81	10.53 11.05	11/05/82 03/09/83
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	61.35 54.55	11/05/82 03/09/83
4.	18.- 22.	2010.	1981-	6.40	03/03/82	8.37	11/09/82	8.37 7.07	11/09/82 03/09/83
14.	290.- 630.	1827.	1973-	82.20	03/03/82	138.00	02/15/73	88.29	03/21/83
4.	91.- 95.	1795.	1981-	79.79	03/02/82	84.96	06/25/81	83.57 81.65	11/04/82 03/03/83
8.		1766.	1971-	42.77	03/08/83	75.06	10/12/77	43.52 42.77	11/03/82 03/08/83

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S21 E60 12BABA1	360825115130301	DEAN&NICK DALACAS	3	U		U	165.
212 S21 E61 01ACCC1	360908115062901	USGS	3	U		U	24.
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 29AAC1	360543115101301	MORRIS WOLLMAN	3	U	110VLFL	A	540.
212 S21 E61 36ADC 3	360449115061201	USGS	3	U	110VLFL	U	26.
212 S21 E62 08DBDA1	360733115034401	DORIS OKELLY	3	H		U	200.
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 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 E62 04DCCC1	360322115030801	CITY OF HENDERSON	3			U	780.
212 S22 E63 20ABC 1	360122114574801	CITY OF HENDERSON	3	U	110VLFL	U	750.
230 S16 E49 18DC 1	363310116294001	USBLM	23	U	110VLFL	U	340.
230 S17 E52 08CDB 1	362929116085701	HERSHEL & ETAL CLARK	23	I	110VLFL	U	246.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
		2270.	1973-	142.31	03/09/83	154.56	03/02/77	142.31	03/09/83
4.	20.- 24.	1840.	1979-	7.02	02/26/80	8.00	11/04/82	8.00 7.67	11/04/82 03/09/83
4.	11.- 15.	1990.	1979-	7.17	02/26/80	8.42	06/09/80	7.52 7.34	11/09/82 03/09/83
4.	13.- 14.	2047.	1981-	8.79	03/09/83	9.54	03/02/81	8.79	03/09/83
16.	500.- 746.	1930.	1961-	28.94	03/02/81	37.60	03/16/83	37.60	03/16/83
13.	260.- 820.	2090.	1968-	95.46	03/03/82	120.38	03/09/83	120.38	03/09/83
4.	41.- 45.	2120.	1979-	22.60	09/30/80	26.69	02/26/80	23.04 25.62	11/05/82 03/09/83
9.	210.- 300.	2215.	1972-	180.00	03/01/72	227.69	03/09/83	227.69	03/09/83
16.	318.- 786.	2041.	1963-	48.53	03/10/78	127.03	09/30/80	85.42 62.26	11/09/82 03/09/83
6.		2072.	1940-	-35.65	01/24/43	93.72	07/10/78	59.03 45.10	11/09/82 03/09/83
4.	20.- 24.	1950.	1981-	11.90	11/09/82	14.30	03/02/81	11.90 13.54	11/09/82 03/09/83
		2125.	1970-	34.00	02/01/70	40.06	03/11/74	37.30	03/09/83
8.		2140.	1970-	62.36	02/12/73	113.95	07/12/78	84.05 84.36	11/09/82 03/09/83
2.	23.- 26.	1948.	1977-	17.00	08/03/77	23.33	11/09/82	23.33 20.84	11/09/82 03/09/83
		1731.	1971-	12.59	03/08/83	16.40	03/05/71	12.59	03/08/83
2.	34.- 37.	1715.	1977-	12.88	03/08/83	17.00	08/03/77	13.69 12.88	11/04/82 03/08/83
13.	50.- 80.	1705.	1972-	12.06	02/27/79	19.97	02/22/72	14.62 13.90	11/04/82 03/08/83
4.	7.- 11.	1730.	1981-	3.80	06/25/81	8.14	11/04/82	8.14 6.12	11/04/82 03/08/83
		1720.	1973-	-52.40	03/15/83	-42.00	07/14/77	-52.40	03/15/83
4.	23.- 27.	1665.	1981-	17.28	03/17/81	19.85	03/02/81	18.25 18.44	11/04/82 03/08/83
8.	610.- 710.	2810.	1963-	473.00	02/25/63	498.04	03/14/83	498.04	03/14/83
4.	51.- 55.	2032.	1981-	46.69	06/25/81	51.70	11/09/82	51.70 48.20	11/09/82 03/09/83
		2165.	1955-	40.00	07/01/55	97.72	03/16/83	97.72	03/16/83
	430.-	1798.	1973-	-5.50	02/26/78	2.50	02/23/73	-1.10	03/09/83
14.	460.- 630.	2030.	1971-	319.01	03/08/83	331.10	03/05/71	319.01	03/08/83
12.		2375.	1955-	103.10	02/12/55	114.55	03/24/83	114.55	03/24/83
12.		2395.	1960-	33.24	02/16/65	57.28	03/08/77	37.75 45.10	03/24/83 03/09/83

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

STATION NUMBER	STATION NAME	DATE OF SAMPLE	COUNTY	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	LAND-SURFACE ALTITUDE (FEET)
350726114375501	213 S32 E66 33BBR 1 CROMER WELL	82-10-29	003	111FLDP	96	511.00
350910114344001	213 S32 E66 24RBA 1 SUNDANCE SHORES WELL	82-10-29	003	110VLFL	480	727.00
350937114341501	213 S32 E66 13DBB 1 RIVERSIDE TRAILER COURT	82-10-29	003	111FLDP	89	521.00

STATION NUMBER	DATE OF SAMPLE	TIME	WATER LEVEL (FEET BELOW LAND SURFACE)	SPECIFIC CONDUCTANCE (UMHOS)	PH, FIELD (STANDARD UNITS)	HARDNESS (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L ASCA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)
350726114375501	82-10-29	1230	19.60	1290	7.8	419	110	35	110	2.4	3.4
350910114344001	82-10-29	1130	--	1400	7.8	287	82	20	170	4.5	3.5
350937114341501	82-10-29	1100	--	1430	7.7	436	120	33	130	2.8	4.6

STATION NUMBER	DATE OF SAMPLE	ALKALINITY (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NO2+NO3, DIS-SOLVED (MG/L AS N)
350726114375501	82-10-29	216	320	97	20	825	<.10
350910114344001	82-10-29	133	220	210	29	814	1.4
350937114341501	82-10-29	164	340	160	18	904	<.10

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1 2.54×10^{-2}	millimeters (mm) meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3 4.047×10^{-1} 4.047×10^{-3}	square meters (m ²) square hectometers (hm ²) square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0 3.785×10^0 3.785×10^{-3}	liters (L) cubic decimeters (dm ³) cubic meters (m ³)
million gallons	3.785×10^3 3.785×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1 2.832×10^{-2}	cubic decimeters (dm ³) cubic meters (m ³)
cfs-days	2.447×10^3 2.447×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3 1.233×10^{-3} 1.233×10^{-6}	cubic meters (m ³) cubic hectometers (hm ³) cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1 2.832×10^1 2.832×10^{-2}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2} 6.309×10^{-2} 6.309×10^{-5}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1 4.381×10^{-2}	cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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