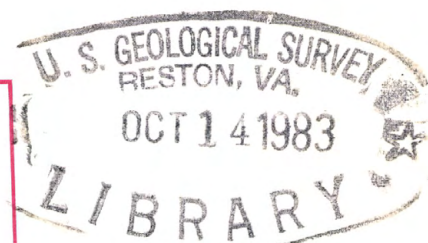
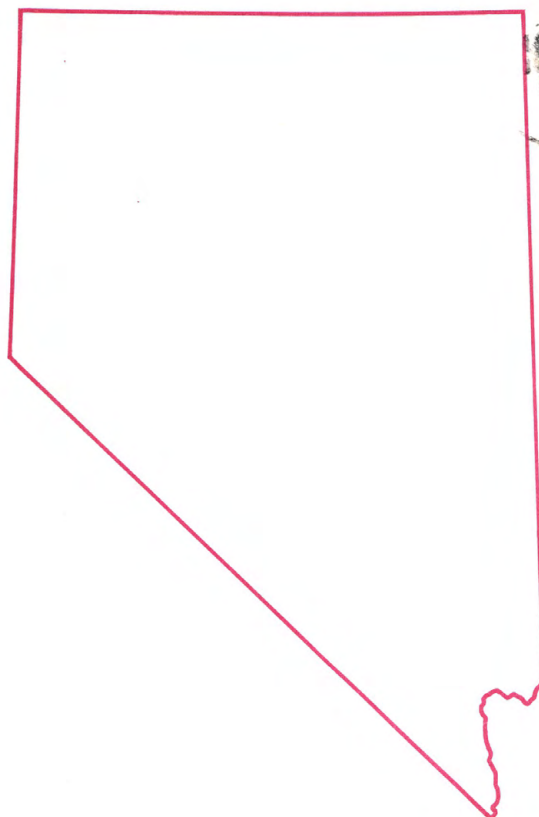


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Water Resources Data Nevada Water Year 1982



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-82-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

OCTOBER							NOVEMBER							DECEMBER						
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1982

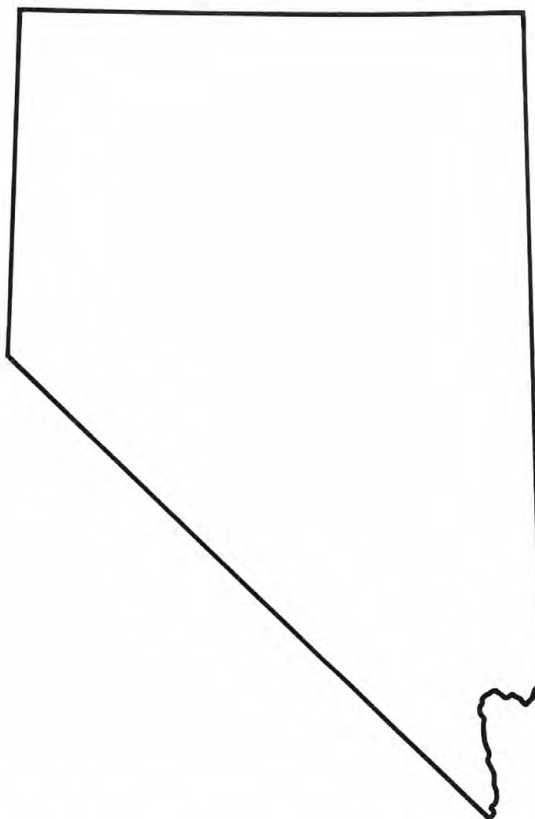
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Water Resources Data Nevada

Water Year 1982

by H.R. Frisbie, R.J. LaCamera, M.M. Riek, and D.B. Wood



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-82-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, 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: David L. Berger, Cassandra E. Berrum, Robert E. Bostic, Sherwood B. Browning, Robin L. Bunch, Rodney L. Carson, Mary F. Elliott, Kerry T. Garcia, Ray J. Hoffman, Judith D. Lee, Douglas K. Maurer, Otto Moosburner, David S. Morgan, Carol A. Myers, Larry J. Neff, William D. Nichols, Robert N. Pennington, Jacob Sarkin, Robert R. Squires, Thomas B. Tucker, A. S. Van Denburgh, and Richard J. Young.

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WATER RESOURCES DATA FOR NEVADA, 1982

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

INTRODUCTION

Water resources data published herein for the 1982 water year comprise the following records:

- Water discharge for 120 gauging stations on streams, canals, and drains.
- Discharge data for 40 peak-flow stations and 5 low-flow stations on streams.
- Stage and contents for 21 lakes and reservoirs.
- Water levels for 229 observation wells.
- Water-quality data for 93 stream, canal, and drain sites, 13 lake and reservoir sites, and 2 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 16, 18, and 19. 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-82-1." 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 1982 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.

HYDROLOGIC CONDITIONS DURING 1982

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.

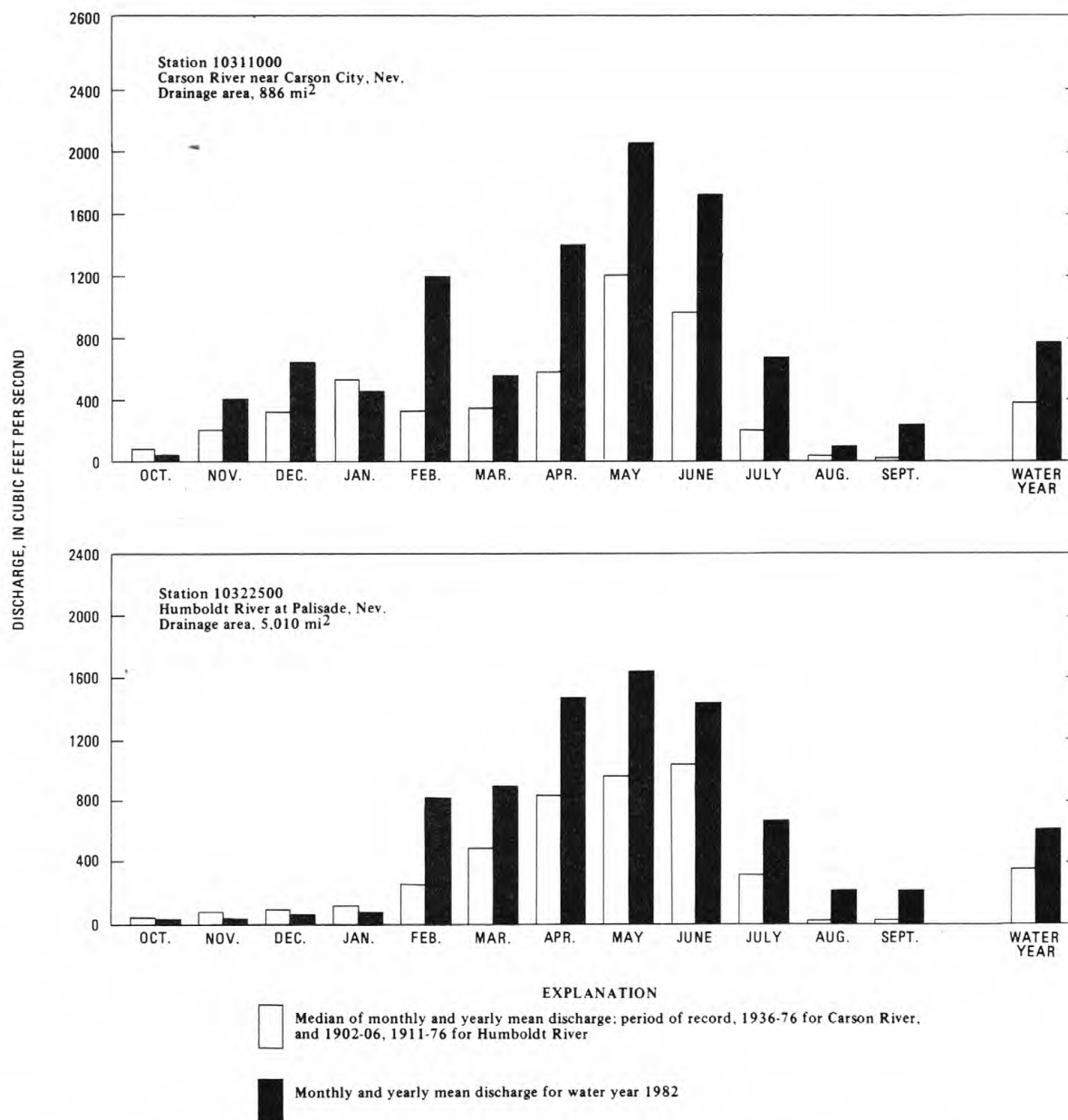


FIGURE 1.—Comparison of discharge during water year 1982 with the long term median discharge at two representative gaging stations.

Surface-Water Conditions

In the Humboldt River basin of northern Nevada, streamflow during the early part of water year 1982 was slightly below average. During the remainder of the water year, flow was well above average. For the entire year, the total discharge at Palisade (station 10322500) was 164 percent of normal. Monthly and annual mean discharges during water year 1982 and during the period 1903-76 for the river at Palisade are shown in figure 1.

The three rivers of far western Nevada--the Carson, Walker, and Truckee--also experienced higher-than-average flows during 1982. Characteristically, low flow is in late summer, and flow then increases through the autumn and winter until the snowmelt season in the spring. Maximum flows for the year can normally 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 1982, runoff in the river at Carson City (station 10310405) was 201 percent of normal. Monthly and annual mean discharges at Carson City are shown in figure 1.

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 flow is controlled--the East Fork by Bridgeport Reservoir and the West Fork by Topaz Lake. The flow of Walker River at Wabuska (station 10301500) was 210 percent of its 57-year average during water year 1982. The river terminates in Walker Lake, a shrinking, saline remnant of ancient Lake Lahontan, north of Hawthorne. Water-surface altitudes for the lake are shown in figure 2. The lake surface declined about 3-1/2 feet from March 1981 to March 1982, and then rose about 2-1/2 feet during the subsequent runoff period.

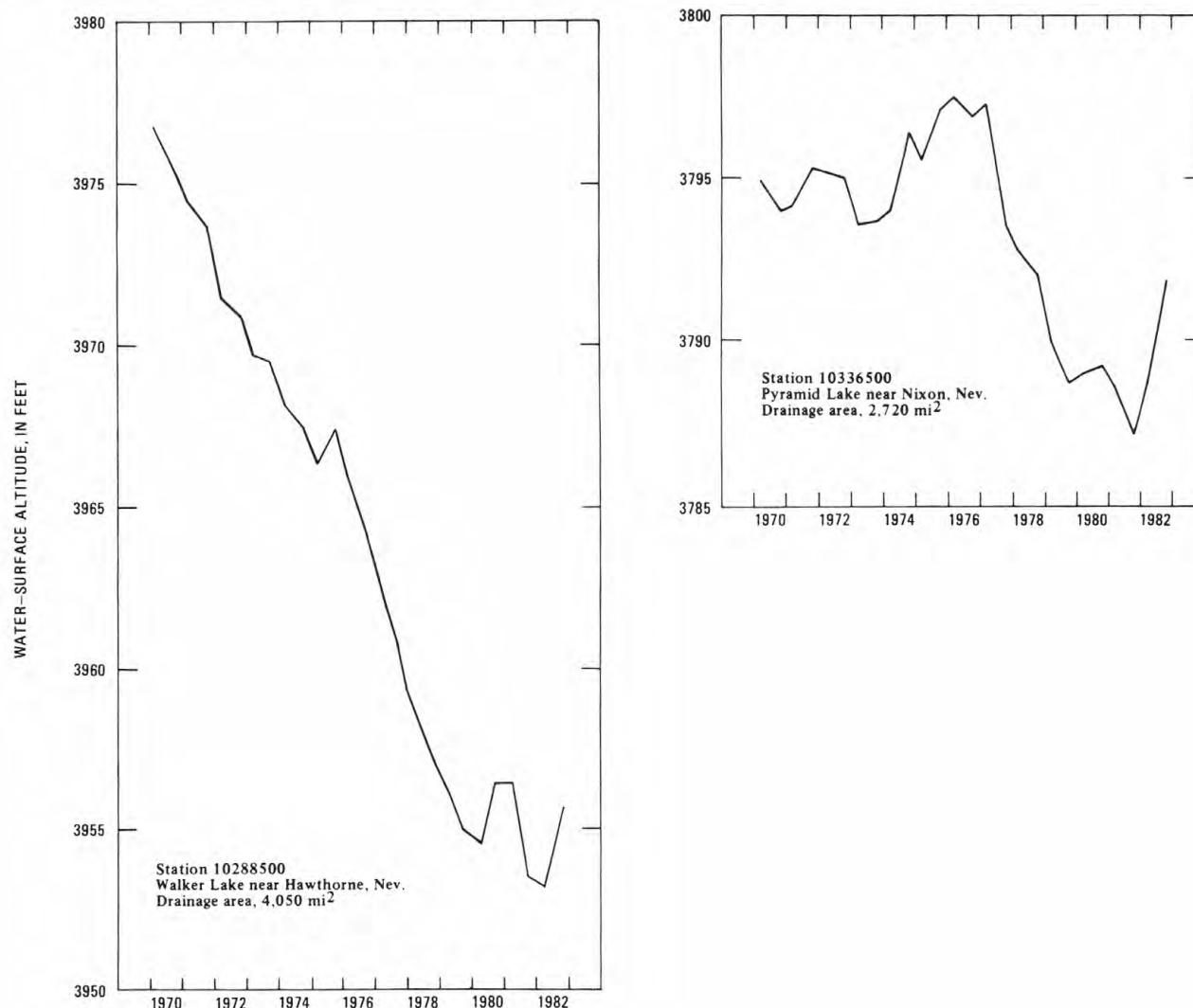


FIGURE 2.—Water-surface altitudes at Walker and Pyramid Lakes, 1970-82.

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 10304800), the mean daily discharge for water year 1982 was 202 percent of the 56-year average. The Truckee River feeds Pyramid Lake, a closed-basin water body similar to Walker Lake. Water-surface altitudes for Pyramid Lake rose slightly from 1970 to 1977. From 1977 through 1981, in contrast, the lake steadily receded. The high flows of 1982 reversed that trend, raising the lake level by more than 4½ feet, as shown in figure 2.

In southeastern Nevada, the Colorado River forms the State boundary with Arizona. Flow is completely 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 (cubic feet per second). Mean annual discharge there fluctuates on the basis of upstream supply and downstream power and irrigation requirements. During water year 1982, the flow averaged 10,200 ft³/s. In the Virgin River (one of the major inflows to Lake Mead on the Colorado), flow during 1982 was comparable to the long-term average.

The 1982 water year was significant in terms of flash flooding on ephemeral streams. On July 28, a thunderstorm with total precipitation of 2 to 4 inches caused flooding that damaged crops and roads at a rural community 7 miles northwest of Yerington. Clover Creek near Caliente flooded on August 12, damaging 300 feet of railroad embankment. Another afternoon thunderstorm on August 23 resulted in flooding at the resort area of Willow Beach on Lake Mohave. Peak discharge was an estimated 17,000 ft³/s on Jumbo Wash near the beach. This peak exceeded the previously estimated 100-year peak flow of 14,000 ft³/s. Fortunately, no loss of life was incurred because the Jumbo Wash campground was closed as a result of previous flood studies. Flooding near Blue Diamond, southwest of Las Vegas, did take one life the next morning, however. Discharge at the site peaked at about 4,500 ft³/s.

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 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. 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. Figure 3 shows pronounced trends in specific conductance (an indicator of dissolved-solids concentration) and discharge for the Wash since 1970. The discharge graph shows that 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 discharge graph also shows an increase in flow between the two gages. Much of this inflow apparently is saline ground water. The specific-conductance graph shows that 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 and 1982. This change reflects the dilution of saline ground-water inflow between the two gages by the increasing quantities of treated sewage effluent. In July 1981, a specialized chemical-treatment process for phosphorus removal was initiated 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 1982
Henderson	3.4 (19)	0.46 (15)
Boulder City	2.6 (30)	.54 (15)

¹Number of samples indicated in parentheses.

The data indicate a 5- to 7-fold reduction in the average concentration of total phosphorus at the Henderson and Boulder City gages.

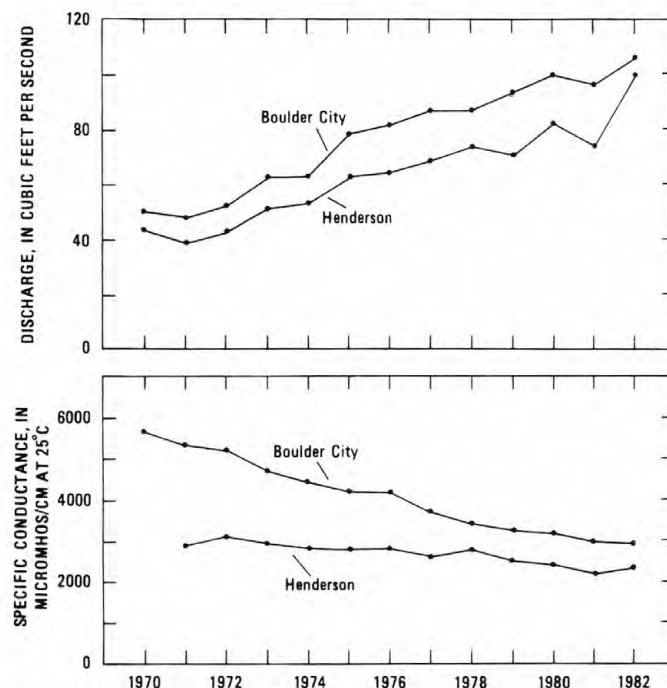


FIGURE 3.—Average annual discharge and specific conductance of Las Vegas Wash at the Henderson and Boulder City gages (stations 09419700 and 09419800 respectively), 1970–82.

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 (figure 1). 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 intense 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)	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

The tabulation on the following page summarizes discharge and selected water-quality characteristics at 17 stream sites in and immediately adjacent to Nevada during water year 1982, and compares those data with the longer term records for each site (new record maximums and minimums are indicated by italics). With few exceptions, the comparisons show no important new extremes in 1982 compared with prior periods of record. For the Quinn River near McDermitt (10353500), new record highs and lows are not of great significance because of the relatively short period of water-quality record (less than 5½ years) at that site.

Ground Water

A wetter-than-normal winter throughout most of Nevada did not significantly lessen the demands on ground-water systems in the State. Agricultural areas continue to rely on ground-water supplies for irrigation. An upturn in mining activities in some areas of the State has led to an increase in competition for the existing water resources. Most areas that have experienced ground-water problems in the past continue to experience such problems.

In April 1982, an intensive effort was made to measure ground-water levels in valleys tributary to the Humboldt River. The data for Paradise Valley verified the continuing problem of water-level declines there. Other areas in the Humboldt Basin showing significantly deeper water levels caused by agricultural pumping are Antelope Valley, the middle Reese River Valley, and the upper Reese River Valley.

Elsewhere in the State, water levels in Diamond Valley continue to decline as a result of heavy pumping for irrigation.

Maximums and minimums determined for current year (upper numbers ^a) and for prior period of record (lower numbers, in parentheses)										
Station name and number	Discharge (cubic feet per second)		Specific conductance (microhmhos)		Water temperature (degrees Celsius)		Fecal streptococci (colonies per 100 mL)		Suspended sediment (milligrams per liter)	
	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums
Virgin R at Littlefield 09415000	1,520 (35,200)	68 (38)	3,640 (4,650)	1,060 (585)	32.0 (33.5)	8.0 (2.0)	-- (46,000)	-- (110)	-- (247,000)	-- (40)
Virgin R nr Riverside 09415230	1,400 (16,000)	12 (0)	4,460 (5,260)	1,410 (900)	36.5 (35.5)	6.0 (3.5)	41,000 (15,000)	570 (100)	12,000 (11,700)	1,910 (166)
Muddy R nr Overton 09419515	44 (5,110)	1.0 (0.32)	4,560 (4,120)	3,110 (1,880)	24.0 (28.0)	10.5 (7.0)	86,000 (6,800)	770 (500)	382 (1,520)	148 (121)
Las Vegas Wash nr Henderson 09419700	282 (6,510)	73 (4.8)	2,710 (6,960)	2,060 (1,660)	24.0 (28.0)	11.5 (2.0)	-- --	-- --	38 b(347)	2 (3)
Las Vegas Wash nr Boulder City 09419800	346 (2,430)	76 (14)	3,870 (9,120)	1,780 (2,080)	28.5 (28.5)	7.5 (3.0)	12,000 (16,000)	1,000 (55)	6,070 (69,600)	207 (111)
Colorado R blw Hoover Dam 09421500	23,200 (36,000)	1,390 (152)	1,120 (1,230)	1,000 (1,000)	16.0 (18.5)	10.5 (9.0)	23 (45)	<2 (<1)	24 (6)	<1 (<1)
Colorado R blw Davis Dam 09423000	21,200 (31,200)	2,200 (285)	1,100 (1,290)	1,060 (900)	21.0 (21.5)	10.0 (8.0)	-- --	-- --	-- --	-- --
Steptoe Ck nr Ely 10244950	28 (37)	3.0 (2.0)	353 (403)	318 (218)	9.5 (11.0)	3.5 (2.5)	170 (1,400)	46 (<1)	92 (810)	3 (3)
S Twin R nr Round Mtn. 10249300	29 (128)	1.1 (0.11)	138 (158)	82 (75)	17.0 (18.0)	0.0 (0.0)	120 (1,500)	6 (<2)	36 (1,970)	2 (<1)
Chiatovich Ck nr Dyer 10249900	20 (527)	5.9 (1.0)	57 (32)	49 (48)	14.5 (36.5)	3.0 (0.0)	280 (600)	150 (2)	44 (195)	21 (13)
Walker R nr Wabuska 10301500	2,050 (3,280)	13 (0)	570 (792)	165 (183)	21.0 (36.5)	0.5 (0.0)	2,100 (1,700)	120 (16)	375 (1,720)	17 (10)
Carson R nr Fort Churchill 10312000	5,060 (15,300)	0.05 (0)	668 (840)	94 (31)	21.0 (29.0)	0.0 (0.0)	350 (36,000)	60 (4)	372 (1,950)	10 (4)
Humboldt R nr Carlin 10321000	1,790 (5,160)	11 (0.1)	674 (677)	193 (209)	25.5 (29.0)	0.5 (0.0)	440 (830)	83 (9)	412 (862)	21 (17)
Humboldt R nr Imlay 10333000	1,160 (6,080)	4.9 (0)	841 (900)	507 (377)	22.5 (30.5)	1.0 (0.0)	-- --	-- --	717 (2,200)	27 (3)
Humboldt R nr Rye Patch 10335000	929 (4,420)	0.30 (0)	1,160 (4,010)	683 (384)	19.5 (29.5)	8.0 (0.0)	1,100 (2,400)	62 (<2)	136 (107)	19 (14)
Truckee R nr Nixon 10351700	5,510 (14,400)	37 (3.1)	785 (1,110)	88 (96)	28.5 (28.5)	0.5 (0.0)	770 (5,300)	110 (2)	149 (2,530)	7 (2)
Quinn R nr McDermitt 10353500	1,210 (1,580)	0.27 (0)	895 (832)	253 (313)	27.0 (31.0)	0.0 (0.0)	3,700 (3,000)	9 (10)	75 (476)	7 (2)

^a Maximums or minimums for the current year that are, respectively, greater than or less than those for the prior period of record are indicated by italics. 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.

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 ($\mu\text{g/g}$) 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 ($\mu\text{g/L}$, 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 particular place.

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

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

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

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

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

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

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

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

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of type, number, mass, or volume.

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 stage 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. 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 1980 began October 1, 1979, and ended September 30, 1980.

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 unstream 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 gauging 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 06CCA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCA2.

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

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 all reservoirs having records.

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

Accuracy of Field Data and Computed Results

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 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-PID) or by fixed-endpoint titration in the laboratory (FET-LAB).

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

Water-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

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

Water Temperature

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

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

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

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

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

Publications

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

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

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

EXPLANATION OF DATA ON GROUND-WATER LEVELS

Collection of Data

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

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

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

The accuracy of water levels depends on several factors. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot.

Publications

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

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

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

WATER-RELATED REPORTS FOR NEVADA COMPLETED BY THE GEOLOGICAL SURVEY DURING 1982

- Amargosa Desert area, Nye Co.: "Paleoclimates of the Amargosa Basin, Nevada-California," by D. L. Hoover, R. L. Hay, and J. W. Hillhouse; Geological Society of America, Abstracts with Programs, v. 14, no. 4, p. 173.
- Amargosa Desert area, Nye Co.: "Testing bromide as a surrogate for tritium in tracing ground-water movement through a dolomitic aquifer," by D. I. Leap; Geological Society of America, Abstracts with Programs, v. 14, no. 7, p. 543.
- Carson Desert, Churchill Co.: "Hydrogeology of the Stillwater geothermal area, Churchill County, Nevada," by D. S. Morgan; U.S. Geological Survey Open-File Report 82-345, 95 p.
- Fallon area, Churchill Co.: "Geohydrology of the basalt and unconsolidated sedimentary aquifers in the Fallon area, Churchill County, Nevada," by P. A. Glancy; Geological Society of America Abstracts with Programs, v. 14, no. 6, p. 312.
- Frenchman Flat, southern Nevada: "Mineralogy of fine grained alluvium from borehole Ullg, Expl. 1, northern Frenchman Flat area, Nevada Test Site," by B. F. Jones; U.S. Geological Survey Open-File Report 82-765, 10 p.
- Goldfield area, Esmeralda Co.: "Historic mining camps of Nevada--Goldfield," by H. S. Shamberger; Nevada Historical Press, 240 p.
- Lake Mead area, Clark Co.: "Geohydrologic reconnaissance of Lake Mead National Recreation Area--Las Vegas Wash to Ogal Mountain, Nevada," by R. L. Lanev; U.S. Geological Survey Open-File Report 82-115, 27 p.
- Las Vegas Valley, Clark Co.: "Proposed monitoring network for ground-water quality, Las Vegas Valley, Nevada," by A. S. Van Denburgh, H. R. Seitz, T. J. Durbin, and J. R. Harrill; U.S. Geological Survey Open-File Report 80-1286, 25 p.
- Lemmon Valley, Washoe Co.: "Geophysical reconnaissance of Lemmon Valley, Nevada," by D. H. Schaefer; EOS, v. 62, no. 45, p. 862-863.
- Nevada Test Site, southern Nevada: "Hydrologic implications of preliminary heat-flow data from the Nevada Test Site," by J. H. Sass; EOS, v. 63, no. 45, p. 1099.
- Nevada Test Site, southern Nevada: "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"; Butterworth Publishing Co., p. 289-335.
- Nevada Test Site, southern Nevada: "Hydrology," by W. E. Wilson; in "U.S. Geological Survey research in radioactive waste disposal--fiscal year 1980"; U.S. Geological Survey Open-File Report 82-509, p. 15-17.

Nevada Test Site, southern Nevada: "U.S. Geological Survey investigations of volcanic rocks at the Nevada Test Site for disposal of nuclear waste," by W. E. Wilson, G. L. Dixon, and V. M. Glanzman; Geological Society of America, Abstracts with Programs, v. 14, no. 6, p. 354.

North-central Nevada: "Hydrology and geochemistry of thermal ground water in southwestern Idaho and north-central Nevada," by H. W. Young and R. E. Lewis; U.S. Geological Survey Professional Paper 1044-J, 20 p.

Pahrump Valley, southern Nevada: "Ground-water storage depletion in Pahrump Valley, Nevada-California, 1962-75," by J. R. Harrill; U.S. Geological Survey Open-File Report 81-635, 75 p.

Pyramid Lake, Washoe Co.: "Approximate relationships between river inflows and the lake level and dissolved-solids concentration of Pyramid Lake, Washoe County, Nevada," by L. H. Smith; U.S. Geological Survey Open-File Report 82-80, 5 p.

Weed Heights area, Lyon Co.: "Ground-water quality downgradient from copper-ore milling wastes at Weed Heights, Lyon County, Nevada," by H. R. Seitz, A. S. Van Denburgh, and R. J. La Camera; U.S. Geological Survey Open-File Report 80-1217, 48 p.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The Geological Survey has published a group of manuals in the series describing techniques for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is concerned with surface water. Each chapter within a section is limited to a narrow field of subject matter, permitting flexibility in revision and publication. Most of the reports listed below are for sale by the U.S. Geological Survey, Eastern Distribution Branch, Text Products Section, 604 S. Pickett St., Alexandria, VA 22304. Current prices may be obtained by telephone: (703) 756-6141. 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-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-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. Greenson and others, editors: Book 5, Chapter A4. 1977. 322 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by Linda C. Friedman and David E. Erdmann: Book 5, Chapter A6. 1983. 312 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. 68 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 and microbiological, (t) water temperature, (s) sediment, (x) supplemental water-quality data listed separately]

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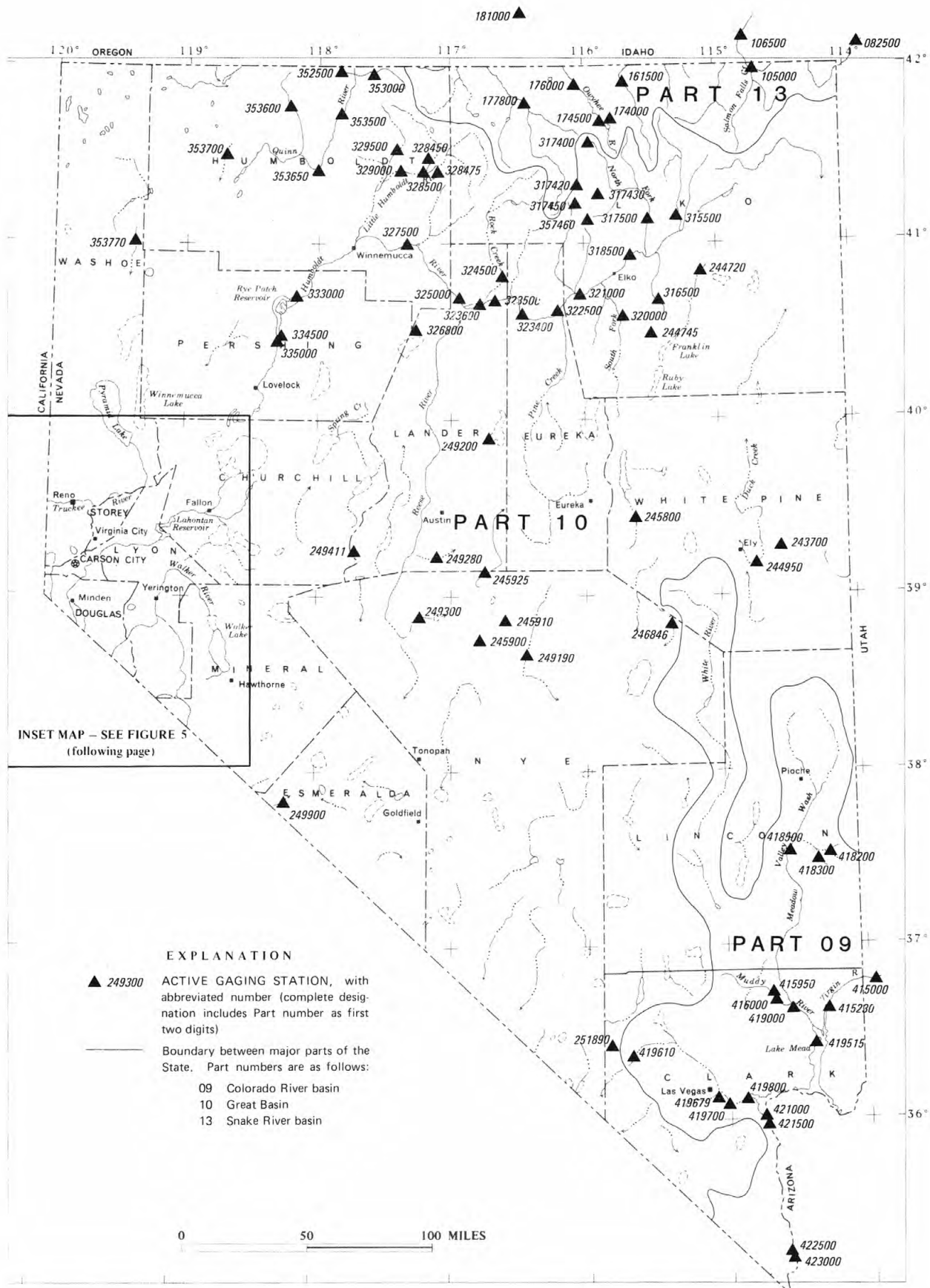


FIGURE 4.—Gaging stations listed in this report.

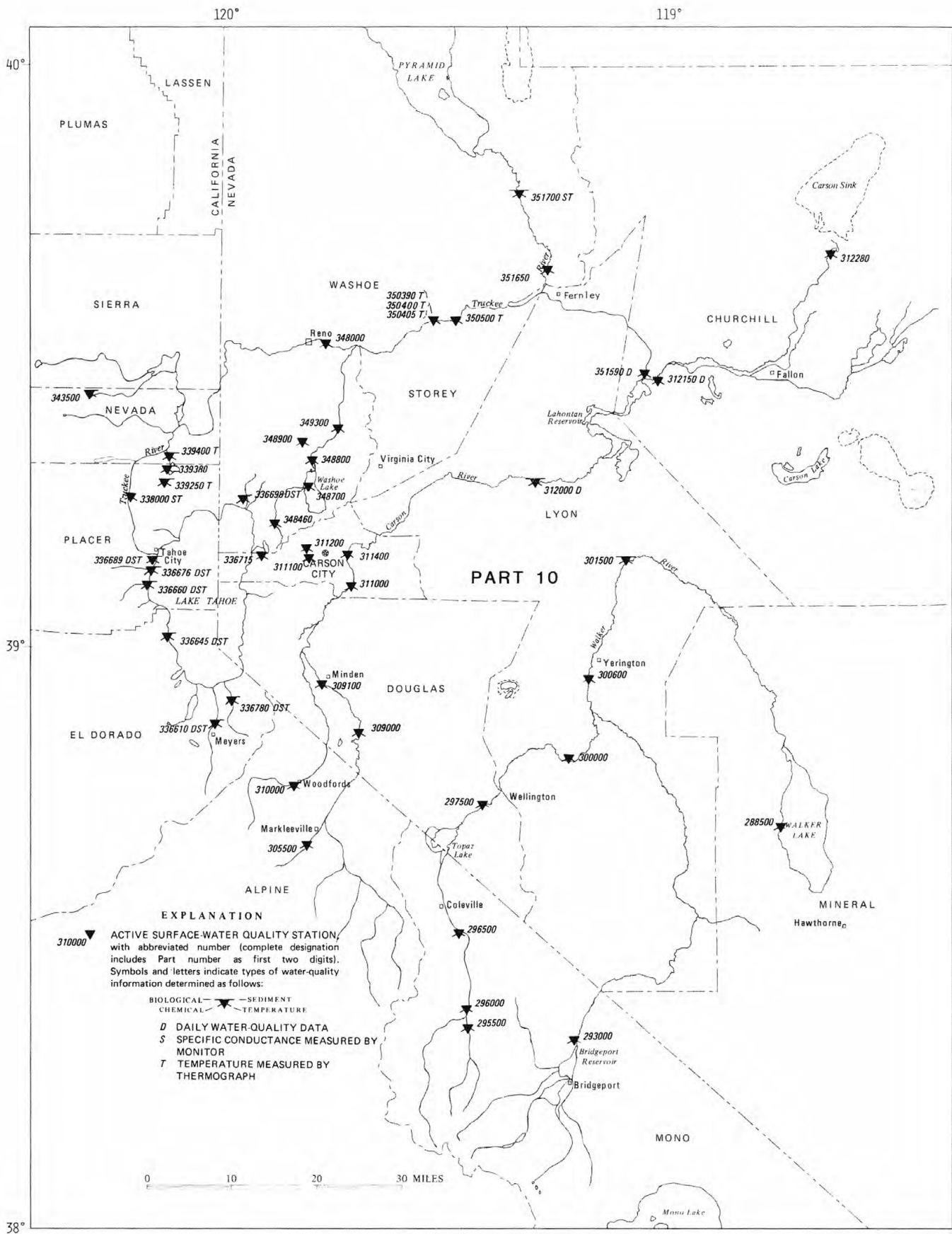


FIGURE 7.—Surface-water quality stations in west-central Nevada.

GAGING-STATION RECORDS

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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 (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from waterline of Lake Mead at altitude 1,221 ft (372.2 m) National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,090 mi² (13,200 km²), 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 (537.570 m) National Geodetic Vertical Datum of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft (91 m) upstream, and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at same site at datum 2.00 ft (0.610 m) 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 (91 m) upstream at same datum.

REMARKS.--Records fair. Diversion above station for irrigation of about 23,200 acres (93.9 km²).

AVERAGE DISCHARGE.--53 years, 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,840 ft³/s (137 m³/s) Sept. 27 (1300 hrs.), gage height, 8.69 ft (2.649 m); no other peak above base of 3,000 ft³/s (85 m³/s); minimum daily, 68 ft³/s (1.93 m³/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	175	199	214	229	222	344	606	136	80	99	89
2	93	179	185	237	225	241	344	691	136	80	275	80
3	1170	182	192	222	225	262	320	727	132	80	1190	87
4	292	192	182	210	225	249	288	766	122	80	225	89
5	192	192	199	218	225	241	297	844	110	80	145	128
6	159	192	203	253	210	222	274	559	100	80	125	120
7	147	253	207	237	210	207	245	471	104	85	117	94
8	136	253	214	214	218	210	233	465	108	82	122	104
9	136	214	203	203	225	225	214	453	104	80	128	96
10	127	192	218	222	233	225	189	424	90	106	120	106
11	127	185	218	237	274	218	210	380	80	85	128	114
12	162	185	207	237	257	811	298	354	74	80	207	122
13	179	196	199	237	253	533	386	306	72	80	251	125
14	159	192	203	222	257	360	380	297	80	80	200	117
15	141	169	199	222	270	520	402	301	76	78	145	117
16	147	172	196	222	262	656	397	301	68	78	120	114
17	159	159	192	225	279	407	391	270	87	78	120	106
18	156	166	196	233	279	396	365	262	89	74	122	106
19	159	175	179	233	279	396	386	311	92	76	133	101
20	147	175	172	233	266	360	360	301	120	76	133	99
21	136	175	182	266	270	349	349	275	114	74	112	96
22	136	182	185	253	262	325	306	229	99	103	101	96
23	141	179	185	225	257	325	283	214	92	96	151	87
24	144	182	179	225	257	330	274	203	87	89	1040	89
25	141	172	185	229	266	335	325	189	104	101	381	106
26	153	179	196	245	245	335	411	173	89	109	339	106
27	159	182	199	253	225	599	474	166	80	233	367	1520
28	159	182	203	253	214	441	579	154	80	148	232	889
29	159	196	199	249	---	391	644	139	80	142	183	330
30	189	203	207	253	---	407	663	142	80	145	114	247
31	189	---	210	229	---	360	---	136	---	104	106	---
TOTAL	5782	5630	6093	7211	6897	11158	10631	11109	2885	2967	7231	5680
MEAN	187	188	197	233	246	360	354	358	96.2	95.7	233	189
MAX	1170	253	218	266	279	811	663	844	136	233	1190	1520
MIN	88	159	172	203	210	207	189	136	68	74	99	80
AC-FT	11470	11170	12090	14300	13680	22130	21090	22030	5720	5890	14340	11270

CAL YR 1981 TOTAL 76456 MEAN 209 MAX 1400 MIN 72 AC-FT 151700
WTR YR 1982 TOTAL 83274 MEAN 228 MAX 1520 MIN 68 AC-FT 165200

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 homogenous chemically from bank to bank. Flow adjacent to north bank is generally somewhat more dilute than average; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of stream-wide average (range of discharge, 60-230 ft³/s). This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975 was due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geological Survey, Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,650 micromhos Aug. 21, 1966; minimum, 685 micromhos May 12, 1973.

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, 3,640 micromhos Aug. 2; minimum, 1,060 micromhos May 4.

WATER TEMPERATURES: Maximum, 32.0°C July 31; minimum, 8.0°C Jan. 7, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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 29...	1015	164	3040	8.0	18.5	8.0	92	1100	300	93	290
NOV 24...	1215	180	2920	8.0	15.0	9.2	98	1000	270	86	240
DEC 30...	1015	202	2810	8.0	12.0	9.6	95	1000	270	88	250
JAN 28...	0915	253	2540	8.0	12.0	10.0	99	900	240	73	220
FEB 25...	1015	276	2250	8.0	14.5	9.2	96	820	220	66	200
MAR 26...	1000	330	2100	8.1	15.0	9.5	101	730	194	60	170
APR 28...	1115	430	1500	8.1	18.5	8.3	94	530	146	40	120
MAY 26...	0900	174	2510	8.2	21.5	8.0	98	890	240	71	220
JUN 25...	0715	82	3380	7.8	21.0	7.7	92	1400	360	120	260
JUL 29...	0845	160	3590	7.9	24.5	6.8	87	1400	420	89	300
AUG 27...	1015	355	2840	--	24.5	7.2	92	1500	530	48	120
SEP 29...	1045	348	2090	7.8	17.0	9.1	102	900	280	49	150

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WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	18.0	13.0	13.0	12.5	17.0	17.0	21.5	25.0	26.0	27.0	26.0
2	24.0	19.0	14.0	12.0	13.0	17.0	17.0	20.0	25.0	27.0	27.0	28.0
3	19.0	19.0	14.0	12.0	13.5	18.0	18.0	22.0	26.0	26.0	25.0	29.0
4	20.0	19.0	15.0	12.0	13.0	15.5	19.0	20.0	25.0	26.0	25.0	26.5
5	23.0	19.0	15.0	12.0	10.0	15.5	16.0	19.0	25.0	28.0	29.0	27.0
6	25.0	18.0	15.0	11.0	10.0	17.0	16.0	20.5	25.0	29.0	28.0	29.5
7	22.0	18.0	15.0	8.0	10.0	17.0	18.0	22.0	25.0	27.0	28.0	27.0
8	22.0	18.0	15.0	8.0	12.0	18.0	19.0	21.0	27.0	27.0	29.0	27.0
9	23.0	18.0	15.0	10.0	9.0	19.0	21.0	21.0	29.0	30.0	29.0	28.0
10	22.0	19.0	15.0	11.0	15.0	18.0	23.0	20.0	29.0	31.0	28.0	25.0
11	20.0	20.0	15.0	12.5	15.0	17.0	20.0	20.0	29.0	28.0	28.0	24.0
12	19.0	20.0	15.0	12.0	14.0	15.0	23.5	21.0	26.0	27.0	28.0	23.0
13	17.0	18.0	15.0	12.0	15.0	17.0	21.0	23.0	26.0	29.0	28.0	24.0
14	19.0	18.0	15.0	12.0	17.0	16.0	21.0	23.0	28.0	27.0	29.0	26.0
15	19.0	18.0	15.0	12.5	17.0	16.0	21.0	23.0	30.0	27.0	30.0	25.0
16	19.0	18.0	13.5	12.5	18.0	14.0	20.0	25.0	29.0	28.0	30.0	23.0
17	20.0	18.0	13.0	12.5	16.0	15.0	20.0	25.0	27.0	30.0	26.5	26.0
18	20.0	17.0	13.0	12.0	18.0	14.0	21.0	22.0	24.0	30.0	28.0	27.0
19	20.0	15.0	15.0	12.0	17.0	14.0	19.0	24.0	27.0	30.0	29.0	27.0
20	21.0	15.0	15.0	11.0	18.0	15.0	16.0	25.0	27.0	31.0	28.0	28.0
21	21.0	15.0	15.0	11.0	19.0	17.0	18.0	25.0	29.0	30.0	29.0	27.0
22	20.0	15.0	13.0	11.0	19.0	18.0	20.0	25.0	27.0	27.0	---	27.5
23	20.0	15.0	12.0	11.0	19.0	18.0	22.0	26.0	28.0	30.0	25.0	28.0
24	19.0	16.0	12.0	12.0	16.0	19.0	22.0	26.0	27.0	29.0	24.5	26.0
25	20.0	13.0	12.0	13.0	17.5	18.0	22.0	26.0	29.0	30.0	28.0	25.5
26	20.0	13.0	12.0	15.0	18.0	18.0	22.0	26.0	28.0	29.0	28.0	---
27	20.0	14.0	12.0	15.0	18.0	18.0	22.0	25.0	29.0	30.0	27.5	17.0
28	20.0	13.0	12.0	15.0	19.0	18.0	22.0	26.0	29.0	30.0	28.0	18.0
29	18.0	15.0	13.0	14.0	---	15.0	20.0	25.0	27.0	30.0	27.0	18.0
30	17.0	15.0	14.0	13.0	---	16.0	21.0	25.0	24.0	30.0	26.0	20.0
31	18.0	---	14.0	14.0	---	18.0	---	25.0	---	32.0	26.0	---
MEAN	20.5	17.0	14.0	12.0	15.5	16.5	20.0	23.0	27.0	28.5	27.5	25.5
MAX	25.0	20.0	15.0	15.0	19.0	19.0	23.5	26.0	30.0	32.0	30.0	29.5
MIN	17.0	13.0	12.0	8.0	9.0	14.0	16.0	19.0	24.0	26.0	24.5	17.0
WTR YR 1982	MEAN	20.5	MAX	32.0	MIN	8.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3290	2760	2490	2500	2530	2440	1920	1240	2820	3160	3120	3240
2	3180	2760	2640	2420	2530	2360	1920	1140	2860	3120	3640	3240
3	2840	2840	2640	2550	2550	2160	2020	1140	2860	3120	3120	3150
4	3010	2760	2640	2550	2550	2280	2120	1060	3040	3120	3120	3240
5	2970	2890	2640	2520	2500	2260	1960	1140	3190	3160	3330	3240
6	2970	2890	2540	2380	2590	2600	2180	1390	3140	3160	3330	3190
7	3010	2420	2560	2420	2700	2480	2240	1570	2940	3160	3330	3190
8	3100	2380	2560	2380	2490	2440	2490	1570	2940	3160	3330	3100
9	3180	2590	2560	2420	2460	2440	2570	1630	2940	3260	3430	3100
10	3100	2670	2560	2570	2330	2440	2570	1550	3140	3360	3330	3190
11	3180	2760	2560	2670	2330	2440	2530	1710	3040	3160	3430	3280
12	2970	2670	2560	2670	2380	2320	2490	1760	3140	3260	3430	3060
13	2720	2670	2560	2500	2500	1760	1790	1920	3140	3160	3430	3150
14	2840	2670	2560	2480	2480	2080	1830	2000	3140	3160	2750	2990
15	2930	2760	2560	2480	2420	1880	1750	2080	3140	3260	2950	3150
16	2930	2760	2580	2500	2460	1400	1750	1920	3040	3260	3220	3100
17	2840	2800	2640	2590	2330	1840	1730	2000	3140	3220	3220	3100
18	2720	2670	2640	2630	2290	1960	1870	1920	3140	3160	3330	3150
19	2800	2670	2730	2590	2330	1840	1790	1830	3040	3160	3430	3150
20	2800	2670	2690	2500	2380	1920	1730	1940	3140	3260	3430	3150
21	2930	2720	2640	2420	2380	2000	2040	2020	3140	3260	3330	3150
22	2970	2630	2600	2460	2380	2000	2040	2080	3140	3160	3330	3150
23	2970	2630	2690	2500	2290	2120	2040	2120	3230	3260	3120	3150
24	2890	2720	2690	2590	2290	2000	2160	2160	3230	3160	2950	3150
25	2930	2720	2730	2500	2250	2040	2000	2300	3230	3260	2950	3190
26	2970	2720	2730	2460	2330	1960	1630	2450	3140	3060	2950	---
27	2930	2550	2600	2380	2420	1340	1530	2530	3040	3260	2950	2790
28	2930	2590	2560	2380	2550	1640	1350	2730	3230	3220	2540	1860
29	2930	2550	2640	2420	---	1800	1260	2750	3140	3220	2750	2300
30	2800	2460	2640	2460	---	1680	1220	2690	3140	3260	3000	2660
31	2630	---	2690	2420	---	1760	---	2810	---	3260	3220	---
MEAN	2940	2680	2620	2490	2430	2050	1950	1910	3090	3200	3190	3050
MAX	3290	2890	2730	2670	2700	2600	2570	2810	3230	3360	3640	3280
MIN	2630	2380	2490	2380	2250	1340	1220	1060	2820	3060	2540	1860
WTR YR 1982	MEAN	2630	MAX	3640	MIN	1060						

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 (2.1 km) upstream from Halfway Wash, 6.1 mi (9.8 km) southeast of Riverside, and 7.5 mi (12.1 km) upstream from waterline of Lake Mead, at altitude 1,221 ft (372.2 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,980 mi² (15,490 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map. Prior to Sept. 27, 1979, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records poor, no gage height record Dec. 5 to Jan. 27, Feb. 7-12, Mar. 12 to May 6, and Sept. 27-29.

AVERAGE DISCHARGE.--5 years, 317 ft³/s (8.977 m³/s), 229,700 acre-ft/yr (283 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 16,000 ft³/s (453 m³/s) Mar. 5, 1978, gage height 6.60 ft (2.012 m), maximum gage height 7.19 ft (2.192 m) Sept. 27, 1982; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 4,500 ft³/s (127 m³/s) Sept. 27, gage height, 7.19 ft (2.192 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	208	224	210	241	320	360	580	54	29	43	45
2	90	216	142	220	250	320	340	670	49	31	144	30
3	1200	269	131	220	250	320	330	700	59	33	1200	24
4	350	299	166	210	224	299	300	620	59	34	216	12
5	230	269	170	220	232	310	290	650	20	33	90	20
6	190	216	170	230	250	310	270	500	45	32	61	80
7	170	224	170	230	260	310	250	400	51	31	28	64
8	160	216	170	225	260	299	240	279	47	31	18	29
9	150	179	170	220	265	269	230	342	54	30	16	34
10	130	193	180	220	275	269	210	400	26	29	17	59
11	125	250	180	230	290	259	220	376	34	29	16	64
12	150	179	180	230	280	800	320	353	16	28	67	83
13	160	200	180	220	279	500	390	376	18	26	224	67
14	150	279	180	220	269	370	410	331	17	25	179	80
15	140	259	190	220	279	540	400	331	16	24	166	80
16	155	172	190	220	259	660	390	320	16	23	94	102
17	160	166	190	220	269	420	390	269	14	21	41	59
18	160	179	190	230	331	410	380	279	20	20	41	51
19	160	208	190	230	331	390	390	331	43	19	64	67
20	150	172	200	230	331	370	370	388	30	17	61	64
21	140	172	200	240	300	350	350	216	29	16	87	41
22	140	193	200	250	280	340	320	186	25	15	61	34
23	145	172	200	240	270	335	300	159	21	43	61	41
24	150	172	200	230	260	330	280	159	17	56	1000	35
25	155	159	210	230	250	330	325	111	32	16	300	35
26	165	166	210	240	250	330	440	126	16	26	275	59
27	170	153	210	240	270	600	470	70	16	157	357	1400
28	175	193	210	224	320	450	580	94	19	80	131	800
29	185	216	210	208	---	400	640	49	22	98	131	500
30	193	193	220	232	---	420	650	37	24	102	83	376
31	200	---	220	241	---	370	---	61	---	98	45	---
TOTAL	6049	6142	5853	7030	7625	12000	10835	9763	909	1252	5317	4435
MEAN	195	205	189	227	272	387	361	315	30.3	40.4	172	148
MAX	1200	299	224	250	331	800	650	700	59	157	1200	1400
MIN	51	153	131	208	224	259	210	37	14	15	16	12
AC-FT	12000	12180	11610	13940	15120	23800	21490	19360	1800	2480	10550	8800
CAL YR 1981	TOTAL	71293.20	MEAN	195	MAX	1500	MIN	.00	AC-FT	141400		
WTR YR 1982	TOTAL	77210.00	MEAN	212	MAX	1400	MIN	12	AC-FT	153100		

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 DATA, 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.

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. Daily specific-conductance and temperature data were collected approximately 5 mi (8 km) upstream, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.14 S., R.69 E.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 5,260 micromhos Sept. 16, 1978; minimum, 900 micromhos May 24, 1979.

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.

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

SPECIFIC CONDUCTANCES: Maximum, 4,460 micromhos Aug. 9, 11; minimum, 1,410 micromhos May '3.

WATER TEMPERATURES: Maximum, 36.5°C July 31; minimum, 6.0°C Jan. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DEMAND, CHEM- (PER- CENT SATUR- ATION) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV										
24...	1430	207	3040	8.2	14.5	250	9.2	96	97	K280 570
JAN										
28...	1200	271	2680	8.3	12.5	160	11.2	111	--	K81 2000
MAR										
26...	1300	319	--	8.2	16.0	250	9.4	100	44	K120 10000
MAY										
26...	1145	182	2660	8.2	26.0	140	7.4	97	22	140 1500
JUL										
29...	1115	110	3710	8.0	32.0	--	6.1	88	390	4000 K41000
SEP										
29...	1330	397	--	8.0	18.0	870	8.9	100	260	8400 14000

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 1981 TO SEPTEMBER 1982

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 24...	1000	250	96	270	3.7	23	190	900	400	.7	19
JAN 28...	940	240	83	240	3.4	21	240	740	360	.7	19
MAR 26...	860	210	82	220	3.3	17	140	690	300	.6	18
MAY 26...	900	220	85	250	3.6	20	171	790	360	.7	19
JUL 29...	1500	440	100	280	3.1	26	122	1500	380	.8	20
SEP 29...	950	300	49	140	2.0	14	151	870	180	.5	--

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)	ARSENIC TOTAL (UG/L AS AS)
NOV 24...	2140	2070	1200	.63	.170	.78	.280	.040	.040	12
JAN 28...	1860	1850	1360	.71	.180	.64	.060	.010	.030	--
MAR 26...	1670	1620	1440	.58	.130	1.10	.470	.010	.030	12
MAY 26...	1910	1850	939	.37	.130	.90	.090	.050	.010	9
JUL 29...	--	2820	930	.62	.360	3.60	.420	.020	.040	--
SEP 29...	1710	--	1830	.40	.150	11.0	.590	.010	.020	18

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
NOV 24...	6	200	100	1	1	20	10	5	1	18
JAN 28...	--	--	--	--	--	--	--	--	--	--
MAR 26...	6	200	100	3	1	20	10	10	1	27
MAY 26...	5	200	100	1	1	10	10	2	1	13
JUL 29...	--	--	--	--	--	--	--	--	--	--
SEP 29...	2	1300	200	1	1	110	10	100	1	180

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
NOV 24...	4	10000	200	7	2	510	20	.4	.1	11
JAN 28...	--	--	--	--	--	--	--	--	--	--
MAR 26...	2	16000	180	4	1	800	30	.4	.2	23
MAY 26...	2	5500	40	4	1	410	10	6.5	6.0	7
JUL 29...	--	--	--	--	--	--	--	--	--	--
SEP 29...	1	100000	40	110	14	4500	40	.5	.3	140

VIRGIN RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	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 24...	<1	1	1	<1	<1	60	10	2920	1630	41
JAN 28...	--	--	--	--	--	--	--	2190	1600	37
MAR 26...	7	1	1	<1	<1	80	10	4050	3490	37
MAY 26...	<1	1	1	1	<1	40	30	1910	939	35
JUL 29...	--	--	--	--	--	--	--	12000	3560	94
SEP 29...	<1	14	1	1	<1	530	10	12000	12900	91

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	16.0	12.5	9.5	13.0	16.0	18.0	26.0	26.5	---	27.5	31.5
2	21.0	17.0	13.0	9.5	12.5	17.0	18.5	21.5	25.0	---	28.0	30.0
3	19.0	17.0	13.0	10.0	13.5	18.0	19.0	24.5	26.0	---	26.0	26.5
4	23.0	18.5	14.0	8.0	13.0	17.5	19.5	---	23.0	---	27.5	28.0
5	24.5	19.5	14.0	9.5	13.5	17.0	16.5	21.5	24.0	---	29.0	29.5
6	25.0	19.0	14.5	7.5	9.5	17.5	14.0	25.0	25.0	---	30.0	27.5
7	23.0	18.5	15.5	6.0	8.5	17.0	10.5	23.5	24.5	---	34.0	25.5
8	21.0	18.0	14.5	7.5	11.5	17.5	15.0	21.5	28.0	---	32.0	19.5
9	20.5	20.0	13.5	9.5	9.5	19.5	20.0	20.0	27.0	29.0	30.0	26.0
10	19.0	18.0	13.5	9.5	9.5	18.0	18.0	19.5	30.0	30.0	29.0	27.0
11	16.5	19.0	14.5	8.0	13.0	15.5	17.5	23.0	28.0	31.0	27.0	24.5
12	19.0	18.5	12.5	9.0	14.5	17.0	22.5	23.5	21.0	29.5	28.0	23.0
13	18.0	19.5	13.0	11.0	16.0	19.0	23.0	24.0	25.0	---	29.0	24.5
14	19.0	18.5	14.0	11.5	17.0	16.0	21.5	25.0	30.5	---	28.0	23.5
15	16.0	19.0	13.0	12.0	17.5	15.5	20.0	25.5	31.5	---	30.5	22.0
16	18.0	18.0	13.0	11.0	19.0	13.0	23.0	27.5	---	---	31.0	23.0
17	20.5	16.0	13.5	12.5	18.0	13.5	23.5	26.0	27.5	---	---	24.0
18	21.0	15.5	12.0	11.0	16.0	13.0	23.5	21.0	21.0	---	---	24.5
19	22.5	16.0	13.0	9.5	20.0	15.0	21.0	28.5	28.0	---	34.0	24.0
20	20.0	15.0	12.5	9.0	21.0	17.5	21.0	29.0	30.0	---	30.0	23.0
21	19.0	14.5	11.5	10.0	20.0	15.0	20.0	27.0	28.0	---	31.0	24.5
22	20.0	13.5	11.0	10.5	18.0	16.0	20.0	28.0	27.5	33.0	27.0	25.0
23	21.0	15.5	10.0	10.5	17.0	15.5	23.0	26.0	28.0	32.5	26.0	26.0
24	19.0	14.0	10.5	12.0	16.0	16.0	22.0	30.5	25.5	31.5	25.5	25.5
25	19.5	13.0	9.5	13.0	18.5	17.5	24.0	31.0	---	28.5	24.5	24.0
26	19.0	12.5	9.5	14.5	18.0	17.5	24.0	29.0	---	29.0	27.5	23.5
27	17.5	13.5	11.0	13.0	18.0	18.0	25.0	26.5	---	31.5	28.0	21.0
28	16.5	10.5	10.0	12.0	18.5	17.0	26.0	26.0	---	33.0	26.0	20.0
29	16.0	11.5	10.5	12.5	---	16.5	25.5	24.0	---	34.5	27.5	19.0
30	15.5	13.0	11.0	13.0	---	16.0	24.0	31.0	---	35.0	25.0	17.5
31	16.5	---	9.0	13.5	---	16.5	---	26.0	---	36.5	26.5	---
MEAN	19.5	16.5	12.5	10.5	15.5	16.5	20.5	25.5	26.5	32.0	28.5	24.5
MAX	25.0	20.0	15.5	14.5	21.0	19.5	26.0	31.0	31.5	36.5	34.0	31.5
MIN	15.5	10.5	9.0	6.0	8.5	13.0	10.5	19.5	21.0	28.5	24.5	17.5
WTR YR 1982 MEAN	20.0		MAX	36.5		MIN	6.0					

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3610	2890	2790	2800	2610	2140	1960	1530	3370	---	3820	3400
2	3670	2970	2790	2800	2610	2390	2040	1490	3470	---	3710	3850
3	3100	2970	2880	2720	2720	2550	2240	1410	3470	---	3180	4080
4	3140	3100	2880	2720	2670	2630	2160	---	3560	---	3290	4300
5	3180	3010	2880	2800	2630	2720	2280	1530	3860	---	4030	3970
6	3290	3010	2880	2630	2670	2680	2280	1550	3560	---	3500	3630
7	3400	2890	2840	2720	2800	2800	2490	1710	3560	---	4030	3630
8	---	2550	2840	2720	2800	2800	2770	1760	3760	---	4140	3630
9	3610	2670	2880	2890	2720	2800	2770	1710	3660	4240	4460	3850
10	3710	2890	2750	2890	2630	2720	2850	1630	3660	4240	3710	3970
11	3820	2970	2840	2760	2720	2060	2980	1830	3860	4240	4460	3970
12	3610	3010	2840	2720	2550	1810	2810	1920	3960	4240	3710	3740
13	2970	3010	2790	2630	2670	1810	2040	2000	3860	---	3500	3630
14	3100	3010	2840	2760	2670	2300	2000	2200	3860	---	3400	3630
15	3180	3010	2840	2840	2670	2430	2000	2240	---	---	3010	3630
16	3250	3010	2920	2800	2670	1540	1960	2120	3960	---	3820	3740
17	3180	3010	2880	2800	2610	1930	1960	2240	3960	---	3930	3740
18	3010	3010	2880	2760	2500	2260	2040	2080	3960	---	4030	3850
19	3010	3100	2970	2760	2590	2180	1920	2000	3660	---	3710	3740
20	3290	3010	2970	2670	2670	2260	1830	2080	3760	---	3820	4080
21	3140	3010	3010	2590	2630	2060	1960	2160	3760	---	3820	3850
22	3290	2930	2880	2670	2670	2390	2040	2200	3960	3330	3400	3970
23	3290	2840	2880	2720	2590	2370	2200	2280	4060	3230	3930	3850
24	3250	2840	2790	2760	2590	2370	2280	2320	4160	3730	2760	3850
25	3140	2970	2880	2720	2550	2370	2280	2890	---	4340	2720	3850
26	3180	2970	2880	2720	2670	2300	1870	3160	---	2580	2760	2950
27	3180	2890	2880	2590	2670	1930	1870	2610	---	2500	2930	3310
28	3180	2890	2840	2590	2670	1730	1710	2890	---	3530	2930	2400
29	3180	2840	2790	2590	---	1980	1610	3060	---	3630	3060	2760
30	3180	2840	2840	2590	---	---	1510	3160	---	3630	3400	2760
31	2970	---	2920	2670	---	2060	---	3260	---	3630	3400	---
MEAN	3270	2940	2860	2720	2650	2280	2160	2170	3770	3650	3560	3650
MAX	3820	3100	3010	2890	2800	2800	2980	3260	4160	4340	4460	4300
MIN	2970	2550	2750	2590	2500	1540	1510	1410	3370	2500	2720	2400
WTR YR 1982 MEAN	2930		MAX	4460		MIN	1410					

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 (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash.

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 (0.37 m³/s) Nov. 10, 1981 and March 24, 1980; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 10 ft³/s (0.28 m³/s) Nov. 9; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

1981	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	139.0	127.8	189.8	155.9	142.1	156.2	128.5	89.4	69.9	79.6	65.99	43.3
MEAN	4.48	4.26	6.12	5.03	5.08	5.04	4.28	2.88	2.33	2.57	2.13	1.44
MAX	9.9	10	9.0	7.7	8.3	7.2	8.6	8.77	3.3	5.2	2.7	3.6
MIN	2.4	2.1	3.8	.00	1.8	2.5	.00	1.2	1.8	.70	.00	.00
AC-FT	276	253	376	3.09	282	310	255	177	139	158	131	86
CAL YR	1981	TOTAL	1379.00	MEAN	3.78	MAX 10	MIN .00	AC-FT	2,740			
WTR YR	1982	TOTAL	1387.49	MEAN	3.80	MAX 10	MIN .00	AC-FT	2,750			

VIRGIN RIVER BASIN

41

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 (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, 9.5 mi (15.3 km) upstream from Meadow Valley Wash, and 26 mi (42 km) upstream from highwater line of Lake Mead at altitude 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

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

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

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 (521 m), from river-profile map. October 21, 1944 to September 30, 1948, water-stage recorder at datum 0.08 ft (0.024 m) higher.

REMARKS.--Records good except those for period of no gage height record, Aug. 24 to Sept. 3, which are poor. Diversions for irrigation above station. Beginning Oct. 1, 1976, records do not include part-time diversion about 100 ft (30.5 m) upstream, for cooling of powerplant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi (1.4 to 4.0 km) upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s (144 m³/s) Sept. 7, 1967, gage height, 12.35 ft (3.764 m); minimum, 23 ft³/s (0.65 m³/s) Apr. 30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Aug. 24 (gage height unknown); minimum, 18 ft³/s (0.51 m³/s) April 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	38	38	45	48	40	37	35	42	32	34	35
2	36	38	35	47	48	38	37	35	40	31	34	34
3	36	37	36	47	45	37	41	35	40	29	34	33
4	36	37	37	46	44	36	38	35	41	32	34	34
5	36	36	40	46	43	36	38	34	40	33	32	34
6	36	36	41	46	41	36	40	34	41	33	32	34
7	36	32	42	48	40	40	40	35	41	33	33	35
8	36	34	43	47	41	36	38	35	40	42	33	34
9	36	32	43	47	41	37	37	37	40	36	32	33
10	37	34	43	47	42	37	37	37	40	34	32	32
11	37	37	43	46	42	34	37	37	40	34	32	34
12	32	35	40	47	40	34	35	34	38	34	34	34
13	32	35	42	46	40	34	32	31	35	33	34	34
14	36	37	42	45	40	36	32	33	35	32	35	33
15	38	35	43	45	40	35	32	36	35	32	35	34
16	37	39	43	45	39	32	31	36	35	34	34	35
17	35	39	43	46	37	32	30	36	34	32	34	36
18	34	39	43	46	37	36	30	35	34	31	34	36
19	36	40	42	47	38	35	30	35	36	28	33	36
20	36	37	43	47	38	35	32	32	39	27	33	37
21	34	39	43	48	39	35	34	32	38	28	33	36
22	35	40	43	46	38	35	37	33	35	32	34	37
23	37	40	44	47	37	35	34	35	34	33	34	37
24	38	41	45	45	36	35	34	36	36	33	130	37
25	38	39	46	45	36	35	39	36	35	33	35	37
26	38	40	45	46	35	36	37	36	35	33	32	38
27	38	40	45	45	35	36	35	37	35	32	29	38
28	38	40	46	45	39	36	34	40	35	31	32	37
29	38	39	45	45	---	36	35	41	34	32	47	39
30	38	40	45	47	---	36	34	43	33	32	81	40
31	38	---	45	49	---	36	---	42	---	34	52	---
TOTAL	1124	1125	1314	1434	1119	1107	1057	1108	1116	1005	1207	1063
MEAN	36.3	37.5	42.4	46.3	40.0	35.7	35.2	35.7	37.2	32.4	38.9	35.4
MAX	38	41	46	49	48	40	41	43	42	42	130	40
MIN	32	32	35	45	35	32	30	31	33	27	29	32
AC-FT	2230	2230	2610	2840	2220	2200	2100	2200	2210	1990	2390	2110

CAL YR 1981 TOTAL 13863 MEAN 38.0 MAX 82 MIN 28 AC-FT 27500
WTR YR 1982 TOTAL 13779 MEAN 37.8 MAX 130 MIN 27 AC-FT 27330

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 (4.0 km) upstream from mouth, and 17 mi (27 km) southeast of Caliente.

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft (1,648.694 m) 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 1 3.5-ft (1.07 m) diameter uncontrolled conduit through dam. Flow over dam spillway will bypass station.

AVERAGE DISCHARGE.--24 years, 0.725 ft³/s (0.0205 m³/s), 525 acre-ft/yr (647,300 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 206 ft³/s (5.83 m³/s) Dec. 29, 1965, gage height, 11.85 ft (3.615 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 88 ft³/s (2.49 m³/s) Mar. 26, gage height 9.50 ft (2.896 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.60
MEAN	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.020
MAX	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.60
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	1.2
CAL YR 1981	TOTAL	0.00	MEAN	.000	MAX	.00	MIN	.00	AC-FT	.00		
WTR YR 1982	TOTAL	93.45	MEAN	.26	MAX	45	MIN	.00	AC-FT	185		

VIRGIN RIVER BASIN

43

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 (30 m) downstream from outlet of flood-control dam, 4 mi (6 km) upstream from mouth, and 14 mi (23 km) southeast of Caliente.

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

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,595 ft (1,705.4) (by Corps of Engineers dams site 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 (1.07 m) diameter uncontrolled conduit through dam.

AVERAGE DISCHARGE.--24 years, 1.79 ft³/s (0.0507) m³/s, 1,300 acre-ft/yr (1.60 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 303 ft³/s (8.58 m³/s) Mar. 3, 1978, gage height, 4.12 ft (1.256 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft³/s (0.963 m³/s) Mar. 27, gage height 2.93 ft (0.893 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.9	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	24	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	25	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	18	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	3.2	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.12	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	72.22	.08	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	2.33	.003	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	25	.08	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	143	.2	.00	.00	.00	.00	.00

CAL YR 1981 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00
WTR YR 1982 TOTAL 72.30 MEAN .20 MAX 25 MIN .00 AC-FT 143

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 (0.8 km) east of Etna, 4.5 mi (7.2 km) southwest of Caliente, and 6 mi (10 km) downstream from Clover Creek.

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

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

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

REMARKS.--Records poor. Stage discharge relation indefinite most of year. 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.--26 years (1951-60, 1965-82), 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft³/s (68.0 m³/s) Mar. 5, 1978, gage height, 9.41 ft (2.868 m), from floodmarks; no flow July 26-28, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Aug. 12	1715	*1,320 37.4	9.54 2.908
Sept. 26	1915	375 10.6	6.92 2.109

Minimum daily discharge, 1.5 ft³/s (0.042 m³/s) July 28 to Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	3.9	7.7	12	9.4	8.4	5.5	3.4	1.9	1.5	1.6
2	2.0	2.5	3.8	8.2	10	9.4	8.3	5.4	3.3	1.9	1.5	1.6
3	2.0	2.5	3.7	4.5	10	9.4	8.2	5.4	3.2	1.9	1.5	1.6
4	2.0	2.5	3.6	5.3	10	9.5	8.1	5.4	3.1	1.9	1.5	1.6
5	2.0	2.5	3.5	5.3	7.2	9.5	8.0	5.3	3.0	1.8	1.5	1.6
6	2.0	2.5	3.4	5.3	7.2	9.5	7.9	5.2	2.9	1.8	1.5	1.6
7	2.0	3.4	3.3	5.5	6.7	9.5	7.8	5.2	2.9	1.8	1.5	1.6
8	2.0	4.1	3.2	5.5	6.2	9.6	7.7	5.2	2.8	1.8	1.5	1.6
9	2.0	4.1	3.1	5.5	5.3	9.6	7.6	5.1	2.8	1.8	1.5	1.6
10	2.0	4.1	3.1	5.5	8.7	9.6	7.5	5.1	2.7	1.8	1.5	1.6
11	2.9	3.4	4.5	5.5	12	9.6	7.4	5.0	2.6	1.8	1.6	1.6
12	3.0	3.8	4.5	6.0	12	9.7	7.3	4.9	2.5	1.7	97	1.6
13	2.8	4.1	4.5	6.0	13	9.7	7.2	4.9	2.5	1.7	44	1.6
14	2.5	3.8	4.9	6.0	16	9.7	7.1	4.8	2.4	1.7	20	1.6
15	2.5	3.8	4.9	6.0	23	9.7	7.0	4.8	2.3	1.7	7.0	1.6
16	2.5	4.9	4.9	6.0	30	9.8	6.9	4.7	2.3	1.7	3.0	1.6
17	2.5	4.1	4.5	6.5	25	9.8	6.8	4.7	2.2	1.7	1.9	1.6
18	2.5	4.1	3.8	6.5	19	20	6.7	4.6	2.2	1.7	1.8	1.6
19	2.5	4.1	3.8	6.5	15	17	6.6	4.6	2.1	1.7	1.8	1.6
20	2.5	4.1	4.9	7.0	13	14	6.5	4.5	2.1	1.7	1.7	1.6
21	2.5	4.1	5.3	14	12	13	6.4	4.5	2.1	1.7	1.7	1.6
22	2.5	4.1	5.3	11	11	12	6.3	4.5	2.0	1.6	1.7	1.6
23	2.5	4.1	4.1	10	10	11	6.2	4.4	2.0	1.6	1.7	1.6
24	2.5	4.1	3.1	9.0	9.3	10	6.1	4.4	2.0	1.6	1.6	1.6
25	2.5	4.1	3.4	8.0	9.3	9.9	6.0	4.4	2.0	1.6	1.6	1.6
26	2.5	4.1	4.1	7.1	9.3	9.8	5.9	4.2	2.0	1.6	1.6	45
27	2.5	4.2	4.5	5.3	9.3	9.7	5.8	4.0	1.9	1.8	1.6	33
28	2.5	4.3	4.1	5.8	9.4	9.6	5.7	3.8	1.9	1.5	1.6	22
29	2.5	4.5	4.9	10	---	9.5	5.6	3.7	1.9	1.5	1.6	18
30	2.5	4.1	5.3	14	---	9.0	5.5	3.6	1.9	1.5	1.6	15
31	2.5	---	6.2	14	---	8.5	---	3.5	---	1.5	1.6	---
TOTAL	73.7	112.6	130.1	228.5	340.9	326.0	208.5	145.3	73.0	53.0	212.7	173.0
MEAN	2.38	3.75	4.20	7.37	12.2	10.5	6.95	4.69	2.43	1.71	6.86	5.77
MAX	3.0	4.9	6.2	14	30	20	8.4	5.5	3.4	1.9	97	45
MIN	2.0	2.5	3.1	4.5	5.3	8.5	5.5	3.5	1.9	1.5	1.5	1.6
AC-FT	146	223	258	453	676	647	414	288	145	105	422	343

CAL YR 1981 TOTAL 2065.7 MEAN 5.66 MAX 31 MIN 1.7 AC-FT 4100
WTR YR 1982 TOTAL 2077.3 MEAN 5.69 MAX 97 MIN 1.5 AC-FT 4120

VIRGIN RIVER BASIN

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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 (50 m) downstream from Weiser Wash, 2 mi (3 km) southeast of Glendale, 2.4 mi (3.9 km) downstream from Meadow Valley Wash, 4.5 mi (7.2 km) northwest of Logandale and 16 mi (26 km) upstream from high water line of Lake Mead at altitude 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

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

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

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

GAGE.--Water-stage recorder. Altitude of gage is 1,460 ft (445 m), 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 (1.9 km) downstream at different datum.

REMARKS.--Records good, except for the period of no gage height record, July 14 to Aug. 17, 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.--32 years (1950-82), 45.2 ft³/s (1.280 m³/s), 32,750 acre-ft/yr (40.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft³/s (464 m³/s) Aug. 10, 1981, gage height, 27.10 ft (8.260 m) from rating curve extended above 7,400 ft³/s (210 m³/s) on basis of slope-area measurements of peak flow; minimum, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964, result of temporary storage upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30 ft (9.1 m) Mar. 26, 1906 (datum then in use), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 505 ft³/s (14.3 m³/s) Aug. 24 (1100 hrs), gage height 7.44 ft (2.268 m), no other peak above base of 210 ft³/s (5.95 m³/s); minimum 20 ft³/s (0.57 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	37	39	44	46	43	34	39	31	28	26	34
2	37	38	36	44	47	42	34	41	31	29	26	27
3	37	38	36	44	45	40	37	41	32	27	26	30
4	37	38	37	44	43	39	39	39	31	27	26	28
5	35	37	40	43	42	40	38	40	31	30	25	30
6	38	35	41	43	42	39	44	40	33	31	25	33
7	35	33	42	43	41	39	40	41	32	31	25	36
8	34	33	42	43	42	40	38	42	32	34	25	35
9	35	36	42	42	43	38	40	43	29	35	25	35
10	37	34	42	42	42	39	42	43	31	28	25	35
11	38	38	43	41	46	38	45	44	32	26	25	39
12	34	38	42	42	43	36	47	42	32	26	25	39
13	31	35	43	41	43	35	40	38	30	27	25	41
14	35	36	43	40	44	38	37	36	28	26	25	34
15	35	37	44	40	42	39	37	40	29	26	25	33
16	37	36	43	43	45	35	35	41	30	26	25	43
17	35	38	42	42	41	35	35	41	27	26	28	38
18	31	39	43	43	42	40	36	39	26	26	30	39
19	32	40	42	44	41	41	35	39	30	26	29	39
20	33	40	42	45	41	40	34	41	34	25	30	36
21	34	40	44	45	42	39	38	35	35	25	29	37
22	32	41	42	44	42	38	41	35	33	26	28	40
23	34	40	42	44	41	39	42	38	25	26	26	32
24	36	41	42	44	41	38	36	36	29	26	130	32
25	36	40	44	43	41	38	45	36	31	26	34	35
26	36	40	44	42	38	41	47	35	30	26	32	43
27	36	42	43	42	39	42	46	34	31	26	28	42
28	36	42	43	42	41	42	43	35	33	26	31	38
29	36	41	43	42	---	40	42	38	34	26	46	34
30	37	39	44	43	---	38	42	39	30	26	81	36
31	37	---	45	46	---	35	---	37	---	26	52	---
TOTAL	1092	1142	1300	1330	1186	1206	1189	1208	922	845	1038	1073
MEAN	35.2	38.1	41.9	42.9	42.4	38.9	39.6	39.0	30.7	27.3	33.5	35.8
MAX	38	42	45	46	47	43	47	44	35	35	130	43
MIN	31	33	36	40	38	35	34	34	25	25	25	27
AC-FT	2170	2270	2580	2640	2350	2390	2360	2400	1830	1680	2060	2130
CAL YR 1981	TOTAL	16783	MEAN	46.0	MAX	1630	MIN	25	AC-FT	33290		
WTR YR 1982	TOTAL	13531	MEAN	37.1	MAX	130	MIN	25	AC-FT	26840		

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 SE¼SW¼ 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 (1.3 km) downstream from diversion dam, 2.3 mi (3.7 km) southeast of Overton, and 1 mi (1.6 km) downstream from highwater line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,310 mi² (21,520 km²) approximately, of which about 4,300 mi² (11,140 km²) 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 (365 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft³/s (145 m³/s) Aug. 11, 1981, gage height, 16.54 ft (5.041 m), from rating curve extended above 436 ft³/s (12.3 m³/s) on basis of slope area measurement of peak flow; minimum daily, 0.32 ft³/s (0.009 m³/s) Dec. 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92 ft³/s (2.61 m³/s) May 3, gage height, 6.89 ft (2.100 m); minimum daily, 1.0 ft³/s (0.028 m³/s) many days July-Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	9.0	4.7	2.9	4.6	21	1.1	3.0	2.0	1.2	1.0	1.0
2	12	8.2	4.4	3.5	2.3	29	3.4	5.3	1.7	1.2	1.0	1.0
3	12	8.0	4.8	5.8	2.4	28	4.8	18	2.0	1.2	1.0	1.2
4	14	11	4.1	4.4	1.9	26	2.7	29	2.1	1.2	1.0	1.0
5	12	10	3.2	4.6	9.3	21	3.9	15	1.8	1.3	1.1	1.0
6	10	8.6	2.2	3.8	12	22	8.7	5.9	1.8	1.4	1.0	1.5
7	10	7.6	1.7	3.3	10	16	9.8	4.8	1.9	1.5	1.2	1.0
8	9.0	6.6	2.2	3.1	4.3	15	12	6.1	1.8	1.4	1.2	1.1
9	9.8	6.0	3.0	3.4	2.3	12	8.5	10	1.7	1.2	1.4	1.9
10	11	5.4	3.7	3.7	3.3	14	8.0	7.7	1.7	1.1	1.3	1.8
11	12	4.9	2.8	4.4	5.6	11	7.5	6.4	1.7	1.0	1.2	21
12	13	4.5	4.3	3.1	5.6	12	11	5.9	1.6	1.1	1.2	2.3
13	14	4.1	3.7	2.9	5.6	8.5	4.6	4.1	1.7	1.1	1.4	2.7
14	13	3.7	5.0	2.4	4.8	7.3	3.4	3.8	1.7	1.1	2.2	3.3
15	12	3.5	4.8	2.3	4.8	11	2.2	4.4	1.6	1.1	3.5	4.8
16	7.5	3.3	5.9	2.3	4.8	7.7	1.1	4.6	1.4	1.1	1.5	6.9
17	10	3.1	6.6	2.2	3.6	14	4.9	5.9	1.5	1.0	1.6	6.2
18	7.3	2.9	3.1	2.2	3.1	19	1.4	3.1	1.2	1.0	3.6	3.2
19	2.5	2.8	5.1	2.2	2.6	44	1.2	3.0	1.2	1.0	5.8	4.4
20	3.6	2.6	6.8	2.2	2.8	31	1.1	3.4	1.2	1.0	4.6	6.1
21	4.8	2.1	5.6	6.2	2.7	20	2.0	2.9	1.2	1.0	4.4	6.6
22	4.6	2.1	3.1	5.1	4.2	25	2.4	2.3	1.4	1.1	7.9	4.8
23	6.8	2.1	3.4	3.8	16	19	3.8	2.4	1.3	1.0	3.3	3.9
24	8.9	2.1	5.8	2.1	18	20	4.1	2.3	1.2	1.0	12	7.1
25	7.7	3.2	5.3	1.9	12	11	3.9	2.0	1.2	1.0	12	6.4
26	5.4	4.4	4.4	2.1	13	21	5.3	2.0	1.2	1.1	1.6	5.1
27	10	4.7	5.1	3.1	11	24	8.5	1.7	1.2	1.3	1.5	18
28	9.0	2.4	5.9	3.5	17	25	5.1	1.6	1.2	1.0	1.4	29
29	8.5	4.7	4.4	2.4	---	14	5.1	2.0	1.1	1.0	1.4	32
30	8.0	4.1	5.0	2.0	---	4.1	6.2	2.0	1.1	1.0	3.6	10
31	10	---	3.7	3.2	---	4.6	---	1.9	---	1.1	1.8	---
TOTAL	293.4	147.7	133.8	100.1	189.6	557.2	147.7	172.5	45.4	34.8	88.7	196.3
MEAN	9.46	4.92	4.32	3.23	6.77	18.0	4.92	5.56	1.51	1.12	2.86	6.54
MAX	15	11	6.8	6.2	18	44	12	29	2.1	1.5	12	32
MIN	2.5	2.1	1.7	1.9	1.9	4.1	1.1	1.6	1.1	1.0	1.0	1.0
AC-FT	582	293	265	199	376	1110	293	342	90	69	176	389

CAL YR 1981 TOTAL 4136.65 MEAN 11.3 MAX 1310 MIN .65 AC-FT 8210
WTR YR 1982 TOTAL 2107.20 MEAN 5.77 MAX 44 MIN 1.0 AC-FT 4180

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, 1,880 micromhos Aug. 17, 1979.

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, 1,520 mg/L Aug. 17, 1979; minimum, 121 mg/L Aug. 13, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	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 19...	1145	2.2	3500	8.3	14.5	2.2	10.1	103	20	K450	770
JAN 19...	1115	2.1	4560	8.2	10.5	9.6	10.8	101	16	K30	1200
MAR 16...	1130	9.8	3110	8.2	15.0	56	9.5	99	17	1600	3000
MAY 14...	1145	4.3	3190	8.3	21.5	40	10.6	126	25	K27000	>10000
JUL 14...	1000	1.3	3820	8.2	24.0	9.3	8.4	105	24	K4000	86000
SEP 13...	1200	2.3	3830	8.2	22.5	22	8.2	100	34	K830	K7000

K: NON-IDEAL COLONY COUNT.

VIRGIN RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 19...	1000	200	130	400	5.4	30	360	1100	320	3.8	41
JAN 19...	1500	270	190	550	6.3	37	450	1600	480	3.9	47
MAR 16...	1100	210	130	380	5.1	28	340	1100	300	3.3	36
MAY 14...	970	190	120	380	5.3	29	320	1000	280	5.0	37
JUL 14...	1200	230	150	440	6.2	36	399	1300	340	3.5	47
SEP 13...	1100	220	140	470	6.1	34	281	1400	350	3.2	35

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)	ARSENIC TOTAL (UG/L AS AS)
NOV 19...	2730	2440	16.2	.56	.170	.55	.080	.080	.110	75
JAN 19...	3660	3450	21.1	.33	.270	.84	.110	.090	.100	--
MAR 16...	2310	2390	61.2	.50	.180	.85	.120	.110	.110	72
MAY 14...	2370	2230	27.5	.28	.120	1.40	.180	.110	.100	71
JUL 14...	--	2790	10.7	<.10	.120	1.20	.140	.160	.090	--
SEP 13...	2850	2820	17.7	.21	.150	1.10	.140	.100	.110	87

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
NOV 19...	76	200	100	1	<1	10	10	<1	1	8
JAN 19...	--	--	--	--	--	--	--	--	--	--
MAR 16...	65	100	100	1	1	10	<10	1	<1	21
MAY 14...	66	<100	100	<1	<1	<10	10	1	1	6
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 13...	83	100	<100	1	1	10	<10	<1	<1	3

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
NOV 19...	3	1000	70	3	<1	310	290	.4	.1	5
JAN 19...	--	--	--	--	--	--	--	--	--	--
MAR 16...	1	2700	120	6	<1	270	190	.7	.3	4
MAY 14...	2	1400	30	8	3	220	160	.3	.1	7
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 13...	2	790	70	1	<1	210	170	.3	.1	3

VIRGIN RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	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 19...	1	1	1	<1	<1	40	20	292	1.7	--
JAN 19...	--	--	--	--	--	--	--	250	1.4	--
MAR 16...	2	<1	1	<1	<1	40	10	382	10	75
MAY 14...	3	1	1	<1	<1	30	20	276	3.2	72
JUL 14...	--	--	--	--	--	--	--	174	.61	--
SEP 13...	2	1	1	<1	1	20	10	148	.92	--

LAS VEGAS VALLEY

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 (15 m) above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi (8.8 km) north of Charleston Park.

DRAINAGE AREA.--9.20 mi² (23.83 km²).

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

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

REMARKS.--Records good. 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.--19 years, 0.026 ft³/s (0.0007) m³/s, 19 acre-ft/yr (23,400 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/s (24.9 m³/s) July 28, 1969, gage height, 3.60 ft (1.097 m), on basis of slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.50 ft³/s (0.014 m³/s) July 27, gage height 0.76 ft (0.231 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00
CAL YR 1981	TOTAL	0.00	MEAN	.000	MAX	.00	MIN	.00	AC-FT	.00		
WTR YR 1982	TOTAL	0.01	MEAN	.000	MAX	.01	MIN	.00	AC-FT	.02		

LAS VEGAS VALLEY

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09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW¼ SE¼ sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank 500 ft (152 m) west of Hollywood Blvd, and 1.5 mi (2.4 km) 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 (500 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft³/s (20.8 m³/s) July 2, 1980, gage height, 5.15 ft (1.570 m); minimum daily, 45 ft³/s (1.27 m³/s) Aug. 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 330 ft³/s (9.35 m³/s) Feb. 11, gage height, 4.04 ft. (1.231 m); minimum daily, 73 ft³/s (2.07 m³/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	83	82	97	92	123	107	84	95	87	92	106
2	83	90	87	96	86	101	85	123	94	85	93	103
3	85	81	80	99	115	93	78	144	125	124	92	103
4	88	85	89	98	113	95	109	101	112	120	95	102
5	86	84	95	103	87	121	92	91	83	78	95	107
6	92	96	94	96	105	116	110	118	96	78	91	107
7	87	87	107	94	132	92	100	104	106	118	92	112
8	86	88	93	85	102	85	80	77	112	108	96	100
9	86	94	91	86	92	95	89	95	98	88	98	102
10	79	83	97	88	110	121	111	120	86	83	92	95
11	80	89	105	85	260	106	109	103	88	86	92	122
12	90	94	103	83	120	74	82	75	126	86	91	110
13	81	91	99	86	108	89	73	102	118	79	99	115
14	80	82	93	88	101	118	103	120	86	86	100	109
15	80	83	88	87	99	123	114	84	85	94	105	102
16	84	92	88	89	110	106	92	81	104	94	99	107
17	88	91	92	90	92	88	83	108	120	97	97	113
18	86	89	93	101	100	114	114	116	101	103	99	110
19	86	89	90	90	126	109	115	112	83	110	100	106
20	85	83	84	98	128	126	95	103	89	102	101	112
21	86	86	110	97	101	123	103	92	112	111	101	114
22	85	86	95	89	96	105	92	93	101	106	102	112
23	87	92	92	91	105	84	81	109	103	98	99	97
24	88	99	85	92	126	96	80	133	105	86	133	95
25	88	84	88	91	125	124	109	108	108	99	157	108
26	86	81	91	92	90	104	110	88	106	102	123	113
27	98	83	96	86	97	91	97	90	78	100	118	122
28	93	89	99	89	121	118	84	90	102	88	106	120
29	91	97	98	94	---	100	89	103	111	84	120	116
30	98	78	96	89	---	118	95	136	78	90	108	118
31	87	---	100	93	---	97	---	102	---	95	106	---
TOTAL	2683	2629	2900	2842	3139	3255	2881	3205	3011	2965	3192	3258
MEAN	86.5	87.6	93.5	91.7	112	105	96.0	103	100	95.6	103	109
MAX	98	99	110	103	260	126	115	144	126	124	157	122
MIN	79	78	80	83	86	74	73	75	78	78	91	95
AC-FT	5320	5210	5750	5640	6230	6460	5710	6360	5970	5880	6330	6460

CAL YR 1981 TOTAL 31547 MEAN 86.4 MAX 166 MIN 65 AC-FT 62570
WTR YR 1982 TOTAL 35960 MEAN 98.5 MAX 260 MIN 73 AC-FT 71330

LAS VEGAS VALLEY

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, 3,060 micromhos Oct. 8; minimum, 1,140 micromhos Nov. 29.

WATER TEMPERATURES: Maximum, 29.5°C July 30; minimum, 9.5°C Feb. 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	16.5	24.0	21.5	25.0	22.5	26.0	23.0	28.0	27.0	27.0	25.0
2	19.0	14.5	22.5	22.0	25.0	23.0	27.0	24.0	28.5	26.5	27.5	25.5
3	19.0	15.5	24.0	21.0	25.0	22.5	25.5	24.0	27.0	25.5	27.0	25.5
4	18.5	16.5	23.5	22.5	24.0	22.0	24.5	23.5	26.5	24.5	27.0	25.5
5	19.0	17.0	23.5	22.0	24.0	21.5	26.5	22.0	27.5	24.5	28.0	26.0
6	17.5	17.0	23.5	21.5	24.0	21.5	26.5	23.5	27.0	25.0	28.0	26.5
7	18.5	16.0	24.0	21.5	23.5	22.0	25.5	24.0	28.5	25.5	27.0	26.0
8	19.0	16.0	23.0	21.0	24.5	22.0	26.0	24.0	28.5	26.5	26.5	25.5
9	19.5	16.5	21.5	20.0	26.0	23.5	26.5	23.5	28.5	26.5	27.5	25.5
10	19.5	17.5	21.5	19.5	26.5	23.5	27.5	24.5	27.5	26.0	26.5	25.5
11	19.5	19.0	22.0	20.0	26.5	23.5	28.0	25.0	27.0	25.5	25.5	23.5
12	20.5	17.5	22.5	20.0	25.0	24.0	27.0	25.0	27.0	26.0	25.0	23.5
13	21.0	17.5	22.5	20.0	25.0	23.0	---	---	27.5	25.5	25.0	23.5
14	20.5	18.0	23.0	21.0	26.0	23.5	---	---	28.0	26.0	---	---
15	20.5	18.5	24.0	20.5	27.0	24.0	---	---	27.5	26.5	---	---
16	20.5	18.5	24.5	22.0	27.0	24.5	26.5	24.5	26.5	26.0	---	---
17	21.5	17.5	24.5	22.5	27.0	25.0	27.0	24.0	28.0	26.5	---	---
18	21.0	19.5	23.5	22.0	26.5	24.5	26.5	25.0	28.5	26.0	---	---
19	20.5	19.5	23.0	21.5	26.5	24.0	27.5	25.5	28.5	26.5	---	---
20	19.5	17.5	24.5	22.0	27.5	25.0	27.5	25.5	29.0	26.5	---	---
21	18.0	16.5	25.0	22.5	26.5	25.0	28.0	26.0	29.0	27.0	---	---
22	19.5	17.0	25.5	22.5	26.5	24.0	27.5	26.5	28.5	27.0	---	---
23	21.5	18.5	25.5	23.0	27.0	24.5	27.5	26.5	28.0	27.0	---	---
24	21.5	19.0	25.0	23.5	27.0	24.5	27.5	26.0	27.0	25.0	---	---
25	22.0	19.5	26.0	23.0	26.5	24.5	28.0	26.5	27.0	25.0	---	---
26	22.5	20.0	25.0	23.5	27.0	24.5	28.0	26.5	28.0	26.0	---	---
27	23.5	20.5	24.0	22.0	27.5	25.0	28.5	26.5	28.0	27.0	---	---
28	23.5	21.0	24.5	21.0	26.0	25.0	29.0	27.0	28.0	26.5	---	---
29	23.0	21.5	25.0	22.0	25.5	24.5	29.0	27.0	28.0	26.5	---	---
30	24.0	21.0	24.5	22.0	25.0	22.5	29.5	27.0	27.0	26.0	---	---
31	---	---	25.0	23.0	---	---	29.0	27.0	27.0	25.0	---	---
MONTH	24.0	14.5	26.0	19.5	27.5	21.5	29.5	22.0	29.0	24.5	28.0	23.5
YEAR	29.5	9.5										

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2300	1910	2360	1800	2390	1940	2480	1980	2240	1870	2290	2050
2	2310	1870	2360	1820	2560	1990	2480	1980	2350	2010	2370	2070
3	2360	1830	2210	1900	2550	1990	2500	1990	2330	2010	2320	2010
4	2300	1740	2340	1890	2470	2170	---	---	2400	1930	2300	2060
5	2230	1760	2390	1890	2610	2220	---	---	2140	1910	2300	2040
6	2870	1890	2440	1910	2550	2110	---	---	2150	1940	2350	2130
7	2970	1830	2330	1820	2390	2060	---	---	2140	1970	2290	2090
8	3060	1930	2280	1750	2380	2000	---	---	2150	1840	2300	2010
9	2790	1920	2500	1750	2610	2010	---	---	2200	1910	2300	2030
10	2430	1830	2260	1910	2540	1930	---	---	---	---	2330	2130
11	2420	1800	2270	1870	2110	1800	---	---	---	---	2350	2170
12	2800	1800	2460	1880	2240	2040	---	---	2220	1990	2450	2090
13	2330	1890	2490	1950	2190	2020	---	---	2290	1980	2480	2150
14	2290	1910	2450	1850	2280	1910	---	---	2230	1980	2270	2160
15	2340	1910	2410	1770	2190	1900	---	---	2190	1990	2560	2150
16	2150	1910	2450	1780	2310	1880	---	---	2250	1990	2360	2170
17	2280	1780	2540	1880	2200	1950	---	---	2290	2050	2420	2110
18	2280	1800	2500	1890	2250	2090	---	---	2290	2010	2810	1580
19	2210	1750	2430	1890	2210	1980	2280	1920	2280	2090	2210	2030
20	2200	1840	2400	1870	2310	1800	2280	1930	2260	2110	2310	2170
21	2200	1890	2340	1840	2260	1990	2480	1500	2210	2020	2270	2130
22	2240	1880	2380	1810	2250	2080	2280	1920	2250	2010	2340	2150
23	2260	1870	2420	1790	2310	2020	2340	1900	2280	1990	2340	2000
24	2340	1830	2500	1880	2340	1980	2320	1850	2290	2060	2340	2080
25	2300	1820	2520	1890	2410	1990	2290	1870	2300	2100	2300	2140
26	2290	1810	2360	1860	2420	2000	2330	1930	2280	2030	2340	2090
27	2500	1860	2370	1870	2470	1950	2360	1960	2330	2080	2270	2030
28	2470	1880	2350	1250	2270	1950	2290	1960	2280	2120	2230	2080
29	2540	1900	2160	1140	2420	1990	2460	2020	---	---	2240	1940
30	2420	1920	2190	1710	2370	1990	2450	1890	---	---	2220	1990
31	2350	1870	---	---	2390	1980	2300	1880	---	---	2250	1970
MONTH	3060	1740	2540	1140	2610	1800	2500	1500	2400	1840	2810	1580

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

LAS VEGAS VALLEY

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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 (1.37 m) pipe culvert on road, 3.5 mi (5.6 km) north of Henderson, and 6.0 mi (9.7 km) upstream from highwater line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--2,125 mi² (5,504 km²), of which 1,518 mi² (3,932 km²) contribute directly to surface runoff. Prior to Apr. 4, 1961, 2,179 mi² (5,644 km²), of which 1,571 mi² (4,069 km²) 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 (469 m), from topographic map. Prior to Apr. 4, 1961, at site 2.5 mi (4.0 km) downstream at various datums.

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

AVERAGE DISCHARGE.--25 years, 44.4 ft³/s (1.257 m³/s), 32,170 acre-ft/yr (39.7 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 761 ft³/s (21.6 m³/s) Feb. 11, gage height, 9.44 ft (2.877 m); minimum daily, 73 ft³/s (2.07 m³/s) Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	82	81	88	85	125	108	97	97	92	100	113
2	88	85	84	86	81	111	104	113	97	92	99	110
3	86	82	81	89	87	101	92	147	108	103	99	109
4	88	82	81	87	101	99	105	121	113	111	100	108
5	88	82	85	88	84	118	111	104	93	96	99	111
6	88	84	84	91	78	118	107	113	96	98	99	111
7	85	83	89	90	97	110	116	118	100	102	102	113
8	81	86	87	87	91	95	95	93	106	108	100	113
9	82	89	84	87	77	98	95	93	107	100	99	110
10	77	87	83	90	85	119	116	116	95	90	102	108
11	79	83	91	88	282	121	117	116	95	93	101	113
12	82	89	89	85	125	91	104	89	105	93	99	112
13	83	88	88	85	112	90	89	96	119	91	101	116
14	78	81	85	88	101	120	102	114	97	89	99	115
15	80	84	80	88	113	127	119	102	92	96	104	108
16	82	86	78	87	117	121	109	92	98	97	107	108
17	84	86	81	88	106	98	96	100	114	97	105	114
18	86	85	84	93	104	120	111	112	112	102	105	113
19	85	84	81	87	127	119	122	105	93	105	105	110
20	84	84	73	90	129	132	111	112	96	100	107	111
21	84	84	105	93	117	129	105	97	104	106	107	108
22	84	85	85	89	104	123	110	96	110	105	108	113
23	84	88	81	87	104	101	96	100	95	104	107	109
24	84	88	77	89	124	99	95	121	114	96	109	101
25	85	83	81	89	127	124	108	110	98	101	127	107
26	85	80	82	88	108	119	118	99	112	103	133	110
27	87	82	86	83	97	102	113	93	90	105	115	115
28	88	86	93	83	122	114	97	95	91	101	113	117
29	83	101	91	85	---	115	96	94	105	97	112	115
30	85	86	88	80	---	113	109	118	92	98	117	115
31	86	---	89	85	---	116	---	112	---	100	108	---
TOTAL	2606	2555	2627	2713	3085	3488	3176	3288	3044	3071	3288	3343
MEAN	84.1	85.2	84.7	87.5	110	113	106	106	101	99.1	106	111
MAX	88	101	105	93	282	132	122	147	119	111	133	117
MIN	77	80	73	80	77	90	89	89	90	89	99	101
AC-FT	5170	5070	5210	5380	6120	6920	6300	6520	6040	6090	6520	6630

CAL YR 1981 TOTAL 28144 MEAN 77.1 MAX 184 MIN 60 AC-FT 55820
WTR YR 1982 TOTAL 36284 MEAN 99.4 MAX 282 MIN 73 AC-FT 71970

LAS VEGAS VALLEY

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, 2 mg/L Feb. 16, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT										
13...	0930	78	2630	7.3	18.5	--	--	760	170	81
NOV										
19...	0915	84	2710	--	15.5	--	--	--	--	--
DEC										
15...	0915	82	2570	--	13.5	--	--	--	--	--
JAN										
18...	0930	83	2700	7.3	11.5	--	--	770	170	84
FEB										
16...	0930	118	2350	--	16.0	--	--	--	--	--
MAR										
15...	1045	132	2560	--	15.5	--	--	--	--	--
APR										
13...	1045	84	2410	7.1	17.5	--	--	670	150	72
MAY										
13...	1015	89	2440	--	17.5	--	--	--	--	--
JUN										
15...	0845	94	2150	--	21.5	--	--	--	--	--
JUL										
13...	0815	94	2120	7.0	23.0	1.4	17	570	130	60
AUG										
16...	0800	105	2060	7.2	24.0	2.0	25	--	--	--
SEP										
14...	0815	117	2170	7.4	21.0	1.4	17	--	--	--

E: ESTIMATED.

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 13...	270	4.3	13	180	700	330	.8	25	1780	1700
NOV 19...	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	--	--
JAN 18...	270	4.2	19	160	720	380	.6	22	1780	1760
FEB 16...	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--
APR 13...	250	4.2	18	120	720	290	.7	21	1640	1590
MAY 13...	--	--	--	--	--	--	--	--	--	--
JUN 15...	--	--	--	--	--	--	--	--	--	--
JUL 13...	220	4.0	16	117	620	260	.6	20	1400	1400
AUG 16...	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	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)
OCT 13...	375	.53	.380	.91	.030	11	11.0	12	.190	.200
NOV 19...	--	1.9	.230	2.1	.010	8.5	8.50	11	.200	--
DEC 15...	--	2.2	.310	2.5	9.10	1.9	11.0	14	.200	--
JAN 18...	399	2.3	.450	2.7	9.20	3.8	13.0	16	.190	.180
FEB 16...	--	.99	.310	1.3	12.0	10	22.0	23	.250	--
MAR 15...	--	1.1	.310	1.4	9.90	1.1	11.0	12	.000	--
APR 13...	372	.91	.290	1.2	8.20	1.2	9.40	11	.590	.580
MAY 13...	--	.71	.220	.93	8.40	--	--	--	.620	--
JUN 15...	--	.29	.150	.44	10.0	--	<10.0	--	.760	--
JUL 13...	355	.23	.170	.40	10.0	.00	8.60	9.0	.770	.720
AUG 16...	--	.06	.070	.13	11.0	4.0	15.0	15	1.00	--
SEP 14...	--	.18	.120	.30	10.0	5.0	15.0	15	.860	--

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SEDI- MENT, DIS- SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT			
13...	0930	5	1.1
NOV			
19...	0915	6	1.3
DEC			
15...	0915	6	1.3
JAN			
18...	0930	18	4.0
FEB			
16...	0930	2	.64
MAR			
15...	1045	5	1.8
APR			
13...	1045	8	1.8
MAY			
13...	1015	7	1.7
JUN			
15...	0845	19	4.8
JUL			
13...	0815	3	.76
AUG			
16...	0800	8	2.3
SEP			
14...	0815	38	12

LAS VEGAS VALLEY

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09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE1SE1 sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead National Recreation Area, on left bank near mouth, on upstream side of North Shore Road, about 0.8 mi (1.3 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929, and 11 mi (18 km) north-northwest of Boulder City.

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map. Prior to June 5, 1978, water-stage recorder at site, 50 ft (15 m) upstream at different datum.

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

AVERAGE DISCHARGE.--13 years, 77.4 ft³/s (2.192 m³/s), 56,080 acre-ft (69.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) July 4, 1975, gage height, 12.32 ft (3.755 m), from indirect measurement of peak flow, site and datum then in use; minimum, 14 ft³/s (0.40 m³/s) July 7, 8, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 26, 1964, reached a stage of 7.5 ft (2.29 m), from floodmarks, discharge, 1,050 ft³/s (29.7 m³/s), from indirect measurement of peak flow, and another flood between 1964 and 1969 reached a stage of about 10 ft (3.05 m), from floodmarks, discharge, about 1,700 ft³/s (48.1 m³/s), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of theoretical weir and culvert formulas, datum prior to June 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 790 ft³/s (22.4 m³/s) Feb. 11, gage height, 5.75 ft (1.753 m); minimum daily, 76 ft³/s (2.15 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	102	94	103	103	142	99	93	90	84	96	100
2	112	103	98	102	96	131	114	107	90	89	92	99
3	108	100	97	103	100	106	86	155	101	95	92	96
4	111	95	95	98	127	104	96	140	117	111	92	94
5	112	98	100	102	108	122	122	104	95	99	95	94
6	111	98	100	108	95	134	99	106	88	86	96	95
7	109	102	102	107	114	127	122	127	96	93	92	100
8	103	103	106	106	122	107	92	86	102	107	95	103
9	107	104	100	101	98	106	88	80	114	103	95	101
10	98	103	98	106	102	129	110	109	95	87	95	98
11	97	98	106	104	346	142	118	124	93	88	94	95
12	97	104	107	100	200	106	110	92	98	89	95	101
13	106	104	104	98	153	93	80	84	122	93	94	101
14	97	98	102	102	124	132	86	114	98	84	98	104
15	98	100	98	101	122	147	118	106	84	93	100	97
16	100	101	93	98	125	145	118	84	88	94	103	96
17	106	102	94	103	115	140	92	90	109	95	100	102
18	108	100	96	107	110	135	102	112	115	103	101	101
19	108	98	98	107	120	133	129	101	88	106	100	98
20	107	98	83	104	125	131	122	117	84	105	103	96
21	107	102	123	114	125	130	99	96	93	100	104	100
22	107	104	104	109	125	129	117	96	107	104	104	101
23	107	104	95	103	125	102	90	95	82	104	104	100
24	107	104	88	108	127	92	90	115	112	97	106	92
25	107	103	96	106	147	120	101	120	86	97	123	98
26	106	95	97	104	134	129	120	104	114	98	136	100
27	104	97	103	100	107	102	117	84	88	104	116	105
28	108	102	102	97	134	110	92	85	76	100	103	105
29	101	118	118	101	---	125	93	85	107	93	97	105
30	104	113	106	96	---	107	112	110	90	92	108	105
31	109	---	107	100	---	127	---	115	---	96	97	---
TOTAL	3266	3053	3110	3198	3629	3785	3134	3236	2922	2989	3126	2982
MEAN	105	102	100	103	130	122	104	104	97.4	96.4	101	99.4
MAX	112	118	123	114	346	147	129	155	122	111	136	105
MIN	97	95	83	96	95	92	80	80	76	84	92	92
AC-FT	6480	6060	6170	6340	7200	7510	6220	6420	5800	5930	6200	5910
CAL YR 1981	TOTAL 35846		MEAN 98.2		MAX 513		MIN 77		AC-FT 71100			
WTR YR 1982	TOTAL 38430		MEAN 105		MAX 346		MIN 76		AC-FT 76230			

LAS VEGAS VALLEY

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT 13...	230	97	290	4.0	15	140	900	400	.9	31	2200
NOV 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	--	--	2110
JAN 18...	210	97	310	4.4	26	150	880	440	.7	28	2130
FEB 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--	2260
APR 13...	240	94	320	4.4	28	120	960	440	.8	28	2280
MAY 13...	--	--	--	--	--	--	--	--	--	--	2370
JUN 15...	--	--	--	--	--	--	--	--	--	--	2060
JUL 13...	220	82	290	4.2	23	109	900	360	.8	27	2040
AUG 16...	--	--	--	--	--	--	--	--	--	--	1850
SEP 14...	--	--	--	--	--	--	--	--	--	--	1800

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	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)
OCT 13...	2050	659	1.5	1.70	3.2	5.00	.60	5.60	8.8	.270	.150
NOV 19...	--	--	3.4	1.40	4.8	1.70	.90	2.60	7.4	.190	--
DEC 15...	--	575	3.8	1.00	4.8	3.70	2.1	5.80	11	.200	--
JAN 18...	2080	638	3.9	.900	4.8	5.30	.30	5.60	10	.200	.130
FEB 16...	--	--	1.8	.440	2.2	6.70	1.1	7.80	10	.290	--
MAR 15...	--	775	1.9	.690	2.6	5.70	.90	6.60	9.2	.000	--
APR 13...	2180	529	2.2	.760	3.0	4.00	.80	4.80	7.8	.730	.510
MAY 13...	--	525	2.0	.830	2.8	3.10	.60	3.70	6.5	.810	--
JUN 15...	--	512	1.7	1.20	2.9	4.00	.70	4.70	7.6	.850	--
JUL 13...	1970	529	1.9	1.40	3.3	3.50	.00	3.40	6.7	.700	.580
AUG 16...	--	529	1.8	1.80	3.6	4.20	1.4	5.60	9.2	.930	--
SEP 14...	--	539	1.6	1.60	3.2	3.90	3.0	6.90	10	1.00	--

LAS VEGAS VALLEY

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				
13...	1100	504	151	47
NOV				
19...	1345	207	53	50
DEC				
15...	1000	358	98	43
JAN				
18...	1115	234	70	52
FEB				
16...	1130	6070	2480	61
MAR				
15...	1245	1280	439	62
APR				
13...	1145	506	117	47
MAY				
13...	1130	824	182	58
JUN				
15...	1000	640	159	52
JUL				
13...	1000	568	147	66
AUG				
16...	0930	265	76	58
SEP				
14...	0930	550	165	49

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	14.5	13.0	14.0	12.5	13.0	10.5	16.0	15.0
2			---	---	14.5	12.5	13.0	11.5	12.5	10.5	16.5	14.0
3			17.5	15.5	14.5	12.5	12.0	10.5	12.5	10.5	17.0	13.5
4			17.5	15.0	14.5	12.5	12.0	10.5	12.5	10.0	16.5	13.0
5			17.5	15.0	14.5	13.0	12.5	10.5	12.5	11.0	15.5	12.5
6			17.5	15.5	15.0	13.0	12.0	10.0	11.0	9.0	15.5	12.5
7			17.5	16.0	15.0	13.5	10.0	8.5	9.5	8.0	14.5	13.0
8			18.5	16.0	15.0	13.5	10.0	8.0	9.0	7.5	15.5	13.5
9			18.0	16.0	15.0	13.5	10.5	8.5	11.0	9.0	16.0	13.5
10			18.0	15.5	15.5	14.0	11.0	9.0	11.5	10.0	16.0	14.5
11			17.5	15.5	16.0	14.5	12.5	10.5	11.5	10.5	16.5	15.5
12			18.0	15.5	15.0	14.0	12.5	11.0	11.5	9.5	18.0	15.5
13			17.5	15.5	15.0	13.5	12.0	10.5	---	---	18.5	15.0
14			17.5	16.0	15.0	13.5	12.0	10.0	---	---	17.5	15.5
15			18.0	16.5	15.0	12.5	12.0	10.0	---	---	17.5	14.5
16			18.5	16.5	14.5	13.0	12.0	10.0	---	---	16.5	14.0
17			18.0	16.5	13.5	12.0	12.0	10.0	17.0	14.5	14.5	13.5
18			17.5	16.0	13.0	11.5	12.0	10.5	16.0	14.0	15.5	12.5
19			17.0	15.5	13.5	12.0	12.0	10.5	16.0	13.0	15.0	12.0
20			16.0	14.5	14.0	12.0	12.0	11.0	16.5	13.5	15.0	12.0
21			15.0	13.5	14.0	13.0	12.0	10.5	17.0	14.5	15.5	12.0
22			14.5	13.0	13.5	12.0	---	---	17.5	14.5	16.0	13.0
23			14.5	13.0	12.0	11.0	---	---	17.0	15.5	17.0	12.5
24			15.0	13.0	11.0	10.0	11.0	9.5	16.5	15.0	17.0	13.0
25			15.0	13.5	11.5	10.0	12.0	9.5	17.5	15.0	16.0	14.0
26			15.0	14.0	12.0	10.5	12.5	10.0	17.5	15.0	17.5	14.5
27			13.5	12.5	12.0	10.5	13.5	11.0	17.5	14.5	18.5	15.0
28			14.5	12.5	12.0	10.5	14.0	12.0	17.0	14.5	18.0	14.5
29			14.0	13.5	12.0	10.5	13.5	11.5	---	---	16.5	13.5
30			15.0	14.0	13.5	11.5	13.5	11.5	---	---	17.0	13.0
31			---	---	14.0	12.5	13.0	10.5	---	---	17.5	13.5
MONTH			18.5	12.5	16.0	10.0	14.0	8.0	17.5	7.5	18.5	12.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	23.0	18.5	23.5	18.0	24.5	19.5	27.0	23.5	25.5	21.5
2	17.0	13.0	21.0	19.5	23.0	18.5	24.5	19.5	27.5	23.0	26.0	21.5
3	17.5	12.5	22.5	19.0	23.0	18.0	25.0	19.5	26.5	22.0	25.5	21.5
4	18.0	13.5	21.0	19.5	23.0	18.5	23.5	20.5	26.0	21.0	25.0	22.0
5	17.5	14.5	22.0	19.0	23.0	18.0	24.5	20.0	26.0	21.0	26.5	22.5
6	17.5	14.0	22.0	17.5	22.5	17.0	25.0	20.0	24.5	21.5	26.0	22.5
7	17.0	13.5	22.0	17.5	22.5	17.5	24.0	21.0	27.0	22.5	24.5	22.5
8	17.0	12.5	21.5	18.0	23.0	17.5	25.5	22.0	27.0	22.5	24.5	23.0
9	17.0	12.5	21.0	17.0	23.0	18.0	26.0	21.0	27.0	22.5	25.5	22.5
10	17.5	14.0	20.5	17.0	23.5	18.0	26.0	21.0	26.0	22.0	24.5	22.5
11	18.0	15.5	20.5	16.5	24.0	18.5	26.0	21.5	26.5	22.5	24.5	20.5
12	20.0	16.0	21.0	16.0	23.0	19.0	26.0	21.0	25.5	23.0	---	---
13	19.5	16.0	21.5	16.5	23.5	20.0	26.0	21.5	27.0	22.5	---	---
14	20.5	15.5	20.5	17.0	24.5	19.5	26.5	21.0	27.0	23.0	---	---
15	20.0	16.0	22.0	17.5	25.0	20.0	26.0	21.5	26.5	22.5	23.5	20.0
16	19.5	16.0	23.0	17.5	25.5	20.0	26.0	21.5	26.0	22.0	22.0	20.0
17	20.0	15.0	23.0	18.0	25.5	21.0	26.0	21.0	26.5	22.5	22.0	19.5
18	20.0	15.0	22.5	18.5	25.0	21.5	25.0	21.5	27.0	23.0	23.0	19.5
19	19.5	15.5	23.0	18.5	25.5	21.0	27.0	22.0	27.0	22.5	23.0	20.0
20	18.0	14.0	22.5	18.0	26.0	21.0	26.5	22.0	27.0	23.0	23.5	20.0
21	17.5	13.5	22.5	17.5	25.5	21.0	26.5	22.0	27.5	23.5	23.5	20.0
22	17.5	14.0	23.5	18.0	25.0	20.5	27.0	23.0	27.5	24.0	23.5	20.0
23	19.5	15.0	24.0	18.5	25.5	20.5	28.0	23.5	26.0	24.0	23.0	20.0
24	19.5	15.5	24.0	19.5	25.0	20.5	26.5	23.5	25.0	24.0	24.0	21.0
25	20.5	16.0	24.5	20.0	26.0	20.5	27.0	23.5	25.5	23.5	24.0	22.0
26	21.0	17.0	23.5	20.0	26.0	21.0	27.5	23.5	26.5	23.5	24.0	21.0
27	22.0	17.5	23.5	19.0	26.0	21.0	27.5	24.0	26.5	23.5	22.0	19.5
28	22.5	17.5	23.5	18.5	26.5	21.5	28.0	24.0	26.5	22.5	21.0	18.5
29	22.0	18.0	23.5	18.5	25.0	21.5	28.5	23.5	26.5	23.0	20.0	17.5
30	22.5	18.0	23.0	18.0	24.0	20.0	28.5	23.5	26.0	22.5	19.5	17.0
31	---	---	23.0	18.5	---	---	28.5	23.5	25.5	22.0	---	---
MONTH	22.5	12.5	24.5	16.0	26.5	17.0	28.5	19.5	27.5	21.0	26.5	17.0
YEAR	28.5	7.5										

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'58", long 114°44'13", in NE1SW1 sec. 3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010003, in center of Hoover Dam on Colorado River.

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

RESERVOIR-CONTENTS RECORDS

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

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

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft (0.000 m) to Local Powerhouse datum and is 0.40 ft (0.122 m) National Geodetic Vertical Datum of 1929.

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft (34,300 hm³) July 29, 30, 1941, gage height, 1,220.45 ft (371.993 m); minimum (since 1940), 10,695,000 acre-ft (1,200 hm³) Apr. 26, 1956, gage height, 1,083.21 ft (330.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,314,000 acre-ft (28,700 hm³) Feb. 16, gage height, 1,202.73 ft (366.592 m); minimum, 21,866,000 acre-ft (26,960 hm³) Oct. 7, 8, gage height, 1,192.64 ft (363.517 m).

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

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21873	22087	22246	22681	23086	23248	23038	22681	22476	22397	22420	22550
2	21873	22093	22256	22685	23093	23231	23026	22684	22480	22394	22411	22557
3	21884	22093	22270	22691	23108	23219	23022	22682	22480	22391	22394	22557
4	21901	22094	22282	22697	23117	23213	23028	22676	22470	22400	22390	22574
5	21897	22100	22299	22694	23130	23207	23012	22668	22470	22403	22377	22580
6	21884	22109	22323	22710	23152	23212	22983	22664	22468	22396	22378	22592
7	21866	22116	22336	22711	23178	23214	22974	22666	22470	22394	22388	22596
8	21866	22130	22338	22721	23187	23203	22955	22675	22474	22388	22400	22590
9	21874	22134	22347	22736	23190	23182	22958	22691	22477	22388	22394	22590
10	21881	22137	22351	22751	23200	23163	22958	22687	22476	22407	22393	22603
11	21890	22138	22360	22760	23229	23139	22950	22674	22480	22416	22393	22613
12	21893	22145	22368	22757	23247	23127	22931	22659	22488	22413	22388	22622
13	21898	22157	22383	22763	23267	23127	22907	22638	22493	22404	22401	22626
14	21890	22181	22393	22777	23289	23136	22892	22615	22486	22400	22414	22623
15	21886	22201	22407	22805	23310	23123	22877	22600	22474	22404	22427	22625
16	21893	22202	22430	22829	23314	23108	22867	22596	22460	22404	22433	22630
17	21904	22199	22436	22850	23307	23104	22871	22582	22443	22421	22437	22639
18	21914	22196	22443	22850	23297	23131	22880	22560	22437	22431	22434	22649
19	21908	22191	22471	22847	23280	23146	22868	22544	22440	22418	22437	22659
20	21904	22185	22507	22844	23280	23162	22829	22526	22444	22406	22438	22662
21	21925	22206	22531	22868	23282	23182	22802	22514	22434	22403	22440	22664
22	21955	22230	22550	22887	23276	23190	22782	22521	22413	22401	22454	22656
23	21984	22240	22574	22918	23269	23178	22763	22524	22403	22414	22464	22656
24	22018	22229	22597	22950	23253	23156	22759	22509	22401	22423	22473	22676
25	22036	22229	22620	22973	23251	23136	22761	22496	22401	22436	22478	22707*
26	22048	22236	22630	22981	23250	23124	22746	22474	22408	22436	22486	22724
27	22048	22246	22655	23002	23255	23128	22720	22474	22421	22424	22497	22748
28	22048	22255	22658	23012	23264	23128	22695	22464	22411	22416	22516	22754
29	22055	22259	22661	23025	---	23104	22678	22468	22403	22414	22537	22753
30	22059	22259	22665	23051	---	23086	22671	22476	22401	22413	22540	22766
31	22073	---	22668	23083	---	23064	---	22474	---	22410	22540	---
MAX	22073	22259	22668	23083	23314	23248	23038	22691	22493	22436	22540	22766
MIN	21866	22087	22246	22681	23086	23064	22671	22464	22401	22388	22377	22550
(*)	1194.11	1195.42	1198.28	1201.15	1202.39	1201.02	1198.30	1196.93	1196.42	1196.48	1197.39	1198.96
(+)	+203,000	+186,000	+409,000	+415,000	+181,000	-200,000	-393,000	-197,000	-73,000	+9,000	+130,000	+226,000
(‡)	11,840	10,470	8,120	8,590	7,890	9,730	11,260	13,380	14,360	14,310	14,730	12,790
(**)	7.9	5.1	4.9	3.8	2.3	4.6	3.5	6.5	8.3	6.3	5.8	7.2
(‡‡)	92,700	59,800	58,100	44,600	28,500	55,600	41,700	77,100	98,200	75,600	68,900	86,800
CAL YR 1981	MAX 23610	MIN 21839	† -668,000	‡‡ +141,170	** 67.7	‡‡ +802,900						
WTR YR 1982	MAX 23314	MIN 21866	† +896,000	‡‡ +137,470	** 66.2	‡‡ +787,600						

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

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

† Change in contents, in acre-feet.

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

‡ Diversions, in acre-feet.

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, 668 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 1961 TO SEPTEMBER 1962

				TRANSPARENCY, SECCHI DISK (FEET)					
		DATE							
		NOV							
		04...		46					
		DEC							
		15...		44					
		FEB							
		26...		45					
		MAR							
		30...		57					
		MAY							
		10...		64					
		26...		38					
		JUN							
		24...		15					
		AUG							
		02...		19					
		SEP							
		28...		41					
		DATE		TIME		SPE- CIFIC CON- DUCT- ANCE (UMHOS)		PH, FIELD (UNITS)	
						TEMPER- ATURE, WATER (DEG C)		OXYGEN, DIS- SOLVED (MG/L)	
						HARD- NESS (MG/L AS CaCO3)			
		NOV							
		04...		0915		.00		1100	
		04...		0921		5.00		1100	
		04...		0927		10.0		1100	
		04...		0928		15.0		1100	
		04...		0929		20.0		1100	
		04...		0930		25.0		1100	
		04...		0931		30.0		1100	
		04...		0932		40.0		1100	
		04...		0933		50.0		1100	
		04...		0934		60.0		1100	
		04...		0935		75.0		1100	
		04...		0936		80.0		1100	
		04...		0937		90.0		1100	
		04...		0938		100		1120	
		04...		0940		125		1060	
		04...		0941		150		1050	
		04...		0943		175		1030	
		04...		0944		200		1030	
		04...		0945		225		1020	
		04...		0947		250		1020	
		04...		0950		275		1020	
		04...		0955		283		1040	
		04...		0957		300		1040	
		04...		1000		325		1040	
		04...		1002		350		1050	
		04...		1005		375		1050	
		04...		1015		400		1050	
		04...		1025		425		1050	
		04...		1035		450		1060	
		04...		1045		475		1060	
		04...		1115		481		1060	

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
NOV								
04...	0915	.00	--	--	--	--	--	130
04...	0927	10.0	80	32	100	2.4	5.0	130
04...	0930	25.0	--	--	--	--	--	140
04...	0935	75.0	--	--	--	--	--	140
04...	0940	125	83	31	97	2.3	4.0	150
04...	0943	175	--	--	--	--	--	150
04...	0945	225	--	--	--	--	--	150
04...	0950	275	82	30	94	2.3	4.0	150
04...	0955	283	--	--	--	--	--	150
04...	1000	325	--	--	--	--	--	150
04...	1005	375	--	--	--	--	--	160
04...	1025	425	82	30	95	2.3	4.0	160
04...	1045	475	--	--	--	--	--	160
04...	1115	481	--	--	--	--	--	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)
NOV								
04...	.00	110	--	92	--	--	--	--
04...	.00	110	300	92	.3	9.2	688	.15
04...	.00	110	--	91	--	--	--	--
04...	.00	110	--	91	--	--	--	--
04...	.00	120	290	87	.3	8.9	676	.41
04...	.00	120	--	86	--	--	--	--
04...	.00	120	--	83	--	--	--	--
04...	.00	120	280	82	.3	8.7	656	.28
04...	.00	120	--	83	--	--	--	--
04...	.00	120	--	85	--	--	--	--
04...	.00	130	--	87	--	--	--	--
04...	.00	130	280	84	.3	9.1	662	.36
04...	.00	140	--	84	--	--	--	--
04...	.00	140	--	84	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

				SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)				
DATE	TIME			SAM- PLING DEPTH (FEET)								
DEC												
15...	0850			.00	1110	7.9	16.0	7.2	340			
15...	0910			5.00	1100	--	16.0	--	--			
15...	0935			10.0	1100	8.0	16.5	7.2	340			
15...	0937			15.0	1100	--	16.5	--	--			
15...	0938			20.0	1100	--	16.5	--	--			
15...	0939			25.0	1100	8.0	16.5	7.0	340			
15...	0941			30.0	1100	--	16.5	--	--			
15...	0942			40.0	1100	--	16.5	--	--			
15...	0943			50.0	1100	--	16.5	--	--			
15...	0944			60.0	1100	--	16.5	--	--			
15...	0945			70.0	1100	--	16.5	--	--			
15...	0946			75.0	1100	8.0	16.5	7.2	340			
15...	0948			80.0	1100	--	16.5	--	--			
15...	0949			90.0	1100	--	16.0	--	--			
15...	0950			100	1100	--	16.5	--	--			
15...	0952			125	1100	7.9	16.5	5.8	340			
15...	0954			150	1060	--	16.0	--	--			
15...	0956			175	1050	7.8	15.0	4.8	330			
15...	0957			200	1050	--	14.5	--	--			
15...	0959			225	1040	7.8	14.0	5.5	330			
15...	1005			275	1040	7.7	13.5	5.6	330			
15...	1011			283	1040	8.0	13.5	5.7	330			
15...	1014			300	1040	--	13.5	--	--			
15...	1017			325	1040	8.0	13.5	5.7	330			
15...	1020			350	1050	--	13.5	--	--			
15...	1023			375	1050	7.9	13.5	4.8	330			
15...	1029			400	1060	--	13.0	--	--			
15...	1035			425	1060	7.8	13.0	4.0	330			
15...	1042			450	1060	--	13.0	--	--			
15...	1050			475	1060	7.7	13.0	1.7	330			
15...	1115			485	1060	7.8	13.0	4.3	330			
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)	
DEC												
15...	0850	.00	--	--	--	--	--	140	.00	120	--	
15...	0935	10.0	83	32	100	2.4	5.0	140	.00	110	310	
15...	0939	25.0	--	--	--	--	--	140	.00	120	--	
15...	0946	75.0	--	--	--	--	--	140	.00	120	--	
15...	0952	125	--	--	--	--	--	140	.00	120	--	
15...	0956	175	83	30	96	2.3	4.0	150	.00	120	280	
15...	0959	225	--	--	--	--	--	150	.00	130	--	
15...	1005	275	83	30	99	2.4	4.0	150	.00	120	290	
15...	1011	283	--	--	--	--	--	150	.00	130	--	
15...	1017	325	--	--	--	--	--	160	.00	130	--	
15...	1023	375	--	--	--	--	--	160	.00	130	--	
15...	1050	475	84	30	95	2.3	4.0	160	.00	130	280	
15...	1115	485	--	--	--	--	--	160	.00	130	--	
DATE	TIME	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)
DEC												
15...	90	--	--	--	--	--	--	--	--	--	--	--
15...	90	.4	8.1	693	.25	<.020	.28	<.070	.59	.87	<.010	--
15...	91	--	--	--	--	--	--	--	--	--	--	--
15...	90	--	--	--	--	--	--	--	--	--	--	--
15...	89	--	--	--	--	--	--	--	--	--	--	--
15...	85	.4	8.2	669	.40	--	--	--	--	--	--	--
15...	82	--	--	--	--	--	--	--	--	--	--	--
15...	86	.3	8.6	682	.31	--	--	--	--	--	--	--
15...	82	--	--	--	--	--	--	--	--	--	--	--
15...	82	--	--	--	--	--	--	--	--	--	--	--
15...	82	--	--	--	--	--	--	--	--	--	--	--
15...	83	--	--	--	--	--	--	--	--	--	--	--
15...	84	.3	8.8	672	.38	--	--	--	--	--	--	--
15...	84	--	--	--	--	<.020	.40	<.070	.56	.96	.060	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)						
DATE	TIME												
FEB													
26...	0900	.00	1060	8.0	14.0	10.5	330						
26...	0910	5.00	1060	--	14.0	--	--						
26...	0920	10.0	1070	8.0	14.0	10.1	330						
26...	0922	15.0	1070	--	13.5	--	--						
26...	0923	20.0	1070	--	13.5	--	--						
26...	0925	25.0	1070	7.8	13.0	9.9	330						
26...	0926	30.0	1080	--	13.0	--	--						
26...	0927	40.0	1080	--	13.0	--	--						
26...	0928	50.0	1080	--	13.0	--	--						
26...	0929	60.0	1080	--	13.0	--	--						
26...	0930	75.0	1080	7.9	13.0	9.0	330						
26...	0932	80.0	1080	--	13.0	--	--						
26...	0933	90.0	1080	--	12.5	--	--						
26...	0934	100	1090	--	12.5	--	--						
26...	0935	125	1090	7.8	12.5	9.0	330						
26...	0936	150	1090	--	12.5	--	--						
26...	0937	175	1090	7.8	12.5	8.7	330						
26...	0939	200	1080	--	12.5	--	--						
26...	0940	225	1090	7.8	12.5	8.7	330						
26...	0950	250	1090	--	12.5	--	--						
26...	1000	275	1090	7.8	12.5	8.7	330						
26...	1008	292	1090	7.7	12.5	8.5	330						
26...	1011	300	1100	--	12.5	--	--						
26...	1015	325	1100	7.8	12.0	8.5	330						
26...	1018	350	1100	--	12.0	--	--						
26...	1022	375	1100	7.7	12.0	8.5	340						
26...	1026	400	1100	--	12.0	--	--						
26...	1030	425	1100	7.7	12.0	8.5	330						
26...	1035	450	1100	--	12.0	--	--						
26...	1040	475	1110	7.7	12.0	8.2	340						
26...	1230	488	1110	--	12.0	8.1	340						
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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
FEB													
26...	0900	.00	--	--	--	--	--	150	.00	120	--	86	
26...	0920	10.0	83	30	100	2.4	5.0	150	.00	120	290	86	
26...	0925	25.0	--	--	--	--	--	150	.00	120	--	86	
26...	0930	75.0	--	--	--	--	--	150	.00	120	--	86	
26...	0935	125	--	--	--	--	--	150	.00	130	--	86	
26...	0937	175	--	--	--	--	--	150	.00	120	--	86	
26...	0940	225	--	--	--	--	--	150	.00	120	--	85	
26...	1000	275	--	--	--	--	--	150	.00	120	--	87	
26...	1008	292	--	--	--	--	--	150	.00	120	--	87	
26...	1015	325	--	--	--	--	--	150	.00	120	--	87	
26...	1022	375	85	30	100	2.4	5.0	150	.00	120	290	90	
26...	1030	425	--	--	--	--	--	160	.00	130	--	88	
26...	1040	475	--	--	--	--	--	150	.00	130	--	89	
26...	1230	488	--	--	--	--	--	150	.00	130	--	89	

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)
FEB											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.4	8.8	680	.26	<.020	.23	<.060	.03	.37	.60	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.3	8.6	689	.33	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	<.020	.29	<.060	--	.42	.71	<.010

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)			
DATE	TIME								
MAR									
30...	0900	.00	1060	14.0	9.0	330			
30...	0917	5.00	1060	14.0	--	--			
30...	0935	10.0	1060	14.0	8.9	330			
30...	0936	20.0	1080	13.5	--	--			
30...	0937	25.0	1080	13.5	8.9	330			
30...	0938	40.0	1080	13.5	--	--			
30...	0939	60.0	1080	13.0	--	--			
30...	0940	75.0	1090	13.0	8.9	330			
30...	0941	90.0	1090	13.0	--	--			
30...	0942	100	1090	13.0	--	--			
30...	0943	125	1090	13.0	8.4	330			
30...	0944	150	1090	13.0	--	--			
30...	0945	175	1080	12.0	8.2	330			
30...	0946	200	1080	12.0	--	--			
30...	0948	225	1060	12.0	8.3	330			
30...	0949	250	1060	12.0	--	--			
30...	0950	275	1060	12.0	8.4	330			
30...	0955	292	1060	11.5	8.3	330			
30...	0958	300	1060	11.5	--	--			
30...	1000	325	1060	11.5	8.3	330			
30...	1002	350	1060	11.5	--	--			
30...	1003	375	1060	11.5	8.3	320			
30...	1006	400	1060	11.5	--	--			
30...	1010	425	1060	11.5	8.4	320			
30...	1017	450	1060	11.5	--	--			
30...	1025	475	1060	11.5	8.3	320			
30...	1130	488	1060	11.5	8.3	320			
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)	
MAR									
30...	0900	.00	--	--	--	--	--	160	
30...	0935	10.0	81	32	98	2.3	5.0	150	
30...	0937	25.0	--	--	--	--	--	150	
30...	0940	75.0	--	--	--	--	--	150	
30...	0943	125	--	--	--	--	--	150	
30...	0945	175	--	--	--	--	--	160	
30...	0948	225	82	30	98	2.4	4.0	160	
30...	0950	275	--	--	--	--	--	160	
30...	0955	292	--	--	--	--	--	160	
30...	1000	325	--	--	--	--	--	160	
30...	1003	375	--	--	--	--	--	160	
30...	1010	425	--	--	--	--	--	160	
30...	1025	475	82	28	98	2.4	4.0	160	
30...	1130	488	--	--	--	--	--	160	
DATE	TIME	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)
MAR									
30...	.00	130	--	87	--	--	--	--	--
30...	.00	120	290	87	.3	8.5	681	.27	--
30...	.00	130	--	87	--	--	--	--	--
30...	.00	130	--	87	--	--	--	--	--
30...	.00	130	--	87	--	--	--	--	--
30...	.00	130	--	86	--	--	--	--	--
30...	.00	130	280	85	.3	8.6	673	.26	--
30...	.00	130	--	85	--	--	--	--	--
30...	.00	130	--	85	--	--	--	--	--
30...	.00	130	--	85	--	--	--	--	--
30...	.00	130	--	84	--	--	--	--	--
30...	.00	130	--	85	--	--	--	--	--
30...	.00	130	280	84	.3	8.6	669	.26	--
30...	.00	130	--	84	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
MAY							
10...	0835	.00	1060	8.2	18.0	9.4	330
10...	0845	5.00	1070	--	18.0	--	--
10...	0855	10.0	1080	8.2	17.5	9.4	330
10...	0857	15.0	1080	--	17.5	--	--
10...	0858	20.0	1080	--	17.0	--	--
10...	0900	25.0	1080	8.2	17.0	9.1	330
10...	0901	30.0	1080	--	17.0	--	--
10...	0902	40.0	1080	--	17.0	--	--
10...	0903	50.0	1060	--	16.0	--	--
10...	0904	60.0	1080	--	15.0	--	--
10...	0905	70.0	1080	--	15.0	--	--
10...	0906	75.0	1080	8.0	14.5	9.1	330
10...	0907	80.0	1080	--	14.5	--	--
10...	0908	90.0	1080	--	14.5	--	--
10...	0909	100	1080	--	14.0	--	--
10...	0910	125	1080	8.0	14.0	8.8	330
10...	0911	150	1080	--	14.0	--	--
10...	0912	175	1080	8.0	14.0	8.6	330
10...	0913	200	1070	--	13.5	--	--
10...	0915	225	1070	7.9	13.0	8.6	330
10...	0925	250	1070	--	13.0	--	--
10...	0935	275	1060	7.6	13.0	8.3	320
10...	0943	288	1060	7.9	12.0	8.6	330
10...	0946	300	1060	--	12.0	--	--
10...	0950	325	1060	7.9	12.0	8.4	330
10...	0953	350	1060	--	11.5	--	--
10...	0957	375	1060	7.9	11.5	8.5	320
10...	1001	400	1060	--	11.5	--	--
10...	1005	425	1060	7.9	11.5	8.3	320
10...	1010	450	1060	--	11.5	--	--
10...	1015	475	1060	7.9	11.5	8.3	320
10...	1215	485	1060	7.9	11.5	8.3	320

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								
10...	0835	.00	--	--	--	--	--	150
10...	0855	10.0	85	30	100	2.4	5.0	150
10...	0900	25.0	--	--	--	--	--	160
10...	0906	75.0	--	--	--	--	--	160
10...	0910	125	--	--	--	--	--	160
10...	0912	175	--	--	--	--	--	160
10...	0915	225	--	--	--	--	--	160
10...	0935	275	83	28	97	2.4	4.0	150
10...	0943	288	--	--	--	--	--	150
10...	0950	325	--	--	--	--	--	160
10...	0957	375	--	--	--	--	--	150
10...	1005	425	--	--	--	--	--	150
10...	1015	475	--	--	--	--	--	160
10...	1215	485	--	--	--	--	--	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)
MAY								
10...	.00	120	--	87	--	--	--	--
10...	.00	130	290	88	.3	8.4	682	.25
10...	.00	130	--	85	--	--	--	--
10...	.00	130	--	85	--	--	--	--
10...	.00	130	--	85	--	--	--	--
10...	.00	130	--	86	--	--	--	--
10...	.00	130	--	84	--	--	--	--
10...	.00	120	280	86	.3	8.5	662	.31
10...	.00	130	--	85	--	--	--	--
10...	.00	130	--	85	--	--	--	--
10...	.00	130	--	83	--	--	--	--
10...	.00	120	--	85	--	--	--	--
10...	.00	130	--	83	--	--	--	--
10...	.00	130	--	83	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)		
DATE	TIME								
MAY									
26...	1000	.00	1060	8.5	22.0	9.0	330		
26...	1006	5.00	1070	--	21.0	--	--		
26...	1012	10.0	1070	8.5	21.0	9.3	330		
26...	1013	15.0	1080	--	20.5	--	--		
26...	1014	20.0	1080	--	20.0	--	--		
26...	1015	25.0	1080	8.5	19.5	9.3	330		
26...	1016	30.0	1090	--	19.0	--	--		
26...	1017	40.0	1050	--	18.5	--	--		
26...	1018	50.0	1030	--	18.0	--	--		
26...	1019	60.0	1020	--	17.0	--	--		
26...	1020	75.0	1040	8.2	16.0	9.0	330		
26...	1021	100	1060	--	15.0	--	--		
26...	1022	125	1060	8.2	14.5	8.3	330		
26...	1023	150	1060	--	14.0	--	--		
26...	1025	175	1060	8.1	13.5	8.3	320		
26...	1027	200	1060	--	13.0	--	--		
26...	1030	225	1060	8.1	13.0	8.0	320		
26...	1031	250	1060	--	13.0	--	--		
26...	1033	275	1050	8.1	12.0	8.0	330		
26...	1037	287	1050	8.1	12.0	8.0	320		
26...	1040	300	1050	--	12.0	--	--		
26...	1042	325	1050	8.1	12.0	7.9	320		
26...	1043	350	1050	--	11.5	--	--		
26...	1045	375	1060	8.1	11.5	7.8	320		
26...	1049	400	1060	--	11.5	--	--		
26...	1053	425	1060	8.0	11.5	7.7	320		
26...	1056	450	1060	--	11.5	--	--		
26...	1100	475	1060	8.0	11.5	7.6	320		
26...	1400	480	1070	8.0	11.5	7.6	320		
		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)	
DATE	TIME								
MAY									
26...	1000	.00	--	--	--	--	--	140	
26...	1012	10.0	--	--	--	--	--	140	
26...	1015	25.0	84	28	100	2.4	4.0	150	
26...	1020	75.0	--	--	--	--	--	160	
26...	1022	125	--	--	--	--	--	160	
26...	1025	175	--	--	--	--	--	160	
26...	1030	225	--	--	--	--	--	160	
26...	1033	275	--	--	--	--	--	160	
26...	1037	287	--	--	--	--	--	160	
26...	1042	325	--	--	--	--	--	160	
26...	1045	375	--	--	--	--	--	160	
26...	1053	425	--	--	--	--	--	160	
26...	1100	475	82	27	96	2.4	4.0	160	
26...	1400	480	--	--	--	--	--	160	
		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)	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)
DATE	TIME								
MAY									
26...	4.0	120	--	88	--	--	--	--	--
26...	4.0	120	--	88	--	--	--	--	--
26...	2.0	130	290	90	.3	8.6	680	.24	--
26...	.00	130	--	87	--	--	--	--	--
26...	.00	130	--	86	--	--	--	--	--
26...	.00	130	--	86	--	--	--	--	--
26...	.00	130	--	86	--	--	--	--	--
26...	.00	130	--	85	--	--	--	--	--
26...	.00	130	--	84	--	--	--	--	--
26...	.00	130	--	84	--	--	--	--	--
26...	.00	130	--	84	--	--	--	--	--
26...	.00	130	--	84	--	--	--	--	--
26...	.00	130	270	84	.3	8.6	652	.16	--
26...	.00	130	--	84	--	--	--	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CaCO3)
JUN							
24...	1030	.00	1040	8.3	24.0	9.5	320
24...	1035	5.00	1040	--	24.5	--	--
24...	1040	10.0	1050	8.3	23.5	9.8	320
24...	1041	25.0	1060	8.5	23.0	9.8	320
24...	1042	40.0	1050	--	23.0	--	--
24...	1043	50.0	1020	--	22.0	--	--
24...	1044	60.0	1000	--	21.5	--	--
24...	1045	75.0	1000	8.3	20.0	7.8	330
24...	1046	100	1000	--	18.0	--	--
24...	1047	125	1010	8.2	16.5	7.8	330
24...	1048	150	1020	--	15.5	--	--
24...	1049	175	1040	8.2	15.0	7.5	330
24...	1050	200	1040	--	14.5	--	--
24...	1052	225	1050	8.2	14.0	7.4	330
24...	1053	250	1050	--	13.5	--	--
24...	1055	275	1040	8.2	13.5	7.3	330
24...	1100	286	1040	8.1	13.0	7.3	330
24...	1102	300	1040	--	13.0	--	--
24...	1104	325	1040	8.1	12.0	7.3	330
24...	1107	350	1040	--	12.0	--	--
24...	1110	375	1040	8.1	12.0	7.3	330
24...	1112	400	1050	--	12.0	--	--
24...	1115	425	1050	8.1	11.5	7.3	330
24...	1145	450	1060	--	11.5	--	--
24...	1220	475	1060	8.1	11.5	6.1	330
24...	1300	485	1060	8.1	11.5	6.1	330

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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN												
24...	1030	.00	--	--	--	--	--	140	1.0	110	--	89
24...	1040	10.0	81	29	100	2.4	4.0	140	1.0	110	300	89
24...	1041	25.0	--	--	--	--	--	--	--	110	--	88
24...	1045	75.0	--	--	--	--	--	150	.00	120	--	87
24...	1047	125	85	28	100	2.4	4.0	150	.00	120	290	86
24...	1049	175	--	--	--	--	--	150	.00	120	--	85
24...	1052	225	--	--	--	--	--	150	.00	120	--	86
24...	1055	275	85	28	100	2.4	4.0	150	.00	130	290	84
24...	1100	286	--	--	--	--	--	150	.00	130	--	84
24...	1104	325	--	--	--	--	--	160	.00	130	--	84
24...	1110	375	--	--	--	--	--	160	.00	130	--	83
24...	1115	425	--	--	--	--	--	160	.00	130	--	83
24...	1220	475	--	--	--	--	--	150	.00	130	--	84
24...	1300	485	--	--	--	--	--	150	.00	130	--	84

[illegible]

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)		
DATE	TIME								
AUG									
02...	0953	.00	1040	8.3	28.0	9.6	320		
02...	1010	5.00	1060	--	26.0	--	--		
02...	1030	10.0	1080	8.4	25.5	8.1	320		
02...	1031	20.0	1080	--	25.0	--	--		
02...	1032	25.0	1080	8.5	24.5	8.1	320		
02...	1033	75.0	1010	8.3	23.0	7.5	330		
02...	1034	100	990	--	20.0	--	--		
02...	1035	125	980	8.1	18.5	6.5	330		
02...	1036	175	1020	8.1	15.5	7.0	330		
02...	1038	200	1040	--	14.5	--	--		
02...	1040	225	1040	8.0	14.0	7.1	330		
02...	1042	250	1040	--	14.0	--	--		
02...	1044	275	1050	8.1	13.5	6.8	330		
02...	1048	286	1060	7.9	13.0	6.8	330		
02...	1050	300	1060	--	13.0	--	--		
02...	1052	325	1060	8.0	13.0	6.8	330		
02...	1054	350	1060	--	12.5	--	--		
02...	1057	375	1060	8.0	12.0	6.7	330		
02...	1059	400	1060	--	12.0	--	--		
02...	1102	425	1070	7.9	12.0	6.4	320		
02...	1105	450	1080	--	12.0	--	--		
02...	1107	475	1080	7.8	12.0	5.6	320		
02...	1250	482	1070	8.0	12.0	5.6	320		
		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)	
DATE	TIME								
AUG									
02...	0953	.00	--	--	--	--	--	140	
02...	1030	10.0	81	30	100	2.4	5.0	--	
02...	1032	25.0	--	--	--	--	--	--	
02...	1033	75.0	--	--	--	--	--	150	
02...	1035	125	--	--	--	--	--	150	
02...	1036	175	--	--	--	--	--	160	
02...	1040	225	--	--	--	--	--	160	
02...	1044	275	84	30	95	2.3	4.0	160	
02...	1048	286	--	--	--	--	--	160	
02...	1052	325	--	--	--	--	--	160	
02...	1057	375	--	--	--	--	--	160	
02...	1102	425	--	--	--	--	--	160	
02...	1107	475	--	--	--	--	--	150	
02...	1250	482	--	--	--	--	--	150	
		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)
DATE	TIME								
AUG									
02...	.00	110	--	90	--	--	--	--	--
02...	--	110	290	90	.3	8.8	674	.12	--
02...	--	110	--	89	--	--	--	--	--
02...	.00	120	--	88	--	--	--	--	--
02...	.00	120	--	86	--	--	--	--	--
02...	.00	130	--	85	--	--	--	--	--
02...	.00	130	--	84	--	--	--	--	--
02...	.00	130	290	85	.3	8.8	672	.33	--
02...	.00	130	--	84	--	--	--	--	--
02...	.00	130	--	83	--	--	--	--	--
02...	.00	130	--	84	--	--	--	--	--
02...	.00	130	--	83	--	--	--	--	--
02...	.00	120	--	85	--	--	--	--	--
02...	.00	120	--	85	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
SEP							
28...	0805	.00	1160	8.5	22.0	7.5	320
28...	0811	5.00	1120	--	24.0	--	--
28...	0817	10.0	1100	8.5	24.5	7.4	320
28...	0823	15.0	1100	--	24.5	--	--
28...	0829	20.0	1100	--	25.0	--	--
28...	0835	25.0	1100	8.5	25.0	7.5	320
28...	0841	30.0	1100	--	25.0	--	--
28...	0846	40.0	1060	--	25.0	--	--
28...	0853	50.0	1040	--	24.0	--	--
28...	0859	60.0	1030	--	23.0	--	--
28...	0906	70.0	1030	--	22.0	--	--
28...	0913	75.0	1020	8.0	21.5	6.2	330
28...	0920	80.0	1020	--	21.0	--	--
28...	0927	90.0	1020	--	20.0	--	--
28...	0934	100	1010	--	19.0	--	--
28...	0941	125	1040	7.8	17.0	5.2	330
28...	0948	150	1020	--	16.5	--	--
28...	0955	175	1020	7.9	15.5	6.2	330
28...	1002	200	1050	--	14.0	--	--
28...	1009	225	1050	8.0	14.0	6.7	330
28...	1016	250	1060	--	13.5	--	--
28...	1023	275	1060	7.9	13.0	6.7	330
28...	1030	288	1060	7.9	13.0	6.7	330
28...	1035	300	1060	--	12.5	--	--
28...	1042	325	1060	8.0	12.5	6.2	330
28...	1049	350	1060	--	12.0	--	--
28...	1056	375	1060	8.0	12.0	6.0	330
28...	1103	400	1060	--	12.0	--	--
28...	1110	425	1060	7.9	12.0	5.8	330
28...	1117	450	1060	--	12.0	--	--
28...	1124	475	1070	7.8	12.0	3.9	330
28...	1130	482	1070	7.6	12.0	4.1	330

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)
SEP								
28...	0805	.00	--	--	--	--	--	--
28...	0817	10.0	78	30	100	2.4	4.7	--
28...	0835	25.0	--	--	--	--	--	--
28...	0913	75.0	--	--	--	--	--	150
28...	0941	125	84	30	100	2.4	4.3	--
28...	0955	175	--	--	--	--	--	160
28...	1009	225	--	--	--	--	--	150
28...	1023	275	83	30	100	2.4	4.2	--
28...	1030	288	--	--	--	--	--	150
28...	1042	325	--	--	--	--	--	150
28...	1056	375	--	--	--	--	--	160
28...	1110	425	--	--	--	--	--	150
28...	1124	475	83	29	99	2.4	4.1	160
28...	1130	482	--	--	--	--	--	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)
SEP								
28...	--	100	--	--	--	--	--	--
28...	--	100	300	95	.3	8.5	686	.05
28...	--	100	--	--	--	--	--	--
28...	.00	120	--	--	--	--	--	--
28...	--	120	300	86	.3	8.6	693	.38
28...	.00	130	--	--	--	--	--	--
28...	.00	120	--	--	--	--	--	--
28...	--	130	290	84	.3	8.6	680	.31
28...	.00	130	--	--	--	--	--	--
28...	.00	130	--	--	--	--	--	--
28...	.00	130	--	--	--	--	--	--
28...	.00	120	--	--	--	--	--	--
28...	.00	130	280	84	.3	9.2	672	.19
28...	.00	130	--	--	--	--	--	--

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW¼ NE¼ 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 (444,700 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

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

GAGE.--Acoustical velocity meters on each turbine in Hoover Dam. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi (14 km) downstream at datum 594.8 ft (181.30 m) National Geodetic Vertical Datum of 1929. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 600.35 ft (182.987 m) 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.--48 years (water years 1935-82), 13,100 ft³/s (371.0 m³/s), 9,491,000 acre-ft/yr (11,700 hm³/yr), unadjusted for storage in Lake Mead.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36,000 ft³/s (1,020 m³/s) Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily, 152 ft³/s (4.30 m³/s) Feb. 10, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,200 ft³/s (657 m³/s) Apr. 27; minimum daily, 1,390 ft³/s (39.4 m³/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9700	1690	10200	7060	8370	17300	20300	9530	8100	12200	7210	13600
2	8300	5960	6490	7300	7850	15600	17800	6800	7320	11000	13200	13500
3	2770	7720	4590	6230	11300	15200	12300	13800	8020	8700	16100	13400
4	2810	8680	7450	7340	11200	14400	8160	12300	13300	8230	13100	7470
5	14800	6810	4130	8590	11300	15600	17900	14100	8100	8440	17200	6360
6	13200	7260	4090	8630	8010	9300	20000	16600	7470	12300	12200	4960
7	12500	2770	7030	10300	5400	7220	20300	12000	6870	13400	8910	7230
8	10100	3310	9150	6500	12600	17100	20600	8800	7500	13100	7140	8520
9	6470	6980	7420	5400	12300	16000	16500	5270	9680	13600	14700	9960
10	3700	6930	6790	4400	15000	16800	17000	12100	13900	7930	12700	9390
11	2750	6450	5650	8630	9070	16700	15500	13600	13000	9410	12900	5850
12	4010	9120	5810	9910	9830	14800	20700	18200	6030	14100	12900	4720
13	4220	8340	4440	12600	6310	7890	20400	20000	6990	13500	12200	5870
14	7730	2190	9000	9090	6750	7710	19700	22600	12600	14800	8260	6110
15	9200	1940	7690	6650	10000	14700	19400	14700	13100	13600	8640	5740
16	6280	7980	7060	3510	9190	15900	21500	11600	14800	15200	13000	6210
17	2610	7100	12400	4120	11500	10200	11400	19900	12500	6580	13300	6600
18	3720	8690	13900	8230	13000	3740	8480	13200	14800	9670	13300	4550
19	9050	12500	6420	8770	13300	3190	17900	14600	9020	15300	17000	4430
20	9240	12100	2870	13200	7160	2190	21500	18900	7840	15100	16500	7490
21	5200	2740	5310	10000	4590	1810	21300	16500	13900	14000	12400	7030
22	3950	1610	4590	9110	8940	6500	21300	10600	12700	13000	8880	13500
23	4490	9600	4040	5090	10500	14300	18300	9110	14800	13100	11700	11400
24	1690	9570	4390	3230	12500	17100	11300	18300	13300	9410	12400	3980
25	2420	9210	4040	7370	12500	17900	8910	15000	13100	7780	15100	1550
26	4180	3150	3980	7260	12700	19500	18600	16200	9770	13900	15800	1390
27	5100	6820	3640	6460	9100	12000	23200	14300	5500	13800	12900	1560
28	7230	3360	6060	8680	6300	9630	21300	20700	14100	12200	8650	1680
29	5350	4820	6380	10500	---	20600	19600	9740	11300	13000	8600	1810
30	5310	10200	7710	6000	---	18500	14400	7640	10800	14200	14700	2710
31	3200	---	7540	3240	---	20000	---	8460	---	10200	13800	---
TOTAL	191280	195600	200260	233400	276570	399380	525550	425150	320210	370750	385390	198570
MEAN	6170	6520	6460	7529	9878	12880	17520	13710	10670	11960	12430	6619
MAX	14800	12500	13900	13200	15000	20600	23200	22600	14800	15300	17200	13600
MIN	1690	1610	2870	3230	4590	1810	8160	5270	5500	6580	7140	1390
AC-FT	379400	388000	397200	462900	548600	792200	1042000	843300	635100	735400	764400	393900
CAL YR 1981	TOTAL	4176210	MEAN	11440	MAX	23000	MIN	1610	AC-FT	8284000		
WTR YR 1982	TOTAL	3722110	MEAN	10200	MAX	23200	MIN	1390	AC-FT	7383000		

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 (0.5 km) 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 water temperature are due to probes which were not submerged and recorder which malfunctioned.

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

SPECIFIC CONDUCTANCES: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 1,000 micromhos June 19, 1972, Sept. 19, 1981, and Nov. 8, 1982.

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, 18.5°C April 21, 1970; 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, 1,120 micromhos May 31, June 3-8; minimum, 1,000 micromhos Nov. 8.

WATER TEMPERATURES: Maximum, 16.0°C Oct. 25, 26; minimum, 10.5°C June 3, 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 07...	1130	2770	1070	7.8	14.0	2.3	7.1	70	40	K4	K4
JAN 04...	1130	5690	1060	7.9	13.5	1.0	6.5	63	<12	<2	<2
MAR 09...	1245	22400	1100	8.1	12.5	.90	9.7	92	<12	K2	K2
MAY 07...	1130	16800	1060	8.0	13.0	.80	8.8	86	--	<2	K23
JUL 07...	1030	18500	1070	7.9	13.0	1.8	8.6	83	20	<2	K7
SEP 15...	1100	4120	1060	7.9	13.0	.50	8.5	80	<10	<2	<2

K: NON-IDEAL COLONY COUNT.

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HARD- NESS (MG/L AS CA CO3)	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 CA CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 07...	330	82	30	97	2.3	4.6	120	280	100	.5
JAN 04...	320	82	28	100	2.6	4.5	140	280	97	.4
MAR 09...	320	81	29	95	2.5	4.4	130	290	86	.4
MAY 07...	320	81	29	99	2.6	4.9	130	300	91	.4
JUL 07...	330	83	29	98	2.6	4.8	130	280	88	.3
SEP 15...	320	81	29	100	2.6	4.5	130	290	93	.3

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	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)
NOV 07...	10	709	680	5300	.39	.030	.39	.040	.010	.020
JAN 04...	9.7	703	686	10800	.37	<.070	.43	.020	.020	.030
MAR 09...	8.8	719	673	43500	.24	.050	.40	.010	<.010	<.020
MAY 07...	8.4	711	692	32300	.31	.080	.48	<.010	<.010	.020
JUL 07...	8.8	711	670	35500	.33	<.060	.40	.020	<.010	<.010
SEP 15...	8.9	714	683	7940	.34	<.060	--	.010	.040	.020

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 07...	6	5	100	110	<1	<1	10	<10	2	<3
JAN 04...	--	--	--	--	--	--	--	--	--	--
MAR 09...	5	4	100	110	<1	<1	10	<10	<1	2
MAY 07...	5	3	100	110	1	<3	10	<10	1	<1
JUL 07...	--	--	--	--	--	--	--	--	--	--
SEP 15...	3	3	200	110	<1	<1	<10	<10	<1	1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)
NOV 07...	5	1	--	--	4	2	20	5	.2	<.1
JAN 04...	--	--	--	--	--	--	--	--	--	--
MAR 09...	7	2	30	<10	4	3	10	2	1.1	.5
MAY 07...	12	2	<10	10	5	<1	10	<3	.2	<.1
JUL 07...	--	--	--	--	--	--	--	--	--	--
SEP 15...	2	1	40	<3	4	<1	10	<1	.1	<.1

COLORADO RIVER MAIN STEM

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WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 07...	4	1	3	3	1	<1	20	8	2	15
JAN 04...	--	--	--	--	--	--	--	--	2	31
MAR 09...	--	4	3	3	<1	<1	20	<3	<1	--
MAY 07...	6	1	3	4	<1	<1	20	<12	--	--
JUL 07...	--	--	--	--	--	--	--	--	24	1200
SEP 15...	2	3	3	3	<1	1	20	6	5	56

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	12.0	---	---	14.5	14.0	14.5	13.5	13.5	12.5	13.0	12.0
2	13.0	12.0	14.5	13.5	14.5	14.0	14.5	14.0	13.5	13.0	12.5	12.0
3	---	---	14.0	13.5	14.5	14.0	14.5	14.0	13.0	12.5	12.5	12.0
4	---	---	14.0	13.5	14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.0
5	---	---	14.5	13.5	14.5	14.0	13.5	13.5	13.0	12.5	12.5	12.5
6	12.5	12.0	14.5	13.0	15.0	14.0	14.0	13.5	13.0	12.5	13.0	12.0
7	12.5	12.0	15.0	13.5	14.5	14.0	14.5	13.5	13.0	12.5	12.5	12.5
8	12.5	12.0	14.5	13.0	14.5	14.0	14.5	14.0	13.0	12.5	12.5	12.0
9	14.0	13.5	14.5	13.5	14.5	14.0	14.5	13.5	13.0	12.5	12.5	12.5
10	14.0	13.5	14.0	13.0	14.5	14.0	14.5	13.5	13.0	12.5	13.0	12.0
11	---	---	14.0	13.5	14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.0
12	---	---	14.5	13.5	14.5	14.0	14.0	13.5	12.5	12.5	12.5	12.5
13	---	---	14.0	13.5	15.0	14.0	14.0	13.5	13.0	12.5	13.0	12.5
14	---	---	---	---	14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.0
15	---	---	15.0	13.5	14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.0
16	---	---	14.5	13.5	14.5	14.0	14.0	13.5	13.0	12.5	12.5	12.0
17	---	---	14.5	12.5	14.5	14.0	14.5	13.5	13.0	12.5	12.5	12.0
18	---	---	14.5	13.5	14.0	14.0	13.5	13.0	13.0	12.5	12.5	12.0
19	---	---	15.0	13.5	14.5	14.0	13.5	13.0	12.5	12.5	13.0	12.0
20	---	---	14.0	13.5	14.5	14.0	13.5	13.0	13.0	12.5	13.0	12.0
21	---	---	---	---	14.5	14.0	13.5	13.0	13.0	12.5	12.5	11.5
22	---	---	---	---	14.5	14.0	13.5	12.5	13.0	12.5	12.0	11.5
23	---	---	14.5	14.0	14.5	14.0	13.5	13.0	12.5	12.5	12.0	12.0
24	---	---	14.5	14.0	14.5	14.0	14.0	13.0	13.0	12.5	12.5	12.0
25	16.0	13.5	14.5	14.0	14.5	14.0	13.5	13.0	12.5	12.5	12.5	12.0
26	16.0	13.5	15.0	14.0	14.5	14.0	13.5	13.0	12.5	12.5	12.5	12.0
27	14.5	13.5	14.5	14.0	14.5	14.0	13.5	13.0	12.5	12.5	12.5	12.0
28	14.5	13.5	14.5	13.0	14.5	14.0	13.0	13.0	13.0	12.5	12.5	12.0
29	14.5	13.5	14.5	13.5	14.0	13.5	13.5	12.5	---	---	12.5	11.5
30	14.5	13.5	14.5	13.5	14.0	13.5	13.5	13.0	---	---	12.5	11.5
31	14.5	13.5	---	---	14.5	14.0	13.5	13.0	---	---	12.5	12.0
MONTH	16.0	12.0	15.0	12.5	15.0	13.5	14.5	12.5	13.5	12.5	13.0	11.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	12.0	13.5	12.5	11.5	11.0	13.5	12.5				
2	12.5	12.0	13.5	12.5	11.5	11.0	13.5	12.5				
3	12.5	12.5	13.5	12.5	11.5	10.5	13.0	12.5				
4	13.0	12.5	13.0	12.5	11.5	10.5	13.0	12.5				
5	12.5	12.5	13.5	12.5	---	---	13.5	12.5				
6	12.5	12.0	13.0	12.5	---	---	13.0	12.5				
7	12.0	11.5	13.0	12.5	---	---	13.0	13.0				
8	12.5	12.0	13.5	12.5	---	---	---	---				
9	12.5	12.0	13.0	12.0	---	---	---	---				
10	12.5	12.0	13.0	12.0	---	---	---	---				
11	12.5	12.0	12.5	12.0	---	---	---	---				
12	12.5	12.0	12.5	11.5	---	---	---	---				
13	12.5	12.0	12.5	12.0	---	---	---	---				
14	12.5	12.0	12.5	12.0	---	---	---	---				
15	12.5	12.0	12.5	12.0	---	---	---	---				
16	12.5	12.0	12.5	12.0	13.0	12.5	---	---				
17	12.5	12.0	12.0	12.0	13.0	12.5	---	---				
18	13.0	12.5	12.5	11.5	13.0	12.5	---	---				
19	12.5	12.0	12.0	11.5	13.0	12.5	---	---				
20	13.0	12.0	12.0	11.5	13.0	12.5	---	---				
21	12.5	12.0	12.0	11.5	13.0	12.5	---	---				
22	12.5	12.0	12.0	11.5	13.0	12.5	---	---				
23	13.0	12.5	12.0	11.5	13.0	12.5	---	---				
24	13.0	12.5	12.0	11.5	13.0	12.5	---	---				
25	13.0	12.5	12.0	11.5	13.0	12.5	---	---				
26	13.0	12.5	12.0	11.5	13.5	12.5	---	---				
27	13.0	12.5	12.0	11.0	13.5	12.5	---	---				
28	13.0	12.5	12.0	11.0	13.0	12.5	---	---				
29	13.5	12.5	11.5	11.0	13.0	12.5	---	---				
30	13.0	12.5	11.5	11.0	13.0	12.5	---	---				
31	---	---	11.5	11.0	---	---	---	---				
MONTH	13.5	11.5	13.5	11.0	13.5	10.5	13.5	12.5				
YEAR	16.0	10.5										

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1070	1060	---	---	1060	1050	1070	1040	1100	1090	1090	1080
2	1070	1060	---	---	1060	1060	1070	1060	1090	1090	1090	1080
3	1070	1050	1050	1040	1070	1060	1070	1050	1090	1090	1090	1080
4	---	---	1050	1030	1070	1060	1050	1040	1100	1090	1090	1080
5	1070	1060	1050	1040	1070	1060	1040	1040	1100	1090	1090	1080
6	1070	1060	1050	1040	1070	1060	1070	1040	1090	1090	1090	1070
7	1070	1060	1060	1020	1070	1060	1080	1070	1090	1090	1080	1070
8	1070	1060	1050	1000	1070	1060	1080	1070	1090	1090	1080	1080
9	1070	1060	1050	1020	1070	1060	1080	1060	1090	1090	1090	1080
10	1070	1060	1050	1030	1070	1060	1080	1060	1100	1090	1090	1080
11	---	---	1050	1040	1070	1060	1080	1070	1090	1090	1090	1060
12	---	---	1050	1050	1060	1060	1080	1080	1090	1090	1090	1070
13	---	---	1050	1050	1060	1050	1090	1080	1100	1080	1090	1080
14	---	---	---	---	1070	1060	1080	1070	1090	1090	1080	1070
15	---	---	---	---	1060	1060	1080	1070	1100	1090	1080	1060
16	---	---	---	---	1070	1060	1080	1070	1090	1090	1090	1080
17	---	---	1070	1050	1060	1060	1080	1060	1100	1090	1090	1070
18	---	---	1050	1030	1060	1060	1070	1070	1090	1090	1080	1060
19	---	---	1060	1050	1060	1060	1080	1070	1100	1090	1080	1060
20	---	---	1060	1050	1060	1050	1080	1070	1090	1090	1080	1070
21	---	---	---	---	1060	1050	1090	1070	1100	1090	1070	1050
22	---	---	---	---	1060	1050	1080	1080	1100	1090	1060	1050
23	---	---	1050	1040	1060	1050	1080	1070	1100	1090	1070	1060
24	---	---	1060	1050	1050	1040	1090	1070	1100	1090	1080	1070
25	---	---	1060	1050	1050	1040	1080	1070	1090	1090	1080	1070
26	---	---	1060	1040	1050	1030	1090	1080	1100	1090	1080	1070
27	---	---	1060	1050	1040	1010	1090	1090	1100	1090	1080	1070
28	---	---	1070	1050	1040	1020	1090	1090	1100	1090	1080	1070
29	1050	1030	1060	1030	1060	1020	1090	1090	---	---	1090	1060
30	1060	1030	1070	1040	1060	1050	1090	1090	---	---	1080	1060
31	1070	1040	---	---	1060	1060	1090	1080	---	---	1080	1070
MONTH	1070	1030	1070	1000	1070	1010	1090	1040	1100	1080	1090	1050

[illegible]

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW¼SW¼ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi (47 km) west of Kingman, Ariz., and 67 mi (108 km) downstream from Hoover Dam.

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

PERIOD OF RECORD.--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 Jan. January 17, 1950. Usable capacity, 1,810,000 acre-ft (2,230 hm³) between altitudes 533.39 ft (162.577 m)--lowest point of penstock outlet--and 647.0 ft (197.21 m)--top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft (10.5 hm³) below altitude 533.39 ft (162.577 m). Lake is used for power development, re-regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft (2,230 hm³) May 24, 1958, May 29, 1963, and May 29, 1982; maximum altitude, 647.04 ft (197.218 m) May 29, 1963, May 29, 1982; minimum contents (since 1952), 1,168,000 acre-ft (1,440 hm³) Sept. 8, 1953, altitude, 622.15 ft (189.631 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,811,000 acre-ft (2,230 hm³) May 29, altitude 647.04 ft (197.218 m); minimum contents, 1,426,000 acre-ft (1,760 hm³) Sept. 30, altitude 632.66 ft (192.835 m).

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	648	1,838,000

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1476000	1443000	1534000	1575000	1642000	1630000	1677000	1709000	1778000	1665000	1506000	1574000
2	1479000	1437000	1538000	1578000	1640000	1639000	1682000	1705000	1773000	1659000	1504000	1584000
3	1471000	1441000	1539000	1575000	1643000	1654000	1668000	1703000	1769000	1644000	1508000	1587000
4	1462000	1445000	1542000	1576000	1647000	1666000	1665000	1698000	1769000	1633000	1509000	1579000
5	1476000	1449000	1541000	1583000	1655000	1674000	1659000	1706000	1757000	1622000	1511000	1571000
6	1489000	1450000	1538000	1594000	1644000	1671000	1661000	1715000	1749000	1616000	1504000	1556000
7	1504000	1446000	1542000	1605000	1635000	1668000	1670000	1717000	1740000	1620000	1491000	1548000
8	1514000	1442000	1549000	1604000	1637000	1675000	1682000	1712000	1769000	1619000	1478000	1548000
9	1518000	1444000	1553000	1599000	1645000	1678000	1683000	1704000	1744000	1619000	1475000	1554000
10	1508000	1446000	1558000	1595000	1661000	1680000	1682000	1704000	1745000	1606000	1475000	1557000
11	1495000	1450000	1560000	1599000	1669000	1684000	1694000	1712000	1741000	1599000	1472000	1552000
12	1485000	1454000	1559000	1611000	1678000	1689000	1696000	1727000	1724000	1598000	1470000	1547000
13	1480000	1457000	1557000	1625000	1678000	1699000	1697000	1743000	1711000	1597000	1468000	1538000
14	1481000	1449000	1562000	1631000	1677000	1699000	1695000	1760000	1705000	1599000	1464000	1534000
15	1486000	1442000	1567000	1634000	1678000	1721000	1696000	1761000	1707000	1597000	1462000	1531000
16	1484000	1446000	1572000	1626000	1682000	1744000	1703000	1763000	1715000	1596000	1470000	1529000
17	1475000	1450000	1585000	1623000	1680000	1747000	1696000	1766000	1716000	1577000	1475000	1519000
18	1468000	1460000	1599000	1625000	1684000	1744000	1690000	1765000	1717000	1570000	1486000	1509000
19	1472000	1473000	1601000	1630000	1688000	1728000	1692000	1769000	1704000	1567000	1504000	1504000
20	1477000	1485000	1595000	1639000	1680000	1706000	1697000	1785000	1693000	1564000	1516000	1502000
21	1475000	1479000	1600000	1650000	1667000	1691000	1701000	1788000	1692000	1563000	1514000	1500000
22	1475000	1474000	1599000	1654000	1658000	1675000	1709000	1780000	1693000	1558000	1507000	1516000
23	1468000	1483000	1598000	1651000	1652000	1672000	1711000	1774000	1698000	1549000	1504000	1519000
24	1463000	1494000	1596000	1639000	1647000	1675000	1699000	1777000	1698000	1538000	1504000	1504000
25	1456000	1506000	1591000	1634000	1651000	1679000	1691000	1785000	1693000	1527000	1523000	1497000
26	1451000	1504000	1583000	1634000	1651000	1683000	1688000	1796000	1686000	1525000	1538000	1486000
27	1448000	1510000	1577000	1634000	1643000	1674000	1697000	1794000	1670000	1523000	1548000	1468000
28	1454000	1508000	1579000	1639000	1629000	1674000	1708000	1806000	1665000	1522000	1544000	1452000
29	1457000	1511000	1577000	1651000	---	1674000	1717000	1800000	1664000	1522000	1541000	1440000
30	1458000	1525000	1580000	1648000	---	1674000	1719000	1787000	1668000	1526000	1551000	1426000
31	1452000	---	1578000	1643000	---	1673000	---	1782000	---	1519000	1562000	---
MAX	1518000	1525000	1601000	1654000	1688000	1747000	1719000	1806000	1778000	1665000	1562000	1587000
MIN	1448000	1437000	1534000	1575000	1629000	1630000	1659000	1698000	1664000	1519000	1462000	1426000
(+)	633.70	636.51	638.50	640.13	640.42	642.36	643.73	646.00	641.86	636.28	637.92	632.68
(‡)	-12000	+73000	+53000	+65000	-14000	+44000	+46000	+63000	-114000	-149000	+43000	-136000
CAL YR 1981	MAX	1777000	MIN	1390000	‡	-18000						
WTR YR 1982	MAX	1806000	MIN	1426000	‡	-38000						

+ Altitude, in feet, at end of month.

‡ Change in storage, in acre-feet.

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE¼NE¼ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, Hydrologic Unit 15030101, on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

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

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 (149.352 m), corrected, 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 (7.7 km) downstream at datum about 3.4 ft (1.04 m) lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 10.00 ft (3.048 m) higher. May 4, 1949, to Feb. 24, 1956 water-stage recorder at site 400 ft (120 m) upstream at datum (3.048 m) higher. Feb. 25, 1956, to Sept. 30, 1967, water-stage recorder at present site at datum 10.00 ft (3.048 m) 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.--33 years (water years 1950-82), 12,410 ft³/s (351.5 m³/s), 8,991,000 acre-ft/yr (11,100 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft³/s (3,290 m³/s) June 20, 1906; minimum daily, 2,850 ft³/s (80.7 m³/s) Jan. 5, 1906.
1949-82: Maximum discharge, 31,200 ft³/s (884 m³/s) Apr. 22, 1952, altitude, 513.91 ft (156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,600 ft³/s (725 m³/s) Apr. 14, altitude, 505.92 ft (154.204 m); minimum daily discharge, 2,200 ft³/s (62.3 m³/s) Mar. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4750	6830	4500	8260	7810	14800	19700	14200	9800	14000	13800	7160
2	6820	6620	4480	6420	8430	11600	15200	10200	9920	14100	14200	7840
3	6930	5830	4180	6700	8130	8150	20400	14000	10200	16800	13300	11500
4	7990	6590	5240	6770	11000	9080	10600	15700	12900	13900	13300	11600
5	7100	5590	5160	5010	8340	10900	20300	10700	14600	15100	15600	10600
6	5840	6170	5530	4520	11400	10900	20600	11700	11100	15100	16500	12500
7	5090	5400	5120	3590	10600	8960	15600	10700	11600	12200	16600	10600
8	5080	5790	4870	5980	11400	13200	15100	11600	7380	13800	13700	8280
9	7060	5870	5310	6500	8210	15300	16600	9740	7250	13900	15800	7020
10	7920	5450	4000	6020	8580	15300	17500	11900	13400	15100	13200	7030
11	8110	4990	4960	6780	5260	15600	9770	9120	14700	13700	14800	6990
12	8050	6060	5740	3930	5220	12500	20400	9310	16000	15100	14100	7050
13	7080	6740	6400	3480	6300	2380	21200	11800	13300	13800	13500	10700
14	7160	6970	5930	5840	7050	8290	21100	12800	16800	14000	9840	7870
15	6150	6220	5020	5440	9570	2200	20800	14500	12000	14900	9790	7420
16	7680	5550	5140	6950	9630	4300	17000	10800	11100	16400	9790	7970
17	7590	5960	4850	5150	11400	8360	16900	16600	12500	16900	9750	10700
18	7130	3990	6230	6700	11400	6980	12500	16400	14500	13600	7980	9800
19	6750	3920	5000	6170	11400	12500	16900	10300	15200	16900	8030	7030
20	6270	6000	5210	6940	11200	14500	19100	12300	13600	17000	9760	8870
21	6160	6230	3870	5850	11500	9970	17700	14600	15000	14900	13400	7910
22	5110	4520	4660	7060	13600	14600	17100	14500	13200	16300	12700	4860
23	7200	4500	4720	7910	14600	15600	16400	13800	12500	17300	15300	9840
24	5110	3450	4890	8550	14600	15800	19600	14500	13000	17400	14700	12500
25	6190	3340	6080	9000	11300	15800	12700	11400	15100	14000	4360	5110
26	6610	3450	8030	7180	12000	17800	19500	10100	15200	15800	7830	7270
27	5970	4330	6900	6500	14600	18000	19400	14200	13700	14700	7940	10800
28	4220	4680	4840	4990	14700	10000	16700	14200	16200	13000	10700	10400
29	4160	3020	6360	5070	---	18400	16500	13900	12800	12700	10000	9450
30	5500	3800	6820	6610	---	20700	13800	14000	9150	12800	9280	8750
31	5250	---	7550	6750	---	20700	---	11700	---	14700	8180	---
TOTAL	198030	157860	167590	192620	289230	383170	516670	391270	383700	459900	367730	265420
MEAN	6388	5262	5406	6214	10330	12360	17220	12620	12790	14840	11860	8847
MAX	8110	6970	8030	9000	14700	20700	21200	16600	16800	17400	16600	12500
MIN	4160	3020	3870	3480	5220	2200	9770	9120	7250	12200	4360	4860
AC-FT	392800	313100	332400	382100	573700	760000	1025000	776100	761100	912200	729400	526500
CAL YR 1981	TOTAL	4206940	MEAN	11530	MAX	20800	MIN	2730	AC-FT	8344000		
WTR YR 1982	TOTAL	3773190	MEAN	10340	MAX	21200	MIN	2200	AC-FT	7484000		

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, 21.5°C Sept. 21, 1969; minimum, 8.0°C Feb. 1, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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											
01...	1430	4560	1070	7.7	19.0	317	79	29	100	2.5	4.9
NOV											
02...	1415	10100	1080	7.8	17.0	326	81	30	110	2.7	5.0
DEC											
02...	1500	2240	1090	7.9	14.0	319	80	29	100	2.5	5.0
JAN											
04...	1430	4590	1100	7.8	14.0	335	83	31	110	2.7	4.8
FEB											
04...	1415	14100	1090	7.9	10.0	323	80	30	100	2.5	4.7
MAR											
01...	1515	14800	1090	7.8	11.0	328	82	30	100	2.5	4.6
APR											
06...	1010	20300	1090	7.9	14.0	337	84	31	110	2.7	5.3
MAY											
04...	1430	23400	1080	7.8	16.0	347	86	32	110	2.7	5.2
JUN											
01...	1335	9070	1070	7.8	16.5	331	83	30	100	2.5	4.6
JUL											
01...	1515	18800	1060	7.9	17.0	--	--	--	--	--	--
AUG											
02...	1415	19700	1080	7.7	21.0	326	81	30	100	2.5	4.8
SEP											
01...	1545	9310	1090	7.6	19.0	322	81	29	100	2.5	4.9

DATE	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
01...	110	300	91	.4	9.1	729	681	8980	.32	140	<10
NOV											
02...	130	290	87	.3	9.1	729	692	19900	.33	140	<10
DEC											
02...	120	280	110	.4	8.9	737	686	4460	.14	140	<10
JAN											
04...	130	300	95	.4	9.1	738	712	9150	<.09	140	<10
FEB											
04...	130	300	94	.4	8.9	710	697	27000	.18	130	<10
MAR											
01...	130	290	92	.3	8.9	727	688	29100	.35	140	<10
APR											
06...	130	310	98	.4	8.8	747	727	40900	.22	140	<9
MAY											
04...	140	310	93	.4	8.6	752	731	47500	.31	160	<9
JUN											
01...	129	300	94	.4	9.0	721	700	17700	.21	140	20
JUL											
01...	--	--	--	--	--	708	--	35900	--	--	--
AUG											
02...	130	270	93	.3	9.3	714	668	38000	.21	150	3
SEP											
01...	122	290	87	.3	8.9	761	676	19100	.22	150	5

RUBY VALLEY

85

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 National Forest, on right bank 1 mi (2 km) above Horse Creek and 3.5 mi (5.6 km) northeast of Arthur.

DRAINAGE AREA.--10.3 mi² (26.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft (2,001.713 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage height record, Dec. 30 to Mar. 3 and Aug 5 to Sept. 8, 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.--18 years, 11.0 ft³/s (0.312 m³/s), 7,970 acre-ft/yr (9.83 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 197 ft³/s (5.58 m³/s) June 6, 1975, gage height, 2.79 ft (0.850 m), from rating curve extended above 106 ft³/s (3.00 m³/s); minimum daily, 0.03 ft³/s (0.0008 m³/s) Aug. 8, 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 27	0100	*102 2.89	2.66 0.811
June 18	2200	69 1.95	2.41 0.735

Minimum daily, 0.50 ft³/s (0.014 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	1.5	1.3	1.5	1.6	1.7	2.7	24	49	27	8.9	1.8
2	.50	1.6	1.7	1.4	1.5	1.7	3.2	30	46	25	7.6	1.8
3	.55	1.6	1.8	1.4	1.4	1.6	2.7	35	47	25	6.8	1.8
4	.66	1.1	1.5	1.3	1.3	1.6	2.9	35	46	27	5.9	1.7
5	.60	1.1	1.4	1.3	1.2	1.6	3.6	30	43	23	5.5	1.7
6	.60	1.1	1.5	1.2	1.2	1.7	2.6	28	38	21	5.1	1.7
7	.72	1.1	1.6	1.1	1.3	1.9	2.3	30	35	21	4.7	1.7
8	.84	1.1	1.6	1.1	1.4	2.0	3.0	30	35	22	4.4	1.7
9	.66	.98	1.6	1.2	1.5	2.3	2.8	28	36	21	4.2	1.6
10	.72	.98	1.5	1.2	1.6	2.6	2.8	24	40	20	3.9	1.6
11	.98	.98	1.4	1.3	1.7	3.1	7.0	21	44	20	3.7	1.5
12	1.4	1.0	1.3	1.4	1.8	3.5	9.9	20	45	20	3.5	1.6
13	1.1	1.3	1.7	1.4	1.8	2.8	10	20	46	20	3.3	2.1
14	1.1	1.3	2.2	1.5	1.9	3.0	12	23	49	20	3.2	2.0
15	1.1	1.1	2.1	1.7	1.9	2.9	10	26	52	19	3.0	3.5
16	1.2	1.0	1.7	1.8	1.9	2.8	9.3	29	52	18	2.9	2.4
17	1.2	1.1	1.5	1.9	1.8	2.9	8.8	35	58	16	2.8	2.1
18	1.3	1.1	1.6	1.8	1.7	2.6	9.1	42	58	14	2.7	2.6
19	1.1	.99	2.7	1.7	1.7	2.5	8.9	34	55	13	2.6	3.7
20	1.1	1.1	4.1	1.6	1.9	2.5	8.8	36	50	11	2.5	2.7
21	1.1	1.1	2.7	1.5	2.4	2.4	8.2	40	50	10	2.4	2.1
22	1.2	1.3	2.1	1.5	2.2	2.4	8.8	48	48	9.8	2.4	2.0
23	1.2	1.9	1.8	1.5	2.1	2.4	12	57	45	9.2	2.3	1.8
24	1.2	1.7	1.9	1.5	2.0	2.4	15	62	44	9.0	2.2	1.7
25	1.3	1.1	1.9	1.9	1.9	2.8	16	65	43	9.0	2.2	3.3
26	1.3	1.1	1.8	2.0	1.9	3.0	17	74	40	8.6	2.1	19
27	1.3	1.2	2.2	2.0	1.8	2.9	19	84	41	12	2.1	8.8
28	1.4	1.2	1.9	1.9	1.8	3.4	20	66	42	17	2.0	7.2
29	1.6	1.3	1.7	1.8	---	3.1	21	56	39	15	2.0	6.3
30	1.3	1.2	1.6	1.7	---	2.9	20	50	31	12	1.9	6.0
31	1.3	---	1.5	1.7	---	2.7	---	48	---	10	1.9	---
TOTAL	32.18	36.23	56.9	47.8	48.2	77.7	279.4	1230	1347	524.6	110.7	99.5
MEAN	1.04	1.21	1.84	1.54	1.72	2.51	9.31	39.7	44.9	16.9	3.57	3.32
MAX	1.6	1.9	4.1	2.0	2.4	3.5	21	84	58	27	8.9	19
MIN	.50	.98	1.3	1.1	1.2	1.6	2.3	20	31	8.6	1.9	1.5
AC-FT	64	72	113	95	96	154	554	2440	2670	1040	220	197
CAL YR 1981	TOTAL	1181.31	MEAN	3.24	MAX	28	MIN	.03	AC-FT	2340		
WTR YR 1982	TOTAL	3890.21	MEAN	10.7	MAX	84	MIN	.50	AC-FT	7720		

STEPTOE VALLEY BASIN

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

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¼SW¼ sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank 0.1 mi (0.2 km) downstream from Clear Creek, 0.8 mi (1.3 km) upstream from Cave Creek, and 11 mi (18 km) east-southeast of Ely.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and thermograph recorders. Altitude of gage is 7,440 ft (2,268 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 7.03 ft³/s (0.199 m³/s) 5,090 acre-ft/yr (6.28 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37 ft³/s (1.05 m³/s) June 16, 1978, gage height, 2.69 ft (0.820 m); maximum gage height, 2.73 ft (0.832 m) June 19, 1967; minimum discharge, 2.0 ft³/s (0.057 m³/s) Dec. 22, 1966, Mar. 3, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft³/s (0.79 m³/s) May 28, gage height, 2.48 ft (0.756 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Dec. 23, Jan. 7, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	5.2	3.4	3.3	3.2	4.2	4.3	13	24	16	9.3	7.1
2	4.7	5.2	3.4	3.3	3.3	4.3	4.6	13	23	15	9.3	7.0
3	4.8	5.1	3.4	3.3	3.3	4.4	5.0	13	22	15	9.2	7.0
4	5.5	5.0	3.4	3.3	3.3	4.2	5.0	13	21	15	9.0	7.0
5	5.2	4.9	3.4	3.2	3.1	4.1	4.9	13	22	15	8.9	7.0
6	5.2	4.8	3.4	3.2	3.2	3.9	5.1	13	21	14	8.8	7.0
7	5.3	4.7	3.4	3.0	3.3	3.9	4.9	13	20	13	8.9	7.0
8	5.7	4.5	3.4	3.2	3.3	4.0	5.1	13	19	13	8.7	6.9
9	5.8	4.4	3.4	3.3	3.3	3.9	5.1	13	19	13	8.5	7.0
10	5.7	4.2	3.4	3.3	3.3	3.9	5.1	13	20	13	8.5	7.0
11	6.0	4.1	3.4	3.3	3.3	4.0	5.6	13	20	12	8.6	6.8
12	6.2	4.0	3.3	3.3	3.3	3.9	6.4	13	20	12	8.5	6.7
13	6.0	3.9	3.4	3.2	3.3	4.0	7.2	13	20	12	8.6	6.9
14	4.2	3.7	3.4	3.2	3.4	4.0	7.5	13	20	12	8.4	6.7
15	4.2	3.6	3.4	3.3	3.4	4.1	7.7	13	19	12	8.2	6.6
16	4.3	3.5	3.3	3.3	3.4	4.1	7.7	13	19	11	8.1	7.0
17	4.2	3.5	3.2	3.3	3.4	3.8	7.7	13	19	11	8.1	7.0
18	4.2	3.4	3.4	3.3	3.4	3.4	7.7	13	20	11	8.0	7.0
19	4.2	3.4	3.4	3.2	3.4	3.8	8.0	14	19	11	7.9	7.1
20	4.1	3.5	3.4	3.2	3.5	3.9	9.3	14	20	10	7.8	7.0
21	4.1	3.5	3.4	3.0	3.6	3.7	9.9	15	20	10	7.7	6.8
22	4.1	3.5	3.1	3.2	3.8	3.8	9.7	16	19	10	7.6	6.8
23	4.2	3.5	3.0	3.2	3.9	3.8	9.9	17	19	10	7.7	6.8
24	4.2	3.5	3.1	3.3	3.9	4.1	10	19	19	10	7.5	6.8
25	4.3	3.4	3.4	3.3	4.0	4.2	11	21	18	10	7.4	7.1
26	4.4	3.1	3.6	3.3	4.1	4.2	11	23	18	9.9	7.6	12
27	4.6	3.3	3.5	3.3	4.1	4.3	11	26	17	9.7	7.5	15
28	5.0	3.6	3.4	3.2	4.2	4.5	12	28	17	9.7	7.6	13
29	5.2	3.5	3.4	3.1	---	4.5	13	28	17	9.5	7.6	13
30	5.2	3.5	3.4	3.2	---	4.6	13	26	16	9.4	7.3	13
31	5.2	---	3.4	3.3	---	4.9	---	24	---	9.3	7.2	---
TOTAL	150.6	119.0	104.3	100.4	98.0	126.4	234.4	505	587	363.5	254.0	239.1
MEAN	4.86	3.97	3.36	3.24	3.50	4.08	7.81	16.3	19.6	11.7	8.19	7.97
MAX	6.2	5.2	3.6	3.3	4.2	4.9	13	28	24	16	9.3	15
MIN	4.1	3.1	3.0	3.0	3.1	3.4	4.3	13	16	9.3	7.2	6.6
AC-FT	299	236	207	199	194	251	465	1000	1160	721	504	474

CAL YR 1981 TOTAL 2059.4 MEAN 5.64 MAX 12 MIN 3.0 AC-FT 4080
WTR YR 1982 TOTAL 2881.7 MEAN 7.90 MAX 28 MIN 3.0 AC-FT 5720

10244950 STEPPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: March 1968 to current year, monthly.

BIOLOGICAL DATA: May 1975 to August 1977, twice yearly; April 1978 to September 1981, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to current year, monthly.

WATER TEMPERATURES: October 1966 to September 1982, continuous.

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 current year, monthly.

INSTRUMENTATION.--Temperature recorder from October 1966 to September 1982.

REMARKS.--Periods of no record for temperature from December to March due to recorder malfunction.

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, 810 mg/L May 18, 1975; minimum, 3 mg/L Aug. 21, 1973, Aug. 20 and Oct. 1, 1974, Nov. 28, 1979, and Oct. 20, 1981.

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

WATER TEMPERATURES: Maximum, 9.5°C Apr. 28, May 23; minimum, 3.5°C Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER AS CAC03)	HARD- NESS (MG/L AS CAC03)
OCT										
20...	1315	3.9	321	8.5	7.5	9.3	100	<2	46	170
NOV										
18...	1125	3.6	324	8.4	5.0	9.9	101	<1	170	180
JAN										
27...	1015	3.1	320	8.6	4.5	10.0	101	<1	170	170
FEB										
23...	1130	3.9	343	8.5	6.0	9.5	100	--	--	180
MAR										
24...	0930	3.5	330	8.3	5.5	10.4	108	<1	52	190
APR										
20...	1200	10	353	8.3	6.0	10.4	110	<1	--	210
MAY										
19...	1100	14	336	8.6	7.5	9.8	108	<1	120	190
JUN										
16...	1025	19	320	8.4	7.0	9.3	100	--	--	170
JUL										
21...	1115	10	--	8.4	8.0	9.4	102	K9	72	160
AUG										
18...	0915	8.2	318	8.9	7.5	9.3	101	K44	67	170
SEP										
29...	1300	14	340	8.5	6.0	10.6	112	--	--	180

K: NON-IDEAL COLONY COUNT.

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT 20...	51	10	1.7	.1	.4	140	9.0	1.1	.1	6.9
NOV 18...	53	11	1.7	.1	.6	160	6.0	.7	.1	7.0
JAN 27...	50	11	1.7	.1	.5	180	5.0	.8	.1	6.9
FEB 23...	54	11	1.7	.1	.6	180	6.0	2.8	.1	7.1
MAR 24...	56	11	1.6	.1	.6	--	8.0	1.2	.1	7.1
APR 20...	67	9.9	2.4	.1	.6	170	14	1.8	<.1	8.1
MAY 19...	64	8.3	2.4	.1	.6	183	12	1.6	<.1	7.9
JUN 16...	58	7.2	1.8	.1	.5	159	9.0	.9	.1	7.2
JUL 21...	50	8.6	1.7	.1	.5	161	7.0	1.3	<.1	6.7
AUG 18...	50	9.8	1.9	.1	.4	139	7.0	2.1	<.1	7.0
SEP 29...	59	8.2	1.8	.1	.6	175	9.0	1.2	<.1	7.2

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 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 20...	--	188	2.0	.22	.12	<.060	<.060	--	--	.54
NOV 18...	173	176	1.7	.13	.13	.080	.080	.57	--	.65
JAN 27...	177	184	1.5	.16	.15	.130	<.070	.28	--	.41
FEB 23...	183	192	1.9	.12	.13	.120	.080	.37	.31	.49
MAR 24...	157	141	1.5	.16	.16	<.060	<.060	--	--	.30
APR 20...	--	206	6.1	.17	.19	.110	.110	.50	.35	.61
MAY 19...	189	207	7.1	.16	.16	.080	.090	.52	.41	.60
JUN 16...	181	180	9.3	.15	.14	.070	.060	.93	.54	1.00
JUL 21...	176	173	4.8	.14	.12	.080	.060	.66	.34	.74
AUG 18...	181	162	4.0	.14	.14	.100	.110	--	.39	--
SEP 29...	--	192	5.3	.19	.18	<.060	<.060	--	--	.50

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 20...	.54	.76	.66	.010	.010	<.010	1.8	--	--
NOV 18...	<.60	.78	--	.010	<.010	<.020	1.2	--	--
JAN 27...	.40	.57	.55	.010	<.010	--	7.0	--	--
FEB 23...	.39	.61	.52	<.010	<.010	--	2.0	--	--
MAR 24...	.25	.46	.41	.010	.010	--	.7	--	--
APR 20...	.46	.78	.65	.030	.010	--	2.8	--	--
MAY 19...	.50	.76	.66	.060	<.010	--	--	1.4	.5
JUN 16...	.60	1.2	.74	.060	.080	--	2.1	--	--
JUL 21...	.40	.88	.52	.050	.030	--	1.6	--	--
AUG 18...	.50	--	.64	.020	.020	--	--	1.2	.2
SEP 29...	.40	.69	.58	.030	<.010	--	2.1	--	--

STEPTOE VALLEY BASIN

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10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
MAY 19...	1100	3	2	<100	45	<3	<1	<3	10	2	<9
AUG 18...	0915	2	2	<100	48	<1	<1	<1	<10	<1	<3

	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
MAY 19...	8	<10	370	12	13	<30	19	20	4	.1	.2
AUG 18...	1	<10	90	<3	<1	<10	11	<10	2	.1	.1

DATE	TIME	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
MAY 19...		<30	<1	<1	<1	<1	96	<10	30	<12	<.01
AUG 18...		<10	<1	<1	<1	<1	78	<6.0	10	13	<.01

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED (PCI/L AS SR/ YT-90)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/L)
OCT 20...	1315	<5.1	<.4	<2.5	<.4	<2.4	<.4	.10	.43	.00	0

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 20...		.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TIME	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 20...		.01	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00

DATE	TIME	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
OCT 20...		.0	.00	.0	.00	.00	.0	.00	.00	.00	.0	.00

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 20...	.00	.00	.00	0	.0	.00	.00	.00	.00	.00

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 20...	1315	3	.03
NOV 18...	1125	18	.17
JAN 27...	1015	18	.15
FEB 23...	1130	19	.20
MAR 24...	0930	18	.17
APR 20...	1200	58	1.6
MAY 19...	1100	92	3.5
JUN 16...	1025	14	.72
JUL 21...	1115	11	.30
AUG 18...	0915	18	.40
SEP 29...	1300	31	1.2

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	4.5	8.0	6.0	8.0	6.0	7.0	6.0	9.0	7.5	9.0	7.0
2	6.5	5.0	8.0	6.0	7.0	6.0	7.5	6.0	8.5	7.5	9.0	7.5
3	7.5	5.0	8.5	6.5	8.0	6.0	8.0	6.5	9.0	7.0	9.0	7.5
4	6.5	5.0	9.0	6.0	8.0	6.0	7.0	6.5	9.0	7.0	9.0	7.5
5	5.5	4.5	8.0	5.5	6.5	5.5	7.0	6.5	9.0	7.0	9.0	7.5
6	6.0	4.5	9.0	5.5	7.5	5.5	7.5	6.0	9.0	7.0	8.0	7.5
7	6.0	4.5	8.0	6.0	8.0	5.5	7.5	6.5	8.0	7.5	9.0	7.5
8	6.0	4.5	8.0	6.0	8.0	6.0	7.0	6.5	9.0	7.5	8.5	7.5
9	7.0	4.5	7.0	5.5	8.0	6.0	8.0	6.5	9.0	7.5	8.5	8.0
10	7.5	4.5	7.0	5.5	8.0	6.0	8.0	6.5	9.0	7.0	9.0	8.5
11	6.5	6.0	7.5	5.0	8.0	6.0	8.0	6.5	9.0	7.0	8.0	7.0
12	8.0	5.5	8.5	5.0	7.5	6.5	8.0	6.5	9.0	7.5	8.0	7.0
13	8.0	5.0	9.0	5.5	7.0	6.0	8.0	6.5	9.0	7.5	7.5	7.0
14	8.5	5.0	8.0	5.5	7.0	6.0	8.5	7.0	9.0	7.5	7.5	7.0
15	8.0	5.0	7.0	6.0	7.5	6.5	8.0	6.5	9.0	7.5	8.0	7.5
16	7.5	4.5	9.0	5.5	7.5	6.5	8.0	6.5	9.0	7.5	8.0	7.5
17	7.5	4.5	9.0	6.0	8.5	6.5	8.0	6.5	9.0	7.5	8.5	7.0
18	7.5	5.0	7.5	6.5	8.0	7.0	8.5	6.5	9.0	7.5	8.5	7.0
19	7.5	4.5	9.0	6.0	8.0	6.5	8.0	7.0	9.0	7.5	9.0	7.5
20	7.0	4.0	9.0	5.5	7.0	6.5	9.0	7.0	9.0	7.5	9.0	7.5
21	8.0	4.0	9.0	6.0	7.0	6.5	9.0	7.0	9.0	7.5	9.0	7.0
22	8.5	4.5	8.5	6.0	8.0	6.5	9.0	7.5	9.0	8.0	9.0	7.5
23	9.0	5.0	9.5	6.0	7.0	6.5	8.0	7.5	9.0	8.0	9.0	7.5
24	8.0	5.0	9.0	6.0	7.0	6.5	8.5	7.5	9.0	8.0	8.5	8.0
25	8.0	5.0	9.0	6.0	8.0	6.5	8.5	7.5	8.5	8.0	8.0	8.5
26	8.0	5.5	9.0	6.0	8.0	6.5	8.0	7.5	9.0	7.5	8.0	6.5
27	9.0	5.5	8.5	6.5	8.0	6.5	8.0	7.5	9.0	7.5	7.0	7.0
28	9.5	5.5	8.0	5.5	8.0	6.5	8.5	7.5	8.0	8.0	7.0	6.5
29	9.0	5.5	7.0	5.5	7.0	6.5	9.0	7.5	9.0	7.5	6.0	5.5
30	7.5	5.5	8.0	6.0	7.0	6.0	9.0	7.5	9.0	7.5	6.0	6.0
31	---	---	8.5	6.0	---	---	9.0	7.5	9.0	7.0	---	---
MONTH	9.5	4.0	9.5	5.0	8.5	5.5	9.0	6.0	9.0	7.0	9.0	5.5
YEAR	9.5	3.5										

LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS

10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S¹NE¹ 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 (5.6 km) east of Pancake Summit, 14 mi (23 km) northwest of Hamilton, and 19 mi (31 km) east of Eureka.

DRAINAGE AREA.--157 mi² (407 km²).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--20 years, 0.184 ft³/s (0.0052 m³/s), 133 acre-ft/yr (164,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft³/s (8.24 m³/s) Mar. 9, 1979, gage height, 6.70 ft (2.042 m), from high-water marks; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s (0.76 m³/s) Sept. 26 (0800 hrs), gage height 1.78 ft (0.543 m), no other peak above base of 10 ft³/s (0.28 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.70
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.090
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.4
CAL YR 1981	TOTAL	0.00	MEAN	.000	MAX	.00	MIN	.00	AC-FT	.00		
WTR YR 1982	TOTAL	2.70	MEAN	.007	MAX	2.6	MIN	.00	AC-FT	5.4		

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

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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 (4.7 km) west of Pine Creek Ranch, and 7.2 mi (11.6 km) north of Belmont.

DRAINAGE AREA.--12.2 mi² (31.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage 7,560 ft (2,304 m), from topographic map.

REMARKS.--Records poor, no gage height record March 27 to May 18. 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.--5 years, 5.77 ft³/s (0.1634 m³/s), 4,180 acre-ft (5.15 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 155 ft³/s (4.39 m³/s) June 9, 1978, gage height, 2.75 ft (0.838 m); minimum daily 0.56 ft³/s (0.016 m³/s) Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft³/s (0.93 m³/s) May 26, gage height, 2.07 ft (0.631 m); minimum daily 0.70 ft³/s (0.020 m³/s) Jan. 6, 7 (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.9	1.4	1.3	.98	1.1	1.6	6.8	22	13	5.4	2.9
2	1.4	1.9	1.4	1.2	.98	1.0	1.7	7.3	21	12	5.2	2.6
3	1.4	1.9	1.4	1.1	.93	1.0	2.4	7.5	20	12	5.0	2.6
4	1.3	1.8	1.4	1.0	.98	1.0	2.4	7.7	18	11	4.8	2.6
5	1.3	1.8	1.3	.80	1.0	1.0	2.3	8.4	18	11	4.6	2.4
6	1.5	1.8	1.3	.70	1.0	1.0	2.6	8.7	17	10	4.5	2.3
7	1.6	1.8	1.3	.70	1.1	1.0	1.7	9.4	16	10	4.5	2.3
8	1.8	1.8	1.3	.80	1.1	1.1	1.8	9.3	16	9.7	5.0	2.3
9	1.7	1.7	1.3	1.0	1.1	1.5	2.0	9.7	16	9.6	4.1	2.3
10	1.7	1.7	1.3	1.1	1.0	2.0	2.5	10	17	9.4	3.9	2.2
11	2.5	1.8	1.4	1.1	.99	2.0	4.0	10	18	9.5	3.7	2.1
12	2.2	1.8	1.4	1.1	1.1	2.0	4.9	11	19	9.3	4.0	2.0
13	2.1	1.8	1.3	1.1	1.0	2.0	5.3	10	19	9.0	4.1	2.0
14	2.0	1.9	1.2	1.0	1.1	2.0	5.3	11	17	8.4	3.9	2.0
15	2.0	1.8	1.2	1.0	1.0	2.0	5.7	10	17	8.5	3.7	2.0
16	2.4	1.8	1.2	1.1	1.2	1.8	5.6	10	19	8.2	3.5	2.0
17	2.3	1.7	1.2	1.0	1.1	1.9	5.7	10	20	7.8	3.3	2.0
18	2.3	1.6	1.3	.84	1.0	2.1	5.7	11	22	7.7	3.3	2.4
19	2.2	1.7	1.4	1.1	1.0	2.1	6.0	11	22	6.9	3.3	2.5
20	2.2	1.8	1.3	1.1	1.1	1.9	6.2	12	21	6.4	3.1	2.3
21	2.1	1.8	1.2	1.1	1.3	1.8	6.0	13	22	6.1	3.0	2.2
22	2.0	1.9	.78	.98	1.3	1.9	6.4	17	21	5.9	3.0	2.2
23	2.0	1.7	1.0	1.0	1.2	1.8	6.4	18	20	5.8	3.0	2.2
24	2.2	1.6	1.2	1.1	1.1	2.0	7.1	22	19	6.1	2.9	2.2
25	2.1	1.3	1.2	1.0	1.1	2.0	8.2	27	18	6.2	2.6	2.6
26	2.1	.90	1.2	.98	1.2	2.0	8.6	30	16	6.2	2.5	4.4
27	1.9	1.0	1.2	.95	1.1	2.0	8.0	30	17	6.2	3.1	5.0
28	1.9	1.2	1.2	.97	1.1	1.9	7.4	30	16	6.6	4.1	4.7
29	1.9	1.4	1.2	.97	---	1.9	7.0	27	16	6.9	3.3	4.6
30	1.8	1.5	1.3	1.1	---	2.0	6.7	24	15	6.4	3.0	4.6
31	2.0	---	1.3	1.0	---	2.0	---	23	---	5.8	3.0	---
TOTAL	59.3	50.10	39.08	31.29	30.16	52.8	147.2	451.8	555	257.6	116.4	80.5
MEAN	1.91	1.67	1.26	1.01	1.08	1.70	4.91	14.6	18.5	8.31	3.75	2.68
MAX	2.5	1.9	1.4	1.3	1.3	2.1	8.6	30	22	13	5.4	5.0
MIN	1.3	.90	.78	.70	.93	1.0	1.6	6.8	15	5.8	2.5	2.0
AC-FT	118	99	78	62	60	105	292	896	1100	511	231	160
CAL YR 1981	TOTAL	1192.70	MEAN	3.27	MAX	32	MIN	.78	AC-FT	2370		
WTR YR 1982	TOTAL	1871.23	MEAN	5.13	MAX	30	MIN	.70	AC-FT	3710		

LOCATION.--Lat 38°48'22", long 116°40'43", in NW¼SW¼ sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 27.4 mi (44.1 km) east of Carvers on State Highway 8A, 59 mi (95 km) northeast of Tonopah, and 17.9 mi (28.8 km) northeast of Belmont.

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

REMARKS.--Records good except for period of no gage height record Oct. 1 to Jan. 12 and Apr. 15 to May 23, 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 discharge 92 ft³/s (2.61 m³/s) June 7, 1978, gage height, 3.55 ft (1.082 m); minimum daily, 0.09 ft³/s (0.003 m³/s) Dec. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 8.3 ft³/s (0.24 m³/s) May 28, gage height, 2.16 ft (0.658 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Jan. 22 (result of freeze-up).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.72	.62	.44	.37	.43	.46	2.7	7.1	3.6	1.2	.85
2	.60	.73	.62	.44	.43	.43	.47	2.9	6.5	3.4	1.1	.81
3	.59	.73	.62	.42	.38	.38	.62	3.0	6.5	3.2	1.1	.75
4	.58	.71	.62	.43	.30	.38	.62	3.1	6.2	3.0	1.1	.76
5	.60	.71	.61	.45	.32	.44	.61	3.4	6.2	3.0	1.0	.66
6	.62	.71	.61	.44	.38	.47	.68	3.5	6.1	2.9	.99	.70
7	.64	.69	.62	.43	.47	.49	.48	3.8	5.5	2.9	1.1	.69
8	.66	.69	.62	.43	.48	.46	.49	3.8	5.2	2.9	1.2	.71
9	.66	.68	.62	.39	.47	.46	.54	3.9	5.1	2.9	.96	.72
10	.69	.67	.62	.38	.43	.46	.59	4.0	4.9	2.6	.88	.74
11	.88	.69	.62	.38	.46	.46	.99	4.2	4.7	2.5	.82	.72
12	.78	.70	.61	.39	.47	.46	1.3	4.4	4.6	2.6	1.1	.72
13	.74	.71	.58	.38	.46	.43	1.4	4.3	4.5	2.5	1.3	.77
14	.70	.72	.57	.34	.46	.43	1.4	4.3	4.5	2.3	1.2	.77
15	.72	.72	.57	.36	.46	.43	1.5	4.1	4.4	2.1	1.2	.78
16	.82	.70	.57	.33	.47	.36	1.5	4.1	4.3	2.1	1.1	.78
17	.81	.67	.56	.35	.38	.46	1.5	4.2	4.5	2.1	1.1	.77
18	.79	.66	.57	.38	.32	.49	1.5	4.3	4.6	1.9	1.2	.80
19	.77	.67	.59	.37	.31	.48	1.6	4.2	4.5	1.9	1.1	.87
20	.76	.68	.56	.39	.32	.48	1.7	4.1	4.0	1.7	1.1	.73
21	.73	.70	.54	.36	.33	.48	1.7	4.1	4.0	1.6	1.0	.64
22	.72	.71	.49	.30	.37	.50	1.7	4.2	4.0	1.6	1.0	.60
23	.70	.69	.50	.33	.34	.54	1.6	4.3	3.8	1.6	1.1	.58
24	.73	.65	.48	.46	.38	.55	1.8	4.7	3.8	2.0	1.1	.55
25	.71	.58	.48	.46	.41	.52	2.0	5.7	3.8	1.9	.96	.58
26	.72	.54	.45	.46	.46	.52	2.3	6.6	3.6	1.9	.94	1.3
27	.72	.55	.44	.37	.40	.52	2.2	6.8	3.6	2.3	1.1	1.2
28	.75	.58	.44	.40	.41	.52	2.2	6.9	3.5	2.1	1.6	1.1
29	.75	.61	.44	.38	---	.49	2.4	7.4	3.3	1.5	1.3	1.0
30	.73	.63	.44	.35	---	.51	2.6	7.6	3.5	1.4	1.0	.98
31	.75	---	.44	.41	---	.52	---	7.2	---	1.3	.91	---
TOTAL	22.00	20.20	17.12	12.20	11.24	14.55	40.45	141.8	140.8	71.3	33.86	23.63
MEAN	.71	.67	.55	.39	.40	.47	1.35	4.57	4.69	2.30	1.09	.79
MAX	.88	.73	.62	.46	.48	.55	2.6	7.6	7.1	3.6	1.6	1.3
MIN	.58	.54	.44	.30	.30	.36	.46	2.7	3.3	1.3	.82	.55
AC-FT	44	40	34	24	22	29	80	281	279	141	67	47
CAL YR 1981	TOTAL 483.80		MEAN 1.33	MAX 5.5	MIN .41	AC-FT 960						
WTR YR 1982	TOTAL 549.15		MEAN 1.50	MAX 7.6	MIN .30	AC-FT 1090						

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

95

10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°36'05", in SE¼NE¼ sec.18, T.15 N., R.47 E., Nye County, Hydrologic Unit 1606005 on left bank 2 mi (3.2 km) southwest of Monitor Ranch and 42 mi (68 km) north of Belmont.

DRAINAGE AREA.--35.6 mi² (92.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,100 m), from topographic map.

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

AVERAGE DISCHARGE.--5 years, 1.20 ft³/s (0.0340 m³/s), 869 acre-ft/yr (1.07 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft³/s (0.76 m³/s) Aug. 28, 1982, gage height 2.81 ft (0.856 m); minimum, 0.12 ft³/s (0.003 m³/s) Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 27 ft³/s (0.76 m³/s) Aug. 28, gage height 2.81 ft (0.856 m); minimum daily 0.14 ft³/s (0.004 m³/s) Oct. 1-9, 13-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.18	.20	.25	.22	.31	.34	2.1	4.3	2.8	.55	.71
2	.14	.18	.20	.23	.17	.31	.33	2.3	4.4	2.4	.53	.58
3	.14	.20	.20	.21	.16	.28	.35	2.3	4.4	2.3	.52	.57
4	.14	.20	.20	.20	.17	.24	.34	2.4	4.3	2.3	.50	.54
5	.14	.20	.24	.24	.20	.23	.36	2.6	4.4	2.1	.49	.55
6	.14	.20	.23	.23	.28	.22	.36	2.7	4.5	2.0	.48	.54
7	.14	.20	.23	.23	.25	.21	.37	2.9	4.3	2.0	.52	.53
8	.14	.18	.23	.22	.35	.20	.38	2.9	4.2	2.0	.66	.53
9	.14	.17	.23	.22	.34	.20	.38	3.0	4.1	2.1	.47	.50
10	.16	.18	.24	.21	.35	.22	.42	3.1	4.0	1.9	.41	.50
11	.18	.18	.25	.20	.41	.23	.41	3.2	4.0	1.7	.44	.49
12	.16	.18	.24	.18	.40	.23	.40	3.4	3.9	1.7	.43	.52
13	.14	.18	.23	.18	.44	.23	.39	3.3	4.0	1.6	.39	.50
14	.14	.18	.24	.18	.54	.24	.40	3.3	4.1	1.5	.36	.50
15	.14	.18	.26	.18	.52	.23	.45	3.1	3.8	1.5	.37	.58
16	.14	.18	.23	.18	.52	.25	.44	3.1	3.5	1.4	.35	.54
17	.14	.19	.23	.25	.24	.25	.45	3.2	3.8	1.4	.34	.50
18	.14	.18	.23	.31	.28	.25	.45	3.7	4.1	1.3	.34	.48
19	.14	.20	.24	.21	.48	.24	.45	3.7	3.6	1.3	.34	.50
20	.14	.21	.27	.22	.32	.24	.49	3.6	3.5	1.2	.34	.48
21	.16	.20	.27	.20	.48	.26	.49	3.6	4.0	1.2	.31	.43
22	.16	.20	.24	.33	.32	.27	.51	3.7	3.7	1.2	.31	.42
23	.16	.20	.24	.41	.31	.27	.50	3.8	3.4	1.2	.43	.42
24	.16	.20	.22	.38	.32	.28	.52	3.9	3.1	3.6	.40	.40
25	.16	.20	.23	.40	.35	.30	.58	4.0	3.0	2.8	.31	.43
26	.17	.19	.24	.45	.37	.33	.69	4.0	2.8	1.3	.34	6.7
27	.18	.20	.25	.40	.30	.32	.96	4.0	2.7	1.1	3.0	1.2
28	.18	.20	.23	.41	.31	.33	1.4	4.2	2.5	.92	4.0	.92
29	.18	.20	.23	.40	---	.31	1.9	4.3	2.4	.80	1.2	.97
30	.17	.19	.23	.44	---	.32	2.0	4.4	2.6	.69	.94	.96
31	.17	---	.24	.28	---	.35	---	4.4	---	.59	.82	---
TOTAL	4.73	5.73	7.24	8.43	9.40	8.15	17.51	104.2	111.4	51.90	20.89	23.49
MEAN	.15	.19	.23	.27	.34	.26	.58	3.36	3.71	1.67	.67	.78
MAX	.18	.21	.27	.45	.54	.35	2.0	4.4	4.5	3.6	4.0	6.7
MIN	.14	.17	.20	.18	.16	.20	.33	2.1	2.4	.59	.31	.40
AC-FT	9.4	11	14	17	19	16	35	207	221	103	41	47

CAL YR 1981 TOTAL 208.70 MEAN .57 MAX 2.2 MIN .10 AC-FT 414
WTR YR 1982 TOTAL 373.07 MEAN 1.02 MAX 6.7 MIN .14 AC-FT 740

STONE CABIN VALLEY

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 (5 km) north of Toiyabe National Forest boundary and 30 mi (48 km) northwest of Warm Springs.

DRAINAGE AREA.--16.4 mi² (42.5 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,070 m), 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."

AVERAGE DISCHARGE.--5 years, 1.62 ft³/s (0.0459 m³/s), 1,170 acre-ft/yr (1.44 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 92 ft³/s (2.61 m³/s) Mar. 31, 1978, gage height, 2.70 ft (0.823 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 9.2 ft³/s (0.26 m³/s) Apr. 11, gage height 1.91 ft (0.582 m); no flow Oct. 1 to Mar. 23, July 15 to Sept. 25, 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.11	1.3	.67	.53	.00	.00
2	.00	.00	.00	.00	.00	.00	.10	1.3	.67	.42	.00	.00
3	.00	.00	.00	.00	.00	.00	.25	1.7	.67	.38	.00	.00
4	.00	.00	.00	.00	.00	.00	.25	2.2	.58	.38	.00	.00
5	.00	.00	.00	.00	.00	.00	.27	1.8	.58	.35	.00	.00
6	.00	.00	.00	.00	.00	.00	.27	1.7	.58	.19	.00	.00
7	.00	.00	.00	.00	.00	.00	.32	1.6	.53	.14	.00	.00
8	.00	.00	.00	.00	.00	.00	.30	1.5	.49	.13	.00	.00
9	.00	.00	.00	.00	.00	.00	.30	1.5	.49	.13	.00	.00
10	.00	.00	.00	.00	.00	.00	.32	1.4	.49	.09	.00	.00
11	.00	.00	.00	.00	.00	.00	2.5	1.5	.45	.07	.00	.00
12	.00	.00	.00	.00	.00	.00	5.2	1.4	.45	.05	.00	.00
13	.00	.00	.00	.00	.00	.00	4.3	1.3	.42	.04	.00	.00
14	.00	.00	.00	.00	.00	.00	3.5	1.3	.42	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	2.8	1.3	.42	.01	.00	.00
16	.00	.00	.00	.00	.00	.00	2.3	1.1	.38	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	2.2	1.1	.45	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	2.2	1.3	.45	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	1.8	1.2	.42	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	1.7	1.0	.58	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	1.8	.96	.83	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	1.3	.90	.72	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	1.2	.90	.62	.00	.00	.00
24	.00	.00	.00	.00	.00	.07	1.2	.83	.58	.00	.00	.00
25	.00	.00	.00	.00	.00	.10	1.2	.78	.53	.00	.00	.00
26	.00	.00	.00	.00	.00	.10	1.2	.78	.35	.00	.00	.66
27	.00	.00	.00	.00	.00	.11	1.1	.72	.25	.00	.00	.08
28	.00	.00	.00	.00	.00	.17	1.1	.72	.23	.00	.00	.00
29	.00	.00	.00	.00	---	.11	1.3	.72	.27	.00	.00	.00
30	.00	.00	.00	.00	---	.10	1.3	.67	.45	.00	.00	.00
31	.00	---	.00	.00	---	.11	---	.67	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.87	43.69	37.15	15.02	2.92	.00	.74
MEAN	.000	.000	.000	.000	.000	.028	1.46	1.20	.50	.094	.000	.025
MAX	.00	.00	.00	.00	.00	.17	5.2	2.2	.83	.53	.00	.66
MIN	.00	.00	.00	.00	.00	.00	.10	.67	.23	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	1.7	87	74	30	5.8	.00	1.5
CAL YR 1981	TOTAL	56.58	MEAN	.16	MAX	1.1	MIN	.00	AC-FT	112		
WTR YR 1982	TOTAL	100.39	MEAN	.28	MAX	5.2	MIN	.00	AC-FT	199		

BIG SMOKY VALLEY (NORTHERN PART)

97

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 E., Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank 1.1 mi (1.8 km) downstream from Cougar Canyon and 19 mi (31 km) southeast of Austin.

DRAINAGE AREA.--23.4 mi² (60.6 km²).

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

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

REMARKS.--Records good. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft (234,000 m³) about 4 mi (6 km) upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 7.92 ft³/s (0.224 m³/s), 5,740 acre-ft/yr (7.07 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/s (4.25 m³/s) May 18, 1973, gage height, 3.58 ft (1.091 m), on basis of indirect measurement of peak flow; minimum, 1.4 ft³/s (0.040 m³/s) Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) July 15, gage height, 2.06 ft (0.628 m); minimum daily, 2.0 ft³/s (0.06 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.0	2.8	3.3	2.8	3.1	3.3	5.2	6.2	8.7	7.0	5.2
2	3.9	3.9	2.8	3.3	2.8	3.1	3.3	5.2	6.4	8.3	7.0	5.2
3	3.8	3.8	2.8	3.0	2.8	3.1	3.7	5.2	6.5	8.6	7.0	5.2
4	3.8	4.0	2.8	3.1	2.8	3.2	3.8	5.4	6.5	8.5	7.1	5.2
5	3.8	4.0	2.8	3.4	2.0	3.3	3.8	6.5	6.5	8.2	7.0	5.2
6	3.8	4.0	2.8	3.2	2.1	3.0	3.8	6.5	6.5	8.4	7.0	5.2
7	3.9	3.9	2.8	2.3	2.2	3.1	3.8	6.5	6.5	8.8	7.0	5.2
8	3.9	3.8	2.9	2.3	2.7	3.0	3.8	6.5	6.5	8.6	6.9	5.1
9	3.8	3.8	2.9	2.9	2.5	2.9	3.8	6.2	6.5	8.3	6.7	4.8
10	4.3	3.8	2.9	3.2	2.5	3.0	3.8	6.2	6.5	8.2	6.6	4.7
11	4.7	3.8	2.9	3.3	2.5	2.9	4.1	6.2	6.7	8.2	6.5	4.5
12	4.2	3.8	3.0	3.3	2.6	3.0	4.1	6.2	6.7	8.5	6.4	4.5
13	4.0	3.6	3.1	3.3	2.7	3.1	4.1	6.2	6.7	9.4	6.3	4.5
14	3.8	3.5	3.1	3.3	2.8	3.4	4.1	6.2	6.7	9.4	6.2	4.3
15	3.9	3.6	3.1	3.3	2.9	3.4	4.3	6.2	6.7	8.9	6.3	4.3
16	3.9	3.4	3.1	3.1	3.1	3.4	4.3	6.2	6.7	8.4	6.1	4.3
17	3.8	3.4	3.1	3.1	3.1	3.3	4.3	6.2	7.3	8.3	5.9	4.3
18	3.8	3.4	3.1	3.1	2.9	2.9	4.3	6.2	7.5	7.8	5.8	4.3
19	3.4	3.4	3.1	3.1	2.9	2.9	4.3	6.2	7.7	7.7	5.7	4.3
20	3.6	3.3	3.1	3.1	2.9	2.9	4.3	6.2	8.1	7.2	5.6	4.3
21	3.5	2.9	3.1	2.9	2.9	3.0	4.3	6.2	8.4	7.8	5.4	4.3
22	3.4	2.8	3.3	2.9	2.9	3.1	4.4	6.2	8.6	8.4	5.4	4.3
23	3.5	2.8	3.3	2.9	2.9	3.1	4.8	6.2	8.5	8.6	5.4	4.3
24	3.4	2.8	3.1	2.8	2.9	3.1	4.8	6.4	8.0	8.0	5.4	4.3
25	3.3	2.8	3.1	2.8	2.9	3.1	4.8	6.5	7.9	7.4	5.4	4.3
26	3.4	2.8	3.1	2.9	2.8	3.1	4.8	6.5	7.8	7.2	5.4	4.3
27	3.4	2.8	3.3	2.9	2.9	3.1	5.0	6.5	7.8	7.1	5.4	4.3
28	3.6	2.8	3.3	2.9	3.1	3.2	5.0	6.5	8.6	7.0	5.6	4.3
29	3.9	2.8	3.3	2.9	---	3.3	5.0	6.5	8.6	7.0	5.2	4.3
30	4.0	2.8	3.3	3.0	---	3.3	5.0	6.5	8.8	7.0	5.2	4.3
31	4.0	---	3.3	3.1	---	3.3	---	6.2	---	7.0	5.0	---
TOTAL	117.4	102.3	94.5	94.0	76.9	96.7	127.0	191.6	218.4	250.9	188.9	137.6
MEAN	3.79	3.41	3.05	3.03	2.75	3.12	4.23	6.18	7.28	8.09	6.09	4.59
MAX	4.7	4.0	3.3	3.4	3.1	3.4	5.0	6.5	8.8	9.4	7.1	5.2
MIN	3.3	2.8	2.8	2.3	2.0	2.9	3.3	5.2	6.2	7.0	5.0	4.3
AC-FT	233	203	187	186	153	192	252	380	433	498	375	273

CAL YR 1981 TOTAL 1667.2 MEAN 4.57 MAX 7.3 MIN 2.8 AC-FT 3310
WTR YR 1982 TOTAL 1696.2 MEAN 4.65 MAX 9.4 MIN 2.0 AC-FT 3360

BIG SMOKY VALLEY (NORTHERN PART)

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 (180 m) upstream from diversion, 3 mi (5 km) west of State Highway 8A, and 15 mi (24 km) northwest of Round Mountain.

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

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for winter months, which are poor.

AVERAGE DISCHARGE.--17 years, 6.29 ft³/s (0.178 m³/s), 4,560 acre-ft/yr (5.62 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 128 ft³/s (3.62 m³/s) June 3, 1975, gage height, 3.69 ft (1.125 m); maximum gage height recorded, 4.26 ft (1.298 m) Jan 30, 1979 (backwater from ice); minimum, 0.11 ft³/s (0.003 m³/s) Sept. 4, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Apr. 5	0600	*31	0.88	2.52	0.768
Apr. 28	0300	26	0.74	2.46	0.750

Minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	1.3	1.5	1.3	3.0	5.2	20	17	7.9	3.3	2.0
2	1.2	1.5	1.3	1.4	1.2	3.0	4.8	23	16	7.0	3.2	1.9
3	1.3	1.5	1.4	1.3	1.2	2.8	4.7	26	15	6.8	3.1	1.8
4	1.2	1.4	1.4	1.2	1.3	2.7	4.7	29	15	6.6	3.0	1.8
5	1.2	1.4	1.4	1.3	1.3	2.6	4.6	28	14	6.2	2.9	1.8
6	1.2	1.5	1.4	1.4	1.4	3.0	4.4	27	13	5.9	2.8	1.8
7	1.2	1.5	1.4	1.4	1.5	2.6	4.1	25	12	5.6	3.0	1.7
8	1.4	1.4	1.4	1.3	1.5	2.5	3.8	23	12	5.5	2.9	1.8
9	1.2	1.4	1.5	1.2	1.6	2.5	3.6	22	11	5.2	2.7	1.9
10	1.4	1.5	1.5	1.2	1.7	2.5	4.0	21	11	4.8	2.5	2.0
11	1.6	1.4	1.5	1.3	1.8	2.6	9.3	19	9.9	4.6	2.5	2.0
12	1.5	1.4	1.4	1.3	1.9	2.4	14	17	9.7	4.3	2.5	2.0
13	1.4	1.4	1.6	1.3	2.0	2.5	14	15	10	4.2	2.5	2.0
14	1.3	1.5	1.5	1.3	2.2	2.6	14	14	9.5	4.0	2.4	2.1
15	1.3	1.5	1.5	1.4	2.5	2.7	14	13	9.3	3.8	2.3	2.2
16	1.3	1.5	1.5	1.4	3.6	2.7	13	13	9.0	3.9	2.3	2.3
17	1.3	1.5	1.8	1.4	3.3	2.5	12	14	8.7	3.8	2.2	2.2
18	1.3	1.4	1.5	1.4	2.9	2.3	12	17	8.7	3.6	2.3	2.9
19	1.3	1.4	1.6	1.4	2.9	2.6	12	16	8.8	3.5	2.4	2.9
20	1.3	1.4	1.5	1.4	3.1	3.6	11	16	8.6	3.3	2.3	2.4
21	1.3	1.4	1.5	1.4	3.8	3.1	10	16	8.5	3.2	2.2	2.2
22	1.3	1.4	1.4	1.4	4.1	3.0	9.8	18	8.3	3.0	2.2	2.1
23	1.3	1.4	1.3	1.4	3.9	3.5	9.9	19	7.8	2.9	2.2	2.0
24	1.4	1.4	1.2	1.5	3.5	4.8	11	21	7.8	3.5	2.2	2.2
25	1.5	1.4	1.2	1.5	3.3	6.5	12	22	7.6	3.7	2.1	2.6
26	1.5	1.3	1.3	1.6	2.2	6.9	14	23	7.2	4.8	2.1	12
27	1.5	1.2	1.3	1.6	3.1	6.8	15	25	6.8	5.7	2.3	8.6
28	1.6	1.3	1.4	1.5	3.0	8.0	16	24	6.8	4.8	2.8	7.5
29	1.6	1.3	1.6	1.5	---	7.0	19	23	6.9	4.2	2.6	7.5
30	1.3	1.2	1.6	1.4	---	6.0	18	20	8.1	3.8	2.3	7.5
31	1.5	---	1.6	1.4	---	5.6	---	19	---	3.5	2.2	---
TOTAL	41.8	42.3	44.8	43.0	67.1	114.9	303.9	628	304.0	143.6	78.3	95.7
MEAN	1.35	1.41	1.45	1.39	2.40	3.71	10.1	20.3	10.1	4.63	2.53	3.19
MAX	1.6	1.5	1.8	1.6	4.1	8.0	19	29	17	7.9	3.3	12
MIN	1.1	1.2	1.2	1.2	1.2	2.3	3.6	13	6.8	2.9	2.1	1.7
AC-FT	83	84	89	85	133	228	603	1250	603	285	155	190

CAL YR 1981 TOTAL 1131.59 MEAN 3.10 MAX 15 MIN .74 AC-FT 2240
WTR YR 1982 TOTAL 1907.40 MEAN 5.23 MAX 29 MIN 1.1 AC-FT 3780

BIG SMOKY VALLEY (NORTHERN PART)

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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 current year, monthly.

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 current year, monthly.

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.

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 current year, monthly.

INSTRUMENTATION.--Temperature recorder from April 1966 to September 1982.

REMARKS.--Periods of no record for daily water temperature are due to recorder malfunction.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 158 micromhos May 8, 1975; 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.

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

WATER TEMPERATURES: Maximum, 17.0°C July 31, Aug. 26; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO ₃)
OCT										
21...	1215	1.3	135	8.3	6.0	9.7	97	K1	K43	54
NOV										
17...	1115	1.5	138	--	5.0	10.0	99	<1	75	62
JAN										
26...	1200	1.6	120	--	2.0	10.6	98	<1	47	52
FEB										
22...	1230	4.1	137	8.0	6.0	9.2	93	--	--	52
MAR										
23...	1045	2.5	130	--	2.0	11.2	102	<1	K6	55
APR										
19...	1350	12	125	7.6	6.5	10.1	103	<1	--	49
MAY										
18...	1215	18	88	7.6	6.0	10.1	103	K1	61	34
JUN										
15...	1400	9.0	82	7.7	12.0	8.4	99	<1	K23	31
JUL										
20...	1130	3.7	100	8.3	13.0	8.3	99	K1	120	39
AUG										
17...	1335	2.4	113	8.9	15.5	7.7	99	<2	120	45
SEP										
28...	1030	7.5	130	7.9	6.5	9.9	102	--	--	50

K: NON-IDEAL COLONY COUNT.

BIG SMOKY VALLEY (NORTHERN PART)

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT 21...	19	1.6	6.7	.4	.8	57	5.0	1.8	.2	21
NOV 17...	19	1.7	6.7	.4	1.0	59	<5.0	1.4	.1	21
JAN 26...	18	1.6	5.8	.4	.7	59	5.0	1.6	.1	18
FEB 22...	18	1.6	6.1	.4	.8	59	7.0	2.4	.2	19
MAR 23...	19	1.8	5.9	.4	1.0	61	<5.0	2.1	.2	18
APR 19...	17	1.5	6.3	.4	.7	53	5.0	3.0	<.1	19
MAY 18...	12	1.0	5.1	.4	.8	39	5.0	1.9	.1	19
JUN 15...	11	.9	5.9	.5	.7	39	<5.0	1.1	.1	20
JUL 20...	14	1.0	5.8	.4	.8	50	<5.0	1.4	.1	20
AUG 17...	16	1.2	6.1	.4	.8	57	<5.0	3.4	.1	21
SEP 28...	18	1.3	6.2	.4	1.0	59	7.0	2.2	.1	21

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 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
OCT 21...	98	90	.34	<.10	<.09	<.060	<.060	--	--
NOV 17...	94	--	.38	<.09	<.09	.080	.110	.71	.55
JAN 26...	88	86	.38	<.09	<.09	.070	<.070	.14	--
FEB 22...	89	91	.99	<.10	<.10	.090	.070	.60	.37
MAR 23...	83	--	.56	<.10	<.10	<.060	<.060	--	--
APR 19...	91	84	3.0	<.10	<.10	<.060	<.060	--	--
MAY 18...	64	68	3.0	<.10	<.10	.110	.100	.79	.60
JUN 15...	83	--	2.0	<.10	<.10	.060	--	.84	--
JUL 20...	76	--	.76	<.10	<.10	.080	.080	.82	.52
AUG 17...	98	--	.64	<.10	<.10	.070	.070	.63	.33
SEP 28...	85	92	1.7	.20	<.10	<.060	<.060	--	--

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 21...	.28	.26	--	.010	.020	<.010	1.7	--	--
NOV 17...	.79	.66	--	.010	<.010	<.020	.9	--	--
JAN 26...	.21	.19	--	.010	<.010	--	.9	--	--
FEB 22...	.69	.44	--	<.010	<.010	--	2.1	--	--
MAR 23...	.59	.42	--	.010	<.010	--	.9	--	--
APR 19...	.53	.53	--	.010	<.010	--	2.3	--	--
MAY 18...	.90	.70	--	.020	<.010	--	--	3.1	.5
JUN 15...	.90	--	--	.050	.050	--	3.3	--	--
JUL 20...	.90	.60	--	.040	.020	--	1.7	--	--
AUG 17...	.70	.40	--	.040	.020	--	--	2.0	.2
SEP 28...	.70	.50	.90	--	.040	--	2.6	--	--

BIG SMOKY VALLEY (NORTHERN PART)

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
MAY 18...	1215	3	3	100	11	<3	<1	<3	<10	3	<9
AUG 17...	1335	5	5	100	14	1	<1	<1	<10	<1	<3

	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
MAY 18...	2	<10	230	49	3	<30	<12	10	<3	.1	<.1
AUG 17...	<1	<10	130	8	<1	<10	14	<10	3	.1	<.1

DATE	TIME	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL SOLVED (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
MAY 18...		<30	<1	<1	<1	<1	71	<10	10	<12	<.01
AUG 17...		<10	<1	<1	<1	<1	93	<6.0	--	10	<.01

DATE	TIME	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	PCB, TOTAL (UG/L)
OCT 21...	1215	2.8	4.1	<.4	2.0	<.4	1.9	<.4	.08	2.4	.00

DATE	TIME	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)
OCT 21...	0	.0	.00	.00	.0	.00	.0	.00	.0	.00	.1	.00

DATE	TIME	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 21...	.0	.00	.00	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TIME	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOT. MA- TERIAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOT. MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 21...	.00	.0	.00	.00	.0	.00	.00	.0	.00	.00	.00	.0

BIG SMOKY VALLEY (NORTHERN PART)

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 21...	.00	.00	.00	.00	0	.0	.00	.00	.00	.00	.00

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
OCT 21...	1215	2	.01
NOV 17...	1115	5	.02
JAN 26...	1200	7	.03
FEB 22...	1230	4	.04
MAR 23...	1045	2	.01
APR 19...	1350	8	.26
MAY 18...	1215	36	1.7
JUN 15...	1400	8	.19
JUL 20...	1130	13	.13
AUG 17...	1335	8	.05
SEP 28...	1030	5	.10

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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10249900 CHIATOVICH CREEK NEAR DYER, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 37°50'00", long 118°12'10", in NE¼NE¼ sec.28, T.1 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, on left bank 300 ft (90 m) downstream from Middle Creek, 5 mi (8 km) west of State Highway 3A, and 10 mi (16 km) northwest of Dyer.

DRAINAGE AREA.--37.3 mi² (96.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to September 1982 (discontinued).

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

REMARKS.--Records fair except during winter months, which are poor.

AVERAGE DISCHARGE.--22 years, 8.87 ft³/s (0.251 m³/s), 6,430 acre-ft/yr (7.93 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 8	1100	ice jam	*1.54 0.469	Aug. 28	0500	23 0.65	1.49 0.454
Apr. 11	1000	*28 0.79	1.50 0.457	Sept. 26	1300	25 0.71	1.49 0.454
July 29	2100	21 0.59	1.46 0.445				

Minimum daily discharge, 5.9 ft³/s (0.17 m³/s) Jan. 9, June 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	9.2	8.9	6.6	6.7	7.0	7.3	7.8	7.1	13	16	16
2	8.9	8.9	9.1	6.5	6.7	7.0	7.5	8.3	7.2	12	16	16
3	8.9	8.9	9.3	6.2	6.9	7.3	7.0	8.7	7.0	11	16	16
4	8.9	8.9	9.5	6.5	6.7	7.3	6.7	8.5	6.8	11	17	15
5	8.9	8.6	9.6	6.9	6.6	7.0	6.7	8.1	6.8	11	16	14
6	8.9	8.9	9.7	7.0	6.2	8.0	6.6	7.9	6.3	11	17	13
7	8.6	8.9	9.8	6.9	6.6	6.7	7.9	8.0	6.4	11	18	14
8	8.6	8.9	9.9	6.5	7.1	6.8	6.6	7.9	6.1	11	17	14
9	9.2	9.2	10	5.9	6.7	6.7	6.6	8.8	6.1	11	16	14
10	9.7	9.2	10	6.5	6.6	6.9	6.9	8.3	5.9	11	16	15
11	9.7	9.2	10	7.0	6.7	6.9	17	8.6	5.9	11	17	14
12	11	9.2	10	7.3	6.6	6.9	11	8.2	6.0	11	16	14
13	11	9.7	10	7.8	7.1	6.8	9.3	7.9	6.1	12	17	15
14	11	10	9.7	8.1	7.3	7.2	8.6	8.3	6.1	12	17	15
15	9.7	9.4	9.4	7.8	7.9	7.0	8.3	8.0	6.0	12	17	15
16	9.4	9.2	10	8.1	8.2	6.4	8.2	7.8	6.0	13	17	15
17	9.2	9.2	10	7.8	6.9	6.6	8.1	7.5	6.7	13	17	15
18	9.2	8.6	10	7.6	6.8	7.2	8.1	7.4	8.0	13	17	15
19	9.2	9.1	9.8	7.3	7.9	8.1	8.0	7.3	8.1	13	17	14
20	9.2	9.1	9.0	7.3	7.9	7.8	7.8	7.1	7.2	13	17	14
21	9.2	8.9	8.6	6.7	7.9	7.6	7.8	7.1	9.5	13	16	13
22	9.2	8.9	6.6	6.4	7.5	7.4	7.6	7.3	7.7	13	16	13
23	9.2	8.6	6.9	6.7	6.9	7.8	7.6	7.2	7.0	14	17	13
24	9.2	8.6	7.2	7.0	6.8	7.8	7.9	7.2	7.7	15	17	17
25	9.4	7.6	7.4	7.6	6.8	7.6	7.8	7.0	7.5	17	16	17
26	9.4	7.0	7.5	7.1	6.8	8.0	7.7	7.0	7.3	18	16	19
27	9.2	7.8	7.6	6.5	6.7	7.3	7.8	7.1	7.6	18	17	17
28	9.2	8.2	7.6	6.6	6.7	6.9	7.9	7.3	8.4	17	20	16
29	8.6	8.5	7.8	6.5	---	7.3	7.9	7.3	12	17	17	15
30	8.6	8.7	7.6	6.8	---	8.3	7.6	7.1	14	17	17	14
31	9.2	---	7.1	6.7	---	6.8	---	7.1	---	16	16	---
TOTAL	288.5	265.1	275.6	216.2	196.2	224.4	241.8	239.1	220.5	411	519	447
MEAN	9.31	8.84	8.89	6.97	7.01	7.24	8.06	7.71	7.35	13.3	16.7	14.9
MAX	11	10	10	8.1	8.2	8.3	17	8.8	14	18	20	19
MIN	8.6	7.0	6.6	5.9	6.2	6.4	6.6	7.0	5.9	11	16	13
AC-FT	572	526	547	429	389	445	480	474	437	815	1030	887

CAL YR 1981 TOTAL 3321.3 MEAN 9.10 MAX 15 MIN 5.9 AC-FT 6590
WTR YR 1982 TOTAL 3544.4 MEAN 9.71 MAX 20 MIN 5.9 AC-FT 7030

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1960 to September 1982.

CHEMICAL ANALYSES: October 1974 to September 1981, monthly; October 1981 to September 1982, every two months.

SPECIFIC CONDUCTANCES: October 1974 to March 1975, monthly; April 1975 to October 1980, once daily; November 1980 to September 1981, monthly; October 1981 to September 1982, every two months.

BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).

MICROBIOLOGICAL AND SEDIMENT DATA: January 1975 to September 1981, monthly; October 1981 to September 1982, every two months.

WATER TEMPERATURES: September 1960 to March 1975, monthly; April 1975 to October 1980, once daily; November 1980 to September 1981, monthly; October 1981 to September 1982, every two months.

REMARKS.--Daily sampling and temperature measurement were done approximately 100 ft upstream from State Highway 3A, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.1 S, R.35 E. Water temperatures at daily site are as much as 4.0°C greater than those at gage (on basis of monthly data for March 1975 to September 1976); greatest differences occur during summer. Specific conductance is not significantly different at the two sites.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 82 micromhos Mar. 21, 1977; minimum, 48 micromhos July 21, 1980.

PHYTOPLANKTON: Maximum, 3,200 cells/mL Sept. 18, 1975; minimum, 13 cells/mL Aug. 20, 1980.

FECAL STREPTOCOCCI: Maximum, 600 colonies/100 mL Sept. 18, 1975; minimum, 2 colonies/100 mL (non-ideal colony count) Feb. 24, 1976, and Mar. 17, 1980.

WATER TEMPERATURES: Maximum, 36.5°C July 14, 1965; minimum, freezing point on several days during winter months of some years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 195 mg/L June 27, 1978; minimum, 13 mg/L Feb. 6, and Dec. 18, 1975, and Feb. 13, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	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 16...	1335	9.0	54	6.9	5.0	.80	10.2	101	<1	160	19	6.6
JAN 25...	1330	7.4	50	7.2	3.0	1.8	10.5	98	K1	280	21	7.4
MAR 22...	1130	6.8	56	7.3	3.5	1.2	11.0	105	<1	220	21	7.4
MAY 17...	1330	7.6	57	7.5	12.0	2.5	8.4	99	K1	150	21	7.4
JUL 19...	1405	12	49	8.2	14.5	2.7	7.9	98	K35	210	18	6.2
SEP 27...	1415	16	51	7.5	7.0	2.5	9.4	99	50	--	18	6.4

K: NON-IDEAL COLONY COUNT.

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 16...	.6	2.9	.3	1.2	26	<5.0	.6	.2	16	43	--	1.0
JAN 25...	.6	3.1	.3	.8	26	<5.0	.6	.2	16	44	--	.88
MAR 22...	.6	3.5	.3	1.0	29	<5.0	.7	.3	18	43	--	.79
MAY 17...	.7	3.9	.4	.9	28	5.0	.6	.2	17	46	53	.94
JUL 19...	.5	2.8	.3	.9	26	<5.0	.6	.2	14	37	--	1.2
SEP 27...	.6	3.0	.3	.9	28	<5.0	.6	.2	15	40	--	1.7

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, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
NOV 16...	<.09	.130	.74	.010	.010	<.020	1	<1	<100	10	<1	<1
JAN 25...	<.09	<.070	<.21	.010	<.010	.010	--	--	--	--	--	--
MAR 22...	<.10	<.060	.29	.020	.010	<.010	1	<1	<100	11	1	<1
MAY 17...	<.10	.090	.50	.030	<.010	.010	--	--	--	--	--	--
JUL 19...	<.10	.080	1.00	.070	.030	.030	<1	<1	100	13	1	<1
SEP 27...	.23	.080	.70	--	.170	.160	1	<1	100	18	<1	<1

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 16...	10	<10	<1	<3	3	<1	260	51	2	--	20	3
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	<10	<10	1	<1	9	<1	360	24	3	<1	20	2
MAY 17...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	10	<10	<1	<1	2	1	640	51	<1	<1	30	3
SEP 27...	10	<10	<1	1	1	1	500	56	4	<1	20	5

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 16...	<.1	<.1	4	3	<1	<1	<1	<1	10	6	44	1.1
JAN 25...	--	--	--	--	--	--	--	--	--	--	21	.42
MAR 22...	<.1	<.1	<1	<1	<1	<1	<1	<1	20	5	23	.42
MAY 17...	--	--	--	--	--	--	--	--	--	--	24	.49
JUL 19...	.3	.1	<1	2	<1	<1	<1	<1	10	10	36	1.2
SEP 27...	.1	.1	<1	2	<1	<1	<1	<1	10	10	36	1.6

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 (61 m) upstream of Carpenter Road, 11 mi (18 km) east of State Highway 16, and 14.5 mi (23.3 km) east of Pahrump.

DRAINAGE AREA.--3.09 mi² (8.00 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,100 m), from topographic map.

REMARKS.--Records fair except those for period of no gage height record Jan. 2 to Feb. 19, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 28 ft³/s (0.79 m³/s) May 14, 1978, gage height, 8.11 ft (2.472 m); minimum 0.20 ft³/s (0.006 m³/s) Dec. 21, 1977, Jan. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 11 ft³/s (0.312 m³/s) Apr. 29, gage height, 7.83 ft (2.387 m); minimum daily, 0.25 ft³/s (0.007 m³/s) Jan. 2-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.45	.38	.26	.30	.31	1.1	7.2	3.6	1.3	1.3	1.2
2	.54	.45	.38	.25	.30	.31	.82	6.5	3.3	1.3	1.3	1.1
3	.54	.45	.38	.25	.30	.31	.82	6.5	2.9	1.2	1.2	1.0
4	.54	.45	.34	.25	.30	.31	.96	6.5	2.9	1.2	1.2	.96
5	.54	.45	.34	.25	.30	.31	1.1	5.9	2.9	1.2	1.1	.96
6	.54	.41	.31	.25	.30	.31	1.0	6.2	2.7	1.1	1.1	.96
7	.54	.41	.31	.25	.31	.31	.96	6.8	2.5	1.1	1.1	.96
8	.54	.41	.31	.25	.31	.31	.89	7.2	2.4	1.1	1.1	.96
9	.54	.41	.31	.25	.31	.31	.89	5.9	2.2	1.1	1.1	.96
10	.54	.41	.31	.25	.31	.31	.89	4.7	2.2	1.1	1.0	1.0
11	.59	.41	.31	.26	.31	.34	2.0	4.0	2.1	1.1	.96	.96
12	.59	.41	.31	.26	.31	.38	6.5	3.6	2.1	1.1	1.0	.96
13	.54	.41	.31	.26	.31	.34	5.3	3.1	2.0	1.1	1.0	.96
14	.54	.38	.31	.26	.32	.58	5.3	3.3	1.9	1.1	.96	.93
15	.54	.38	.31	.26	.32	.45	5.9	3.6	1.8	1.1	.89	.89
16	.54	.38	.31	.27	.32	.41	5.0	3.6	1.8	1.1	.89	.82
17	.50	.38	.28	.27	.32	.45	5.0	4.2	1.8	1.1	.89	.82
18	.50	.38	.28	.27	.32	.47	5.6	5.0	1.8	1.1	.89	.89
19	.45	.38	.28	.27	.32	.48	5.9	5.0	1.7	1.1	.89	.89
20	.45	.38	.28	.27	.38	.50	5.9	5.6	1.7	1.1	.89	.89
21	.45	.38	.31	.28	.45	.52	5.0	5.9	1.7	1.1	.82	.82
22	.45	.38	.30	.28	.50	.53	4.0	5.6	1.7	1.1	.89	.89
23	.45	.38	.29	.28	.45	.54	3.6	5.0	1.6	1.2	1.0	.89
24	.45	.38	.28	.28	.41	.64	3.8	5.0	1.6	1.2	3.6	.89
25	.50	.38	.27	.28	.38	.76	3.6	5.3	1.5	1.3	4.5	.89
26	.50	.38	.26	.29	.34	.70	4.7	5.0	1.4	1.4	4.2	.89
27	.50	.38	.26	.29	.31	.70	5.6	4.7	1.4	2.1	2.6	1.0
28	.50	.38	.26	.29	.31	1.0	6.8	4.7	1.4	2.0	2.0	.96
29	.50	.38	.26	.29	---	.96	8.8	4.5	1.4	1.8	1.6	1.0
30	.50	.38	.26	.29	---	.76	8.8	4.2	1.4	1.6	1.4	1.0
31	.50	---	.26	.29	---	.76	---	3.8	---	1.4	1.3	---
TOTAL	15.94	11.99	9.36	8.30	9.42	15.37	116.53	158.1	61.4	38.9	44.67	28.30
MEAN	.51	.40	.30	.27	.34	.50	3.88	5.10	2.05	1.25	1.44	.94
MAX	.59	.45	.38	.29	.50	1.0	8.8	7.2	3.6	2.1	4.5	1.2
MIN	.45	.38	.26	.25	.30	.31	.82	3.1	1.4	1.1	.82	.82
AC-FT	32	24	19	16	19	30	231	314	122	77	89	56
CAL YR 1981	TOTAL	220.55	MEAN	.60	MAX	2.3	MIN	.26	AC-FT	437		
WTR YR 1982	TOTAL	518.28	MEAN	1.42	MAX	8.8	MIN	.25	AC-FT	1030		

WALKER LAKE BASIN

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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 (8.8 km) northwest of Hawthorne.

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

DRAINAGE AREA.--4,050 mi² (10,500 km²), 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 Hawthorne Ammunition Plant).

REMARKS.--Altitudes determined from reference points referred to U.S.C. G.S. bench mark. Altitudes are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft (8.58 km³) Mar. 13, 1928, altitude, 4,051.8 ft (1,234.99 m), Indian Service; minimum observed, 2,372,000 acre-ft (2.92 km³) Jan. 25, 1982, altitude, 3952.9 ft (1,204.84 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--An altitude of 4,078.0 ft (1,242.97 m), adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft or 10.6 km³, table now in use).

MONTHEND ALTITUDES AND TOTAL CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	3953.5	2,393,000	--
Oct. 31.	3953.6	2,396,000	+ 3,000
Nov. 30.	3953.4	2,389,000	- 7,000
Dec. 31.	3953.1	2,379,000	-10,000
CAL YR 1981	--	--	-109,000
Jan. 31.	3952.9	2,372,000	-7,000
Feb. 28.	3953.0	2,375,000	+3,000
Mar. 31.	3953.2	2,382,000	+7,000
Apr. 30.	3953.6	2,396,000	+14,000
May 31.	3954.3	2,421,000	+25,000
June 30.	3955.2	2,452,000	+31,000
July 31.	3955.9	2,477,000	+25,000
Aug. 31.	3955.7	2,470,000	-7,000
Sep. 30.	3955.7	2,470,000	0
WTR YR 1981-82.	--	--	+77,000

NOTE: Monthend 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 (16 km) southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi² (76.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 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 (2.55 hm³) between elevations 7,200 ft (2,194.6 m) natural rim, and 7,207 ft (2,196.7 m), spillway crest.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,920 acre-ft (3.60 hm³) July 2, 1980, elevation, 7,209.65 ft (2,197.501 m); minimum observed, 62 acre-ft (76,400 m³) Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft (2,194.627 m).

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,890 acre-ft (3.56 hm³) Sept. 26, elevation, 7,209.55 ft (2,197.471 m); minimum, 389 acre-ft (480,000 m³) Nov. 9, elevation, 7,201.39 ft (2,194.984 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,202.06	577	--
Oct. 31	7,202.65	742	+165
Nov. 30	7,205.46	1,580	+838
Dec. 31	7,207.50	2,230	+650
CAL YR 1981	--	--	+ 60
Jan. 31	7,207.37	2,190	- 40
Feb. 28	7,207.51	2,230	+ 40
Mar. 31	7,207.46	2,220	- 10
Apr. 30	7,208.12	2,430	+210
May 31	7,208.86	2,670	+240
June 30	7,209.09	2,740	+ 70
July 31	7,208.80	2,650	- 90
Aug. 31	7,208.21	2,460	-190
Sep. 30	7,208.15	2,440	- 20
WTR YR 1981-82	--	--	+1863

WALKER LAKE BASIN

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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 (13 km) southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi² (100.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 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 (4.94 hm³) between elevations 7,190 ft (2,192 m) natural rim, and 7,200 ft (2,195 m), spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,490 acre-ft (6.77 hm³) June 6, 1969, elevation, 7,203.51 ft (2,195.630 m); no contents Nov. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,230 acre-ft (6.45 hm³) June 29, elevation, 7,202.84 ft (2,195.426 m); minimum, 700 acre-ft (863,100 m³) Oct. 1, elevation, 7191.75 ft (2192.045 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	--	9724	--
Oct. 31.	--	91,070	+346
Nov. 30.	--	91,440	+370
Dec. 31.	7,197.36	2,940	+1,500
CAL YR 1981	--	--	-930
Jan. 31.	--	94,210	+1,270
Feb. 28.	7,200.75	4,330	+120
Mar. 31.	7,200.81	4,350	+ 20
Apr. 30.	7,199.83	3,940	-410
May 31.	7,201.97	4,850	+910
June 30.	7,202.73	5,180	+330
July 31.	7,202.10	4,900	-280
Aug. 31.	7,200.98	4,420	-480
Sep. 30.	7,201.12	4,480	+60
WTR YR 1981-82.	--	--	+3,756

9 Interpolated.

WALKER LAKE BASIN

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 (7.2 km) north of Bridgeport.

DRAINAGE AREA.--358 mi² (927 km²).

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft (55.3 hm³) June 16, 1974, altitude, 6,460.78 ft (1,969.246 m); no contents during fall of 1929, 1930, 1960, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,790 acre-ft (52.8 hm³) July 27, altitude, 6,460.11 ft (1,969.042 m); minimum, 3,100 acre-ft (3.82 hm³), altitude, 6,435.33 ft (1,961.489 m), Oct. 13.

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 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3390	4190	9980	15840	21230	31040	36010	24970	30240	38900	42080	36960
2	3350	4360	10150	15950	21400	31230	36040	24770	30680	38650	42260	36530
3	3290	4490	10300	16110	21600	31520	36040	24580	31070	38370	42290	36040
4	3260	4630	10450	16450	21740	31800	35910	24390	31330	38260	42290	35650
5	3240	4770	10660	16560	21900	32000	35650	24240	31750	38350	42340	35200
6	3210	4890	10830	16710	22070	32330	35250	24160	32080	38680	42320	34800
7	3180	5010	10970	16850	22190	32510	34950	23960	32430	39040	42260	34330
8	3180	5130	11120	16980	22320	32720	34560	23830	32670	39480	42400	33960
9	3160	5260	11260	17130	22540	33040	34250	23640	33020	39950	42340	33550
10	3140	5370	11420	17280	22790	33250	33990	23640	33430	40420	42290	32990
11	3120	5500	11530	17400	22980	33450	35960	23700	33960	40940	42110	32740
12	3110	5640	11680	17610	23580	33650	36260	23750	34610	41320	41940	32410
13	3100	6240	11870	17750	24170	33860	35860	23700	35250	41580	41640	32130
14	3100	6980	12010	17890	24760	34060	35040	23540	35910	41910	41380	31900
15	3110	7220	12140	18060	25360	34190	34090	23580	36200	42200	41000	31620
16	3150	7510	12260	18260	25960	34380	33270	23600	36040	42460	40650	31550
17	3190	7740	12400	18440	26550	34540	32510	23560	35880	42580	40300	31500
18	3240	7950	12550	18540	27140	34720	31720	23600	36150	42550	39860	31400
19	3270	8160	12810	18680	27740	34900	30900	23620	36550	42520	39400	31260
20	3300	8380	13350	18870	28340	35090	30070	23730	36870	42520	39150	31230
21	3320	8550	13610	19060	28930	35250	29450	23870	37040	42490	38760	31190
22	3340	8730	13810	19200	29520	35470	28790	24220	37260	42400	38510	31140
23	3360	8910	14010	19460	30120	35620	28240	24730	37370	42460	38210	31140
24	3380	9000	14250	19700	30360	35730	27690	25340	37370	42460	38090	31650
25	3420	9140	14480	19960	30440	35730	27160	26050	37790	42460	38070	32260
26	3440	9260	14700	20090	30490	35830	26640	25940	37950	42640	37870	33070
27	3440	9380	14840	20250	30630	35830	26290	27370	38150	42790	37700	33600
28	3640	9550	15020	20510	30920	35700	25830	28240	38260	42760	37730	34270
29	3740	9700	15320	20680	---	35730	25560	28720	38570	42640	37650	34510
30	3890	9800	15490	20840	---	35800	25300	29300	38820	42370	37460	35140
31	4040	---	15710	21030	---	35910	---	29740	---	42290	37240	---
MAX	4040	9800	15710	21030	30920	35910	36260	29740	38820	42790	42400	36960
MIN	3100	4190	9980	15840	21230	31040	25300	23540	30240	38260	37240	31140
†	6436.98	6443.64	6448.15	6451.21	6455.73	6457.68	6453.29	6455.24	6458.74	6459.94	6458.17	6457.39
‡	+620	+5760	+5910	+5320	+9890	+4990	-10610	+4440	+9080	+3470	-5050	-2100

CAL YR 1981 MAX 42670 MIN 3100 † -15640
WTR YR 1982 MAX 42790 MIN 3100 ‡ +31720

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

WALKER LAKE BASIN

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10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank 1,500 ft (500 m) downstream from Bridgeport Reservoir, 5 mi (8 km) north of Bridgeport, and 10 mi (16 km) upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi² (930 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1927: Drainage area.

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

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--59 years (1922-24, 1925-82), 140 ft³/s (3.965 m³/s), 101,400 acre-ft/yr (125 hm³/yr), unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) June 30, gage height, 3.82 ft (1.164 m); minimum daily, 4.8 ft³/s (0.14 m³/s) Feb. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	5.6	8.3	8.0	7.9	23	109	446	396	961	490	434
2	72	5.6	8.3	8.0	7.5	22	147	447	362	842	378	450
3	71	5.6	8.3	8.0	7.2	23	185	445	335	814	368	449
4	73	7.5	8.5	8.0	6.6	23	253	447	307	698	371	448
5	73	7.5	8.3	8.0	6.6	23	312	445	301	537	353	446
6	72	7.7	8.3	8.0	6.8	23	312	421	301	407	340	447
7	72	7.9	8.4	7.9	7.3	23	311	436	295	354	340	429
8	74	8.0	8.4	7.9	7.0	23	311	453	275	320	340	390
9	73	7.9	8.4	7.8	7.7	24	311	453	260	338	344	385
10	73	7.9	8.4	7.4	6.2	24	321	423	251	344	371	355
11	73	7.9	8.4	7.7	5.1	23	586	404	250	334	381	338
12	75	7.9	8.4	7.9	4.8	24	628	403	251	413	381	338
13	75	8.0	8.4	7.9	4.8	25	669	403	251	486	378	317
14	70	8.3	8.4	8.3	5.1	25	740	386	352	454	384	291
15	62	7.9	8.4	8.3	5.8	25	738	376	528	413	413	275
16	49	7.6	8.2	8.3	55	25	695	375	708	490	410	264
17	50	6.7	8.2	8.3	181	25	625	363	799	593	410	246
18	50	5.1	8.2	8.6	98	24	620	352	797	609	407	246
19	50	5.1	8.2	9.0	50	26	617	353	820	609	407	246
20	50	5.8	8.2	9.3	50	25	615	353	893	581	407	236
21	51	7.5	8.2	9.2	51	25	579	356	890	565	407	214
22	51	7.9	8.2	9.3	51	25	558	339	891	557	404	202
23	51	8.2	8.2	9.0	51	32	525	325	908	553	407	180
24	51	8.6	8.2	9.3	81	50	505	324	865	550	394	178
25	53	8.7	8.2	9.2	161	62	504	327	747	553	371	178
26	53	8.5	8.2	9.3	149	88	500	331	713	573	371	178
27	53	9.2	8.2	9.3	94	96	465	354	714	617	371	178
28	53	8.9	8.2	9.3	54	111	448	395	750	723	381	204
29	50	8.8	8.2	9.3	---	111	448	401	882	782	413	241
30	20	8.4	8.2	9.3	---	109	444	404	1000	684	410	251
31	6.0	---	8.2	8.9	---	109	---	407	---	573	410	---
TOTAL	1821.0	226.2	256.8	264.0	1222.4	1296	14081	12147	17092	17327	12012	9034
MEAN	58.7	7.54	8.28	8.52	43.7	41.8	469	392	570	559	387	301
MAX	75	9.2	8.5	9.3	181	111	740	453	1000	961	490	450
MIN	6.0	5.1	8.2	7.4	4.8	22	109	324	250	320	340	178
AC-FT	3610	449	509	524	2420	2570	27930	24090	33900	34370	23830	17920
CAL YR 1981	TOTAL	42427.0	MEAN 116	MAX 326	MIN 5.1	AC-FT 84150						
WTR YR 1982	TOTAL	86779.4	MEAN 238	MAX 1000	MIN 4.8	AC-FT 172100						

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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT									
21...	1400	71	194	--	12.5	--	--	--	--
27...	1340	53	180	--	7.5	--	--	--	--
NOV									
30...	1430	8.4	200	--	2.5	--	--	--	--
JAN									
08...	1330	8.1	200	--	2.0	--	--	--	--
28...	1340	9.3	229	--	3.0	--	--	--	--
FEB									
23...	1505	51	286	--	4.5	--	--	--	--
APR									
05...	1420	311	194	--	3.5	--	--	--	--
29...	1100	447	184	--	10.5	--	--	--	--
MAY									
26...	1635	330	147	--	13.0	--	--	--	--
JUL									
07...	1600	338	114	--	14.5	--	--	--	--
AUG									
30...	1210	410	110	--	18.5	--	--	--	--
SEP									
*22...	1410	175	130	9.0	14.0	2.0	8.2	48	14

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 CACO ₃)	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								
21...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
NOV								
30...	--	--	--	--	--	--	--	--
JAN								
08...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
FEB								
23...	--	--	--	--	--	--	--	--
APR								
05...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
MAY								
26...	--	--	--	--	--	--	--	--
JUL								
07...	--	--	--	--	--	--	--	--
AUG								
30...	--	--	--	--	--	--	--	--
SEP								
*22...	3.0	7.0	.4	1.9	51	1.0	72	34.0

* 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 (1.4 km) upstream from head of Strosnider ditch, 12 mi (19 km) southeast of Mason, and 13.5 mi (21.7 km) southeast of Yerington.

DRAINAGE AREA.--1,100 mi² (2,849 km²), 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 (1,394.186 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1957, near present site at datum 0.56 ft (0.171 m) higher. Oct. 24, 1957, to Apr. 3, 1974, at site 400 ft (120 m) 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 (4.021 m³/s), 102,900 acre-ft/yr (127 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft³/s (67.4 m³/s) Feb. 1, 1963, gage height, 7.60 ft (2.316 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) Apr. 12 gage height, 7.25 ft (2.210 m); minimum daily during period of operation, 98 ft³/s (2.78 m³/s) April 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							100	410	362	1100	559	352
2							98	410	351	1120	467	383
3							116	402	336	962	349	392
4							148	390	321	902	313	397
5							205	402	299	781	318	397
6							256	392	289	553	296	400
7							254	361	288	417	290	395
8							252	381	281	343	305	375
9							253	390	266	318	292	345
10							257	395	252	320	281	336
11							379	361	243	318	305	311
12							1100	356	238	313	296	297
13							744	360	241	395	302	298
14							703	362	246	453	298	283
15							739	344	340	425	311	271
16							718	331	518	385	336	257
17							656	334	678	477	343	251
18							625	324	834	562	345	233
19							631	321	957	594	336	231
20							622	319	1000	594	338	231
21							601	317	1050	577	338	229
22							565	323	1080	565	351	211
23							562	305	1040	542	388	206
24							533	304	1020	544	451	206
25							513	1000	1000	591	410	207
26							510	851	851	586	338	198
27							494	788	788	607	327	198
28							446	781	781	637	356	200
29							430	862	862	721	371	218
30							417	970	970	785	373	254
31							---	360	---	675	349	---
TOTAL							13927	14206	17782	18162	10732	8562
MEAN							464	458	593	586	346	285
MAX							1100	1000	1080	1120	559	400
MIN							98	304	238	313	281	198
AC-FT							27620	28180	35270	36020	21290	16980

WALKER LAKE BASIN

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38" (revised), in NW¼NW¼ sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 0.8 mi (1.3 km) north of Sonora Junction, 1.5 mi (2.4 km) upstream from mouth, and 14 mi (23 km) northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi² (163.4 km²), revised.

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

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

REMARKS.--Records good except those for winter months, 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.--38 years (1944-82) 51.3 ft³/s (1.453 m³/s), 37,170 acre-ft/yr (45.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 31, 1963, gage height, 3.22 ft (0.982 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 2.80 ft (0.853 m); maximum gage height recorded, 3.63 ft (1.106 m) Jan. 3, 1945 (backwater from ice); minimum discharge 1.4 ft³/s (0.040 m³/s) Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 8	0900	ice jam	*2.48 0.756	May 26	2200	354 10.0	2.20 0.671
Feb. 16	0600	268 7.59	1.95 0.594	June 29	0800	364 10.3	2.18 0.664
Apr. 11	1500	*499 14.1	2.41 0.735	July 12	2400	279 7.90	1.98 0.604

Minimum daily discharge 12 ft³/s (0.34 m³/s) Oct. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	23	23	17	41	26	137	187	211	138	54
2	12	18	23	22	17	37	30	151	179	190	129	52
3	12	18	25	21	17	47	34	164	174	189	118	51
4	12	17	22	20	18	43	33	173	163	182	113	48
5	12	17	19	19	17	39	31	169	149	180	109	45
6	12	17	18	18	17	38	30	163	141	186	102	45
7	18	16	19	17	17	33	27	163	138	201	108	43
8	15	15	20	16	17	33	28	163	146	208	107	42
9	14	15	19	16	17	32	32	152	163	212	103	42
10	17	15	19	17	17	38	64	138	184	220	100	42
11	15	15	16	17	18	38	384	134	205	235	95	44
12	14	20	17	17	18	34	195	117	216	241	89	41
13	14	54	18	16	20	34	142	116	208	251	85	41
14	15	68	19	16	35	37	122	122	204	237	84	39
15	14	33	18	16	84	33	106	124	220	234	79	40
16	14	27	17	17	213	29	96	137	246	231	76	40
17	14	34	16	18	107	29	94	155	280	216	74	39
18	14	29	17	20	76	28	95	171	314	203	74	39
19	14	26	43	21	69	27	95	167	306	196	76	38
20	13	24	93	21	71	27	92	178	300	197	75	36
21	13	23	50	21	78	27	89	202	284	191	75	34
22	14	25	37	21	76	27	90	226	293	189	81	34
23	14	24	36	21	59	26	99	238	307	189	80	38
24	13	27	37	21	53	26	103	252	311	191	75	91
25	13	25	31	21	48	26	102	257	274	192	73	105
26	13	22	29	21	43	28	109	294	271	195	70	100
27	13	20	26	20	41	26	113	296	285	186	67	71
28	23	20	27	20	41	27	122	279	289	183	74	62
29	16	22	25	19	---	24	120	231	319	172	70	60
30	23	23	25	18	---	23	123	207	255	161	63	59
31	22	---	26	17	---	21	---	202	---	148	57	---
TOTAL	454	728	830	588	1321	978	2826	5678	7011	6217	2719	1515
MEAN	14.6	24.3	26.8	19.0	47.2	31.5	94.2	183	234	201	87.7	50.5
MAX	23	68	93	23	213	47	384	296	319	251	138	105
MIN	12	15	16	16	17	21	26	116	138	148	57	34
AC-FT	901	1440	1650	1170	2620	1940	5610	11260	13910	12330	5390	3010
CAL YR 1981	TOTAL	11551.1	MEAN 31.6	MAX 148	MIN 6.7	AC-FT 22910						
WTR YR 1982	TOTAL	30865.0	MEAN 84.6	MAX 384	MIN 12	AC-FT 61220						

WALKER LAKE BASIN

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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 (50 m) downstream from Little Walker River, 60 ft (20 m) upstream from bridge on U.S. Highway 395, and 13 mi (21 km) southeast of Coleville.

DRAINAGE AREA.--181 mi² (469 km²).

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 (2,009.056 m) National Geodetic Vertical Datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft (30 m) upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft (8 m) downstream at datum 1.00 ft (0.305 m) higher.

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

AVERAGE DISCHARGE.--44 years, 259 ft³/s (7.335 m³/s), 187,600 acre-ft/yr (231 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,120 ft³/s (31.7 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 16	1200	1,480 41.9	4.27 1.301	June 18	0500	2,110 59.8	4.95 1.509
Apr. 11	1500	1,570 44.5	4.26 1.298	July 13	0400	1,380 39.1	4.15 1.265
May 4	0100	1,360 38.5	4.07 1.241	Sept. 26	0100	2,070 58.6	4.91 1.497
May 27	0400	*2,330 66.0	5.13 1.564				

Minimum daily discharge, 27 ft³/s (0.76 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	68	104	111	84	191	117	918	1170	929	625	204
2	27	71	99	120	84	176	124	1040	1140	904	555	191
3	28	74	92	120	85	181	140	1150	1110	975	499	186
4	29	76	92	99	87	170	134	1230	1020	923	477	183
5	30	75	91	89	85	155	133	1170	912	910	473	172
6	29	74	88	80	84	150	125	1070	822	936	455	165
7	36	72	86	72	84	151	117	1110	817	1070	494	157
8	38	69	80	70	84	147	118	1140	893	1130	505	154
9	38	66	87	71	84	140	125	987	1060	1130	474	152
10	41	65	85	74	84	158	201	788	1240	1120	453	154
11	44	63	74	78	84	169	1150	696	1390	1210	401	164
12	40	74	80	72	85	157	1130	638	1430	1240	375	147
13	43	202	84	68	86	156	873	694	1310	1240	365	138
14	43	387	86	68	151	167	656	809	1240	1160	365	130
15	40	219	83	70	333	154	558	818	1430	1120	345	135
16	38	179	76	74	977	142	499	967	1630	1160	322	136
17	39	183	72	80	493	140	473	1140	1750	1090	309	130
18	41	141	79	92	355	137	477	1250	1920	949	320	124
19	43	136	207	93	293	134	490	1130	1710	949	335	124
20	43	122	690	92	289	127	481	1190	1720	952	347	118
21	43	115	458	90	309	126	468	1360	1530	922	350	110
22	42	128	276	90	331	122	481	1490	1480	958	363	105
23	42	149	231	90	278	121	530	1630	1590	941	356	112
24	42	171	198	90	247	120	596	1720	1630	979	316	484
25	41	131	186	94	227	122	596	1720	1410	968	296	1060
26	40	95	167	98	208	125	611	1920	1420	1030	285	1160
27	40	84	155	101	196	121	656	2090	1580	946	262	440
28	72	82	135	98	190	125	734	1850	1670	861	303	306
29	54	94	140	96	---	112	802	1440	1660	840	300	255
30	59	102	130	87	---	110	752	1260	1160	789	269	237
31	68	---	133	84	---	110	---	1260	---	701	230	---
TOTAL	1280	3567	4644	2711	5977	4416	14347	37675	40844	31032	11824	7333
MEAN	41.3	119	150	87.5	213	142	478	1215	1361	1001	381	244
MAX	72	387	690	120	977	191	1150	2090	1920	1240	625	1160
MIN	27	63	72	68	84	110	117	638	817	701	230	105
AC-FT	2540	7080	9210	5380	11860	8760	28460	74730	81010	61550	23450	14550
CAL YR 1981	TOTAL	60658	MEAN 166	MAX 916	MIN 26	AC-FT 120300						
WTR YR 1982	TOTAL	165650	MEAN 454	MAX 2090	MIN 27	AC-FT 328600						

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 1981 TO SEPTEMBER 1982*

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CaCO ₃)
SEP 22...	1335	149	91	3.0	14.0	<1.0	8.3	30

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- LILITY LAB (MG/L AS CaCO ₃)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
SEP 22...	9.0	2.0	5.0	.4	.9	34	44	17.7

* Data from Calif. Dept. of Water Resources.

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank 0.2 mi (0.3 km) downstream from Rock Creek and 5 mi (8 km) southeast of Coleville.

DRAINAGE AREA.--250 mi² (648 km²).

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

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

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

REMARKS.--Records good except those for winter months, which are fair. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi (27 km) upstream. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--53 years (1902-7, 1909-10, 1915-37, 1957-82), 274 ft³/s (7.760 m³/s), 198,500 acre-ft/yr (245 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,120 ft³/s (3.17 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 11	1700	1,660	47.0	3.48	1.061	June 18	0500	2,010	56.9	3.90	1.189
May 4	0200	1,380	39.1	3.25	0.991	July 13	0400	1,440	40.8	3.27	0.997
May 27	0200	*2,240	63.4	4.14	1.262	Sept. 26	0300	2,230	63.2	4.03	1.228

Minimum daily discharge, 36 ft³/s (1.02 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	79	114	130	92	215	132	889	1150	936	630	213
2	37	80	111	138	92	205	155	1020	1100	895	552	201
3	36	84	104	141	93	199	172	1150	1060	972	491	200
4	38	85	104	127	93	193	165	1250	957	932	470	195
5	39	85	104	103	93	177	166	1190	845	914	463	185
6	39	84	101	90	92	169	160	1060	739	930	450	179
7	44	82	99	80	91	179	147	1100	726	1050	466	175
8	53	80	94	77	91	173	147	1150	810	1100	503	174
9	50	79	101	78	90	167	156	984	990	1140	466	166
10	51	78	99	80	89	180	196	760	1220	1120	455	166
11	56	76	88	84	91	195	1190	662	1370	1220	405	175
12	52	81	93	79	95	184	1070	585	1400	1260	381	163
13	55	174	97	76	100	185	922	641	1300	1280	366	154
14	56	407	100	75	162	195	690	764	1220	1170	367	147
15	54	238	97	76	281	185	552	767	1400	1120	348	149
16	51	194	91	80	855	171	481	914	1550	1150	321	153
17	51	195	85	86	502	170	456	1100	1700	1120	300	148
18	53	152	93	98	362	164	455	1250	1840	957	305	139
19	54	151	177	102	303	160	464	1110	1670	951	317	139
20	54	132	678	100	298	153	452	1160	1700	950	334	135
21	54	126	475	100	316	155	440	1350	1540	923	335	125
22	54	131	291	100	335	152	442	1480	1480	959	343	118
23	54	152	251	100	295	149	486	1620	1590	945	342	119
24	53	179	217	100	269	147	563	1720	1630	978	306	411
25	52	141	208	100	253	150	565	1690	1450	972	280	1000
26	51	110	188	99	233	151	571	1860	1460	1030	274	1380
27	51	93	176	99	219	149	632	1980	1610	984	256	483
28	80	93	154	96	214	155	707	1760	1670	892	273	333
29	70	100	169	96	---	140	782	1400	1710	854	283	276
30	65	110	149	96	---	133	718	1250	1190	807	260	257
31	77	---	155	94	---	147	---	1260	---	714	232	---
TOTAL	1621	3851	5063	2980	6099	5247	14234	36876	40077	31225	11574	7858
MEAN	52.3	128	163	96.1	218	169	474	1190	1336	1007	373	262
MAX	80	407	678	141	855	215	1190	1980	1840	1280	630	1380
MIN	36	76	85	75	89	133	132	585	726	714	232	118
AC-FT	3220	7640	10040	5910	12100	10410	28230	73140	79490	61930	22960	15590
CAL YR 1981	TOTAL	64041	MEAN 175	MAX 947	MIN 33	AC-FT 127000						
WTR YR 1982	TOTAL	166705	MEAN 457	MAX 1980	MIN 36	AC-FT 330700						

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 (8.8 km) north of Topaz.

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

GAGE.--Float and nonrecording gages read once daily. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978 at datum 4.62 ft (1.408 m) 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 (73.3 hm³) between altitudes 4,967.68 ft (1,514.13 m) lowest practical altitude for diversion through tunnel (bottom of outlet tunnel at altitude, 4,965.4 ft or 1,513 m) and 5,000.38 ft (1,524 m), 3 ft (0.9 m) below top of levee. Usable capacity of reservoir was increased from about 45,000 acre-ft (55.5 hm³) to 59,440 acre-ft (73.3 hm³) in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft (80.1 hm³) of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft (74.8 hm³) July 3, 1980, altitude, 5,000.92 ft (1,524.280 m) 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, 59,780 acre-ft (73.7 hm³) July 25, 26, altitude, 5,000.53 ft (1,524.162 m). Minimum contents observed 5,760 acre-ft (7.10 hm³) Oct. 18, 25-27.

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

4,971	5,150	4,981	21,440
4,972	6,720	4,985	28,310
4,973	8,310	4,990	37,360
4,975	11,520	4,995	47,540
4,977	14,770	5,000	58,570
4,979	18,080	5,001	60,870

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6750	6150	15130	25430	32960	45030	50500	36580	43170	56590	59100	46860
2	6590	6250	15400	25670	33180	45130	50500	36050	42940	55920	59050	46390
3	6520	6400	15610	25930	33400	45390	50630	35930	43000	55580	58980	45890
4	6450	6560	15840	26190	33600	45660	50700	36010	43430	55360	58870	45340
5	6370	6740	16090	26610	33780	45890	50540	36080	43910	55360	58640	44820
6	6370	6910	16290	26970	34050	46040	50260	35930	44340	55580	58460	44340
7	6280	7100	16490	27230	34230	46290	49830	35710	44550	55920	58180	43870
8	6180	7230	16720	27510	34430	46410	49330	35240	44800	56550	58160	43270
9	6090	7350	16900	27770	34600	46560	48900	35080	45070	57050	58070	42800
10	5930	7880	17130	28060	34800	46730	48450	34780	45910	57540	57950	42310
11	5850	8280	17350	28320	35000	46900	48240	34140	46940	58070	57610	41880
12	5770	8670	17550	28550	35240	47070	49640	33490	47920	58640	57160	41410
13	5770	9070	17730	28800	35430	47340	50610	32660	48840	59100	56770	41050
14	5870	9470	17900	29020	35760	47560	51040	32120	49740	59140	56280	40570
15	5820	9870	18080	29220	36200	47860	50850	31760	50570	59210	55580	40180
16	5820	10260	18280	29410	37610	48030	50460	31580	51260	59600	54950	39950
17	5790	10680	18470	29650	39670	48240	50020	31600	51570	59720	54240	39730
18	5760	11060	18620	29880	40790	48450	49140	31960	51920	59620	53460	39570
19	5770	11420	18820	30110	41570	48650	48390	32600	52540	59210	52760	39470
20	5810	11770	19700	30340	42180	48820	47430	33140	53460	58980	52140	39270
21	5810	12050	20900	30540	42800	48990	46440	33800	53970	59050	51740	39110
22	5840	12420	21780	30680	43520	49100	45340	34690	54350	59140	51310	39010
23	5840	12700	22320	30940	44140	49310	44180	35800	54750	59390	50850	39000
24	5860	13010	22750	31170	44660	49530	43190	36840	55130	59550	50500	38960
25	5760	13370	23190	31400	44760	49700	42080	38290	55470	59780	49960	39970
26	5760	13760	23530	31740	44780	49850	41030	39610	55780	59780	49530	42490
27	5760	14080	23870	31940	44840	50020	40010	40970	56230	59690	49050	43890
28	5840	14380	24230	32160	44930	50180	39010	42490	56480	59650	48560	44680
29	5930	14640	24540	32390	---	50370	38060	43310	56820	59300	48240	45180
30	6010	14940	24850	32590	---	50410	37960	43410	56930	59210	47770	45470
31	6060	---	25160	32800	---	50390	---	43290	---	59100	47300	---
MAX	6750	14940	25160	32800	44930	50410	51040	43410	56930	59780	59100	46860
MIN	5760	6150	15130	25430	32960	45030	37960	31580	42940	55360	47300	38960
‡	4971.58	4977.10	4983.18	4987.54	4993.76	4996.33	4990.31	4992.97	4999.28	5000.23	4994.89	4994.02
‡	-800	+8880	+10220	+7640	+12130	+5460	-12430	+5330	+13640	+2170	-11800	-1830
CAL YR 1981	MAX	52030	MIN	5760	‡	-4040						
WTR YR 1982	MAX	59780	MIN	5760	‡	+38610						

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

‡ Change in contents, in acre-feet.

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

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft (6 m) upstream from Hoyer Bridge, 2 mi (3 km) upstream from head of Saroni Canal, and 4 mi (6 km) southwest of Wellington.

DRAINAGE AREA.--497 mi² (1,290 km²).

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

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

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

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres (42.5 km²) above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--35 years (1920-23, 1925-32, 1957-82), 238 ft³/s (6.740 m³/s), 172,400 acre-ft/yr (213 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,180 ft³/s (61.7 m³/s) June 6, 1922; minimum observed, 4.8 ft³/s (0.14 m³/s) Jan. 5, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 30, gage height, 7.70 ft (2.347 m); minimum 9.4 ft³/s (0.27 m³/s) Nov. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	22	13	21	30	215	130	1120	1330	1470	554	379
2	66	22	14	24	29	162	153	1090	1210	1260	543	373
3	58	22	15	26	24	129	168	1070	940	1120	484	356
4	58	18	15	26	25	127	195	1170	778	1000	461	338
5	58	17	15	28	25	127	259	1210	748	822	495	335
6	57	17	14	28	26	126	321	1200	677	745	493	336
7	55	17	15	29	25	126	346	1190	652	662	488	336
8	55	16	15	29	23	124	350	1190	619	668	459	329
9	55	15	14	31	23	124	368	1180	607	765	460	308
10	54	11	14	32	23	123	399	1120	628	815	475	307
11	53	11	15	32	17	123	555	1030	768	775	497	304
12	53	10	15	28	15	118	778	978	907	834	496	299
13	53	13	15	28	15	95	755	929	809	1040	501	295
14	49	15	18	27	15	94	802	882	805	1090	533	278
15	48	12	18	27	15	93	816	860	940	875	570	261
16	48	12	19	26	81	92	817	840	1260	882	569	256
17	48	12	19	26	134	94	873	868	1480	1060	567	233
18	48	11	18	26	108	94	903	900	1600	1090	545	197
19	48	12	19	29	106	92	919	836	1550	1000	510	195
20	48	11	20	34	104	94	1020	785	1450	822	478	191
21	48	11	20	35	103	94	1020	850	1470	738	453	172
22	48	11	19	31	103	89	1060	900	1330	712	451	161
23	48	11	19	31	113	61	1040	988	1360	699	449	151
24	47	10	19	29	154	59	1070	1040	1470	748	450	173
25	47	9.7	20	30	268	59	1120	1080	1430	802	441	182
26	47	9.4	19	30	261	74	1110	1110	1250	969	415	237
27	47	9.9	19	32	221	77	1130	1270	1330	1030	412	203
28	49	10	20	31	221	89	1130	1410	1520	973	412	175
29	47	9.8	21	31	---	107	1150	1450	1600	875	408	172
30	25	9.9	21	31	---	109	1130	1370	1630	792	409	177
31	23	---	21	31	---	126	---	1360	---	655	400	---
TOTAL	1558	397.7	538	899	2307	3316	21887	33276	34148	27788	14878	7709
MEAN	50.3	13.3	17.4	29.0	82.4	107	730	1073	1138	896	480	257
MAX	70	22	21	35	268	215	1150	1450	1630	1470	570	379
MIN	23	9.4	13	21	15	59	130	785	607	655	400	151
AC-FT	3090	789	1070	1780	4580	6580	43410	66000	67730	55120	29510	15290
CAL YR 1981	TOTAL	54659.2	MEAN	150	MAX	505	MIN	7.4	AC-FT	108400		
WTR YR 1982	TOTAL	148701.7	MEAN	407	MAX	1630	MIN	9.4	AC-FT	294900		

WALKER LAKE BASIN

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE1SW1 sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi (0.8 km) upstream from Wilson Canyon and 3 mi (5 km) southeast of Hudson.

DRAINAGE AREA.--964 mi² (2,497 km²).

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 (1,417 m), from topographic map. Prior to May 1921, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good except for period of no gage height record July 30 to Sept. 13, which are fair. 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. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years (1914-24, 1947-78), 187 ft³/s (5.296 m³/s), 135,5500 acre-ft/yr (167 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) June 30, gage height, 4.99 ft (1.521 m); minimum daily during period of operation, 78 ft³/s (2.21 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							78	710	997	1320	420	225
2							86	703	928	1190	360	225
3							118	664	711	1000	340	220
4							131	719	514	951	315	200
5							186	757	463	770	290	200
6							249	762	427	637	305	200
7							288	753	404	529	310	200
8							289	751	403	424	295	195
9							273	760	445	470	280	185
10							291	742	435	532	287	180
11							346	675	491	502	290	180
12							577	606	613	496	295	170
13							582	563	590	613	300	167
14							615	503	552	777	310	165
15							644	511	609	651	330	166
16							623	487	837	486	345	173
17							657	500	1090	645	350	173
18							687	520	1240	718	350	167
19							687	478	1320	702	320	153
20							754	412	1190	539	305	145
21							770	435	1260	440	280	128
22							785	494	1160	419	270	99
23							768	582	1120	399	270	84
24							758	645	1220	417	270	94
25							824	708	1230	477	270	113
26							788	729	1080	634	250	165
27							749	822	1050	768	245	214
28							740	960	1220	773	240	172
29							761	1070	1300	660	240	170
30							748	1050	1430	580	240	182
31							---	1020	---	520	240	---
TOTAL							15852	21091	26329	20039	9212	5110
MEAN							528	680	878	646	297	170
MAX							824	1070	1430	1320	420	225
MIN							78	412	403	399	240	84
AC-FT							31440	41830	52220	39750	18270	10140

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 (15 m) downstream from bridge, 2 mi (3 km) south of Mason, and 5 mi (8 km) south-southwest of Yerington.

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

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

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

REMARKS.--Records good except those for period of no gage height record, May 26 to June 10, which are fair. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--8 years, 240 ft³/s (6.800 m³/s), 173,880 acre-ft/yr (214 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s (63.4 m³/s) July 4, 1980, gage height, 9.16 ft (2.792 m); minimum daily 19 ft³/s (0.54 m³/s) Oct. 13-17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,950 ft³/s (55.2 m³/s) June 30, gage height, 8.84 ft (2.694 m); minimum daily, 36 ft³/s (1.02 m³/s) Dec. 1-4, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	67	36	41	72	351	122	881	925	1940	734	300
2	87	54	36	42	69	311	142	872	911	1930	666	240
3	90	44	36	47	69	248	181	848	858	1760	501	265
4	80	39	36	44	63	215	235	857	704	1620	329	250
5	80	44	38	66	66	207	323	900	559	1400	320	280
6	78	44	39	62	66	202	447	905	511	1090	345	310
7	80	47	40	48	70	202	501	876	480	853	332	340
8	80	50	39	135	72	198	519	900	464	645	323	380
9	77	47	36	140	73	193	494	959	458	573	320	450
10	74	44	38	115	75	193	479	949	476	565	305	430
11	74	49	39	120	72	188	531	843	494	573	345	380
12	72	49	39	132	69	183	1230	761	600	561	393	330
13	77	53	39	122	59	172	1330	752	604	653	320	310
14	82	66	40	102	67	155	1160	633	542	829	311	341
15	78	66	41	97	72	152	1230	604	600	839	320	351
16	75	67	42	81	86	146	1140	569	963	534	341	335
17	70	57	43	79	252	140	1090	561	1430	641	345	335
18	66	47	44	78	287	142	1080	573	1690	857	370	335
19	67	45	44	76	287	144	1100	531	1820	910	354	329
20	64	47	45	70	227	144	1130	447	1820	774	360	326
21	64	44	48	73	215	142	1130	440	1860	649	375	335
22	74	42	47	73	207	134	1120	497	1890	620	390	299
23	82	39	45	69	205	115	1090	565	1810	608	420	279
24	89	39	42	78	215	92	1060	620	1840	629	440	279
25	90	40	43	76	293	81	1110	657	1840	730	420	317
26	89	38	42	76	423	87	1080	800	1660	896	360	348
27	82	39	41	78	417	89	984	1060	1480	1070	370	403
28	78	39	42	73	377	95	939	1080	1620	1140	400	373
29	89	40	42	69	---	97	920	1170	1740	1060	450	397
30	92	41	41	69	---	104	920	1290	1860	1070	425	454
31	86	---	40	69	---	113	---	1350	---	939	360	---
TOTAL	2452	1427	1263	2500	4525	5035	24817	24750	34509	28958	12044	10101
MEAN	79.1	47.6	40.7	80.6	162	162	827	798	1150	934	389	337
MAX	92	67	48	140	423	351	1330	1350	1890	1940	734	454
MIN	64	38	36	41	59	81	122	440	458	534	305	240
AC-FT	4860	2830	2510	4960	8980	9990	49220	49090	68450	57440	23890	20040
CAL YR 1981	TOTAL	50147	MEAN 137	MAX 370	MIN 36	AC-FT 99470						
WTR YR 1982	TOTAL	152381	MEAN 417	MAX 1940	MIN 36	AC-FT 302200						

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 (180 m) upstream from timber bridge at Julian Ranch, 1.8 mi (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 mi (7.4 km) east of Wabuska, and 16 mi (26 km) upstream from Weber Dam.

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--57 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-82), 158 ft³/s (4.475 m³/s), 114,500 acre-ft/yr (141 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft³/s (92.9 m³/s) July 10, 11, 1906, gage height, 5.90 ft (1.798 m), site and datum then in use; no flow at times in 1924, 1925, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) July 2, gage height, 9.47 ft (2.886 m); minimum, 12 ft³/s (0.34 m³/s) Oct. 2, Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	34	33	40	58	310	83	662	952	1920	708	168
2	14	27	33	36	58	287	91	641	970	2050	587	134
3	18	22	33	28	59	220	107	649	810	1980	487	158
4	21	20	35	44	60	160	153	613	561	1720	262	147
5	32	15	36	56	57	148	207	643	371	1600	178	167
6	36	13	35	65	55	141	317	655	314	1280	220	173
7	30	14	37	56	51	139	400	639	293	959	201	192
8	23	15	38	72	56	140	429	629	297	633	176	218
9	31	15	34	67	60	135	397	731	330	520	186	282
10	43	14	34	73	63	140	348	763	373	435	145	239
11	46	17	36	80	63	141	361	768	327	472	109	240
12	49	17	36	88	58	135	714	672	417	461	180	232
13	52	27	38	93	51	124	1280	608	511	475	169	235
14	47	46	39	96	52	106	1040	519	441	636	122	243
15	43	52	40	80	52	103	1030	418	394	752	122	258
16	35	52	32	66	53	107	1020	363	633	539	145	242
17	28	46	31	63	102	106	919	336	1020	458	128	259
18	26	37	40	62	256	113	891	298	1380	691	167	291
19	24	36	41	64	284	116	895	317	1640	816	225	286
20	26	37	44	59	226	116	852	312	1790	745	229	280
21	24	38	44	57	180	114	877	250	1780	545	210	277
22	26	34	42	58	171	105	830	285	1860	466	216	258
23	29	32	43	60	170	93	800	338	1800	461	240	199
24	40	29	42	64	171	77	761	405	1730	443	260	185
25	37	30	42	64	197	61	765	429	1760	472	238	232
26	40	30	42	64	318	47	816	446	1730	663	223	329
27	38	30	42	65	389	40	761	434	1500	874	198	363
28	30	34	41	66	350	37	700	573	1420	1010	221	373
29	29	35	39	63	---	41	663	740	1540	1040	258	371
30	38	37	42	59	---	46	665	920	1700	988	257	421
31	41	---	40	60	---	64	---	922	---	896	224	---
TOTAL	1019	885	1184	1968	3720	3712	19172	16978	30644	27000	7291	7452
MEAN	32.9	29.5	38.2	63.5	133	120	639	548	1021	871	235	248
MAX	52	52	44	96	389	310	1280	922	1860	2050	708	421
MIN	14	13	31	28	51	37	83	250	293	435	109	134
AC-FT	2020	1760	2350	3900	7380	7360	38030	33680	60780	53550	14460	14780
CAL YR 1981	TOTAL	24587	MEAN	67.4	MAX	232	MIN	13	AC-FT	48770		
WTR YR 1982	TOTAL	121025	MEAN	332	MAX	2050	MIN	13	AC-FT	240100		

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 (1.6 km) 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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	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)
NOV 04...	0915	18	530	8.2	6.0	3.7	9.8	92	39	K16	130	150
JAN 19...	1130	64	570	8.1	.5	10	11.2	91	11	K2	690	150
MAR 16...	1130	101	400	8.2	7.5	15	10.2	101	13	K2	120	100
MAY 18...	1145	301	275	7.5	15.5	22	8.5	100	21	60	360	83
JUL 20...	1115	801	165	7.6	21.0	34	7.0	92	17	230	K2100	52
SEP 22...	1200	251	305	7.7	16.0	10	9.1	107	<10	80	320	92

K: NON-IDEAL COLONY COUNT.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
NOV 04...	43	9.6	53	2.0	4.9	170	73	18	.7	22	335	333
JAN 19...	44	10	63	2.4	4.9	190	81	23	.9	28	360	369
MAR 16...	29	7.2	43	2.0	3.8	140	51	11	.6	19	247	249
MAY 18...	24	5.5	26	1.3	3.7	105	23	8.2	.4	16	170	170
JUL 20...	15	3.5	14	.9	2.6	70	12	3.8	.2	14	110	107
SEP 22...	27	6.0	28	1.3	3.5	121	27	8.9	.4	16	188	190

DATE	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)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
NOV 04...	16.3	<.09	.110	.58	.050	.050	.070	16	14	<100	47	<1
JAN 19...	62.2	.48	.160	.60	.100	.080	.100	--	--	--	--	--
MAR 16...	67.4	.27	.070	.68	.090	.060	.060	21	16	100	37	<1
MAY 18...	138	<.10	.110	.80	.200	.050	.070	13	11	<100	38	<1
JUL 20...	238	.10	.060	1.30	.280	.060	.050	--	--	--	--	--
SEP 22...	127	.12	<.060	1.00	.170	.090	.060	10	9	100	40	<1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 04...	<1	10	<10	2	<3	5	2	380	11	2	1	50
JAN 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	2	10	<10	3	1	15	1	6300	64	9	<1	450
MAY 18...	<3	<10	<10	2	<1	22	4	3700	10	7	4	210
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	<1	<10	<10	1	<1	10	3	1500	20	4	<1	100

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 04...	37	.1	<.1	1	<1	<1	<1	<1	<1	10	--
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	19	.2	<.1	6	<1	<1	<1	<1	<1	50	12
MAY 18...	10	.1	<.1	4	<1	<1	<1	2	<1	30	<12
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	6	.2	<.1	<1	1	<1	<1	<1	<1	20	21

WALKER LAKE BASIN

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10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	0915	--	0	.0	--	.0	--	.0	--	.0	--	.0
MAR 16...	1130	<.10	--	--	<.01	--	<.10	--	<.01	--	<.01	--
MAY 18...	1145	<.10	<1	<1.0	<.01	<.1	<.10	<1.0	<.01	<.1	<.01	.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	--	.0	--	--	.0	--	.0	--	.0	--	--	.0
MAR 16...	<.01	--	.00	<.01	--	<.01	--	<.01	--	.00	<.01	--
MAY 18...	<.01	.3	<.01	<.01	.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	--	.0	--	.0	--	--	.0	--	--	--	.0
MAR 16...	<.01	--	<.01	--	.00	<.01	--	.00	.00	<.01	--
MAY 18...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01	<.1

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 04...	--	--	--	.00	--	.0	--	--	--	--	--
MAR 16...	<.10	.00	<.10	--	<1	--	.00	<.01	<.01	<.01	<.01
MAY 18...	<.10	<.01	<.10	<1.00	<1	<10	<.01	.10	<.01	<.01	<.01

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM (T/DAY)
NOV 04...	0915	17	.83
JAN 19...	1130	35	6.0
MAR 16...	1130	90	25
MAY 18...	1145	201	163
JUL 20...	1115	375	811
SEP 22...	1200	69	47

WALKER LAKE BASIN

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°06'12", long 118°55'42", in NW¼SE¼ sec.2, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi (8.8 km) upstream from Weber Dam, about 11 mi (18 km) downstream from gage near Wabuska, and 12 mi (19 km) northwest of Schurz.

DRAINAGE AREA.--2,700 mi² (7,000 km²), approximately.

PERIOD OF RECORD.--June 1977 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft (1,285 m) from topographic map.

REMARKS.--Records good except those for winter months and period of no gage height record May 20 to July 7, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm³).

AVERAGE DISCHARGE.--5 years, 172 ft³/s (4.871 m³/s), 124,600 acre-ft/yr (154 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,000 ft³/s (56.6 m³/s) July 5, 1980, gage height, unknown; no flow July 16-18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 2,000 ft³/s (56.6 m³/s) July 2, gage height, unknown, minimum, 16 ft³/s (0.45 m³/s) Nov. 7-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	31	34	32	50	307	64	589	940	1700	541	170
2	24	27	32	27	50	293	75	575	960	1900	457	119
3	17	24	32	36	50	246	83	576	980	1750	417	116
4	20	21	32	47	51	176	107	565	720	1600	303	118
5	22	20	33	56	48	143	156	564	560	1400	178	116
6	29	18	33	52	47	136	235	536	400	1100	193	123
7	30	16	33	58	45	128	355	510	330	697	200	139
8	26	16	35	58	46	133	409	505	300	554	171	164
9	24	16	35	64	50	126	409	516	320	438	169	201
10	28	16	34	67	55	121	369	539	370	368	154	208
11	37	16	34	66	53	119	358	548	340	353	112	202
12	38	18	35	67	51	113	432	529	420	343	124	199
13	41	19	36	74	47	105	654	506	490	332	176	199
14	42	29	37	78	40	97	961	470	460	414	128	211
15	38	38	37	72	43	89	896	399	400	525	114	216
16	34	41	36	62	42	89	927	354	450	488	126	225
17	29	43	34	56	46	87	848	338	600	361	122	220
18	25	38	36	56	145	87	844	318	1100	460	122	250
19	23	32	39	56	201	92	825	314	1400	552	166	259
20	22	33	39	56	217	92	816	290	1650	566	189	225
21	22	33	42	51	166	93	803	260	1760	472	185	245
22	22	33	42	51	153	89	800	310	1800	400	180	250
23	21	31	42	51	148	80	785	350	1810	380	194	204
24	24	30	38	54	148	75	731	400	1780	391	227	189
25	30	29	38	56	156	62	703	450	1700	389	229	183
26	30	30	38	58	217	52	690	420	1660	472	216	266
27	31	29	38	58	322	45	690	380	1500	564	194	285
28	31	33	38	57	325	39	667	450	1350	624	202	323
29	26	31	38	55	---	40	609	560	1440	652	230	317
30	27	34	37	52	---	43	586	680	1500	628	250	339
31	31	---	36	49	---	47	---	900	---	600	236	---
TOTAL	865	825	1123	1732	3012	3444	16887	14701	29490	21473	6505	6281
MEAN	27.9	27.5	36.2	55.9	108	111	563	474	983	693	210	209
MAX	42	43	42	78	325	307	961	900	1810	1900	541	339
MIN	17	16	32	27	40	39	64	260	300	332	112	116
AC-FT	1720	1640	2230	3440	5970	6830	33500	29160	58490	42590	12900	12460
CAL YR 1981	TOTAL	22579	MEAN	61.9	MAX	230	MIN	15	AC-FT	44790		
WTR YR 1982	TOTAL	106338	MEAN	291	MAX	1900	MIN	16	AC-FT	210900		

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 (0.8 km) downstream from Markleeville Creek and 1.5 mi (2.4 km) north-northeast of Markleeville.

DRAINAGE AREA.--276 mi² (715 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m), from topographic map. Prior to Oct. 1, 1967, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter months which are fair. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³).

AVERAGE DISCHARGE.--22 years, 357 ft³/s (10.11 m³/s), 258,600 acre-ft/yr (319 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 31, 1963, gage height, 10.21 ft (3.112 m), present datum; minimum, 9.5 ft³/s (0.27 m³/s) Nov. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2100	1,960 55.5	5.17 1.576	May 4	0100	2,650 75.0	5.52 1.682
Dec. 20	1500	4,250 120	6.56 1.999	May 28	unknown	about 3,400 96.3	unknown
Feb. 16	0400	*8,170 231	8.21 2.502	June 19	unknown	about 2,500 70.8	unknown
Apr. 11	1000	7,700 218	8.04 2.451				

Minimum discharge, 41 ft³/s (1.16 m³/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	75	224	296	195	546	275	1680	1700	1130	439	183
2	49	77	219	278	193	521	298	1870	1650	1020	396	177
3	60	79	204	255	197	485	308	2110	1600	1030	369	183
4	63	77	200	238	195	456	303	2200	1500	978	350	182
5	60	74	195	228	165	427	308	1950	1390	923	339	176
6	50	74	188	210	169	410	303	1800	1260	890	324	174
7	49	73	183	200	190	410	284	1880	1240	939	326	171
8	57	70	177	190	192	405	293	1980	1240	936	368	161
9	50	69	183	188	178	389	332	1750	1280	922	324	155
10	62	68	188	185	170	438	771	1410	1400	892	310	151
11	70	67	171	185	171	534	6350	1240	1510	914	288	157
12	56	114	171	190	169	467	2400	1170	1610	928	276	152
13	56	702	173	198	221	444	1570	1310	1600	930	267	149
14	56	864	178	205	735	450	1340	1380	1520	890	259	155
15	54	339	180	215	2600	416	1170	1450	1600	851	251	164
16	51	361	171	225	4770	389	1060	1500	1700	840	235	212
17	51	416	161	229	1450	378	1020	1580	1900	797	226	204
18	54	260	168	227	1010	362	1060	1800	1990	715	220	188
19	54	229	1290	213	883	347	1070	1720	2070	691	221	178
20	53	206	3240	211	891	332	1020	1700	1920	681	233	164
21	51	212	1210	205	952	322	968	1800	1800	646	220	150
22	50	433	714	195	976	312	984	1910	1740	646	223	145
23	49	584	572	205	816	308	1080	2070	1700	618	227	139
24	49	659	488	206	721	308	1210	2200	1570	602	229	291
25	49	406	441	223	658	308	1190	2220	1440	592	230	409
26	49	324	402	255	598	312	1170	2370	1440	590	209	571
27	47	282	377	223	552	303	1220	2610	1520	648	192	301
28	124	267	341	224	527	322	1400	2600	1530	614	186	261
29	86	243	359	209	---	298	1470	2100	1590	554	197	246
30	67	224	378	191	---	266	1400	1900	1300	524	195	250
31	75	---	332	197	---	289	---	1800	---	481	190	---
TOTAL	1799	7928	13478	6699	20544	11954	33627	57060	47310	24412	8319	6199
MEAN	58.0	264	435	216	734	386	1121	1841	1577	787	268	207
MAX	124	864	3240	296	4770	546	6350	2610	2070	1130	439	571
MIN	47	67	161	185	165	266	275	1170	1240	481	186	139
AC-FT	3570	15730	26730	13290	40750	23710	66700	113200	93840	48420	16500	12300

CAL YR 1981	TOTAL	85312	MEAN 234	MAX 3240	MIN 31	AC-FT 169200
WTR YR 1982	TOTAL	239329	MEAN 656	MAX 6350	MIN 47	AC-FT 474700

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼NE¼ sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank 0.1 mi (0.2 km) downstream from Horseshoe Bend, 2 mi (3 km) east of Mud Lake Reservoir, 4.5 mi (7.2 km) downstream from Bryant Creek, and 7 mi (11 km) southeast of Gardnerville.

DRAINAGE AREA.--356 mi² (922 km²).

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July 1905 to December 1906), January 1908 to December 1910, June to October 1917, December 1924 to September 1928, June to September 1929, October 1935 to December 1937, May 1939 to current year. Monthly discharge only for some periods published in WSP 1314.

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 (1,519.462 m) National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi (3 km) of present site at various datums.

REMARKS.--Records good. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--56 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-82), 386 ft³/s (10.93 m³/s), 279,700 acre-ft/yr (345 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s (498 m³/s) Dec. 23, 1955, gage height, 11.88 ft (3.621 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 9.66 ft (2.944 m) and 11.88 ft (3.621 m); minimum observed, 7.8 ft³/s (0.221 m³/s) Nov. 20, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2400	1,940 54.9	3.82 1.164	May 4	0800	2,200 62.3	4.13 1.259
Dec. 20	1700	3,400 96.3	4.95 1.509	May 28	0500	2,810 79.6	4.64 1.414
Feb. 16	0300	*6,310 179	6.95 2.118	June 19	0800	2,130 60.3	3.95 1.204
Apr. 11	1800	5,640 160	6.58 2.006				

Minimum discharge, 46 ft³/s (1.30 m³/s) Oct. 1, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	78	230	301	197	554	275	1570	1730	1150	473	182
2	51	80	228	288	193	563	277	1770	1660	1060	427	167
3	57	81	208	261	197	536	288	1950	1610	1060	387	167
4	65	81	207	279	193	499	306	2120	1520	1050	360	167
5	65	77	199	243	166	466	307	2000	1400	992	341	161
6	56	77	190	230	174	436	312	1810	1280	924	324	158
7	48	75	180	210	192	420	303	1790	1230	930	310	155
8	59	73	174	200	188	407	294	1890	1240	920	340	150
9	52	69	180	195	170	396	296	1780	1300	890	332	145
10	56	69	192	190	162	388	423	1500	1420	880	309	139
11	78	69	175	195	162	453	4710	1300	1570	900	286	147
12	64	69	169	200	158	491	3470	1180	1660	920	264	142
13	60	554	175	210	180	468	2060	1210	1650	910	249	139
14	61	1090	181	215	754	453	1580	1340	1560	880	235	145
15	58	385	179	220	2040	440	1330	1380	1630	840	229	153
16	57	399	175	225	4740	414	1170	1490	1770	830	218	208
17	54	465	161	233	2560	393	1080	1650	1920	780	207	202
18	56	304	168	226	1620	377	1080	1830	1980	710	200	179
19	58	252	1020	219	1250	359	1100	1740	2080	675	199	170
20	57	222	2890	212	1100	342	1080	1710	1970	660	218	153
21	55	208	1470	208	1060	328	1030	1840	1880	645	206	142
22	54	450	840	200	1090	317	1000	1980	1810	640	205	134
23	51	606	649	203	1050	306	1050	2120	1770	620	212	132
24	51	731	538	205	923	300	1180	2260	1760	590	212	276
25	51	455	485	208	820	296	1220	2290	1650	580	214	390
26	50	354	431	264	731	296	1200	2430	1590	660	199	643
27	49	308	399	237	648	295	1220	2700	1620	630	181	320
28	119	289	354	237	592	296	1330	2650	1650	627	172	268
29	103	259	358	218	---	299	1460	2210	1690	593	183	252
30	73	228	388	194	---	286	1380	1920	1520	555	183	248
31	76	---	341	197	---	276	---	1810	---	513	181	---
TOTAL	1893	8457	13534	6923	23310	12150	33811	57220	49120	24614	8056	6034
MEAN	61.1	282	437	223	833	392	1127	1846	1637	794	260	201
MAX	119	1090	2890	301	4740	563	4710	2700	2080	1150	473	643
MIN	48	69	161	190	158	276	275	1180	1230	513	172	132
AC-FT	3750	16770	26840	13730	46240	24100	67060	113500	97430	48820	15980	11970

CAL YR 1981 TOTAL 88601 MEAN 243 MAX 2890 MIN 31 AC-FT 175700
WTR YR 1982 TOTAL 245122 MEAN 672 MAX 4740 MIN 48 AC-FT 486200

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 (18.5 km) southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi² (26.26 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REMARKS.--Records good, except those for winter months, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31 ft³/s (0.88 m³/s) Apr. 11, 1982, gage height, 3.86 ft (1.177 m); minimum, 0.02 ft³/s (0.0006 m³/s) July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft³/s (0.878 m³/s) Apr. 11, gage height, 3.86 ft (1.177 m); minimum 0.03 ft³/s (0.0008 m³/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.50	.54	.44	.48	1.2	.47	1.5	.41	.89	.13	.10
2	.20	.50	.56	.31	.52	1.2	.84	1.5	.41	.89	.14	.10
3	.22	.47	.47	.33	.52	1.1	1.1	1.4	.41	.61	.11	.09
4	.23	.44	.49	.37	.45	1.1	1.1	1.3	.41	.57	.14	.10
5	.20	.47	.53	.42	.41	1.1	1.1	1.3	.47	.47	.13	.09
6	.19	.47	.54	.36	.44	1.1	1.1	1.5	.54	.54	.12	.10
7	.20	.50	.57	.32	.52	1.1	.94	1.5	.54	.61	.19	.10
8	.25	.50	.57	.34	.57	1.1	1.2	1.5	.57	.36	.15	.10
9	.25	.54	.54	.36	.54	.94	1.2	1.6	.54	.36	.12	.09
10	.31	.54	.52	.38	.53	1.0	3.5	1.5	.47	.36	.10	.10
11	.31	.54	.47	.39	.64	1.1	16	1.5	.50	.36	.10	.12
12	.36	.61	.50	.40	.79	1.0	7.8	1.2	.50	.41	.11	.12
13	.38	1.3	.57	.39	.94	1.0	4.8	1.2	.54	.38	.10	.15
14	.41	1.2	.54	.38	1.2	1.0	3.9	1.1	.57	.38	.10	.16
15	.41	.89	.54	.42	3.1	1.0	3.4	1.1	.54	.29	.10	.27
16	.41	.79	.50	.49	8.1	.89	2.9	.89	.57	.29	.10	.37
17	.38	1.1	.50	.47	3.4	.84	2.7	.89	.65	.27	.09	.31
18	.38	.84	.57	.42	2.5	.89	2.4	.84	.84	.25	.09	.31
19	.36	.84	.61	.38	2.5	.89	2.3	.79	1.0	.23	.10	.30
20	.36	.79	.79	.40	2.4	.89	2.3	.69	.84	.23	.10	.27
21	.33	.79	.69	.43	2.4	.89	2.0	.61	1.4	.27	.10	.21
22	.33	.79	.50	.32	2.3	.89	1.9	.57	1.0	.25	.10	.18
23	.33	.74	.61	.53	1.9	.89	1.9	.57	.89	.20	.11	.20
24	.36	.79	.61	.44	1.8	.84	1.9	.54	1.0	.27	.10	.50
25	.36	.65	.69	.53	1.7	.84	1.8	.54	1.0	.29	.08	.37
26	.36	.57	.69	.73	1.5	.89	1.7	.57	.69	.31	.08	.28
27	.33	.50	.61	.54	1.5	.84	1.7	.69	.74	.31	.09	.37
28	.54	.52	.57	.58	1.3	.84	1.6	.69	.89	.25	.14	.36
29	.47	.46	.65	.55	---	.65	1.6	.74	1.5	.19	.12	.43
30	.44	.49	.65	.47	---	.79	1.5	.50	.74	.16	.11	.59
31	.50	---	.61	.51	---	.57	---	.44	---	.14	.11	---
TOTAL	10.36	20.13	17.80	13.40	44.95	29.37	78.65	31.26	21.17	11.39	3.46	6.84
MEAN	.33	.67	.57	.43	1.61	.95	2.62	1.01	.71	.37	.11	.23
MAX	.54	1.3	.79	.73	8.1	1.2	16	1.6	1.5	.89	.19	.59
MIN	.19	.44	.47	.31	.41	.57	.47	.44	.41	.14	.08	.09
AC-FT	21	40	35	27	89	58	156	62	42	23	6.9	14
CAL YR 1981	TOTAL	187.31	MEAN	.51	MAX	1.3	MIN	.05	AC-FT	372		
WTR YR 1982	TOTAL	288.78	MEAN	.79	MAX	16	MIN	.08	AC-FT	573		

CARSON RIVER BASIN

10309070 BUCKEYE CREEK NEAR MINDEN, NV

LOCATION.--Lat 38°58'59", long 119°34'23", in NE¼NW¼ sec.24, T.13 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on left bank 10.5 mi (16.9 km) east of Minden.

DRAINAGE AREA.--46.3 mi² (119.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft (1,719 m), from topographic map.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Oct. 5 to Nov. 4, which are poor. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126 ft³/s (3.57 m³/s) April 11, 1982, gage height 4.94 ft (1.506 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 126 ft³/s (3.57 m³/s) April 11, gage height 4.94 ft (1.506 m); no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.20	.09	.08	.10	.01	.36	.19	.03	.76	.00	.00
2	.04	.13	.10	.07	.12	.02	.13	.17	.04	.13	.00	.00
3	.04	.08	.05	.09	.10	.04	1.9	.14	.03	.06	.00	.00
4	.05	.01	.06	.10	.10	.04	1.0	.12	.02	.07	.00	.00
5	.07	.03	.08	.16	.10	.06	.72	.09	.07	.06	.00	.00
6	.03	.04	.03	.02	.08	.05	.54	.09	.05	.03	.00	.00
7	.04	.05	.05	.01	.06	.02	.23	.13	.03	.03	.00	.00
8	.06	.08	.08	.02	.07	.00	.18	.21	.03	.02	.02	.00
9	.07	.08	.08	.04	.04	.00	.58	.45	.02	.02	.00	.00
10	.16	.09	.07	.06	.03	.00	1.7	.55	.01	.00	.00	.00
11	.18	.08	.08	.11	.02	.00	43	.41	.02	.00	.00	.00
12	.23	.09	.09	.08	.03	.00	7.2	.31	.02	.00	.00	.00
13	.25	.98	.08	.10	.50	.00	3.1	.18	.03	.00	.00	.00
14	.26	.43	.09	.14	1.5	.00	2.0	.16	.03	.00	.00	.00
15	.26	.04	.08	.12	11	.00	1.7	.22	.02	.00	.00	.07
16	.25	.02	.08	.18	29	.03	1.5	.11	.01	.00	.00	.13
17	.23	.47	.10	.15	4.7	.06	1.2	.09	.03	.00	.00	.13
18	.22	.07	.11	.08	3.1	.09	1.1	.12	.37	.00	.00	.09
19	.21	.06	.10	.06	2.3	.06	.97	.10	.17	.00	.00	.07
20	.18	.04	.12	.03	3.0	.07	.70	.07	.08	.00	.00	.05
21	.18	.02	.09	.07	3.5	.03	.52	.06	1.2	.00	.00	.02
22	.19	.03	.25	.02	3.3	.04	.47	.05	.27	.00	.00	.00
23	.20	.04	.24	.09	2.3	.03	.46	.02	.13	.00	.00	.00
24	.21	.06	.25	.11	1.1	.00	.46	.01	.16	.01	.00	.24
25	.22	.06	.17	.12	.44	.00	.37	.03	.15	.00	.00	.15
26	.16	.07	.11	.09	.20	.00	.41	.02	.06	.01	.00	.08
27	.21	.05	.06	.09	.11	.00	.38	.02	.04	.03	.00	.11
28	.26	.08	.14	.11	.06	.03	.25	.04	.08	.02	.00	.12
29	.21	.04	.09	.09	---	.05	.22	.07	.35	.00	.00	.29
30	.20	.06	.08	.13	---	.05	.21	.07	1.7	.00	.00	.20
31	.23	---	.08	.12	---	.18	---	.03	---	.00	.00	---
TOTAL	5.12	3.58	3.18	2.74	66.96	.96	73.56	4.33	5.25	1.25	.02	1.75
MEAN	.17	.12	.10	.088	2.39	.031	2.45	.14	.18	.040	.001	.058
MAX	.26	.98	.25	.18	29	.18	43	.55	1.7	.76	.02	.29
MIN	.02	.01	.03	.01	.02	.00	.13	.01	.00	.00	.00	.00
AC-FT	10	7.1	6.3	5.4	133	1.9	146	8.6	10	2.5	.04	3.5
CAL YR 1981	TOTAL	21.38	MEAN .059	MAX .98	MIN .00	AC-FT 42						
WTR YR 1982	TOTAL	168.70	MEAN .46	MAX 43	MIN .00	AC-FT 335						

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 (1.6 km) southwest of Minden.

DRAINAGE AREA.--392 mi² (1,015 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,716.11 ft (1,437.470 m), National Geodetic Vertical Datum of 1929 (levels by Nevada Highway Department). Mar. 7 to June 25, 1975, at site 75 ft upstream at same datum.

REMARKS.--Records fair except those for winter months and period of no gage-height record, Mar. 6 to Apr. 16 and June 12 to July 16, which are 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.--8 years (water years 1975-82), 207 ft³/s (5.862 m³/s), 150,000 acre-ft/yr (185 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,000 ft³/s (227 m³/s) Jan. 14, 1980, gage height, 11.40 ft (3.475 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 23, 24, Oct. 1-5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,400 ft³/s (181 m³/s) Feb. 16, gage height, 8.67 ft (2.643 m); minimum daily, 0.62 ft³/s (0.018 m³/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.4	204	319	191	544	210	1580	1220	860	159	10
2	2.8	4.1	204	300	184	556	220	1760	1140	780	137	9.5
3	2.8	4.5	191	290	181	425	230	1980	1090	750	111	10
4	2.8	3.8	187	270	178	380	240	1930	998	730	94	9.5
5	2.8	2.7	181	280	178	342	240	1690	904	700	81	8.7
6	2.5	3.4	168	250	175	340	235	1520	810	670	69	8.0
7	2.8	2.8	162	230	181	330	235	1520	789	670	67	7.6
8	2.5	2.5	159	220	181	320	240	1580	795	660	82	7.4
9	2.8	1.9	159	210	171	310	250	1430	848	650	63	7.3
10	2.5	1.9	171	200	165	330	400	1180	960	630	50	8.9
11	1.9	1.7	162	200	168	370	4000	1030	1070	610	32	16
12	2.2	2.5	150	200	165	380	2500	939	1160	590	12	16
13	1.9	580	156	200	171	360	1600	974	1180	560	12	13
14	1.7	755	159	200	485	340	1350	1040	1180	520	13	9.5
15	1.5	293	159	205	1230	330	1200	1020	1200	490	13	12
16	1.5	323	159	210	4610	320	1150	1130	1300	450	11	40
17	1.3	398	147	210	2210	310	1130	1270	1380	447	10	40
18	1.3	252	150	211	1600	295	1180	1420	1450	396	8.0	37
19	1.3	222	679	208	1100	280	1200	1290	1500	369	7.4	44
20	1.3	200	2580	205	930	270	1160	1300	1420	353	9.5	42
21	1.1	180	1500	205	930	260	1100	1430	1360	330	7.6	36
22	1.1	220	890	204	900	250	1090	1580	1300	295	6.9	33
23	.92	260	679	204	880	235	1150	1720	1270	272	6.9	30
24	.92	450	550	191	780	235	1260	1890	1240	253	7.8	105
25	.92	375	474	195	700	235	1260	1910	1200	254	9.1	218
26	.92	306	410	237	612	230	1210	2090	1180	248	9.5	381
27	.62	268	390	215	550	230	1180	2250	1200	276	9.1	206
28	17	252	351	215	502	230	1260	2040	1200	264	8.7	169
29	19	229	346	204	---	230	1360	1550	1170	208	8.7	161
30	4.1	204	375	187	---	220	1280	1340	1100	189	8.5	160
31	3.4	---	346	191	---	210	---	1300	---	172	9.0	---
TOTAL	93.00	5802.2	12598	6866	20308	9697	31120	46683	34614	14646	1132.7	1855.4
MEAN	3.00	193	406	221	725	313	1037	1506	1154	472	36.5	61.8
MAX	19	755	2580	319	4610	556	4000	2250	1500	860	159	381
MIN	.62	1.7	147	187	165	210	210	939	789	172	6.9	7.3
AC-FT	184	11510	24990	13620	40280	19230	61730	92600	68660	29050	2250	3680

CAL YR 1981 TOTAL 38971.16 MEAN 107 MAX 2580 MIN .62 AC-FT 77300
WTR YR 1982 TOTAL 185415.30 MEAN 508 MAX 4610 MIN .62 AC-FT 367800

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi (0.5 km) downstream from bridge on State Highway 88-89, 0.6 mi (1.0 km) southwest of Woodfords, and 3.8 mi (6.1 km) downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi² (169.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to May 1907, 1910-11 (fragmentary), October 1938 to current year. January 1890 to March 1892, June 1907 to September 1920 (except parts of 1910-11), at site 0.7 mi (1.1 km) downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft (1,753.97 m) 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 (0.311 m) lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft (46 m) downstream at datum 3.06 ft (0.933 m) lower.

REMARKS.--Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft (1.85 hm³).

AVERAGE DISCHARGE.--51 years (1900-1907, 1938-82), 111 ft³/s (3.144 m³/s), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft³/s (138 m³/s) Feb. 1, 1963, gage height, 9.0 ft (2.74 m), on basis of slope-area measurement of peak flow; minimum, about 5 ft³/s (0.14 m³/s) Dec. 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft (2.44 m), present datum, from floodmarks, discharge, 3,500 ft³/s (99.1 m³/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2200	789 22.3	3.44 1.049	May 3	2300	1,030 31.2	3.82 1.164
Dec. 20	1500	*1,730 49.0	4.57 1.393	May 27	0100	1,000 28.3	3.72 1.134
Feb. 16	0700	1,150 32.6	3.95 1.204	June 19	0200	725 20.5	3.30 1.006
Apr. 11	1900	1,180 33.4	3.99 1.216				

Minimum daily, 12 ft³/s (0.34 m³/s) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	28	70	73	60	149	75	609	445	305	99	80
2	12	29	65	71	60	141	91	682	426	296	92	73
3	12	30	61	60	60	144	84	751	417	297	91	60
4	12	28	60	57	59	135	81	742	399	288	83	38
5	12	27	55	56	54	125	87	657	394	271	81	35
6	13	26	54	53	50	121	86	619	350	261	75	33
7	15	26	53	49	47	127	87	658	330	268	62	33
8	16	25	52	54	50	118	89	666	345	269	78	33
9	16	24	52	58	52	114	92	557	395	233	60	32
10	19	24	52	60	53	130	147	442	436	222	47	30
11	22	24	47	63	51	176	738	389	447	222	40	30
12	20	30	43	67	50	167	725	402	455	222	42	30
13	19	156	46	71	56	153	603	459	444	213	42	30
14	19	263	61	75	151	144	476	492	418	210	43	41
15	19	124	70	74	250	128	413	521	438	194	41	58
16	19	159	62	72	898	116	375	556	470	197	40	81
17	18	142	51	66	472	113	371	606	479	182	62	73
18	19	90	52	60	292	106	364	594	482	162	63	42
19	19	72	674	56	244	100	356	540	562	160	69	42
20	19	60	1360	60	242	101	340	555	468	153	74	39
21	19	75	368	62	248	100	362	601	458	144	43	34
22	19	218	227	62	260	92	380	633	443	138	39	32
23	19	286	191	62	234	92	400	664	444	132	47	30
24	18	330	164	63	219	96	421	681	421	136	45	79
25	18	162	151	66	202	98	371	678	377	130	41	83
26	19	113	141	66	182	98	371	743	380	126	39	116
27	19	105	136	60	172	100	409	808	386	126	37	64
28	39	92	115	61	165	97	471	672	395	116	37	51
29	30	80	108	63	---	75	485	531	384	114	38	48
30	25	66	104	65	---	61	507	481	331	109	41	48
31	27	---	98	62	---	60	---	470	---	104	62	---
TOTAL	584	2914	4843	1947	4933	3577	9857	18459	12619	6000	1753	1498
MEAN	18.8	97.1	156	62.8	176	115	329	595	421	194	56.5	49.9
MAX	39	330	1360	75	898	176	738	808	562	305	99	116
MIN	12	24	43	49	47	60	75	389	330	104	37	30
AC-FT	1160	5780	9610	3860	9780	7090	19550	36610	25030	11900	3480	2970
CAL YR 1981	TOTAL	28072	MEAN	76.9	MAX	1360	MIN	11	AC-FT	55680		
WTR YR 1982	TOTAL	68984	MEAN	189	MAX	1360	MIN	12	AC-FT	136800		

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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT									
01...	1410	12	80	--	11.0	--	--	--	--
30...	1435	31	86	--	3.0	--	--	--	--
DEC									
02...	1405	61	66	--	2.0	--	--	--	--
30...	1120	99	56	--	2.0	--	--	--	--
JAN									
27...	1109	55	73	--	1.0	--	--	--	--
MAR									
01...	1110	139	54	--	2.0	--	--	--	--
25...	1025	97	65	--	4.5	--	--	--	--
APR									
29...	1100	467	53	--	3.0	--	--	--	--
MAY									
25...	1600	591	45	--	--	--	--	--	--
JUN									
29...	1000	389	42	--	7.0	--	--	--	--
JUL									
28...	1500	116	50	--	14.0	--	--	--	--
SEP									
01...	1030	79	58	--	11.5	--	--	--	--
*22...	1045	33	70	7.8	11.0	<1.0	8.5	26	7.0

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- LITY LAB (MG/L AS CACO3)	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								
01...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
DEC								
02...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
JAN								
27...	--	--	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
APR								
29...	--	--	--	--	--	--	--	--
MAY								
25...	--	--	--	--	--	--	--	--
JUN								
29...	--	--	--	--	--	--	--	--
JUL								
28...	--	--	--	--	--	--	--	--
SEP								
01...	--	--	--	--	--	--	--	--
*22...	2.0	5.0	.4	1.6	29	4.0	56	5.0

* Data From Calif. Dept. of Water Resources.

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", in SW¼NW¼ sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi (3 km) downstream from Clear Creek, 3 mi (5 km) upstream from Lloyd Bridge on road to Mexican Dam, and 5 mi (8 km) southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi² (2,295 km²).

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 (1,408.322 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft (0.305 m) higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft (0.305 m) higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft (0.305 m) higher.

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.--43 years, 401 ft³/s (11.36 m³/s), 290,500 acre-ft/yr (358 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s (850 m³/s) Dec. 24, 1955, gage height, 16.0 ft (4.88 m), present datum, from floodmarks, from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 16.0 ft (4.88 m), computation of flow over dam at gage height 12.40 ft (3.780 m), and float measurement at gage height 10.60 ft (3.231 m), all at present datum; minimum daily, 1.6 ft³/s (0.04 m³/s) Aug. 29, 30, Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft³/s (45.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 14	1400	1,630 462	4.72 1.439	May 4	1800	2,460 69.7	5.66 1.725
Dec. 21	1500	3,760 106	6.72 2.048	May 28	1800	3,560 101	6.59 2.009
Feb. 17	0900	*7,480 212	9.48 2.890	June 19	1700	2,570 72.8	5.63 1.716
Apr. 12	2300	6,210 176	8.60 2.621				

Minimum daily, 11 ft³/s (0.31 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	108	348	554	361	785	439	1660	2010	1540	295	81
2	13	120	355	493	351	820	479	1900	1790	1350	303	70
3	15	122	338	477	348	805	577	2120	1730	1270	251	74
4	14	124	313	507	349	732	599	2320	1600	1220	234	105
5	18	123	304	500	318	672	526	2350	1460	1090	199	103
6	14	114	287	475	292	624	517	2190	1370	948	165	110
7	19	115	273	350	310	607	470	2030	1320	876	156	141
8	18	121	270	380	343	562	458	2030	1220	817	171	119
9	16	109	263	400	332	560	465	2040	1230	842	216	100
10	21	104	275	430	313	543	530	1920	1330	837	200	93
11	26	116	279	510	296	684	1940	1610	1540	797	164	80
12	39	114	259	520	290	721	5040	1360	1650	795	138	84
13	59	235	262	536	296	636	4870	1270	1680	791	123	124
14	54	1260	259	489	688	591	2770	1370	1560	760	122	132
15	59	928	268	463	1550	580	2040	1440	1600	686	115	106
16	50	568	267	433	4090	546	1700	1560	1750	670	109	185
17	48	613	252	441	6830	529	1520	1760	1920	666	93	323
18	54	647	241	470	3420	537	1500	1990	2110	687	88	287
19	53	428	324	409	1860	507	1510	1870	2390	633	79	319
20	53	362	2410	372	1560	470	1450	1810	2420	578	97	336
21	50	327	3570	387	1500	470	1360	1970	2350	535	96	289
22	55	452	2060	361	1560	458	1310	2170	2200	492	94	251
23	49	698	1200	358	1430	447	1320	2400	2070	435	103	233
24	47	1000	938	346	1230	438	1470	2640	1980	444	119	250
25	50	936	813	364	1090	436	1540	2760	1810	452	113	526
26	53	613	724	505	977	438	1480	2870	1630	445	103	748
27	58	488	652	636	846	441	1460	3130	1680	459	94	626
28	67	445	586	479	801	441	1500	3430	1750	462	99	453
29	132	411	549	421	---	447	1620	2930	1760	360	108	408
30	147	374	615	378	---	410	1550	2360	1700	323	108	490
31	116	---	587	359	---	410	---	2180	---	303	101	---
TOTAL	1478	12175	20141	13803	33631	17347	44010	65440	52610	22563	4456	7246
MEAN	47.7	406	650	445	1201	560	1467	2111	1754	728	144	242
MAX	147	1260	3570	636	6830	820	5040	3430	2420	1540	303	748
MIN	11	104	241	346	290	410	439	1270	1220	303	79	70
AC-FT	2930	24150	39950	27380	66710	34410	87290	129800	104400	44750	8840	14370

CAL YR 1981	TOTAL	89397.9	MEAN 245	MAX 3570	MIN 3.3	AC-FT 177300
WTR YR 1982	TOTAL	294900.0	MEAN 808	MAX 6830	MIN 11	AC-FT 584900

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 (3.2 km) west of Carson Street off Kings Canyon Road.

DRAINAGE AREA.--4.06 mi² (10.52 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,580 m), 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.--6 years (1977-82), 1.38 ft³/s (0.0391 m³/s), 1,000 acre-ft/yr (1.23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48 ft³/s (1.36 m³/s) Feb. 15, 1982, gage height, 4.95 ft (1.509 m); maximum gage height, 4.98 ft (1.518 m) Dec. 20, 1978 (backwater from ice); minimum daily, 0.16 ft³/s (0.005 m³/s) June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 48 ft³/s (1.36 m³/s) Feb. 15, gage height, 4.95 ft (1.509 m); minimum daily, 0.72 ft³/s (0.020 m³/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	1.1	.96	1.2	1.2	1.6	2.0	2.4	1.8	4.5	3.6	3.1
2	.96	1.1	.96	1.2	1.3	1.7	2.1	2.4	1.8	4.5	3.8	3.2
3	1.1	1.1	.96	1.2	1.3	2.4	2.1	2.4	1.8	4.4	3.8	3.2
4	1.1	1.1	.88	1.4	1.3	2.2	2.6	2.1	1.8	4.4	3.8	3.2
5	.96	.96	.88	1.6	1.1	2.1	2.9	2.0	2.1	4.3	3.8	3.1
6	.96	.96	.88	1.6	1.0	2.0	2.9	2.0	2.2	4.3	3.6	3.1
7	1.1	.96	.88	1.6	.97	2.0	3.2	1.8	2.1	4.2	3.6	3.1
8	1.3	.96	.88	1.4	.92	1.9	2.9	1.7	2.4	4.2	3.8	3.2
9	1.4	.96	.88	1.4	.86	2.1	4.0	1.6	2.9	4.1	4.5	3.2
10	1.4	.96	.88	1.3	.80	2.3	4.7	1.6	2.7	4.1	4.9	2.9
11	1.4	.96	.88	1.2	.80	2.7	18	1.4	3.1	4.1	4.7	2.9
12	1.3	1.2	.88	1.2	.72	1.8	12	1.4	3.4	4.1	4.5	2.9
13	1.3	2.4	.96	1.1	1.2	1.6	9.1	1.3	3.8	4.1	4.0	2.7
14	1.3	1.6	.96	1.1	7.7	1.5	6.5	1.2	4.5	4.0	3.8	2.7
15	1.2	1.3	.96	1.1	16	1.6	6.0	1.2	4.7	4.0	3.8	2.6
16	1.2	1.3	.96	1.1	12	1.5	5.2	1.3	5.2	4.0	3.6	2.6
17	1.2	1.1	.88	1.1	2.7	1.6	4.5	1.5	7.1	4.0	3.8	2.6
18	1.2	.96	.88	1.1	2.1	1.8	4.3	1.4	9.1	4.0	4.0	2.6
19	1.2	.96	3.6	1.1	1.9	1.7	3.8	1.4	8.4	4.0	4.0	2.4
20	1.2	.96	4.0	1.1	1.8	1.6	3.4	1.1	7.6	3.9	3.8	2.2
21	.88	1.8	2.1	1.1	1.7	1.5	3.1	.88	6.9	3.9	4.0	2.2
22	.80	1.6	1.5	1.1	1.6	1.6	3.1	.80	6.5	3.9	4.0	2.4
23	.88	1.6	1.3	1.1	1.6	1.4	3.1	.96	6.2	3.9	3.8	2.4
24	.96	2.0	1.3	1.1	1.5	1.4	2.7	1.5	5.8	3.8	3.8	2.4
25	1.1	1.3	1.4	1.2	1.5	1.3	2.7	2.0	5.5	3.8	3.8	2.2
26	.96	1.2	1.3	1.7	1.5	1.2	2.6	2.1	5.2	3.8	3.6	2.2
27	.96	1.2	1.3	1.7	1.5	1.2	2.7	2.1	5.0	3.8	3.4	2.2
28	1.4	1.2	1.3	1.5	1.5	1.5	2.7	2.1	4.8	3.8	3.2	2.6
29	1.3	1.1	1.4	1.3	---	1.5	2.6	2.1	4.7	3.3	3.2	3.2
30	1.2	.96	1.5	1.3	---	1.7	2.4	1.8	4.6	3.6	3.4	3.1
31	1.1	---	1.3	1.2	---	1.7	---	2.0	---	3.6	3.4	---
TOTAL	35.20	36.86	39.70	39.4	70.07	53.7	129.9	51.54	133.7	124.4	118.8	82.4
MEAN	1.14	1.23	1.28	1.27	2.50	1.73	4.33	1.66	4.46	4.01	3.83	2.75
MAX	1.4	2.4	4.0	1.7	16	2.7	18	2.4	9.1	4.5	4.9	3.2
MIN	.80	.96	.88	1.1	.72	1.2	2.0	.80	1.8	3.3	3.2	2.2
AC-FT	70	73	79	78	139	107	258	102	265	247	236	163

CAL YR 1981 TOTAL 417.82 MEAN 1.14 MAX 4.0 MIN .41 AC-FT 829
WTR YR 1982 TOTAL 915.67 MEAN 2.51 MAX 18 MIN .72 AC-FT 1820

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 (3.2 km) west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi² (13.47 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft (1,548 m), 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 (1977-82), 2.84 ft³/s (0.0804 m³/s), 2,060 acre-ft/yr. (2.54 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 33 ft³/s (0.935 m³/s) Jan. 13, 1980, gage height, 3.85 ft (1.173 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 22 ft³/s (0.623 m³/s) Apr. 11, gage height, 3.04 ft (0.927 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.7	2.2	3.0	2.2	4.7	3.9	7.5	12	9.4	5.3	4.2
2	1.2	1.7	2.1	2.9	2.2	4.6	3.8	7.8	11	9.2	5.4	4.2
3	1.3	1.7	2.1	2.6	2.2	4.3	3.8	8.2	11	9.0	5.3	4.2
4	1.3	1.7	2.1	2.5	2.1	4.0	3.8	8.0	9.5	8.8	5.3	4.1
5	1.4	1.7	2.1	2.5	2.0	3.6	3.8	7.7	12	8.5	5.2	4.1
6	1.3	1.7	2.0	2.4	2.0	3.7	3.8	8.0	11	8.2	5.1	4.0
7	1.7	1.7	2.0	2.2	2.1	3.6	3.8	8.4	10	7.8	5.1	4.0
8	1.6	1.7	2.0	2.3	2.2	3.6	3.8	8.5	10	7.6	5.4	3.9
9	1.5	1.7	2.1	2.3	2.1	3.5	4.0	8.1	9.9	7.7	5.1	3.8
10	1.8	1.7	2.1	2.5	2.1	4.0	6.4	7.8	10	7.8	4.9	3.9
11	1.7	1.7	2.0	2.5	2.1	4.7	19	7.8	10	7.6	4.8	4.0
12	1.6	2.5	2.0	2.4	2.1	4.8	11	7.8	9.8	7.5	4.8	4.1
13	1.6	5.9	2.0	2.4	3.0	4.6	8.2	8.3	9.7	7.3	4.7	4.1
14	1.6	4.6	2.1	2.4	7.0	4.6	7.4	8.3	10	7.2	4.7	4.2
15	1.6	2.8	2.3	2.3	8.2	4.5	7.0	8.5	10	7.0	4.6	5.1
16	1.6	2.6	2.2	2.4	16	4.4	6.6	9.0	10	6.9	4.6	5.6
17	1.7	2.3	2.0	2.4	12	4.3	6.6	9.5	11	6.8	4.6	5.3
18	1.7	2.0	2.1	2.3	6.5	4.3	6.7	9.5	11	6.7	4.5	5.3
19	1.7	2.0	6.5	2.3	6.0	4.2	6.7	9.7	10	6.5	4.7	5.3
20	1.7	2.0	5.1	2.2	6.0	4.2	6.3	10	9.9	6.3	4.8	4.8
21	1.6	3.9	5.0	2.2	6.0	4.1	6.1	11	9.6	6.3	4.6	4.4
22	1.5	4.0	4.7	2.2	5.5	4.1	6.2	11	9.7	6.0	4.4	4.2
23	1.5	6.1	4.1	2.2	4.8	4.1	6.4	12	9.4	5.9	4.6	4.2
24	1.5	7.6	3.8	2.2	4.2	4.1	6.4	13	9.4	6.1	4.4	5.5
25	1.5	3.7	3.4	2.3	4.5	4.0	6.4	13	9.1	5.9	4.3	7.1
26	1.5	2.9	3.1	2.4	4.6	4.0	6.6	14	8.9	5.7	4.2	5.2
27	1.5	2.6	3.4	2.3	4.6	3.9	6.5	14	9.0	5.7	4.2	4.9
28	2.1	2.4	3.1	2.3	4.4	3.9	7.0	13	9.1	5.6	4.6	4.7
29	1.8	2.3	3.3	2.2	---	3.9	6.6	12	10	5.5	4.6	4.9
30	1.7	2.2	3.2	2.2	---	3.8	6.8	13	9.7	5.4	4.5	4.9
31	1.7	---	3.1	2.2	---	3.9	---	13	---	5.3	4.4	---
TOTAL	48.7	83.1	89.3	73.5	128.7	128.0	191.4	307.4	301.7	217.2	147.7	138.2
MEAN	1.57	2.77	2.88	2.37	4.60	4.13	6.38	9.92	10.1	7.01	4.76	4.61
MAX	2.1	7.6	6.5	3.0	16	4.8	19	14	12	9.4	5.4	7.1
MIN	1.2	1.7	2.0	2.2	2.0	3.5	3.8	7.5	8.9	5.3	4.2	3.8
AC-FT	97	165	177	146	255	254	380	610	598	431	293	274

CAL YR 1981 TOTAL 776.5 MEAN 2.13 MAX 7.6 MIN 1.0 AC-FT 1540
WTR YR 1982 TOTAL 1854.9 MEAN 5.08 MAX 19 MIN 1.2 AC-FT 3680

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 (152 m) south of Brunswick Road, and 4 mi (6.4 km) east of Carson City.

DRAINAGE AREA.-- 958 mi² (2,481 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,400 m) 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 (217 m³/s) Jan. 15, 1980, gage height 13.50 ft (4.115 m), minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,400 ft³/s (181 m³/s) Feb. 17, gage height 13.22 ft (4.029 m), minimum daily, 3.3 ft³/s (0.093 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	99	342	594	375	761	470	1690	2050	1650	282	57
2	3.3	107	346	503	373	828	477	1970	1840	1430	288	47
3	6.5	111	344	473	366	794	562	2210	1720	1320	230	50
4	8.3	109	315	500	370	725	598	2430	1620	1270	211	71
5	9.0	109	311	495	348	669	538	2450	1500	1140	179	85
6	14	100	297	460	322	628	520	2210	1400	996	152	79
7	9.3	99	287	355	327	609	487	2060	1320	913	135	114
8	15	104	274	375	360	605	470	2110	1280	856	150	105
9	12	96	269	395	354	587	477	2070	1270	870	162	91
10	12	89	278	420	336	566	534	1900	1330	884	172	74
11	16	98	286	480	316	647	1860	1530	1600	842	130	59
12	19	98	274	510	322	773	4360	1290	1750	842	102	54
13	44	195	278	520	316	697	4360	1270	1770	833	89	85
14	50	1290	273	510	618	654	2630	1370	1660	805	83	99
15	49	977	294	434	1530	647	1960	1480	1680	726	85	82
16	48	541	295	434	3460	612	1670	1630	1850	700	77	146
17	41	571	286	431	5850	576	1490	1800	2010	687	67	290
18	42	647	277	470	3210	576	1440	1990	2180	709	66	271
19	43	419	342	424	1800	559	1520	1910	2450	650	53	285
20	49	358	2470	394	1550	520	1410	1840	2520	598	73	316
21	48	341	3660	385	1460	477	1350	1960	2460	544	71	271
22	50	398	2280	373	1510	465	1280	2160	2310	511	73	223
23	52	639	1280	366	1420	455	1310	2340	2170	438	68	202
24	44	964	959	370	1190	450	1420	2580	2080	448	95	240
25	47	943	855	382	1070	450	1380	2720	1940	455	88	475
26	45	587	739	525	956	451	1410	2790	1740	444	73	774
27	48	468	666	666	849	454	1460	3000	1770	438	62	700
28	59	426	640	499	794	461	1510	3250	1840	458	66	486
29	98	398	600	441	---	457	1680	2920	1850	363	74	458
30	148	365	651	394	---	440	1590	2390	1820	324	74	518
31	116	---	619	373	---	430	---	2200	---	282	71	---
TOTAL	1249.9	11746	21087	13951	31752	18023	42223	65520	54780	23426	3601	6807
MEAN	40.3	392	680	450	1134	581	1407	2114	1826	756	116	227
MAX	148	1290	3660	666	5850	828	4360	3250	2520	1650	288	774
MIN	3.3	89	269	355	316	430	470	1270	1270	282	53	47
AC-FT	2480	23300	41830	27670	62980	35750	83750	130000	108700	46470	7140	13500
CAL YR 1981	TOTAL	89072.4	MEAN	244	MAX	3660	MIN	1.0	AC-FT	176700		
WTR YR 1982	TOTAL	294165.9	MEAN	806	MAX	5850	MIN	3.3	AC-FT	583500		

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 39°17'30", long 119°18'40", in SW¼SE¼ sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on right bank 400 ft (122 m) downstream from Buckland ditch, 2 mi (3 km) west of Fort Churchill, and 4.5 mi (7.2 km) upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,302 mi² (3,372 km²).

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 (1,284.641 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi (12.6 km) upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi (13 km) upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft (0.414 m) higher (levels by Truckee-Carson Irrigation District).

REMARKS.--Records good except those for period when stage discharge relation was indefinite, Oct. 1-29, which are poor. Many diversions for irrigation above station, including diversions for 720 acres (2.91 km²) between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft (122 m) upstream for irrigation below station.

AVERAGE DISCHARGE.--71 years, 365 ft³/s (10.34 m³/s), 264,400 acre-ft/yr (326 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft³/s (433 m³/s) Feb. 2, 1963, gage height, 10.83 ft (3.301 m); maximum gage height, about 11 ft (3.35 m) in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 22	0700	2900 82.1	5.33 1.625	May 5	0300	2500 70.8	4.44 1.353
Feb. 18	0700	5500 156	*6.53 1.990	May 29	0700	3280 92.9	4.88 1.487
Apr. 13	1600	*5530 157	5.94 1.811	June 20	0600	2480 70.2	4.34 1.323

Minimum daily, 0.05 ft³/s (0.0014 m³/s) Oct. 1-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	62	370	545	381	794	485	1520	2020	1620	258	48
2	.05	77	360	502	373	784	482	1780	1810	1460	250	46
3	.05	75	352	447	364	830	539	2020	1700	1310	226	41
4	.05	80	332	451	364	760	601	2250	1620	1260	197	39
5	.05	80	316	430	355	699	592	2400	1500	1170	186	42
6	.05	78	305	400	324	655	547	2240	1390	1030	169	49
7	.05	74	290	350	322	617	537	2020	1260	906	148	47
8	.05	72	282	320	341	622	506	2000	1180	868	128	59
9	.05	76	279	301	364	586	519	2080	1120	775	130	52
10	.05	80	271	373	344	571	543	2010	1170	825	140	47
11	.05	78	282	405	325	574	991	1680	1370	796	114	45
12	.05	85	281	417	319	710	3190	1390	1540	761	90	39
13	.05	94	268	420	313	670	5060	1240	1660	741	82	41
14	.05	341	270	396	341	629	3730	1300	1600	721	71	52
15	.05	1120	268	401	929	625	2340	1470	1510	682	65	66
16	.05	635	273	397	2070	592	1880	1500	1610	619	69	89
17	.05	529	272	406	3890	563	1640	1630	1780	596	61	148
18	.05	595	261	448	4730	556	1520	1840	1950	590	53	249
19	.05	466	263	450	2270	545	1510	1920	2100	572	47	249
20	.05	373	970	418	1650	516	1490	1780	2390	539	41	279
21	.05	334	2470	388	1520	487	1400	1810	2290	500	41	289
22	.05	305	2520	354	1490	492	1290	2000	2160	461	42	259
23	.05	420	1370	374	1520	485	1270	2180	1990	419	42	226
24	.05	660	1000	378	1320	481	1340	2400	1910	395	40	224
25	.05	930	821	367	1140	469	1500	2550	1870	400	47	280
26	.05	860	733	398	1030	467	1500	2620	1690	399	49	514
27	.05	580	654	588	918	471	1430	2790	1600	395	46	720
28	.05	430	607	549	831	462	1410	3100	1670	410	41	547
29	.05	410	543	468	---	480	1520	3110	1730	390	39	455
30	9.1	390	533	422	---	471	1590	2500	1770	317	43	442
31	55	---	575	392	---	437	---	2180	---	280	47	---
TOTAL	65.55	10389	18391	12955	30138	18100	42952	63310	50960	22207	3002	5683
MEAN	2.11	346	593	418	1076	584	1432	2042	1699	716	96.8	189
MAX	55	1120	2520	588	4730	830	5060	3110	2390	1620	258	720
MIN	.05	62	261	301	313	437	482	1240	1120	280	39	39
AC-FT	130	20610	36480	25700	59780	35900	85200	125600	101100	44050	5950	11270

CAL YR 1981 TOTAL 77276.38 MEAN 212 MAX 2520 MIN .05 AC-FT 153300
WTR YR 1982 TOTAL 278152.55 MEAN 762 MAX 5060 MIN .05 AC-FT 551700

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 current year, every two months.

SPECIFIC CONDUCTANCES: October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily.

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 current year, every two months.

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.

SEDIMENT DATA: January to June 1974, occasional; January 1975 to September 1981, monthly; October 1981 to current year, every two months.

REMARKS.--Monthly water-quality data are collected from Buckland Ditch, which leaves river 400 ft (120 m) upstream from gage, or from river at gage, depending on discharge. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, NV. Discharge data do not include ditch flow. Daily water-quality data were collected from Buckland Ditch, in SE¼ sec.34, T.17 N., R.24 E., about 2 mi (3 km) downstream from gaging station.

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.

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

SPECIFIC CONDUCTANCES: Maximum, 668 micromhos Oct. 18, 19; minimum, 94 micromhos May 24.

WATER TEMPERATURES: Maximum, 21.0°C July 19, 27-30; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)
NOV											
05...	1000	80	408	8.1	8.0	1.9	10.8	106	40	160	130
JAN											
20...	1245	433	260	7.8	.5	17	11.8	97	K6	230	83
MAR											
15...	1230	625	220	7.7	8.0	15	9.9	99	K16	60	67
MAY											
17...	1145	1620	105	7.8	13.0	32	8.7	97	230	350	39
JUL											
19...	1145	569	178	7.9	21.0	14	7.5	97	K73	>200	60
SEP											
20...	1215	284	350	7.4	15.0	.70	8.6	100	120	240	110

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 1981 TO SEPTEMBER 1982

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
NOV 05...	40	8.1	33	1.3	4.4	100	82	13	.4	18
JAN 20...	24	5.5	20	1.0	2.8	77	42	8.6	.3	22
MAR 15...	19	4.7	15	.8	2.3	67	31	6.0	.2	21
MAY 17...	11	2.9	7.1	.5	1.8	43	5.0	2.5	<.1	17
JUL 19...	17	4.2	12	.7	2.7	66	18	4.1	.1	20
SEP 20...	32	7.8	27	1.2	5.6	120	42	11	.3	25

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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)
NOV 05...	267	259	57.7	.27	.110	.55	.200	.170	.210	8
JAN 20...	172	172	201	.32	.480	.80	.230	.180	.200	--
MAR 15...	137	161	231	.31	.070	.53	.140	.120	.110	14
MAY 17...	74	73	324	.10	.080	.70	.240	.050	.050	5
JUL 19...	121	118	186	.10	.060	2.20	.160	.100	.090	--
SEP 20...	233	223	179	.39	<.060	1.50	.360	.300	.210	8

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
NOV 05...	7	<100	44	<1	<1	10	<10	1	<3	5
JAN 20...	--	--	--	--	--	--	--	--	--	--
MAR 15...	8	<100	30	<1	<1	20	<10	1	<1	13
MAY 17...	5	100	25	<1	<3	<10	<10	4	<1	16
JUL 19...	--	--	--	--	--	--	--	--	--	--
SEP 20...	8	100	59	<1	<1	10	<10	<1	<1	13

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
NOV 05...	2	430	37	2	3	80	19	.3	<.1	2
JAN 20...	--	--	--	--	--	--	--	--	--	--
MAR 15...	3	2300	90	9	<1	80	6	1.1	.1	3
MAY 17...	4	5300	120	12	2	200	5	1.9	.1	4
JUL 19...	--	--	--	--	--	--	--	--	--	--
SEP 20...	5	770	88	6	<1	100	23	.8	.1	<1

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 05...	1	<1	<1	<1	<1	50	20	10	2.2	--
JAN 20...	--	--	--	--	--	--	--	99	116	--
MAR 15...	1	<1	<1	<1	<1	20	3	78	132	--
MAY 17...	<1	<1	<1	2	<1	30	<12	372	1630	38
JUL 19...	--	--	--	--	--	--	--	66	101	--
SEP 20...	2	<1	<1	<1	<1	40	8	37	28	--

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	.0	5.0	---	11.0	11.5	11.5	18.0	17.0
2	11.5	3.5	1.0	---	.0	5.0	---	11.5	11.5	14.0	16.0	18.0
3	11.0	5.5	1.0	---	---	---	5.0	10.5	11.5	14.5	16.5	18.0
4	7.0	6.0	2.0	---	---	---	5.0	10.0	11.0	14.5	17.0	15.0
5	7.5	6.0	2.0	---	.0	5.5	5.0	10.0	10.0	14.0	17.5	16.0
6	---	8.0	3.0	---	---	---	5.0	12.5	10.5	15.0	19.0	17.5
7	10.0	6.0	4.0	---	.0	6.0	---	11.5	13.5	17.0	19.5	16.0
8	5.5	6.0	3.0	.0	---	---	---	11.5	11.0	16.5	---	---
9	7.5	6.0	3.0	.0	---	---	6.5	9.0	13.0	16.0	19.5	---
10	11.0	---	3.0	.0	---	---	7.0	7.5	14.5	17.5	17.0	15.0
11	9.0	5.5	2.0	---	---	---	6.5	7.0	15.5	18.0	17.0	13.0
12	6.0	6.5	1.5	---	---	5.0	6.0	9.0	14.0	---	17.5	13.0
13	5.0	7.0	2.0	---	3.0	6.0	6.5	11.5	13.0	18.5	18.0	12.5
14	5.0	6.0	2.5	---	5.0	7.0	---	12.0	14.5	19.0	17.5	12.0
15	6.0	5.0	5.0	.0	6.0	6.0	---	11.5	15.0	18.5	17.5	12.5
16	5.0	6.0	2.0	.0	5.0	5.5	6.0	11.5	16.0	17.5	18.5	10.5
17	6.5	4.0	---	---	---	---	7.0	13.0	17.0	18.0	---	12.5
18	7.5	3.5	2.5	.0	---	---	8.0	11.5	15.0	19.0	20.0	12.0
19	8.0	4.0	3.5	---	4.0	3.0	8.0	---	14.5	20.0	18.5	---
20	7.5	4.0	6.0	.0	4.0	3.0	---	11.0	15.0	19.5	18.0	---
21	8.0	4.5	4.0	.0	5.5	5.5	---	13.0	15.0	19.5	20.0	12.5
22	7.0	6.0	2.0	---	6.0	5.5	---	13.5	15.0	20.0	20.0	13.0
23	---	---	.0	---	3.0	5.0	8.0	13.0	15.5	19.5	20.0	14.0
24	7.5	---	.0	---	---	---	10.0	12.5	16.0	20.0	---	15.0
25	7.5	3.5	---	---	---	---	---	13.0	14.5	20.0	18.5	15.0
26	7.5	1.0	1.0	---	---	8.0	9.5	13.5	16.5	20.5	18.0	14.0
27	8.0	.0	3.0	---	---	7.5	9.5	13.0	15.0	21.0	17.0	11.0
28	8.0	.0	---	---	---	7.5	---	11.0	16.0	21.0	17.5	---
29	6.5	---	---	---	---	5.0	---	11.0	15.5	21.0	17.5	---
30	3.0	---	2.5	---	---	3.5	9.0	11.0	12.0	21.0	14.5	---
31	---	---	2.0	.0	---	---	---	12.0	---	19.0	16.5	---
MEAN	7.5	4.5	2.5	.0	3.0	5.5	7.0	11.5	14.0	18.0	18.0	14.0
MAX	11.5	8.0	6.0	.0	6.0	8.0	10.0	13.5	17.0	21.0	20.0	18.0
MIN	3.0	.0	.0	.0	.0	3.0	5.0	7.0	10.0	11.5	14.5	10.5
WTR YR 1982	MEAN	10.0	MAX	21.0	MIN	.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	308	216	---	117	100	109	286	488
2	584	434	230	210	---	216	---	112	102	111	296	488
3	584	434	230	255	---	---	239	104	104	112	296	510
4	594	434	236	228	---	---	239	102	108	127	322	510
5	594	423	241	---	286	216	255	102	116	121	343	510
6	---	423	243	239	---	216	255	104	120	125	343	510
7	584	412	252	---	286	221	---	108	125	137	374	510
8	584	412	252	---	---	226	---	108	131	143	---	---
9	584	412	258	---	---	---	245	99	143	145	406	---
10	584	---	258	---	---	---	245	106	135	147	395	488
11	594	412	263	---	---	---	229	124	123	153	364	488
12	589	423	252	---	---	216	147	136	112	153	385	488
13	584	423	252	---	281	190	143	146	104	149	416	510
14	562	390	263	---	281	206	---	140	108	153	447	510
15	573	222	263	255	276	206	---	122	116	153	458	499
16	573	173	263	249	164	201	141	122	108	168	458	454
17	637	206	---	249	---	---	147	112	104	163	---	443
18	668	184	258	260	---	---	149	108	96	168	458	388
19	668	179	268	---	157	216	145	---	99	168	478	---
20	637	217	258	286	164	221	135	104	108	183	489	---
21	621	233	123	286	164	237	---	102	118	193	510	355
22	626	238	125	---	164	237	---	96	108	208	510	332
23	---	---	132	---	155	232	143	96	108	208	520	355
24	621	---	145	---	---	---	137	94	105	233	520	355
25	626	141	---	308	---	---	---	96	102	223	520	355
26	626	124	164	249	---	232	118	100	108	223	499	332
27	626	154	181	---	---	226	---	98	114	228	499	266
28	631	179	---	---	---	221	---	108	106	228	499	---
29	631	---	---	---	---	232	---	108	102	218	520	---
30	605	---	203	---	---	221	114	99	---	233	520	---
31	---	---	192	260	---	---	---	99	---	257	499	---
MEAN	607	303	223	256	224	219	179	109	111	172	436	441
MAX	668	434	268	308	308	237	255	146	143	257	520	510
MIN	562	124	123	210	155	190	114	94	96	109	286	266
WTR YR 1982	MEAN	275	MAX	668	MIN	94						

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 (29 km) west of Fallon.

DRAINAGE AREA.--1,950 mi² (5,050 km²), (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 (1.137 m) 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 (364 hm³) between altitudes, 4,060.0 ft (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m³) of dead storage below altitude 4,070.0 ft (1,240.54 m). Surface area at spillway altitude, 12,120 acres (49.0 km²). Water is used for irrigation of 87,500 acres (354 km²) in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

COOPERATION.--Records of daily altitudes furnished by Truckee-Carson Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-inch flashboard on weir), 328,600 acre-ft (405 hm³) June 16, 1942, altitude, 4,164.43 ft (1,269.318 m); minimum observed, 91 acre-ft (112,000 m³) Sept. 7-9, 1929, altitude, 4,070.0 ft (1,240.54 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 300,400 acre-ft (370 hm³) July 4, altitude, 4,162.42 ft (1,268.706 m); minimum observed, 42,060 acre-ft (51.9 hm³) Oct. 7, altitude, 4,116.36 ft (1,254.667 m).

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

4,116	41,250	4,145	155,400
4,118	45,870	4,150	187,200
4,120	50,890	4,155	225,600
4,125	65,300	4,160	272,500
4,130	82,700	4,162	295,100
4,135	103,500	4,163	307,900
4,140	127,800		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43940	61850	97820	164100	200600	233700	222600	247300	279500	299600	273700	223000
2	43330	62620	99830	165600	201000	233600	222900	248100	280500	299900	272300	220400
3	42780	62620	102200	167600	201300	233500	222700	248800	280900	300200	271000	219300
4	42350	62460	104900	170200	201300	233400	221900	249700	281300	300400	269400	218100
5	42170	62250	106300	172600	201500	233100	220900	250700	281400	300200	268300	215700
6	42100	62060	107900	174300	201700	232800	220200	253400	281300	299900	267300	214300
7	42060	62030	109200	175800	201900	232500	219500	255000	281300	299900	265200	212900
8	42170	62000	111300	177000	202100	232100	218800	256100	281100	299600	263200	211500
9	42240	61910	113000	178300	202300	231600	217900	257100	281400	299300	260800	210200
10	42420	61850	113800	179700	202500	231200	217100	258200	280800	298800	259100	208500
11	42670	61670	114700	180300	202800	230800	216400	259600	280700	298200	257100	207200
12	42970	61310	116000	181100	203000	230200	216200	260300	280500	297800	255100	205900
13	43270	61250	117300	181100	203300	229800	219300	260200	280500	297200	253200	204300
14	44330	61760	119600	182200	203700	229400	225800	259700	280400	296400	251100	203100
15	45610	62800	121200	183200	204100	229100	231200	259500	280700	295400	249300	201900
16	46920	64160	122800	184100	204600	228800	234400	259200	282100	294200	247900	200900
17	48260	66570	124300	185100	207000	228400	236700	259200	283300	293700	246000	200200
18	49620	68660	125900	186300	213000	227800	238600	259100	285000	293200	244200	199700
19	50660	71020	127100	187400	213200	227100	239500	259800	289000	292400	242300	199200
20	51940	73450	128600	188400	217200	226500	240700	260600	290200	291600	240500	198600
21	53260	75740	130500	189500	223000	225700	241800	261300	291300	289400	238700	198100
22	54460	77600	135000	190700	228500	224800	242700	262000	294100	287100	236900	197800
23	55960	79510	140800	191800	229900	224100	243300	262800	295400	286500	235100	197400
24	56600	81300	146300	192500	231300	223800	243600	263600	296500	285100	233900	196900
25	57260	83390	149700	193200	232400	223600	244000	265500	297100	282500	232500	196800
26	57890	85330	152000	194000	233100	223300	244600	267400	297600	281600	231000	196700
27	58490	87460	154100	195300	233400	223100	245200	269100	297800	280800	229600	196700
28	59110	89880	156400	196400	233600	222900	245800	271300	297800	280100	228100	197300
29	59640	92470	158800	197500	---	222700	246200	273800	298100	278100	226500	197800
30	60350	95800	161200	198600	---	222500	246800	276600	299100	275900	224800	198600
31	61100	---	162600	199600	---	222300	---	278400	---	274800	223300	---
MAX	61100	95800	162600	199600	233600	233700	246800	278400	299100	300400	273700	223000
MIN	42060	61250	97820	164100	200600	222300	216200	247300	279500	274800	223300	196700
†	4123.64	4133.24	4146.20	4151.73	4155.93	4154.61	4157.39	4160.65	4162.32	4160.21	4154.73	4151.60
‡	+16560	+34700	+66800	+37000	+34000	-11300	+24500	+31600	+20700	-24300	-51500	-24700

CAL YR 1981 MAX 243400 MIN 42060 ‡ -28800
WTR YR 1982 MAX 300400 MIN 42060 ‡ +154060

† 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 (1.8 km) downstream from Lahontan Dam, and 15 mi (24 km) west of Fallon.

DRAINAGE AREA.--1,801 mi² (4,665 km²)(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 (1,231 m), from topographic map.

REMARKS.--Records good except those below 10 ft³/s (0.28 m³/s) which are fair. Flow regulated by Lahontan Reservoir, capacity 295,100 acre-ft (364 hm³), and other upstream regulations. One diversion, approximately 2,500 acre-ft per year (3.08 hm³), between gage and Lahontan Reservoir.

AVERAGE DISCHARGE.--16 years, 525 ft³/s (14.87 m³/s), 380,400 acre-ft/yr (469 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft³/s (65.1 m³/s), July 5, 6, 1967, gage height, 7.71 ft (2.350 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 25 to Nov. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s (43.6 m³/s), gage height, 5.51 ft (1.679 m) June 3; minimum daily discharge, 4.0 ft³/s (0.11 m³/s) Jan. 6-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	462	6.0	6.1	4.3	139	790	401	1320	1490	1270	920	785
2	459	175	6.0	4.3	240	787	526	1300	1490	1200	922	801
3	457	304	6.0	4.2	240	785	703	1290	1490	1120	921	844
4	458	304	5.8	4.1	230	786	778	1280	1490	1110	921	850
5	455	303	5.8	4.1	230	788	770	1320	1460	1110	920	819
6	452	302	5.8	4.0	230	788	778	1410	1460	969	938	785
7	446	301	5.6	4.0	229	789	779	1410	1440	862	986	777
8	448	299	5.6	4.0	230	782	781	1410	1390	845	982	755
9	448	297	5.6	4.0	229	783	781	1420	1300	853	979	751
10	452	340	5.5	4.0	229	783	781	1420	1260	893	977	742
11	445	392	5.4	4.0	229	783	781	1430	1210	919	974	739
12	445	385	5.4	4.0	230	785	777	1430	1080	955	973	729
13	214	307	5.2	4.0	174	784	781	1420	1070	987	974	694
14	8.0	96	5.2	4.0	166	785	785	1420	1010	1000	971	645
15	6.0	6.0	5.1	4.0	212	783	794	1430	888	1020	971	634
16	6.0	6.0	5.1	4.0	349	784	794	1430	897	1010	970	529
17	6.0	6.0	5.0	4.0	525	786	819	1420	884	973	968	477
18	6.0	6.0	5.0	4.0	628	786	828	1420	884	969	967	471
19	6.0	6.0	5.0	4.0	696	783	836	1420	888	973	963	468
20	6.0	6.0	4.9	4.0	698	788	836	1420	888	987	981	464
21	6.0	6.0	4.9	4.0	699	785	985	1400	893	1020	913	460
22	6.0	6.0	4.8	4.0	702	784	1040	1410	1020	1030	868	464
23	6.0	6.0	4.7	4.0	757	642	1100	1410	1170	1020	831	472
24	6.0	6.0	4.7	4.0	789	543	1170	1410	1300	1010	792	432
25	6.0	6.0	4.7	4.0	764	464	1170	1400	1330	965	796	387
26	6.0	6.0	4.6	4.0	786	476	1190	1410	1350	946	794	383
27	6.0	6.0	4.6	4.0	787	479	1220	1440	1320	928	793	377
28	6.0	6.0	4.5	4.0	791	478	1300	1440	1310	929	793	373
29	6.0	6.0	4.4	4.0	---	480	1330	1460	1310	917	790	260
30	6.0	6.0	4.4	4.0	---	426	1330	1460	1300	918	788	141
31	6.0	---	4.4	4.0	---	403	---	1490	---	919	789	---
TOTAL	5751.0	3907.0	159.8	125.0	12208	21668	26944	43550	36272	30627	28125	17508
MEAN	186	130	5.15	4.03	436	699	898	1405	1209	988	907	584
MAX	462	392	6.1	4.3	791	790	1330	1490	1490	1270	986	850
MIN	6.0	6.0	4.4	4.0	139	403	401	1280	884	845	788	141
AC-FT	11410	7750	317	248	24210	42980	53440	86380	71950	60750	55790	34730
CAL YR 1981	TOTAL	161091.7	MEAN	441	MAX	1110	MIN	4.4	AC-FT	319500		
WTR YR 1982	TOTAL	226844.8	MEAN	621	MAX	1490	MIN	4.0	AC-FT	449900		

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: June 1978 and May 1979, single samples; October 1979 to September 1980, monthly or more frequently (unpublished); October 1980 to September 1981, monthly.

SPECIFIC CONDUCTANCES: March 1977 to December 1979, monthly; January to October 1980, monthly or more frequently; November 1980 to current year, once daily.

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

WATER TEMPERATURES: November 1966 to December 1979, monthly (unpublished prior to March 1977); January to October 1980, monthly or more frequently; November 1980 to current year, once daily.

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

REMARKS.--Daily water-quality data are collected approximately 0.5 mi (0.8 km) downstream from Lahontan Dam. Unpublished data are available from district office in Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 591 micromhos Jan. 4, 1978; minimum, 166 micromhos many days in Aug. and Sept., 1982.

PHYTOPLANKTON: Maximum, 12,000 cells/mL Aug. 11, 1980; minimum, 78 cells/mL Apr. 16, 1980.

WATER TEMPERATURES: Maximum, 22.5°C Aug. 30, 1981; minimum, freezing point Jan. 5-8, 10-15, 1982.

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

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

SPECIFIC CONDUCTANCES: Maximum, 393 micromhos Jan. 20; minimum, 166 micromhos many days in Aug. and Sept.

WATER TEMPERATURES: Maximum, 20.5°C Aug. 31 and several days in September; minimum, freezing point Jan. 5-8, 10-15.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	10.0	5.0	4.0	2.5	5.0	7.0	10.0	---	---	18.5	---
2	17.0	10.0	5.5	2.0	3.5	5.0	7.0	10.0	14.0	16.5	19.0	20.0
3	17.0	10.0	5.0	1.0	4.0	5.0	---	10.0	14.0	17.5	18.5	20.0
4	---	10.0	4.5	1.0	2.0	4.0	---	10.0	13.0	16.0	19.0	20.5
5	16.0	10.0	4.0	.0	4.0	---	---	10.5	14.0	16.0	19.0	20.0
6	15.5	10.0	4.5	.0	3.5	6.0	---	11.0	14.5	17.0	19.0	20.0
7	15.0	10.0	4.5	.0	3.5	6.0	---	11.0	14.5	17.5	19.0	20.5
8	14.5	10.0	4.5	.0	2.5	6.0	---	11.0	14.5	17.0	20.0	20.5
9	14.5	10.0	5.0	---	2.5	5.5	---	10.5	14.5	17.0	19.0	20.0
10	14.0	10.0	5.0	.0	3.0	5.5	---	12.0	15.0	17.0	---	20.5
11	13.5	10.0	4.5	.0	3.0	5.5	---	11.0	15.0	17.0	19.0	19.5
12	13.0	10.0	4.5	.0	3.0	6.5	---	11.0	15.0	17.0	19.0	15.5
13	12.0	9.5	4.5	.0	2.0	---	---	11.5	15.0	17.0	19.0	16.0
14	---	9.5	---	.0	---	6.5	---	11.5	15.5	---	19.0	16.0
15	9.0	8.0	---	.0	4.5	7.0	---	12.0	16.0	17.0	19.5	16.5
16	9.0	8.5	4.0	---	5.0	7.0	---	11.5	16.0	17.0	19.0	17.5
17	10.0	7.5	4.5	1.0	4.5	6.5	---	13.0	16.0	17.5	19.5	17.5
18	---	8.0	4.0	---	4.5	7.0	---	12.0	15.5	18.0	20.0	17.5
19	10.0	6.0	---	1.0	4.0	7.0	---	12.0	16.0	18.5	20.0	18.0
20	10.5	6.5	---	1.0	---	7.0	---	13.0	17.0	17.5	19.0	18.0
21	10.0	8.0	4.5	.5	5.5	7.0	---	13.0	15.5	17.5	20.0	18.0
22	9.0	8.0	4.5	1.0	5.5	7.0	---	12.5	16.5	17.5	20.0	18.5
23	---	8.5	4.5	2.0	6.0	7.0	---	12.0	16.0	17.5	20.0	18.0
24	10.0	7.0	5.0	3.0	5.5	7.0	---	12.0	16.0	18.0	20.0	17.5
25	10.0	5.0	5.0	2.0	5.5	7.0	---	13.0	16.0	18.0	20.0	17.5
26	10.5	3.0	---	1.5	5.0	7.0	---	13.0	16.5	18.0	19.5	17.0
27	10.5	3.0	4.5	2.0	5.0	7.0	10.0	12.0	17.0	18.0	19.0	17.0
28	9.5	4.0	---	1.5	5.0	7.0	10.0	12.5	17.0	18.0	19.0	16.5
29	10.0	---	4.0	1.5	---	7.0	9.0	13.0	16.5	18.0	19.5	16.5
30	9.5	4.0	5.0	2.0	---	7.0	10.0	14.0	17.0	18.0	20.0	16.0
31	9.5	---	3.0	---	---	7.0	---	14.0	---	18.0	20.5	---
MEAN	12.0	8.0	4.5	1.0	4.0	6.5	9.0	12.0	15.5	17.5	19.5	18.0
MAX	17.0	10.0	5.5	4.0	6.0	7.0	10.0	14.0	17.0	18.5	20.5	20.5
MIN	9.0	3.0	3.0	.0	2.0	4.0	7.0	10.0	13.0	16.0	18.5	15.5
WTR YR 1982 MEAN		11.0		MAX	20.5	MIN	.0					

CARSON RIVER BASIN

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10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	270	369	350	382	255	245	230	---	183	166	166
2	350	270	358	366	255	255	245	225	216	183	166	166
3	350	270	352	361	255	255	---	235	216	183	166	172
4	---	276	352	350	255	255	---	235	211	183	166	166
5	350	276	352	361	255	255	245	235	211	183	166	166
6	345	281	347	361	255	255	245	235	211	183	166	166
7	329	281	347	371	255	255	245	235	211	178	166	177
8	318	296	347	382	255	255	245	235	211	183	172	177
9	302	296	358	350	255	255	245	235	211	183	166	177
10	297	291	358	361	255	255	245	230	206	183	166	172
11	297	302	363	366	255	255	---	230	201	183	166	172
12	286	302	369	---	255	255	243	230	201	183	172	177
13	281	302	369	361	255	---	243	225	201	178	166	166
14	---	302	369	361	255	255	243	225	201	178	166	166
15	281	354	379	361	255	255	243	225	201	183	166	166
16	276	354	379	361	255	255	243	225	201	178	166	166
17	276	364	---	361	255	255	243	225	201	178	166	166
18	---	374	369	382	255	250	239	225	201	178	166	166
19	276	374	363	382	255	250	239	225	196	173	172	172
20	276	364	363	393	255	250	239	225	196	178	166	172
21	276	364	363	371	255	250	239	225	196	173	166	172
22	265	364	---	382	255	250	239	225	196	173	166	172
23	265	364	358	361	255	250	239	225	196	173	166	172
24	265	364	358	361	255	250	234	225	196	173	166	172
25	276	364	358	361	255	250	234	225	191	173	172	172
26	281	374	358	382	255	250	234	225	191	173	166	177
27	281	364	358	371	255	250	234	220	191	173	166	177
28	292	364	358	371	255	250	234	215	191	173	172	172
29	292	364	358	371	---	250	234	215	191	173	172	172
30	297	364	358	371	---	250	234	215	191	173	172	177
31	297	---	358	371	---	239	---	215	---	173	172	---
MEAN	297	328	360	367	260	252	240	226	201	178	168	171
MAX	350	374	379	393	382	255	245	235	216	183	172	177
MIN	265	270	347	350	255	239	234	215	191	173	166	166
WTR YR 1982	MEAN	253	MAX	393	MIN	166						

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 (24 km) north-northeast of Fallon.

PERIOD OF RECORD.--October 1966 to June 1967 (monthly discharge only), July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,880 ft (1,183 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity 295,100 acre-ft (364 hm³). Records for this station together with the canals on preceding pages represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 46.9 ft³/s (1.328 m³/s), 33,980 acre-ft/yr (41.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) July 9, 1967, gage height, 6.60 ft (2.012 m); no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 414 ft³/s (11.7 m³/s) Mar. 2, gage height, 4.89 ft (1.491 m). No flow Oct. 1 to Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	3.0	2.5	2.4	402	104	272	271	355	7.3	6.1
2	.00	.00	2.7	2.2	2.3	408	133	286	285	368	4.7	5.6
3	.00	.00	2.9	1.9	2.2	400	132	273	285	375	3.4	3.8
4	.00	.00	2.7	1.6	2.1	398	248	265	268	371	3.7	3.8
5	.00	.05	4.4	1.5	2.0	395	318	265	257	352	3.0	3.9
6	.00	.70	5.5	1.5	1.9	395	339	243	261	337	3.3	13
7	.00	2.3	7.3	1.5	1.8	396	363	210	253	253	2.9	13
8	.00	1.4	5.8	1.6	1.8	400	367	254	278	112	2.5	9.3
9	.00	.60	5.2	1.6	1.8	400	370	270	267	86	2.3	8.6
10	.00	.35	4.3	1.7	1.7	400	371	292	264	71	2.2	7.9
11	.00	.26	2.2	1.8	1.7	403	381	317	270	60	2.3	6.2
12	.00	1.4	1.5	1.9	1.7	402	381	295	275	55	7.6	5.8
13	.00	1.6	2.0	1.9	1.7	400	371	296	182	47	23	4.4
14	.00	1.4	2.9	2.0	1.7	400	354	277	168	44	22	5.9
15	.00	1.0	3.5	2.0	1.7	400	344	302	100	48	9.0	15
16	.00	1.1	3.5	2.1	4.7	398	302	351	26	37	7.9	22
17	.00	1.6	3.8	2.1	21	398	276	363	14	20	8.3	17
18	.00	1.6	3.6	2.2	227	403	242	365	17	22	14	27
19	.00	1.7	2.9	2.2	283	400	241	346	29	27	19	36
20	.00	1.8	2.9	2.3	340	396	231	358	30	40	25	25
21	.00	1.8	2.9	2.3	368	396	204	358	27	43	26	28
22	.00	1.8	2.7	2.4	378	396	172	335	27	18	20	20
23	.00	1.8	2.9	2.4	380	393	158	324	138	13	18	18
24	.00	1.8	2.6	2.4	385	360	166	316	243	15	16	18
25	.00	1.7	2.6	2.5	385	291	225	265	302	13	14	27
26	.00	1.7	2.6	2.5	383	224	259	260	320	9.3	13	28
27	.00	2.7	2.6	2.5	390	173	222	257	322	7.3	16	24
28	.00	3.6	2.6	2.4	398	149	243	246	325	6.3	11	26
29	.00	4.7	2.5	2.4	---	139	253	249	336	7.9	8.3	29
30	.00	3.8	2.9	2.4	---	131	272	248	345	7.3	8.3	28
31	.00	---	2.6	2.4	---	124	---	255	---	8.3	7.6	---
TOTAL	.00	44.26	102.1	64.7	3971.2	10770	8042	9013	6185	3228.4	331.6	485.3
MEAN	.000	1.48	3.29	2.09	142	347	268	291	206	104	10.7	16.2
MAX	.00	4.7	7.3	2.5	398	408	381	365	345	375	26	36
MIN	.00	.00	1.5	1.5	1.7	124	104	210	14	6.3	2.2	3.8
AC-FT	.00	88	203	128	7880	21360	15950	17880	12270	6400	656	963

CAL YR 1981 TOTAL 590.69 MEAN 1.62 MAX 12 MIN .00 AC-FT 1170
WTR YR 1982 TOTAL 42237.56 MEAN 116 MAX 408 MIN .00 AC-FT 83780

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 (2 km) upstream from Hot Springs Creek, 7 mi (11 km) north of Cross Ranch, and 13 mi (21 km) north of Deeth.

DRAINAGE AREA.--415 mi² (1,075 km²).

PERIOD OF RECORD.--October 1943 to September 1980, October 1981 to September 1982. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi (1.9 km) downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter months, and period of no gage-height record, Jan. 7 to Feb. 23 and Aug. 7 to Sept. 8, which are poor. Several diversions for irrigation of 7,150 acres (28.9 km²), 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.--38 years (1943-80, 1982), 64.4 ft³/s (1.824 m³/s), 46,660 acre-ft/yr (57.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft³/s (119 m³/s), Feb. 12, 1962, gage height, 7.63 ft (2.326 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 21	unknown	unknown	unknown	unknown	unknown
May 5	1400	*739	20.9	6.05	1.844

Minimum daily discharge, 1.6 ft³/s (0.045 m³/s) Oct. 4-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	4.3	18	29	17	77	127	575	392	160	34	12
2	5.8	4.9	19	27	16	91	137	576	358	154	29	12
3	2.3	5.5	21	25	15	98	114	605	353	144	24	11
4	1.6	6.8	21	24	14	87	111	656	346	138	18	11
5	1.6	6.5	22	24	14	77	114	698	336	133	16	10
6	1.6	6.8	24	23	14	68	99	635	331	126	15	9.6
7	2.0	7.2	24	22	14	63	101	591	323	111	14	9.4
8	2.0	6.8	25	22	14	63	87	564	301	103	13	9.2
9	2.1	7.6	26	21	14	66	80	565	273	101	12	8.5
10	2.1	8.0	24	20	14	71	80	559	254	94	11	8.5
11	2.6	8.8	24	20	14	79	93	538	248	87	9.3	7.9
12	2.8	8.8	24	20	15	93	173	499	243	81	8.5	8.5
13	2.1	10	27	20	16	95	323	451	256	76	7.5	9.9
14	2.1	12	27	20	17	98	441	403	298	70	6.5	9.9
15	2.1	11	30	20	20	120	482	375	316	58	5.8	12
16	2.1	10	32	21	30	118	526	386	314	53	5.6	12
17	2.1	10	32	22	50	106	503	410	316	51	5.6	23
18	2.2	10	32	23	90	98	458	454	328	50	5.6	24
19	2.2	10	36	21	120	94	439	526	310	50	5.6	26
20	2.3	11	45	19	145	82	421	572	302	48	6.5	22
21	2.3	12	67	19	170	76	381	523	285	46	7.5	24
22	2.6	12	96	19	160	71	346	489	285	43	6.6	24
23	2.8	15	41	22	133	68	348	481	275	43	5.0	21
24	2.8	16	40	24	111	69	384	499	260	43	5.2	18
25	3.0	14	28	25	98	71	448	523	251	44	5.2	15
26	3.8	19	52	25	93	79	511	527	238	43	5.2	18
27	4.0	20	36	24	88	90	546	536	223	41	5.4	21
28	3.9	17	49	22	81	111	555	554	205	42	5.8	25
29	3.0	17	24	19	---	144	582	547	183	43	7.0	30
30	3.2	19	37	18	---	143	591	502	166	42	11	30
31	3.5	---	47	17	---	128	---	451	---	39	13	---
TOTAL	84.1	327.0	1050	677	1597	2794	9601	16270	8569	2357	329.4	482.4
MEAN	2.71	10.9	33.9	21.8	57.0	90.1	320	525	286	76.0	10.6	16.1
MAX	5.8	20	96	29	170	144	591	698	392	160	34	30
MIN	1.6	4.3	18	17	14	63	80	375	166	39	5.0	7.9
AC-FT	167	649	2080	1340	3170	5540	19040	32270	17000	4680	653	957

WTR YR 1982 TOTAL 44137.9 MEAN 121 MAX 698 MIN 1.6 AC-FT 87550

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 (180 m) upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermitt ditch, and 3 mi (5 km) south of Lamoille.

DRAINAGE AREA.--25 mi² (65 km²), approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Concrete control since Oct. 30, 1950. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums. Oct. 1 to Jan. 16, 1975, water-stage recorder at site 600 ft (183 m) downstream at datum 4.28 ft (1.305 m) lower.

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.--46 years (1915-22, 1943-82) 44.0 ft³/s (1.246 m³/s), 31,880 acre-ft/yr (39.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 794 ft³/s (22.5 m³/s) June 4, 1957, caused by failure of diversion dam 200 ft (60 m) upstream, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft³/s (0.003 m³/s) Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 310 ft³/s (8.78 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 26	2100	445 12.6	5.00 1.524
June 18	2000	530 15.0	5.45 1.661
Sept. 26	1100	*750 21.2	6.23 1.899

Minimum daily, 2.7 ft³/s (0.076 m³/s) Jan. 7, result of freeze up.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.7	3.3	4.8	4.4	7.0	9.4	56	274	196	61	14
2	3.4	3.9	3.7	4.5	4.5	7.1	9.3	76	250	165	55	13
3	3.4	3.9	3.9	4.2	4.5	7.2	9.3	104	260	182	50	12
4	3.4	3.9	3.9	3.7	4.4	7.3	9.4	129	267	180	50	12
5	3.4	3.9	3.9	4.0	4.3	7.0	11	126	245	137	46	12
6	3.4	3.9	4.0	3.3	4.2	7.7	9.3	123	204	129	38	12
7	4.3	3.9	4.0	2.7	4.1	7.1	9.0	123	177	144	35	12
8	3.7	3.9	4.0	3.0	3.9	7.0	10	124	182	139	37	12
9	3.6	3.9	4.0	3.2	3.7	7.0	9.0	119	206	139	36	12
10	3.7	3.9	4.0	3.5	3.5	7.0	9.0	105	245	152	32	12
11	3.9	3.9	4.0	3.7	3.2	7.9	15	94	285	167	30	11
12	3.9	3.7	3.8	3.9	3.5	7.7	19	88	307	181	29	13
13	3.7	3.9	4.0	4.1	3.9	7.3	19	87	320	188	27	16
14	3.7	4.0	4.1	4.3	4.5	7.8	19	94	332	184	26	15
15	3.7	4.1	4.1	4.0	5.2	8.3	19	102	353	163	25	26
16	3.7	4.0	3.9	3.7	9.8	8.2	18	110	397	135	23	19
17	3.7	4.0	3.5	4.0	6.7	7.8	18	119	437	121	22	17
18	3.7	4.1	4.5	4.5	6.1	8.0	19	167	469	110	22	19
19	3.7	3.8	5.5	4.9	6.2	7.8	19	143	443	105	23	28
20	3.7	4.0	6.8	5.2	6.6	8.1	19	146	422	108	22	25
21	3.7	4.0	5.7	4.8	6.8	8.5	19	172	407	100	22	18
22	3.7	4.0	5.0	4.7	7.2	8.2	19	225	385	103	22	14
23	3.7	4.5	5.1	4.5	7.2	8.3	21	285	378	107	20	12
24	3.7	4.4	4.7	4.3	7.2	8.1	23	305	360	117	20	12
25	3.7	4.2	4.7	4.0	7.3	8.5	24	340	367	107	18	68
26	3.7	4.0	4.5	3.5	7.0	8.6	26	383	342	94	17	453
27	3.7	3.8	3.9	3.7	7.0	8.6	30	415	369	86	16	146
28	4.2	4.0	5.4	3.9	7.0	9.2	38	367	376	81	16	95
29	4.1	3.9	6.7	4.0	---	9.6	44	307	315	78	17	76
30	3.8	3.7	5.8	4.2	---	9.4	47	278	239	73	17	66
31	3.7	---	5.4	4.3	---	9.4	---	278	---	67	15	---
TOTAL	114.8	118.8	139.8	125.1	153.9	246.7	569.7	5590	9613	4038	889	1272
MEAN	3.70	3.96	4.51	4.04	5.50	7.96	19.0	180	320	130	28.7	42.4
MAX	4.3	4.5	6.8	5.2	9.8	9.6	47	415	469	196	61	453
MIN	3.4	3.7	3.3	2.7	3.2	7.0	9.0	56	177	67	15	11
AC-FT	228	236	277	248	305	489	1130	11090	19070	8010	1760	2520
CAL YR 1981	TOTAL	7650.9	MEAN	21.0	MAX	198	MIN	2.8	AC-FT	15180		
WTR YR 1982	TOTAL	22870.8	MEAN	62.7	MAX	469	MIN	2.7	AC-FT	45360		

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 (60 km) north of Elko.

DRAINAGE AREA.--4.48 mi² (11.6 km²).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft³/s (1.08 m³/s) Apr. 21, 1980, gage height 1.76 ft (0.536 m), maximum gage height 1.78 ft (0.543 m) May 8, 1982; no flow many months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s (0.51 m³/s) May 8, gage height 1.78 ft (0.543 m); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.44	2.7	1.7	8.5	3.6	1.3	.28	.00
2	.00	.00	.00	.00	.65	2.3	2.0	11	2.3	1.1	.28	.00
3	.00	.00	.00	.00	.61	1.8	2.3	14	2.5	1.1	.28	.00
4	.00	.00	.00	.00	.29	1.7	1.9	7.9	2.3	1.1	.28	.00
5	.00	.00	.00	.00	.24	1.6	1.8	6.3	2.2	.99	.29	.00
6	.00	.00	.00	.00	.29	1.5	1.8	8.6	2.0	.88	.35	.00
7	.00	.00	.00	.00	.41	1.7	1.6	8.2	2.1	.89	.34	.00
8	.00	.00	.00	.00	.32	2.1	1.7	11	1.6	.89	.37	.00
9	.00	.00	.00	.00	.54	2.1	1.7	6.1	1.6	.79	.33	.00
10	.00	.00	.00	.00	.41	2.2	2.0	4.2	1.5	.74	.33	.00
11	.00	.00	.00	.00	.43	2.2	4.3	6.4	1.5	.70	.33	.00
12	.00	.00	.00	.00	.48	1.8	4.0	7.0	1.5	.66	.28	.00
13	.00	.00	.00	.00	.64	1.8	3.5	8.3	1.3	.61	.26	.00
14	.00	.00	.00	.00	1.1	2.4	4.2	9.3	1.3	.55	.20	.00
15	.00	.00	.00	.00	.99	2.1	5.3	8.9	1.3	.45	.20	.00
16	.00	.00	.00	.00	1.5	1.8	3.4	8.9	1.4	.44	.20	.00
17	.00	.00	.00	.00	1.9	1.7	2.4	9.3	1.4	.40	.20	.00
18	.00	.00	.00	.00	1.7	2.0	2.1	6.3	1.4	.38	.20	.00
19	.00	.00	.00	.00	2.0	1.5	1.4	7.9	1.5	.41	.20	.00
20	.00	.00	1.1	.00	2.4	1.6	1.2	14	1.6	.44	.20	.00
21	.00	.00	1.2	.00	3.4	1.7	1.5	11	1.6	.39	.17	.00
22	.00	.00	.00	.00	3.1	1.7	2.0	9.1	1.5	.38	.16	.00
23	.00	.00	.00	.00	2.5	1.7	2.3	7.2	1.8	.33	.16	.00
24	.00	.00	.00	.00	1.6	2.1	2.4	6.9	1.7	.32	.15	.00
25	.00	.00	.00	.00	1.9	2.2	2.8	8.9	1.4	.28	.13	.00
26	.00	.00	.00	.00	2.1	2.5	4.0	9.7	1.4	.28	.11	.00
27	.00	.00	.00	.00	2.1	2.7	4.4	6.1	1.5	.28	.10	.00
28	.00	.00	.00	.00	2.1	2.2	5.4	4.3	1.5	.25	.05	.00
29	.00	.00	.00	.00	---	2.1	5.3	3.6	1.4	.26	.00	.00
30	.00	.00	.00	.17	---	2.0	5.5	3.1	1.3	.28	.00	.00
31	.00	---	.00	.52	---	2.1	---	3.3	---	.28	.00	---
TOTAL	.00	.00	2.30	.69	36.14	61.6	85.9	245.3	51.0	18.15	6.43	.00
MEAN	.000	.000	.074	.022	1.29	1.99	2.86	7.91	1.70	.59	.21	.000
MAX	.00	.00	1.2	.52	3.4	2.7	5.5	14	3.6	1.3	.37	.00
MIN	.00	.00	.00	.00	.24	1.5	1.2	3.1	1.3	.25	.00	.00
AC-FT	.00	.00	4.6	1.4	72	122	170	487	101	36	13	.00
CAL YR 1981	TOTAL	59.09	MEAN	.16	MAX	1.8	MIN	.00	AC-FT	117		
WTR YR 1982	TOTAL	507.51	MEAN	1.39	MAX	14	MIN	.00	AC-FT	1010		

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 (21 km) east of Tuscarora, and 37 mi (60 km) north of Elko.

DRAINAGE AREA.--6.45 mi² (16.7 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,560 ft (1,999 m), 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 daily discharge 60 ft³/s (1.70 m³/s) about May 8, 1982, gage height 2.5 ft (0.762 m) on basis of slope conveyance determination of peak flow; minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 2, 3, 23 to Sept. 4, 11, 1981, Oct. 4, 5, 15-18, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 60 ft³/s (1.70 m³/s) about May 8, gage height 2.5 ft (0.762 m), on basis of slope conveyance determination of peak flow; minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 4, 5, 15-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.8	4.0	2.5	1.8	6.0	7.0	29	17	7.1	1.6	1.5
2	1.4	1.5	4.2	2.4	1.8	6.0	6.6	39	17	6.7	1.6	1.5
3	1.4	1.7	4.2	2.3	1.8	6.0	6.3	50	17	6.0	1.6	1.4
4	1.2	1.7	4.4	2.2	1.7	5.8	6.2	33	17	6.5	1.6	1.4
5	1.2	1.7	4.8	2.2	1.8	5.6	6.0	28	16	6.0	1.7	1.3
6	1.3	1.8	5.0	2.2	1.7	5.6	5.8	27	16	5.6	1.8	1.4
7	1.5	1.7	5.2	2.0	1.7	5.6	5.8	28	15	5.1	1.9	1.4
8	1.4	1.8	5.2	2.0	1.7	5.6	5.8	31	14	5.0	2.0	1.4
9	1.3	1.9	5.3	1.9	1.8	6.0	6.0	25	12	4.7	1.9	1.5
10	1.4	2.0	5.6	1.9	1.8	7.0	6.8	21	12	4.5	1.8	1.5
11	1.3	2.2	5.8	1.9	1.8	6.8	29	20	13	4.2	1.8	1.5
12	1.3	2.2	5.8	1.9	1.8	6.3	25	19	13	3.9	1.6	1.7
13	1.4	2.5	6.0	1.9	1.7	6.0	27	20	14	3.6	1.7	1.8
14	1.4	2.6	6.2	1.9	2.9	7.0	25	21	14	3.3	1.6	1.8
15	1.2	2.6	6.9	1.9	3.7	6.0	23	23	14	2.9	1.6	2.6
16	1.2	2.6	7.1	1.9	7.3	5.9	21	23	14	2.6	1.6	2.4
17	1.2	2.8	6.4	1.9	7.3	5.7	19	22	14	2.4	1.6	2.0
18	1.2	2.9	6.4	1.9	6.9	6.2	18	21	13	2.3	1.6	2.2
19	1.3	3.0	6.6	1.9	7.3	5.6	16	21	13	2.2	1.6	3.8
20	1.3	2.9	6.4	1.9	8.9	5.6	15	21	12	2.3	1.5	6.0
21	1.3	3.2	6.0	2.0	11	6.0	14	21	12	2.4	1.5	6.6
22	1.3	3.4	5.8	1.9	11	6.0	14	21	11	2.2	1.5	6.0
23	1.3	3.5	4.0	2.0	11	5.9	15	21	11	2.0	1.5	5.5
24	1.3	3.7	3.4	2.0	8.9	5.9	16	21	11	1.8	1.5	5.1
25	1.4	3.5	3.4	1.9	7.8	6.0	16	22	9.7	1.7	1.5	5.3
26	1.5	3.7	3.4	1.9	7.3	6.3	17	23	9.2	1.6	1.4	10
27	1.5	3.7	3.2	1.9	7.3	6.8	18	24	8.6	1.6	1.5	7.6
28	1.5	3.8	2.5	1.9	6.2	7.3	19	22	8.4	1.5	1.5	6.0
29	1.6	3.8	2.5	1.9	---	8.5	22	20	8.1	1.5	1.6	5.4
30	1.7	3.8	2.5	1.9	---	7.8	25	18	7.5	1.6	1.5	5.5
31	1.6	---	2.4	1.9	---	7.3	---	17	---	1.6	1.5	---
TOTAL	42.3	80.0	150.6	61.8	137.7	194.1	456.3	752	383.5	106.4	50.2	103.1
MEAN	1.36	2.67	4.86	1.99	4.92	6.26	15.2	24.3	12.8	3.43	1.62	3.44
MAX	1.7	3.8	7.1	2.5	11	8.5	29	50	17	7.1	2.0	10
MIN	1.2	1.5	2.4	1.9	1.7	5.6	5.8	17	7.5	1.5	1.4	1.3
AC-FT	84	159	299	123	273	385	905	1490	761	211	100	204
CAL YR 1981	TOTAL	1090.4	MEAN	2.99	MAX	8.8	MIN	1.2	AC-FT	2160		
WTR YR 1982	TOTAL	2518.0	MEAN	6.90	MAX	50	MIN	1.2	AC-FT	4990		

10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE, NEAR HALLECK, NV

LOCATION.--Lat 41°10'50", long 115°29'35", in SE¼ sec.13, T.38 N., R.57 E., Elko County, Hydrologic Unit 16040102, on right bank 500 ft (150 m) downstream from Devils Gate Canyon, 16 mi (26 km) north of Halleck, and 26 mi (42 km) upstream from mouth. Prior to Aug. 8, 1975, at site 500 ft (150 m) downstream.

DRAINAGE AREA.--830 mi² (2,150 km²), approximately.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to September 1982 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1913 (M), 1946.

GAGE.--Water-stage recorder. Datum of gage is 5,370 ft (1,636.8 m) National Geodetic Vertical Datum of 1929 (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.1 mi (0.2 km) upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower. Mar. 21, 1970, to Oct. 11, 1973, at site 250 ft (80 m) downstream at datum 2.00 ft (0.610 m) lower. Oct. 12, 1973, to Aug. 7, 1975, at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower.

REMARKS.--Records poor, no gage-height record Nov. 25 to Dec. 30 and July 4 to Aug. 17. Many diversions for irrigation of 16,600 acres (67.2 km²), above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--47 years, 74.8 ft³/s (2.118 m³/s), 54,190 acre-ft/yr (66.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (295 m³/s) Feb. 11, 1962, gage height, 16.12 ft (4.913 m), from high-water mark in well, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) July 26, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 170 ft³/s (4.81 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 20	unknown	unknown	unknown
May 29	0400	522 14.8	6.17 1.881
Apr. 12	1900	*1,460 41.3	9.00 2.743

Minimum daily, 7.1 ft³/s (0.20 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	10	16	94	54	290	293	546	322	174	26	18
2	7.4	10	17	88	50	461	283	551	294	169	23	15
3	7.4	10	18	80	48	501	245	573	273	165	20	13
4	7.8	10	19	76	46	332	265	581	261	160	18	12
5	7.8	11	20	74	45	240	248	562	249	145	16	14
6	8.2	11	21	72	44	197	217	530	252	135	15	14
7	8.6	11	22	68	44	181	193	494	281	125	15	16
8	8.6	11	23	67	44	190	164	463	261	110	15	18
9	8.6	11	25	66	44	224	155	488	226	100	15	20
10	8.6	10	26	65	44	282	164	481	201	90	15	18
11	9.8	11	27	63	44	300	340	466	209	85	15	18
12	11	11	28	62	45	385	1110	458	192	80	15	17
13	11	12	28	62	47	346	1180	387	201	78	15	19
14	11	13	29	63	54	342	1010	328	242	75	15	21
15	11	15	30	64	68	399	880	299	283	73	15	24
16	11	13	33	65	150	357	656	322	233	71	15	23
17	11	15	35	66	300	285	573	317	250	69	15	27
18	11	12	38	70	600	253	558	373	242	68	15	26
19	9.8	19	40	68	800	232	495	567	236	67	13	27
20	9.4	13	42	65	950	205	415	535	212	65	14	26
21	8.6	12	54	64	750	190	382	408	209	64	14	28
22	8.6	12	100	65	550	182	415	376	209	63	14	27
23	8.6	12	125	67	450	174	483	358	209	62	13	24
24	9.4	12	100	70	377	170	522	361	209	62	12	20
25	10	12	85	75	322	194	549	339	209	62	12	21
26	10	13	78	77	296	244	551	333	209	60	11	55
27	10	13	77	76	261	323	559	341	208	52	10	68
28	11	14	77	68	251	451	573	350	196	45	12	43
29	11	14	80	64	---	475	578	379	182	38	13	33
30	11	15	84	62	---	326	595	356	174	34	18	33
31	11	---	93	56	---	262	---	342	---	30	24	---
TOTAL	295.3	368	1490	2142	6778	8993	14651	13264	6934	2676	478	738
MEAN	9.53	12.3	48.1	69.1	242	290	488	428	231	86.3	15.4	24.6
MAX	11	19	125	94	950	501	1180	581	322	174	26	68
MIN	7.1	10	16	56	44	170	155	299	174	30	10	12
AC-FT	586	730	2960	4250	13440	17840	29060	26310	13750	5310	948	1460
CAL YR 1981 TOTAL	6143.3			16.8		125	3.2	AC-FT	12190			
WTR YR 1982 TOTAL	58807.3			161		1180	7.1	AC-FT	116600			

HUMBOLDT RIVER BASIN

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'00", long 115°38'00", in SE¼NE¼ sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi (2 km) southwest of Ryndon, 1.5 mi (2.4 km) upstream from Jackson Creek, 5 mi (8 km) downstream from North Fork, and 10 mi (16 km) northeast of Elko.

DRAINAGE AREA.--2,800 mi² (7,252 km²), approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft (1,567.379 m) National Geodetic Vertical Datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi (18 km) downstream at different datum.

REMARKS.--Records fair except those for winter months, which are poor. Diversions for irrigation of 95,800 acres (388 km²), above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--45 years (1896-1902, 1945-82), 239 ft³/s (6.768 m³/s), 173,200 acre-ft/yr (214 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,070 ft³/s (200 m³/s) Feb. 13, 1962, gage height, 12.3 ft (3.75 m); no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft³/s (55.8 m³/s) Apr. 13, gage height, 7.65 ft (2.332 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.0	7.2	85	62	538	659	1180	1210	872	153	15
2	1.8	6.8	11	75	62	598	726	1190	1170	832	129	15
3	1.8	9.1	11	65	62	728	727	1240	1120	776	116	13
4	1.8	7.6	12	63	62	719	704	1290	1040	733	104	11
5	1.8	8.1	11	63	62	581	705	1290	920	712	90	9.3
6	1.8	8.1	11	63	62	504	670	1260	879	712	80	8.4
7	2.4	7.6	11	63	62	464	626	1280	891	683	70	7.6
8	1.8	6.0	11	63	62	446	576	1290	883	600	59	6.6
9	1.8	4.6	11	63	62	445	537	1320	808	539	53	5.5
10	1.8	6.4	11	63	62	470	521	1310	745	508	47	4.7
11	1.8	6.8	11	63	62	536	554	1310	702	476	42	4.5
12	2.0	6.4	10	63	62	567	811	1290	658	438	36	4.7
13	1.8	6.0	10	62	63	616	1590	1230	674	409	33	4.8
14	1.7	5.6	10	62	68	608	1770	1150	803	376	30	4.6
15	1.5	5.2	11	62	76	696	1570	1060	954	343	27	6.2
16	1.7	5.6	11	62	157	748	1370	994	1070	318	25	7.8
17	1.7	4.6	11	62	376	719	1190	946	1060	299	22	10
18	1.7	4.3	11	61	673	683	1160	947	1020	271	20	12
19	2.0	4.3	11	61	1510	652	1170	1080	1020	249	19	14
20	2.4	4.3	15	61	1200	610	1110	1300	1010	230	18	20
21	2.4	4.3	28	61	900	562	1040	1210	990	207	17	20
22	2.6	4.3	35	61	750	538	987	1070	993	186	15	19
23	2.9	5.6	45	61	620	514	986	1040	1010	181	15	16
24	2.9	6.8	55	61	550	500	1010	1070	1030	165	14	15
25	3.1	7.6	62	61	600	500	1010	1050	1010	171	13	17
26	3.4	6.4	63	61	650	542	1010	1020	1040	180	12	51
27	4.0	7.2	60	61	581	598	1010	1020	1040	190	10	168
28	4.3	6.8	67	62	544	673	1040	1080	983	204	10	298
29	4.6	6.4	67	62	---	785	1090	1190	914	209	12	268
30	4.9	7.2	93	62	---	779	1160	1260	883	206	12	258
31	5.2	---	89	62	---	682	---	1250	---	182	14	---
TOTAL	77.2	186.0	882.2	1960	10062	18601	29089	36217	28530	12457	1317	1314.7
MEAN	2.49	6.20	28.5	63.2	359	600	970	1168	951	402	42.5	43.8
MAX	5.2	9.1	93	85	1510	785	1770	1320	1210	872	153	298
MIN	1.5	4.3	7.2	61	62	445	521	946	658	165	10	4.5
AC-FT	153	369	1750	3890	19960	36900	57700	71840	56590	24710	2610	2610

CAL YR 1981 TOTAL 18504.37 MEAN 50.7 MAX 214 MIN .83 AC-FT 36700
WTR YR 1982 TOTAL 140693.10 MEAN 385 MAX 1770 MIN 1.5 AC-FT 279100

HUMBOLDT RIVER BASIN

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10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV

LOCATION.--Lat 40°41'05", long 115°48'45", in NW¼SW¼ sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank 1.5 mi (2.4 km) upstream from Dixie Creek and 10.5 mi (16.9 km) south of Elko.

DRAINAGE AREA.--1,150 mi² (2,978 km²), approximately.

PERIOD OF RECORD.--October 1948 to September 1982 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1284: 1952 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft (1,567 m), from topographic map.

REMARKS.--Records good except those for winter months, and period of no gage height record Oct. 1 to Dec. 16, which are poor. Diversions for irrigation of 36,200 acres (147 km²), above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--34 years, 117 ft³/s (3.310 m³/s), 84,770 acre-ft/yr (104 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s (87.8 m³/s) Jan. 12, 1979, gage height, 6.80 ft (2.073 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 9, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage Height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage Height (ft) (m)
Feb. 16	0400	backwater from ice	*5.41 1.649	June 14	0100	693 19.6	4.14 1.262
May 28	1200	597 16.9	4.03 1.228	Sept. 26	2100	*806 22.8	4.31 1.314

Minimum daily, 4.0 ft³/s (0.11 m³/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	16	18	18	18	71	134	178	371	283	75	21
2	4.0	16	19	18	18	70	136	194	348	267	85	19
3	4.0	16	20	19	18	75	140	226	334	242	70	17
4	4.0	16	21	20	18	78	148	257	338	246	64	16
5	4.5	16	22	21	18	77	135	260	328	243	60	15
6	5.4	16	24	22	17	70	125	244	308	211	53	15
7	6.5	16	25	21	17	68	117	243	290	200	49	15
8	7.2	17	24	20	17	67	109	233	266	203	48	14
9	8.0	18	22	19	17	64	104	234	260	195	45	14
10	9.0	20	20	19	17	63	99	218	271	193	40	13
11	10	19	18	19	17	70	97	221	294	193	34	13
12	12	19	20	19	18	79	131	202	330	195	28	14
13	13	18	22	20	18	77	152	176	393	199	27	18
14	15	16	24	21	22	81	168	153	561	196	26	20
15	18	16	22	22	34	117	172	156	521	194	18	28
16	18	16	21	23	60	128	166	158	479	184	17	35
17	18	17	20	22	82	130	160	168	492	171	16	29
18	18	19	20	21	110	129	150	235	524	162	20	26
19	18	20	25	20	156	126	138	261	557	157	20	34
20	17	22	29	20	133	120	133	254	519	148	27	36
21	17	24	28	20	144	111	125	247	514	141	30	32
22	17	23	23	20	134	105	117	262	509	132	28	28
23	17	21	21	21	112	100	113	305	504	127	25	26
24	17	19	18	22	93	99	117	372	474	128	24	25
25	17	16	19	21	84	99	127	423	457	138	24	63
26	17	15	18	20	79	103	133	459	431	126	24	516
27	17	15	19	19	76	102	134	539	412	133	22	347
28	17	15	19	19	73	101	144	569	414	146	23	203
29	17	15	20	18	---	107	164	502	379	123	30	171
30	17	16	20	18	---	112	169	443	321	104	29	176
31	17	---	19	18	---	118	---	392	---	87	25	---
TOTAL	400.6	528	660	620	1620	2917	4057	8784	12199	5467	1106	1999
MEAN	12.9	17.6	21.3	20.0	57.9	94.1	135	283	407	176	35.7	66.6
MAX	18	24	29	23	156	130	172	569	561	283	85	516
MIN	4.0	15	18	18	17	63	97	153	260	87	16	13
AC-FT	795	1050	1310	1230	3210	5790	8050	17420	24200	10840	2190	3970
CAL YR 1981	TOTAL	16471.1	MEAN	45.1	MAX	357	MIN	1.8	AC-FT	32670		
WTR YR 1982	TOTAL	40357.6	MEAN	111	MAX	569	MIN	4.0	AC-FT	80050		

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 (1.6 km) downstream from Tonka Creek, 4.5 mi (7.2 km) southwest of Moleen, 5 mi (8 km) upstream from Susie Creek, 5.5 mi (8.8 km) east of Carlin, and 15 mi (24 km) southwest of Elko.

DRAINAGE AREA.--4,310 mi² (11,160 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft (1,503.246 m), Nevada State Highway Department Datum.

REMARKS.--Records good except those for winter months, which are poor. Many diversions for irrigation of 143,000 acres (579 km²) above station.

AVERAGE DISCHARGE.--39 years, 347 ft³/s (9.827 m³/s), 251,400 acre-ft/yr (310 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft³/s (174 m³/s) Feb. 14, 1962, gage height, 10.21 ft (3.112 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft³/s (425 m³/s), based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,940 ft³/s (54.9 m³/s) Feb. 16, gage height, 5.37 ft (1.637 m); minimum, 11 ft³/s (0.31 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	24	106	70	702	1000	1290	1650	1270	271	53
2	12	21	20	69	70	681	968	1340	1640	1230	248	51
3	12	20	20	70	70	694	950	1390	1620	1180	234	50
4	13	19	21	70	70	784	968	1420	1590	1120	210	48
5	12	20	21	70	70	873	965	1470	1560	1090	195	47
6	12	21	23	70	70	832	948	1490	1520	1020	181	46
7	13	21	24	70	70	712	927	1500	1470	975	166	44
8	15	32	24	70	70	633	883	1500	1400	955	156	43
9	14	26	24	70	70	582	831	1500	1340	902	144	40
10	15	22	25	70	70	563	774	1510	1290	815	135	39
11	15	22	25	70	70	572	736	1520	1250	765	120	37
12	16	22	24	70	70	638	797	1530	1210	730	111	36
13	17	24	26	70	85	680	905	1530	1180	682	106	36
14	20	23	29	70	135	736	1110	1520	1260	657	99	35
15	20	22	31	70	495	821	1660	1490	1340	614	94	36
16	19	23	30	70	1790	908	1780	1460	1370	578	88	38
17	19	23	29	70	1220	983	1770	1410	1430	534	82	37
18	19	28	35	70	988	1020	1700	1370	1520	501	79	35
19	19	25	33	70	1500	1020	1620	1390	1560	469	75	47
20	18	24	44	70	1710	965	1530	1380	1580	433	71	56
21	18	24	41	70	1510	902	1480	1380	1560	402	69	56
22	18	25	37	70	1320	834	1420	1520	1560	374	68	55
23	20	26	40	70	1250	769	1360	1550	1550	339	67	55
24	20	26	43	70	1200	724	1310	1530	1540	322	63	55
25	20	26	46	70	1090	701	1260	1520	1520	317	60	58
26	20	26	50	70	926	708	1250	1540	1510	310	59	300
27	20	22	54	70	813	723	1240	1560	1470	300	57	685
28	20	22	58	70	759	761	1230	1600	1460	328	57	378
29	20	22	79	70	---	822	1230	1620	1440	323	63	426
30	21	21	95	70	---	901	1240	1620	1350	306	66	435
31	22	---	111	70	---	981	---	1620	---	291	57	---
TOTAL	530	699	1186	2205	17631	24225	35842	46070	43740	20132	3531	3357
MEAN	17.1	23.3	38.3	71.1	630	781	1195	1486	1438	649	115	112
MAX	22	32	111	106	1790	1020	1780	1620	1650	1270	271	685
MIN	11	19	20	69	70	563	736	1290	1130	291	57	35
AC-FT	1050	1390	2350	4370	34970	48050	71090	91380	86760	39930	7040	6660
CAL YR 1981	TOTAL	33063.50	MEAN	90.6	MAX	452	MIN	.73	AC-FT	65580		
WTR YR 1982	TOTAL	199168.00	MEAN	546	MAX	1790	MIN	11	AC-FT	395000		

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.

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, 830 colonies/100 mL (non-ideal colony count) May 29, 1979; 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.

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

SPECIFIC CONDUCTANCES: Maximum, 674 micromhos Oct. 7; minimum, 193 micromhos Feb. 16.
 WATER TEMPERATURES: Maximum, 26.5°C Aug. 23; minimum, 0.5°C Jan. 5-Feb. 1, Feb. 14-18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	(PER- CENT UM-MF (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 KF AGAR (COLS. PER 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO ₃)
DEC 04...	1320	23	630	8.8	3.0	3.5	13.0	114	K1	260	210	
JAN 27...	1250	61	540	8.2	1.0	8.0	12.5	105	K9	98	180	
MAR 12...	1330	649	424	8.4	7.0	96	10.7	105	K35	440	130	
MAY 26...	1420	1530	360	8.2	19.0	56	7.0	92	200	420	130	
JUL 20...	1315	349	396	8.0	25.0	26	7.5	109	K28	400	150	
SEP 21...	1440	56	515	8.6	20.5	6.3	--	--	K54	K83	160	

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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- 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)
DEC 04...	62	13	58	1.8	9.5	240	56	33	.6	30
JAN 27...	52	11	43	1.5	7.7	210	42	23	.5	32
MAR 12...	37	9.3	33	1.3	7.4	160	22	15	.4	28
MAY 26...	37	8.5	26	1.1	5.4	158	22	9.6	.4	31
JUL 20...	45	9.3	25	.9	6.0	190	17	9.0	.4	27
SEP 21...	49	10	46	1.7	8.5	208	32	20	.5	27

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)	ARSENIC TOTAL (UG/L AS AS)
DEC 04...	390	406	24.3	<.10	.090	.47	.230	.180	--	10
JAN 27...	330	342	54.6	.13	--	.75	.190	.160	.180	--
MAR 12...	263	248	461	<.09	.130	.61	.160	.100	.100	10
MAY 26...	246	235	1020	<.10	.120	1.20	.260	.140	.100	9
JUL 20...	255	253	240	.10	.140	1.60	.160	--	.100	--
SEP 21...	314	318	47.6	<.10	.060	.90	.220	.150	.120	9

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
DEC 04...	9	100	100	<1	<1	<10	<10	5	<3	6
JAN 27...	--	--	--	--	--	--	--	--	--	--
MAR 12...	9	200	82	<1	<1	<10	<10	4	2	21
MAY 26...	7	200	84	1	<1	<10	<10	3	<1	100
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 21...	9	100	100	<1	<1	<10	<10	3	<1	2

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
DEC 04...	<1	200	30	<1	<1	50	21	.1	<.1	3
JAN 27...	--	--	--	--	--	--	--	--	--	--
MAR 12...	6	8400	6	9	1	270	7	.2	<.1	4
MAY 26...	7	6200	75	10	<1	280	9	.1	<.1	5
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 21...	1	620	4	5	<1	90	7	.2	<.1	10

HUMBOLDT RIVER BASIN

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10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, DIS- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- MENT, CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 04...	1	<1	<1	<1	<1	50	<3	36	2.2	--
JAN 27...	--	--	--	--	--	--	--	21	3.5	--
MAR 12...	2	<1	<1	<1	<1	80	<4	366	641	87
MAY 26...	<1	<1	<1	1	1	50	19	412	1700	70
JUL 20...	--	--	--	--	--	--	--	92	87	--
SEP 21...	2	<1	<1	<1	<1	40	12	22	3.3	--

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

[illegible]

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	492	457	545	540	594	590	555	550	538	536	394	385
2	494	488	548	540	594	587	550	546	539	538	398	395
3	496	492	549	543	611	592	547	545	541	539	400	398
4	499	493	551	545	---	---	543	540	543	541	400	392
5	499	493	553	547	---	---	538	530	546	543	393	388
6	503	495	554	549	---	---	528	521	548	546	392	388
7	674	500	556	551	---	---	523	519	552	548	402	393
8	589	514	558	554	---	---	524	519	555	552	417	404
9	516	504	562	555	---	---	525	522	561	557	430	417
10	507	503	568	561	---	---	528	523	570	562	438	430
11	511	507	570	563	624	616	532	528	577	570	439	434
12	516	511	577	569	624	617	535	530	586	577	434	425
13	517	510	570	566	617	607	537	532	596	588	453	446
14	517	511	570	566	607	592	539	535	603	598	445	428
15	518	513	575	570	596	578	540	536	601	551	426	407
16	519	513	580	574	602	592	542	538	225	193	426	407
17	521	514	578	577	603	596	543	540	231	210	424	417
18	522	516	584	578	603	596	546	542	243	233	442	422
19	524	519	611	584	595	586	548	544	259	243	455	437
20	528	522	627	600	585	578	549	546	284	260	469	452
21	528	523	603	587	585	578	552	548	304	286	484	465
22	530	524	588	582	583	577	557	551	316	306	500	480
23	530	526	586	581	583	578	557	554	327	318	514	496
24	533	528	586	583	585	581	555	553	335	329	525	509
25	535	529	592	587	584	580	551	548	344	336	523	514
26	535	531	596	589	581	579	547	544	358	344	526	517
27	538	532	593	586	579	578	542	538	372	359	526	519
28	540	536	593	587	577	571	540	538	383	374	520	511
29	541	537	596	589	568	563	540	537	---	---	506	501
30	542	537	595	589	561	554	540	535	---	---	498	493
31	543	537	---	---	557	555	538	535	---	---	489	473
MONTH	674	457	627	540	624	554	557	519	603	193	526	385

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	472	468	409	399	480	450	359	353	623	613	519	510
2	469	461	416	405	481	455	363	356	625	618	519	512
3	458	454	421	411	492	466	370	363	622	603	517	511
4	451	447	424	416	489	481	373	369	599	586	513	508
5	447	442	424	418	479	463	375	368	584	538	511	505
6	445	441	425	418	---	---	371	352	533	505	510	504
7	439	436	426	420	---	---	375	364	504	490	509	502
8	439	431	424	419	---	---	364	361	489	481	507	499
9	436	430	423	419	---	---	367	358	483	478	505	497
10	430	426	421	418	---	---	375	365	479	473	502	496
11	426	410	419	416	---	---	365	356	472	466	503	494
12	413	405	417	414	---	---	369	359	465	459	499	495
13	409	400	414	411	---	---	370	355	458	452	502	495
14	397	394	409	406	---	---	381	366	455	448	502	495
15	394	389	402	400	---	---	388	377	458	447	501	496
16	393	388	401	396	---	---	392	377	460	449	502	497
17	398	390	397	394	---	---	385	368	464	452	507	501
18	397	393	393	391	---	---	397	379	466	457	510	503
19	398	393	391	387	---	---	407	393	472	463	509	505
20	398	394	388	385	---	---	408	392	480	469	515	509
21	397	394	385	382	---	---	418	400	483	476	516	512
22	393	380	381	378	---	---	427	409	490	480	528	513
23	375	362	375	372	---	---	446	422	498	486	525	500
24	367	359	375	366	352	342	475	445	500	489	537	524
25	371	362	371	366	357	352	490	476	493	485	537	513
26	376	367	365	356	359	354	498	487	497	490	517	389
27	384	373	369	361	358	352	523	499	504	494	453	406
28	390	379	414	367	358	350	528	477	510	501	487	455
29	397	386	449	416	358	350	574	528	516	510	508	486
30	403	392	485	443	355	351	601	573	519	511	527	510
31	---	---	492	477	---	---	618	600	521	511	---	---
MONTH	472	359	492	356	492	342	618	352	625	447	537	389
YEAR	674	193										

HUMBOLDT RIVER BASIN

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE¼SE¼ sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank 0.2 mi (0.3 km) downstream from Southern Pacific Railroad bridge, 0.5 mi (0.8 km) downstream from Palisade, and 0.8 mi (1.3 km) upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi² (12,980 km²), approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft (1,470.828 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

REMARKS.--Records good except for winter months, which are poor. Diversions for irrigation of 148,000 acres (599 km²), 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.--75 years (1902-6, 1911-82) 373 ft³/s (10.56 m³/s), 270,200 acre-ft/yr (333 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,610 ft³/s (187 m³/s) Feb. 12, 1962, gage height, 10.0 ft (3.05 m); minimum, 2 ft³/s (0.06 m³/s) Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft (5.3 m), present datum, about Feb. 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft³/s (481 m³/s), from rating curve extended above 7,000 ft³/s (198 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,520 ft³/s (99.7 m³/s) Feb. 16, gage height, 7.06 ft (2.152 m); minimum daily, 20 ft³/s (0.57 m³/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	32	40	155	80	808	1110	1680	1710	1340	274	55
2	20	33	43	107	80	856	1030	1750	1660	1280	241	50
3	20	33	43	83	80	880	1030	1790	1600	1210	227	48
4	22	31	43	80	80	928	1080	1840	1560	1150	221	45
5	22	30	44	80	80	952	1020	1880	1510	1120	207	47
6	23	30	45	80	80	850	1010	1850	1420	1040	197	44
7	23	33	48	80	80	730	970	1810	1290	994	186	43
8	26	34	48	80	80	675	904	1750	1210	976	179	41
9	27	43	47	80	80	640	850	1750	1190	922	162	40
10	26	38	48	80	80	645	808	1750	1160	832	131	38
11	29	34	50	80	80	690	1010	1750	1130	778	113	37
12	31	38	48	80	80	808	1390	1750	1110	745	94	37
13	34	44	50	80	85	784	1530	1670	1070	705	76	39
14	33	39	53	80	250	874	1780	1560	1270	675	68	39
15	35	39	55	80	1200	1010	2450	1500	1380	630	66	43
16	34	39	53	80	2540	1060	2380	1440	1410	596	64	47
17	33	41	48	80	2030	1100	2210	1330	1470	552	82	47
18	33	41	50	80	1280	1120	1970	1400	1580	511	80	47
19	33	44	50	80	1770	1080	1790	1550	1630	484	80	58
20	33	43	50	80	2070	1010	1720	1450	1620	451	78	73
21	32	41	51	80	1890	946	1670	1460	1590	419	80	76
22	31	45	52	80	1680	892	1580	1630	1580	384	80	71
23	32	45	54	80	1590	826	1490	1590	1560	342	80	73
24	33	47	56	80	1400	796	1470	1530	1570	322	78	73
25	32	45	60	80	1270	802	1510	1550	1550	328	78	82
26	32	41	66	80	1050	832	1580	1600	1550	319	76	147
27	32	43	74	80	922	868	1590	1630	1490	310	76	734
28	31	44	90	80	832	970	1580	1700	1490	336	75	431
29	32	38	111	80	---	1030	1600	1710	1480	336	76	471
30	30	41	139	80	---	1060	1630	1670	1430	316	73	484
31	31	---	159	80	---	1120	---	1680	---	298	59	---
TOTAL	905	1169	1868	2585	22819	27642	43742	51000	43270	20701	3657	3560
MEAN	29.2	39.0	60.3	83.4	815	892	1458	1645	1442	668	118	119
MAX	35	47	159	155	2540	1120	2450	1880	1710	1340	274	734
MIN	20	30	40	80	80	640	808	1330	1070	298	59	37
AC-FT	1800	2320	3710	5130	45260	54830	86760	101200	85830	41060	7250	7060

CAL YR 1981 TOTAL 38980 MEAN 107 MAX 439 MIN 10 AC-FT 77320
WTR YR 1982 TOTAL 222918 MEAN 611 MAX 2540 MIN 20 AC-FT 442200

HUMBOLDT RIVER BASIN

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10323400 HUMBOLDT RIVER NEAR DUNPHY, NV

LOCATION.--Lat 40°41'53", long 116°30'25", in SE¼SW¼ sec.25, T.32 N., R.48 E., Eureka County, Hydrologic Unit 16040101, on right bank 24.5 mi (39.4 km) east of Battle Mountain on Interstate Highway 80.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

REMARKS.--Records poor. 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, 2,350 ft³/s (66.6 m³/s) Feb. 17, 1982, gage height 8.64 ft (2.633 m); minimum daily 2.0 ft³/s (0.057 m³/s) Sept. 26 to Oct. 1, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,350 ft³/s (66.6 m³/s) Feb. 17, gage height 8.64 ft (2.663 m); minimum daily 2.0 ft³/s (0.057 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	19	25	47	74	1010	1450	1650	1510	1270	261	11
2	2.4	19	26	49	76	1030	1410	1690	1490	1250	238	11
3	3.0	19	27	50	76	1070	1330	1770	1450	1160	209	10
4	3.5	20	27	51	70	1090	1330	1780	1380	1070	191	9.9
5	4.0	20	27	52	60	1140	1330	1850	1330	1020	172	9.4
6	5.0	20	27	54	46	1130	1280	1890	1290	978	154	8.7
7	7.0	20	27	54	44	1010	1240	1850	1190	907	133	8.4
8	9.0	20	27	55	44	921	1200	1720	1110	868	115	8.3
9	11	20	27	56	48	901	1100	1780	1050	867	98	8.2
10	13	20	27	57	51	889	1050	1650	1020	810	93	8.1
11	15	19	27	58	54	905	1040	1570	973	759	85	8.0
12	17	19	27	59	56	997	1040	1600	950	726	72	8.0
13	19	18	29	60	59	1040	1150	1560	939	684	52	8.0
14	20	18	29	61	61	1070	1400	1480	919	643	39	7.9
15	21	18	30	62	136	1220	1900	1380	1150	602	35	7.8
16	22	18	30	62	939	1340	2200	1340	1190	573	32	8.0
17	22	18	28	63	2110	1380	2150	1270	1220	566	27	8.2
18	21	18	32	64	1470	1420	2100	1230	1310	500	23	8.5
19	21	19	31	65	1570	1410	1900	1390	1390	474	21	8.8
20	21	19	31	66	2050	1340	1750	1370	1400	444	18	9.0
21	21	20	32	67	2140	1260	1600	1300	1380	422	17	9.2
22	21	20	33	68	1910	1190	1500	1370	1390	402	15	10
23	21	20	35	68	1750	1130	1450	1470	1400	373	14	11
24	21	21	36	69	1610	1130	1450	1380	1390	338	13	12
25	21	21	37	70	1490	1250	1450	1350	1400	330	13	14
26	21	22	38	70	1320	1240	1450	1400	1380	322	12	16
27	21	23	40	70	1160	1220	1400	1430	1370	309	12	21
28	21	23	41	70	1060	1250	1500	1480	1330	312	11	360
29	21	24	43	70	---	1340	1560	1530	1340	308	11	330
30	21	24	44	70	---	1380	1550	1490	1310	289	11	315
31	20	---	46	70	---	1420	---	1480	---	272	11	---
TOTAL	488.9	599	986	1907	21534	36123	44260	47500	37951	19848	2208	1273.4
MEAN	15.8	20.0	31.8	61.5	769	1165	1475	1532	1265	640	71.2	42.4
MAX	22	24	46	70	2140	1420	2200	1890	1510	1270	261	360
MIN	2.0	18	25	47	44	889	1040	1230	919	272	11	7.8
AC-FT	970	1190	1960	3780	42710	71650	87790	94220	75280	39370	4380	2530

CAL YR 1981 TOTAL 32287.7 MEAN 88.5 MAX 332 MIN 2.0 AC-FT 64040
WTR YR 1982 TOTAL 214678.3 MEAN 588 MAX 2200 MIN 2.0 AC-FT 425800

HUMBOLDT RIVER BASIN

10323500 HUMBOLDT RIVER NEAR ARGENTA, NV

LOCATION.--Lat 40°40'45", long 116°38'45", in SE¼NW¼ sec.2, T.32 N., R.47 E., Lander County, Hydrologic Unit 16040105, on left bank 3 mi (5 km) east of Argenta, and 15.5 mi (24.9 km) east of Battle Mountain.

DRAINAGE AREA.--7,490 mi² (19,400 km²), approximately.

PERIOD OF RECORD.--February 1946 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (1,396 m), from topographic map.

REMARKS.--Records good except those for winter months which are poor. Many diversions above station for irrigation. Records do not include flow in secondary channels or ditches, much of which is used for irrigation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--36 years, 336 ft³/s (9.516 m³/s), 243,400 acre-ft/yr (300 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s (170 m³/s) Feb. 15, 1962, gage height, 10.78 ft (3.286 m), on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft (3.377 m) May 2, 1952; minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Sept. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft³/s (66.0 m³/s) gage height, 8.79 ft (2.679 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.33	.59	36	58	751	1010	1430	1410	1270	215	6.8
2	.20	.33	.59	38	59	728	1010	1460	1430	1200	186	6.0
3	.28	.33	.58	39	60	752	971	1480	1400	1150	167	5.3
4	.28	.33	.62	40	61	755	977	1510	1350	1100	150	4.9
5	.28	.33	.62	41	62	783	1010	1540	1290	1080	122	4.7
6	.33	.33	.64	42	63	784	975	1540	1260	1040	103	4.7
7	.33	.33	.59	43	63	695	961	1530	1190	959	87	4.6
8	.33	.33	.85	44	64	622	906	1510	1110	912	68	4.5
9	.33	.33	3.5	44	65	576	848	1490	1040	873	59	4.3
10	.39	.33	4.8	45	66	555	797	1490	993	827	48	3.9
11	.45	.33	5.5	46	66	560	774	1500	948	748	42	3.8
12	.50	.33	6.7	46	66	603	960	1510	909	699	37	4.0
13	.52	.49	8.4	46	68	654	1220	1500	887	661	33	4.8
14	.53	.39	9.0	47	78	653	1360	1450	855	617	26	4.4
15	.57	.39	9.1	47	138	759	1560	1370	967	581	19	5.2
16	.58	.39	12	48	671	891	1980	1310	1050	544	16	5.1
17	.60	.39	15	48	1980	937	2100	1250	1090	508	12	4.6
18	.65	.39	16	49	1540	976	2010	1200	1140	475	11	4.8
19	.61	.45	15	50	1290	989	1820	1260	1210	443	10	5.3
20	.67	.45	16	50	1610	944	1660	1320	1260	415	9.3	6.6
21	.69	.47	19	50	1730	889	1580	1260	1280	384	8.8	7.7
22	.65	.53	27	51	1600	840	1510	1270	1330	354	8.4	7.7
23	.64	.58	29	52	1450	783	1410	1350	1350	330	7.9	7.9
24	.61	.63	27	52	1310	735	1330	1310	1360	300	7.6	8.7
25	.58	.56	25	53	1210	712	1300	1260	1370	276	7.3	11
26	.52	.52	24	53	1070	713	1340	1280	1360	262	7.0	13
27	.48	.65	27	54	924	731	1360	1300	1340	245	6.7	21
28	.49	.59	29	55	827	769	1360	1340	1300	238	6.6	368
29	.45	.56	31	56	---	849	1360	1410	1300	236	6.6	278
30	.59	.53	33	56	---	900	1400	1410	1300	238	6.6	289
31	.39	---	34	57	---	934	---	1400	---	227	6.6	---
TOTAL	14.72	12.92	431.08	1478	18249	23822	38859	43240	36079	19192	1500.4	1110.3
MEAN	.47	.43	13.9	47.7	652	768	1295	1395	1203	619	48.4	37.0
MAX	.69	.65	34	57	1980	989	2100	1540	1430	1270	215	368
MIN	.20	.33	.58	36	58	555	774	1200	855	227	6.6	3.8
AC-FT	29	26	855	2930	36200	47250	77080	85770	71560	38070	2980	2200
CAL YR 1981	TOTAL	28025.46	MEAN	76.8	MAX	300	MIN	.17	AC-FT	55590		
WTR YR 1982	TOTAL	183988.42	MEAN	504	MAX	2100	MIN	.20	AC-FT	364900		

HUMBOLDT RIVER BASIN

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10323600 HUMBOLDT RIVER BELOW SLAVEN DITCH NEAR ARGENTA, NV

LOCATION.--Lat 40°39'19", long 116°45'17", in NW1/4 sec.11, T.32 N., R.46 E., Lander County, Hydrologic Unit 16040105, on left bank, at Argenta Ranch, 2.3 mi (3.7 km) west of Argenta.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,540 ft (1,384 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. 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, 2,210 ft³/s (62.6 m³/s) Feb. 17, 1982, gage height, 9.02 ft (2.749 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 29 to Oct. 16, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,210 ft³/s (62.6 m³/s) Feb. 17, gage height 9.02 ft (2.749 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Oct. 1-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.6	3.0	34	57	820	1180	1590	1490	1350	245	9.7
2	2.1	2.6	3.0	36	58	802	1180	1640	1510	1290	228	9.4
3	2.1	2.6	3.0	38	59	856	1120	1660	1460	1240	208	8.4
4	2.1	2.6	3.0	40	60	873	1120	1690	1410	1160	189	8.1
5	2.1	2.6	3.0	41	61	915	1170	1730	1330	1120	164	7.6
6	2.1	2.6	3.0	41	63	931	1120	1740	1250	1090	141	7.3
7	2.1	2.6	3.1	42	65	837	1100	1750	1160	1010	121	7.6
8	2.1	2.6	4.2	42	65	745	1040	1710	1100	955	91	7.3
9	2.1	2.6	4.3	43	65	672	987	1650	960	926	79	7.2
10	2.1	2.6	4.2	44	66	645	923	1640	1030	875	64	7.0
11	2.1	2.6	3.9	45	69	650	879	1630	995	818	56	6.8
12	2.1	2.6	3.9	45	70	700	1100	1650	951	761	49	6.9
13	2.1	2.6	6.2	46	70	800	1430	1640	940	699	42	8.2
14	2.1	2.6	7.3	47	75	802	1580	1580	902	655	34	7.9
15	2.1	2.6	7.3	47	85	914	1790	1540	1080	621	27	8.0
16	2.1	2.6	7.1	47	585	1070	2140	1480	1160	576	23	8.4
17	2.2	2.6	6.8	48	2040	1140	2160	1380	1200	545	20	8.0
18	2.2	2.6	9.2	48	1830	1170	2120	1270	1260	507	17	7.8
19	2.3	2.7	13	49	1440	1180	1990	1360	1340	474	16	8.7
20	2.4	2.8	13	49	1860	1130	1850	1480	1380	447	15	9.3
21	2.5	2.8	14	49	2000	1100	1760	1360	1390	415	13	9.5
22	2.5	2.8	18	50	1960	998	1710	1360	1450	386	13	11
23	2.6	2.8	28	50	1690	932	1580	1470	1450	355	12	10
24	2.6	2.8	21	51	1550	875	1550	1460	1440	325	12	12
25	2.6	2.8	22	51	1410	836	1480	1360	1470	304	11	14
26	2.6	2.8	23	52	1230	832	1510	1360	1460	295	11	17
27	2.6	2.8	25	53	1050	858	1560	1400	1450	272	10	17
28	2.6	2.9	27	54	913	900	1550	1440	1420	270	10	325
29	2.6	3.0	28	55	---	993	1530	1500	1410	276	10	287
30	2.6	3.0	29	56	---	1050	1560	1490	1380	279	9.8	284
31	2.6	---	32	57	---	1100	---	1470	---	262	10	---
TOTAL	71.1	80.8	378.5	1450	20546	28126	43769	47480	38228	20558	1950.8	1146.1
MEAN	2.29	2.69	12.2	46.8	734	907	1459	1532	1274	663	62.9	38.2
MAX	2.6	3.0	32	57	2040	1180	2160	1750	1510	1350	245	325
MIN	2.1	2.6	3.0	34	57	645	879	1270	902	262	9.8	6.8
AC-FT	141	160	751	2880	40750	55790	86820	94180	75830	40780	3870	2270
CAL YR 1981	TOTAL	28433.8	MEAN	77.9	MAX	290	MIN	2.1	AC-FT	56400		
WTR YR 1982	TOTAL	203784.3	MEAN	558	MAX	2160	MIN	2.1	AC-FT	404200		

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW¼ sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, on left bank at mouth of canyon, 22 mi (35 km) northeast of Battle Mountain.

DRAINAGE AREA.--875 mi² (2,266 km²), approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published 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 (1,402 m), estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi (17.7 km) upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi (0.6 km) upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946; at datum 9.45 ft (2.880 m) higher Jan. 4, 1946; to July 23, 1964; at datum 7.35 ft (2.240 m) higher July 23, 1964, to Oct. 31, 1968; and at datum 6.34 ft (1.932 m) higher Nov. 1, 1968, to Oct. 28, 1970.

REMARKS.--Records good except those for winter months, which are poor. Seven diversions for irrigation of 4,380 acres (17.7 km²), 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 (48 km) upstream, all and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--42 years (1918-23, 1945-82), 35.0 ft³/s (0.991 m³/s), 25,360 acre-ft/yr (31.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s (136 m³/s) Feb. 11, 1962, gage height, 6.89 ft (2.100 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft³/s (2.12 m³/s) and maximum (*):

Date	Time	Discharge (ft ³)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 30	1700	122	3.46	3.38	1.030
Feb. 16	2200	*2,230	63.2	6.99	2.131

Minimum daily discharge, 0.01 ft³/s (0.0003 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	2.0	4.8	34	19	221	177	277	80	8.4	.85	2.1
2	.16	2.0	5.5	24	22	268	182	275	74	7.8	.78	1.9
3	.42	2.2	5.1	17	19	298	176	275	68	7.2	.65	1.8
4	.81	2.2	4.4	16	13	229	190	274	57	6.4	.66	1.6
5	1.0	2.3	4.8	15	10	179	210	251	49	6.1	.72	1.6
6	1.2	2.3	4.8	14	10	142	176	243	43	5.8	.81	1.5
7	1.3	2.3	4.4	14	10	121	159	225	57	5.7	.97	1.6
8	1.3	2.3	3.9	14	10	116	144	194	57	5.6	1.1	1.4
9	1.3	2.6	4.1	15	10	117	133	180	50	5.3	1.3	1.4
10	1.4	2.6	3.7	16	10	130	130	168	43	5.3	1.6	1.4
11	1.4	2.6	3.3	15	11	144	134	182	38	5.2	1.7	1.6
12	1.4	2.6	3.7	15	15	171	225	186	35	5.0	1.9	1.5
13	1.4	3.7	3.9	15	19	174	329	178	31	4.8	2.0	1.4
14	1.4	4.0	5.1	15	175	153	349	169	29	4.5	2.1	1.6
15	1.4	4.5	5.1	16	729	187	371	161	27	4.0	2.6	1.7
16	1.5	3.7	4.6	17	1740	219	396	155	26	3.6	2.8	1.8
17	1.5	3.3	4.4	18	1330	212	408	152	25	3.2	3.3	1.9
18	1.5	2.8	4.6	18	726	213	403	150	25	2.9	3.4	2.0
19	1.5	2.7	6.1	17	547	215	371	120	24	2.6	3.5	2.2
20	1.5	3.0	56	18	527	208	338	96	23	2.2	3.1	2.3
21	1.5	3.3	314	21	667	214	303	90	22	2.0	3.1	2.4
22	1.6	4.3	126	22	847	193	282	85	22	2.0	3.0	2.7
23	1.6	5.8	56	23	799	170	280	81	21	1.8	3.0	2.6
24	1.6	7.8	27	24	491	159	280	74	21	1.7	2.8	2.6
25	1.6	11	26	25	322	161	298	76	18	1.6	2.4	2.9
26	1.8	8.2	25	26	241	170	291	75	16	1.5	2.2	3.1
27	1.8	5.2	24	25	211	181	283	79	15	1.4	2.2	3.5
28	1.9	5.2	23	22	205	187	281	80	13	1.2	2.1	3.6
29	1.9	4.5	28	20	---	200	286	80	11	1.1	2.0	4.2
30	2.0	3.9	66	17	---	193	283	86	10	.98	2.0	4.4
31	2.0	---	78	18	---	180	---	86	---	.92	2.2	---
TOTAL	42.70	114.9	935.3	586	9735	5725	7868	4803	1030	117.80	62.84	66.3
MEAN	1.38	3.83	30.2	18.9	348	185	262	155	34.3	3.80	2.03	2.21
MAX	2.0	11	314	34	1740	298	408	277	80	8.4	3.5	4.4
MIN	.01	2.0	3.3	14	10	116	130	74	10	.92	.65	1.4
AC-FT	85	228	1860	1160	19310	11360	15610	9530	2040	234	125	132
CAL YR 1981	TOTAL	2657.02	MEAN	7.28	MAX	314	MIN	.00	AC-FT	5270		
WTR YR 1982	TOTAL	31086.84	MEAN	85.2	MAX	1740	MIN	.01	AC-FT	61660		

HUMBOLDT RIVER BASIN

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10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°10'16", long 117°12'23", in NW¼, sec. 36, T.27 N., R.42 E., Lander County, Hydrologic Unit 16040107 on left bank, about 4 mi (6.4 km) upstream from the confluence with Reese River, and 36 mi (58 km) southwest of Battle Mountain.

DRAINAGE AREA.--64.7 mi² (167.6 km²).

PERIOD OF RECORD.--October 1977 to September 1979, October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (1,520 m), from topographic map.

REMARKS.--Records poor, no gage-height record, Dec. 17 to Feb. 24, and April 22 to May 27. No diversion above station. 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, 650 ft³/s (18.4 m³/s) July 21, 1979, gage height, 6.65 ft (2.027 m), from floodmarks, from rating curve extended above 32 ft³/s (0.91 m³/s), on the basis of area-velocity computation to determine peak flow; minimum daily, 0.15 ft³/s (0.004 m³/s) Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, gage height unknown; minimum daily, 0.31 ft³/s (0.009 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.57	.66	.62	.65	.76	1.5	11	7.6	2.9	.51	.41
2	.41	.60	.68	.58	.62	.59	1.6	12	7.7	2.4	.56	.45
3	.45	.58	.64	.55	.68	.59	2.9	15	6.6	1.9	.44	.50
4	.41	.56	.72	.52	.62	.64	1.7	16	7.2	2.1	.38	.59
5	.44	.57	.74	.58	.50	.89	1.7	12	7.1	2.0	.42	.61
6	.58	.57	.80	.54	.45	.96	2.1	10	6.9	1.7	.39	.73
7	.55	.68	.79	.43	.40	.96	2.1	9.5	5.5	1.6	.38	.77
8	.45	.70	.79	.37	.43	1.0	1.7	8.6	4.8	1.5	.38	.75
9	.38	.54	.84	.40	.45	1.1	1.3	8.2	5.3	1.3	.46	.66
10	.33	.62	.88	.43	.48	1.2	1.3	7.8	3.5	1.3	.56	.66
11	.31	.75	.82	.46	.50	1.0	5.4	7.3	3.5	1.0	.38	.65
12	.38	.79	.75	.48	.60	1.0	12	6.8	2.8	.97	.37	.88
13	.35	.86	.89	.52	.70	1.3	15	6.7	3.4	.82	.38	.77
14	.36	.70	.89	.56	.75	1.5	10	6.7	3.1	.76	.39	.74
15	.44	.64	.84	.62	.85	1.4	12	7.0	2.7	.71	.40	.73
16	.39	.67	.78	.70	.95	1.4	9.7	8.0	2.5	.71	.37	.81
17	.47	.74	.70	.85	1.0	1.1	7.8	9.0	2.3	.65	.40	.72
18	.48	.71	.65	.72	.90	1.0	7.5	9.5	2.4	.62	.35	.70
19	.49	.65	.75	.65	.80	.82	7.6	10	2.5	.58	.39	.81
20	.49	.75	.90	.60	.95	.70	6.2	9.5	2.5	.57	.35	.75
21	.61	.68	.80	.57	1.1	.53	6.4	8.5	2.5	.54	.35	.71
22	.63	.69	.65	.53	1.3	.49	7.2	7.0	2.4	.51	.33	.73
23	.61	.71	.50	.56	.85	.55	7.4	6.0	2.2	.50	.33	.81
24	.57	.71	.55	.65	.70	.93	8.0	5.6	2.2	.59	.33	.95
25	.63	.57	.65	.75	.70	1.0	9.0	9.0	2.5	.47	.32	.98
26	.67	.50	.70	.85	.76	1.2	9.5	7.5	2.2	.47	.32	1.4
27	.57	.50	.58	.75	.89	.86	10	6.3	2.0	.59	.32	.89
28	.80	.51	.65	.65	.89	1.1	11	8.5	2.1	.51	.37	.85
29	.56	.52	.70	.53	---	1.2	10	9.4	2.8	.51	.45	.84
30	.50	.59	.80	.60	---	1.3	10	8.8	2.7	.46	.42	.84
31	.57	---	.70	.70	---	1.5	---	8.2	---	.51	.43	---
TOTAL	15.24	19.23	22.79	18.32	20.47	30.57	199.6	275.4	113.5	31.75	12.23	22.69
MEAN	.49	.64	.74	.59	.73	.99	6.65	8.88	3.78	1.02	.39	.76
MAX	.80	.86	.90	.85	1.3	1.5	15	16	7.7	2.9	.56	1.4
MIN	.31	.50	.50	.37	.40	.49	1.3	5.6	2.0	.46	.32	.41
AC-FT	30	38	45	36	41	61	396	546	225	63	24	45
CAL YR 1981	TOTAL	295.00	MEAN	.81	MAX	2.3	MIN	.31	AC-FT	585		
WTR YR 1982	TOTAL	781.79	MEAN	2.14	MAX	16	MIN	.31	AC-FT	1550		

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.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank at Comus siding of Southern Pacific Railroad, 1.0 mi (1.6 km) upstream from Kelly Creek, 9 mi (14 km) northeast of Golconda, and 32 mi (51 km) northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi² (31,300 km²), 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 (1,328.90 m) 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 (16 km) 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 (0.8 km) of present site at different datum.

REMARKS.--Records good except those for winter months which are poor. Many diversions above station for irrigation, 206,000 acres (834 km²); 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.--68 years, 295 ft³/s (8.354 m³/s), 213,700 acre-ft/yr (263 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,860 ft³/s (166 m³/s) May 6, 1952, gage height, 11.52 ft (3.511 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) Apr. 23, gage height, 9.42 ft (2.871 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Nov. 19 to Dec. 11, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.34	.10	3.5	44	1110	1010	1430	1130	1210	275	3.3
2	.71	.34	.10	4.0	45	1100	1040	1430	1160	1280	262	2.8
3	.71	.34	.10	4.5	45	1050	1060	1420	1170	1260	242	2.4
4	.56	.34	.10	5.0	46	972	1080	1390	1160	1250	225	1.9
5	.56	.34	.10	5.4	46	929	1100	1400	1180	1200	205	1.5
6	.56	.25	.10	6.0	48	916	1110	1420	1180	1140	187	1.5
7	.56	.25	.10	7.5	50	916	1110	1420	1180	1080	167	1.3
8	.56	.25	.10	9.0	51	935	1120	1420	1170	1030	142	.94
9	.56	.25	.10	11	52	940	1120	1420	1150	966	120	.59
10	.56	.25	.10	13	53	903	1120	1450	1120	904	97	.49
11	.56	.25	.10	15	55	829	1100	1490	1060	854	86	.43
12	.56	.25	.12	17	57	774	1050	1510	1000	802	75	.22
13	.56	.18	.14	18	60	753	987	1490	952	746	65	.29
14	.56	.18	.13	19	63	761	979	1500	919	698	54	.31
15	.56	.18	.11	20	70	792	1020	1490	857	662	47	.32
16	.45	.18	.10	21	94	812	1070	1480	820	628	41	1.0
17	.34	.18	.10	22	108	837	1140	1470	855	586	37	1.2
18	.34	.15	.11	23	288	883	1230	1450	892	550	33	1.3
19	.34	.10	.11	23	589	929	1360	1420	885	524	31	.98
20	.34	.10	.15	24	671	973	1480	1370	914	488	27	.88
21	.34	.10	.23	25	701	1020	1560	1330	927	444	22	.69
22	.34	.10	.33	29	729	1110	1620	1290	998	426	19	.38
23	.34	.13	.16	31	777	1110	1690	1250	1020	394	16	.15
24	.34	.10	.14	34	829	1110	1700	1220	1080	373	13	.10
25	.34	.10	.12	37	873	1080	1630	1190	1080	354	11	.13
26	.34	.10	.14	38	969	1040	1630	1190	1100	334	8.7	.45
27	.34	.10	.19	40	1060	992	1590	1200	1100	312	7.3	.72
28	.34	.10	1.8	41	1100	954	1510	1170	1090	298	6.1	.52
29	.34	.10	2.1	42	---	945	1440	1140	1140	291	5.4	.16
30	.34	.10	2.5	43	---	948	1430	1120	1170	278	4.6	46
31	.34	---	3.0	43	---	976	---	1140	---	277	3.8	---
TOTAL	14.40	5.73	12.88	673.9	9573	29399	38086	42110	31459	21639	2534.9	72.95
MEAN	.46	.19	.42	21.7	342	948	1270	1358	1049	698	81.8	2.43
MAX	.71	.34	3.0	43	1100	1110	1700	1510	1180	1280	275	.46
MIN	.34	.10	.10	3.5	44	753	979	1120	820	277	3.8	.10
AC-FT	29	11	26	1340	18990	58310	75540	83530	62400	42920	5030	145

CAL YR 1981 TOTAL 23964.40 MEAN 65.7 MAX 202 MIN .10 AC-FT 47530
WTR YR 1982 TOTAL 175580.76 MEAN 481 MAX 1700 MIN .10 AC-FT 348300

HUMBOLDT RIVER BASIN

10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°29'30", long 117°07'30", in SW¼ sec.28, T.42 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.7 mi (1.1 km) upstream from concrete diversion dam, 7.5 mi (12.1 km) north-northeast of Chimney Dam, and 21 mi (34 km) east of Paradise Valley.

DRAINAGE AREA.--210 mi² (544 km²).

PERIOD OF RECORD.--October 1975 to current year (no winter records since 1980).

GAGE.--Water-stage recorder. Altitude of gage is 4,670 ft (1,420 m), from topographic map.

REMARKS.--Records good. No known diversions above station. 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, unknown, Jan. 13, 1980, gage height, 9.50 ft (2.896 m); minimum, 0.14 ft³/s (0.004 m³/s) July 19-22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 205 ft³/s (5.81 m³/s) gage height 3.43 ft (1.045 m); minimum daily discharge during period of operation 0.46 ft³/s (0.013 m³/s) Aug. 16-20, 24 to Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							36	94	32	14	1.2	.46
2							35	101	30	16	1.1	.52
3							32	109	29	17	1.1	.46
4							32	110	27	13	1.1	.46
5							31	104	26	11	1.0	.46
6							32	92	26	11	1.0	.46
7							31	85	24	9.2	1.0	.46
8							28	85	22	8.4	1.0	.46
9							27	83	21	7.6	.98	.46
10							29	75	19	6.7	.97	.46
11							42	72	18	6.2	.96	.46
12							164	64	19	5.6	.90	.46
13							129	55	25	4.8	.58	.58
14							106	52	24	4.1	.46	.99
15							91	55	21	3.8	.52	1.7
16							77	60	19	3.3	.46	2.6
17							68	60	19	3.1	.46	2.4
18							64	64	17	2.9	.46	2.4
19							58	66	15	2.6	.46	2.6
20							55	61	15	1.9	.46	2.6
21							53	57	14	1.6	.58	2.8
22							57	56	13	1.4	.73	2.7
23							65	57	12	1.3	.52	2.0
24							78	57	12	1.3	.46	2.1
25							92	55	11	1.2	.46	2.9
26							97	55	9.8	1.2	.46	3.1
27							99	54	8.7	1.5	.46	8.0
28							104	49	7.6	1.4	.46	6.0
29							103	44	9.5	1.3	.46	5.5
30							94	38	16	1.2	.46	6.0
31							---	34	---	1.2	.46	---
TOTAL							2009	2103	561.6	166.8	21.68	62.55
MEAN							67.0	67.8	18.7	5.38	.70	2.09
MAX							164	110	32	17	1.2	8.0
MIN							27	34	7.6	1.2	.46	.46
AC-FT							3980	4170	1110	331	43	124

HUMBOLDT RIVER BASIN

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°27'00", long 117°06'00", in NE $\frac{1}{4}$ sec.10, T.41 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 5.8 mi (9.3 km) northeast of Chimney Dam, and 23 mi (32 km) east of Paradise Valley.

DRAINAGE AREA.--431 mi² (1,116 km²).

PERIOD OF RECORD.--October 1975 to current year (no winter records since 1980).

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,420 m), from topographic map.

REMARKS.--Records good. Diversions for irrigation of 865 acres (3.50 km²), Little Humboldt Decree, above station. 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, 473 ft³/s (13.4 m³/s) Jan. 14, 1980, gage height 8.36 ft (2.548 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 226 ft³/s (6.40 m³/s) Apr. 12, gage height 5.23 ft (1.594 m); no flow Aug. 28 to Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							29	65	34	9.7	.57	.00
2							27	64	35	14	.47	.00
3							26	68	30	12	.47	.00
4							26	69	26	12	.31	.00
5							25	68	19	13	.25	.00
6							25	64	18	11	.20	.00
7							24	59	17	11	.20	.00
8							23	57	16	11	.20	.00
9							23	58	15	11	.20	.00
10							25	57	14	9.7	.20	.00
11							39	54	14	8.5	.16	.00
12							150	51	16	7.6	.16	.00
13							110	46	18	6.9	.16	.00
14							97	42	19	4.3	.16	.00
15							92	41	16	1.8	.16	.00
16							82	40	14	1.6	.16	.13
17							74	40	13	1.6	.16	.20
18							68	43	13	1.6	.13	.25
19							63	45	13	1.3	.13	.97
20							59	42	12	1.3	.16	1.8
21							56	41	12	1.1	.16	1.8
22							54	41	11	.97	.16	1.3
23							54	41	11	.97	.13	1.3
24							56	40	8.5	.97	.07	.97
25							59	41	11	.97	.06	1.6
26							63	41	10	1.1	.04	15
27							65	40	9.1	1.1	.01	5.2
28							65	41	7.6	1.1	.00	4.3
29							68	40	10	.97	.00	3.6
30							67	38	9.7	.97	.00	3.9
31							---	36	---	.82	.00	---
TOTAL							1694	1513	471.9	161.94	5.24	42.32
MEAN							56.5	48.8	15.7	5.22	.17	1.41
MAX							150	69	35	14	.57	15
MIN							23	36	7.6	.82	.00	.00
AC-FT							3360	3000	936	321	10	84

HUMBOLDT RIVER BASIN

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10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM, NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°23'25", long 117°11'00", in NW¼ sec.36, T.41 N., R.42 E., Humboldt County, Hydrologic Unit 16040109, on left bank 20 mi (32 km) east-southeast of Paradise Valley.

DRAINAGE AREA.--780 mi² (2,020 km²), approximately.

PERIOD OF RECORD.--October 1941 to September 1950 (before dam was built), April 1975 to current year (no winter records since 1980). April 1975, published as "at Chimney Dam site."

GAGE.--Water-stage recorder. Altitude of gage is 4,560 ft (1,390 m), from topographic map. Prior to April 1975, at different site and datum.

REMARKS.--Records good, except for period of no gage height record, June 25 to Sept. 15, which are fair. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm³). 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."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since dam was built, 206 ft³/s (5.83 m³/s) May 22, 1975, gage height, 4.34 ft (1.323 m); maximum discharge before dam was built, 4,000 ft³/s (113 m³/s) about Jan. 22, 1943, gage height, 14.4 ft (4.39 m), from floodmarks, from slope-area measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 68 ft³/s (1.93 m³/s) June 5, 6; minimum daily during period of operation, 1.1 ft³/s (0.031 m³/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							1.8	39	51	64	34	15
2							1.8	38	51	64	34	15
3							1.7	38	50	63	35	15
4							1.5	38	58	63	35	15
5							1.4	38	68	63	35	15
6							1.2	38	68	62	35	15
7							1.2	38	67	62	35	15
8							1.5	38	67	62	35	6.6
9							1.5	38	67	61	35	2.3
10							1.5	38	66	61	35	2.3
11							1.5	38	66	60	35	2.3
12							1.5	38	66	60	35	2.3
13							1.5	38	66	60	35	2.3
14							1.5	39	66	59	35	2.3
15							1.5	38	66	59	35	2.3
16							1.5	38	66	59	35	2.1
17							1.5	38	66	59	35	2.0
18							1.5	38	66	59	35	1.5
19							1.5	38	66	59	36	1.5
20							7.0	38	66	59	36	1.5
21							33	42	66	59	36	1.5
22							33	52	66	59	36	1.4
23							33	52	65	59	36	1.4
24							33	52	66	42	36	1.4
25							33	52	66	34	36	1.7
26							33	52	66	34	36	1.4
27							36	52	65	34	36	1.1
28							39	51	64	34	22	1.2
29							39	51	64	34	15	1.4
30							39	51	64	34	15	1.2
31							---	51	---	34	15	---
TOTAL							386.6	1320	1925	1675	1019	150.0
MEAN							12.9	42.6	64.2	54.0	32.9	5.00
MAX							39	52	68	64	36	15
MIN							1.2	38	50	34	15	1.1
AC-FT							767	2620	3820	3320	2020	298

HUMBOLDT RIVER BASIN

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¼SE¼ sec.20, T.41 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank 3.5 mi (5.6 km) downstream from Bullshead Ranch and 9.5 mi (15.3 km) southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi² (2,670 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m), from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi (1.6 km) downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft (76 m) upstream at datum 2.21 ft (0.674 m) higher.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm³), 10 mi (16 km) upstream, since 1974. Diversions for irrigation of 4,450 acres (18.0 km²), Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--44 years (1921-23, 1924-27, 1943-1982), 24.3 ft³/s (0.688 m³/s), 17,610 acre-ft/yr (21.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft³/s (67.4 m³/s) Jan. 21, 1969, gage height, 8.40 ft (2.560 m), minimum, 0.46 ft³/s (0.013 m³/s) Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft³/s (3.46 m³/s) Feb. 14, gage height, 2.42 ft (0.738 m); minimum, 5.1 ft³/s (0.14 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.9	8.0	8.7	8.4	7.7	8.4	37	43	55	35	16
2	7.3	6.9	8.0	8.7	8.4	8.0	8.4	37	43	57	35	16
3	7.3	7.3	8.0	8.4	8.4	8.0	8.4	37	48	55	35	16
4	7.3	7.3	8.0	8.7	8.4	8.0	8.4	37	51	54	34	16
5	7.3	7.3	8.0	8.7	8.4	8.0	8.4	37	52	54	34	16
6	7.3	6.9	7.7	8.4	8.4	8.0	8.4	37	52	52	34	16
7	7.7	6.9	7.7	8.0	8.4	8.0	8.4	37	48	49	34	16
8	7.7	6.9	8.0	8.0	8.4	8.4	8.4	38	46	50	34	16
9	7.7	6.9	8.0	8.0	8.4	8.0	8.4	38	51	50	33	13
10	7.7	6.9	8.0	8.0	8.4	8.0	8.7	39	52	50	33	9.9
11	7.7	7.3	7.7	7.7	8.7	8.4	9.1	39	60	50	33	9.9
12	7.3	7.3	8.0	7.7	8.7	8.4	8.7	39	55	50	33	9.9
13	6.9	7.7	8.0	7.7	8.7	8.4	8.7	39	53	50	33	9.9
14	6.9	7.3	8.4	7.7	52	8.7	8.7	40	48	50	33	9.9
15	6.9	7.3	8.4	7.7	96	8.7	8.7	40	48	50	33	9.4
16	6.9	7.3	8.0	7.7	63	8.7	8.7	40	53	47	33	7.9
17	6.9	7.3	8.0	8.0	49	8.7	7.7	41	52	51	33	6.4
18	6.9	7.3	8.4	8.4	26	9.1	7.7	41	51	52	33	7.0
19	6.9	7.3	9.1	8.4	15	8.7	7.7	41	48	52	33	9.9
20	6.9	7.7	10	8.0	18	8.7	27	41	49	52	33	9.1
21	6.9	7.7	9.1	8.0	19	8.4	32	45	48	52	31	8.8
22	6.9	8.7	8.4	7.7	15	8.4	34	44	48	52	33	8.8
23	6.9	14	8.0	8.4	9.5	8.4	34	44	58	53	33	8.8
24	6.9	11	8.0	8.4	8.0	8.4	35	45	57	40	32	9.1
25	6.9	8.4	8.4	8.7	7.7	8.7	36	45	62	37	32	9.6
26	6.9	8.0	9.1	11	8.0	8.4	37	45	55	35	33	9.6
27	6.1	8.0	9.9	9.5	7.7	8.4	37	46	57	35	32	9.1
28	7.3	7.7	8.4	8.4	7.7	8.4	37	46	55	35	23	8.8
29	7.3	7.7	9.1	8.4	---	8.4	37	45	57	36	17	8.8
30	6.9	7.7	10	8.4	---	8.4	37	44	56	37	16	8.8
31	6.9	---	9.1	8.4	---	8.4	---	45	---	35	16	---
TOTAL	220.7	232.9	260.9	257.9	511.7	259.3	543.0	1269	1567	1477	969	330.4
MEAN	7.12	7.76	8.42	8.32	18.3	8.36	18.1	40.9	52.2	47.6	31.3	11.0
MAX	7.7	14	10	11	96	9.1	37	46	66	57	35	16
MIN	6.1	6.9	7.7	7.7	7.7	7.7	7.7	37	43	35	16	6.4
AC-FT	438	462	517	512	1010	514	1080	2520	3110	2930	1920	655

CAL YR 1981 TOTAL 3340.2 MEAN 9.15 MAX 23 MIN 6.1 AC-FT 6630
WTR YR 1982 TOTAL 7898.8 MEAN 21.6 MAX 96 MIN 6.1 AC-FT 15670

HUMBOLDT RIVER BASIN

175

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 (1.0 km) upstream from Humboldt County Recreation Park and 7 mi (11 km) northeast of Paradise Valley.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

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 (1,433 m), from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft (122 m) of present site at different datums.

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.--61 years, 32.0 ft³/s (0.906 m³/s), 23,180 acre-ft/yr (28.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s (255 m³/s) Jan. 21, 1943, gage height, 11.1 ft (3.38 m), site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft³/s (0.051 m³/s) Feb. 6, 1945.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 20	0200	408	11.6	2.79	0.850	Apr. 11	2400	269	7.62	2.39	0.728
Feb. 16	0800	*1,390	39.4	4.78	1.457	May 4	0400	231	6.54	2.25	0.686

Minimum, 5.1 ft³/s (0.144 m³/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	7.5	17	28	13	87	56	176	99	47	7.4	5.7
2	5.3	7.6	16	25	15	94	55	197	97	53	7.2	5.6
3	5.3	7.9	16	19	15	81	57	210	94	42	7.0	5.5
4	5.5	7.9	15	27	10	74	66	215	91	38	6.9	5.7
5	5.6	7.9	15	26	7.6	66	53	198	87	35	6.8	5.7
6	5.9	7.8	15	15	9.8	57	58	181	81	31	6.6	5.7
7	6.4	7.8	15	9.6	12	57	52	182	72	29	6.4	5.7
8	6.4	7.8	16	10	13	54	48	187	68	27	6.3	5.6
9	6.3	7.7	16	14	13	55	50	169	64	25	6.2	5.5
10	6.6	8.2	16	18	12	55	56	158	64	23	6.1	5.5
11	7.3	8.2	15	19	12	63	134	144	65	22	6.0	5.7
12	7.1	8.5	15	20	13	61	197	130	67	20	5.9	6.3
13	6.8	11	17	19	13	59	155	120	72	19	5.8	6.7
14	6.4	21	17	17	29	68	145	119	71	18	5.7	6.7
15	6.4	16	21	17	228	76	139	132	67	17	5.7	6.9
16	6.4	13	20	18	1080	70	127	133	65	16	5.7	7.2
17	6.3	12	16	19	332	66	119	144	63	15	5.7	7.0
18	6.3	12	20	18	191	71	116	155	62	15	5.8	6.7
19	6.4	11	65	17	231	70	111	151	59	13	6.3	7.9
20	6.4	12	249	13	381	62	107	149	56	12	5.8	7.8
21	6.4	12	107	18	414	56	103	150	52	11	5.7	7.0
22	6.5	32	66	16	354	55	104	152	49	11	5.6	6.7
23	6.8	41	51	16	217	55	118	158	45	10	5.6	6.5
24	6.9	128	46	16	158	56	137	159	43	10	5.6	6.8
25	7.0	54	44	17	131	57	156	163	41	9.6	5.6	7.5
26	7.0	33	38	18	114	58	160	166	38	9.2	5.6	8.4
27	7.0	28	36	15	100	56	164	163	35	8.8	5.6	7.6
28	7.4	20	23	16	90	58	176	141	35	8.6	5.7	7.6
29	8.0	17	37	15	---	56	172	125	57	8.2	5.7	8.4
30	7.8	19	39	13	---	56	166	112	46	7.9	5.8	9.1
31	7.4	---	24	15	---	57	---	103	---	7.7	5.7	---
TOTAL	202.6	586.8	1123	543.6	4208.4	1966	3357	4842	1905	619.0	187.5	200.7
MEAN	6.54	19.6	36.2	17.5	150	63.4	112	156	63.5	20.0	6.05	6.69
MAX	8.0	128	249	28	1080	94	197	215	99	53	7.4	9.1
MIN	5.3	7.5	15	9.6	7.6	54	48	103	35	7.7	5.6	5.5
AC-FT	402	1160	2230	1080	8350	3900	6660	9600	3780	1230	372	398
CAL YR 1981	TOTAL	6655.0	MEAN	18.2	MAX	249	MIN	3.4	AC-FT	13200		
WTR YR 1982	TOTAL	19741.6	MEAN	54.1	MAX	1080	MIN	5.3	AC-FT	39160		

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼SE¼ sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank 1 mi (2 km) upstream from Callahan bridge and 4 mi (6 km) northwest of Imlay.

DRAINAGE AREA.--15,700 mi² (40,660 km²), 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 (1,259 m) from Geological Survey vertical-angle bench mark. Prior to Apr. 28, 1945, at site 1 mi (2 km) downstream at different datum. Apr. 28, 1945, to Aug. 20, 1947, at present site at datum 1 ft (0.3 m) higher.

REMARKS.--Records 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.--43 years, 212 ft³/s (6.004 m³/s), 153,600 acre-ft/yr (189 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,080 ft³/s (172 m³/s) May 9, 1952, gage height, 12.15 ft (3.703 m); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s (33.1 m³/s) May 22, gage height, 8.79 ft (2.679 m); minimum daily discharge, 4.9 ft³/s (0.14 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	10	19	17	56	612	828	1090	960	912	333	103
2	4.9	10	17	16	58	648	819	1110	952	936	319	98
3	5.2	9.9	15	15	60	676	813	1120	950	968	308	95
4	5.7	9.9	14	14	58	715	801	1120	933	981	295	89
5	5.7	9.9	14	14	55	740	812	1120	889	977	276	84
6	5.9	9.9	13	15	50	753	830	1120	843	964	264	78
7	6.5	10	12	16	45	759	846	1120	837	958	257	76
8	7.0	10	12	17	45	744	875	1120	837	954	254	73
9	7.3	10	12	19	46	702	884	1120	839	952	244	70
10	8.3	10	12	21	48	713	880	1110	871	940	238	65
11	8.9	11	12	23	50	740	891	1090	864	926	230	59
12	12	11	12	26	56	744	919	1030	848	868	219	57
13	12	11	13	29	64	734	948	1010	866	819	213	55
14	11	12	15	32	63	702	943	1030	884	736	205	53
15	10	12	14	35	58	676	929	1050	794	676	194	54
16	9.9	11	13	38	45	657	915	1060	794	670	187	54
17	9.6	11	12	42	45	661	887	1090	816	642	179	52
18	9.2	11	14	35	52	678	868	1110	841	606	172	49
19	9.2	11	15	30	72	693	868	1120	816	576	166	50
20	8.9	11	14	29	94	710	878	1130	740	548	165	50
21	9.2	12	15	31	130	727	889	1140	715	525	158	49
22	9.2	12	15	34	292	742	910	1160	723	506	153	47
23	9.6	13	14	37	385	750	938	1160	721	478	149	45
24	9.6	16	16	40	453	768	960	1140	715	423	143	46
25	9.6	17	16	43	512	781	979	1120	706	375	137	46
26	9.6	16	15	46	553	803	999	1110	704	364	127	46
27	9.6	15	16	50	571	825	1020	1080	744	370	125	45
28	10	16	15	48	601	852	1050	1050	807	366	119	45
29	11	17	16	45	---	864	1070	1020	864	355	116	42
30	11	18	18	48	---	852	1080	990	903	348	112	42
31	11	---	17	53	---	841	---	970	---	338	107	---
TOTAL	271.8	363.6	447	958	4617	22862	27329	33810	24776	21057	6164	1817
MEAN	8.77	12.1	14.4	30.9	165	737	911	1091	826	679	199	60.6
MAX	12	18	19	53	601	864	1080	1160	960	981	333	103
MIN	4.9	9.9	12	14	45	612	801	970	704	338	107	42
AC-FT	539	721	887	1900	9160	45350	54210	67060	49140	41770	12230	3600

CAL YR 1981 TOTAL 16472.3 MEAN 45.1 MAX 130 MIN 2.0 AC-FT 32670
WTR YR 1982 TOTAL 144472.4 MEAN 396 MAX 1160 MIN 4.9 AC-FT 286600

HUMBOLDT RIVER BASIN

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10333000 HUMBOLDT RIVER NEAR IMLAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1950, August 1951 to April 1952, October 1952, February 1960 to current year.

SPECIFIC CONDUCTANCES: October 1975 to November 1980, monthly; December 1980 to current year, every two months.

WATER TEMPERATURES: July 1949 to November 1950, August 1951 to April 1952, October 1952, and February 1960 to June 1961, monthly; November 1961 to October 1962, occasional; November 1962 to October 1968, monthly;

November 1968 to September 1969, occasional; October 1969 to November 1980, monthly; December 1980 to current year, every two months.

SEDIMENT DATA: January 1974 to November 1980, monthly; December 1980 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 900 micromhos May 15, 1981; 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 1981 TO SEPTEMBER 1982

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
DEC 03...	1500	15	841	4.0	50	2.0	--
JAN 26...	1300	46	795	1.0	55	6.8	--
MAR 11...	1330	744	--	--	717	1440	90
JUN 03...	1310	950	507	--	361	926	80
JUL 27...	1405	372	561	22.5	--	--	--
SEP 22...	1545	46	790	21.0	27	3.4	--

HUMBOLDT RIVER BASIN

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 (3 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (4,170 km²), 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 (240 hm³) between altitudes 4,072.5 ft (1,241.30 m), sill of trashrack structure, and 4,136.0 ft (1,260.65 m), top of spillway gates (since June 1976). Dead storage negligible. Altitude of spillway (gate sill) is 4,119 ft (1,255.6 m). Figures given herein represent usable contents and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily altitude furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, altitude, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 177,700 acre-ft (219 hm³) July 30, 31, Aug. 1, altitude, 4,134.6 ft (1,260.226 m); minimum, 55,750 acre-ft (68.7 hm³) Nov. 17-22, altitude, 4,120.5 ft (1,255.928 m).

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		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68520	57790	56260	57280	57790	64980	101300	114800	128200	152000	177700	155900
2	67930	57280	56770	57280	57790	65570	102100	114800	130200	153300	176600	155900
3	67340	57280	56770	57280	58300	66750	102900	114800	131200	155900	176600	155900
4	67340	57280	56770	57280	58300	67930	103700	115800	132200	157200	175400	155900
5	66750	56770	56770	57280	58850	69700	105300	115800	133200	158600	174200	154600
6	66750	56770	56770	57280	58850	70960	106200	115800	134300	161300	173100	154600
7	66160	56770	56770	57280	58850	71590	107900	115800	135400	162600	171900	153300
8	65570	56770	56770	57280	58850	72850	109600	115800	136500	165300	170800	152000
9	64980	56770	56770	57280	58850	74110	110500	115800	137600	166700	170800	150700
10	64390	56770	56770	57280	58850	75370	111300	116700	138700	168000	170800	150700
11	64390	56770	56770	57280	58850	76000	112200	116700	138700	169400	169400	149400
12	64390	56770	56770	57280	58850	77340	112200	116700	138700	171900	169400	148100
13	64390	56770	56770	57280	58850	78680	113000	116700	139800	173100	169400	146800
14	64390	56770	56770	57280	58850	80020	113000	116700	140900	174200	168000	146800
15	64390	56260	56770	57280	59950	81360	113000	116700	142000	174200	168000	146800
16	63800	56260	56770	57280	59950	82700	113900	116700	142000	174200	166700	145500
17	63250	55750	56770	57280	59950	83410	113900	116700	143100	174200	166700	145500
18	62700	55750	56770	57280	59950	84120	113900	117600	144200	175400	165300	145500
19	62150	55750	56770	57280	59950	85540	113900	117600	145500	175400	165300	145500
20	61600	55750	57280	57790	59950	87670	113900	118600	146800	175400	164000	145500
21	61600	55750	57280	57790	59950	88380	113900	119500	148100	175400	164000	144200
22	61050	55750	57280	57790	61050	89090	113900	119500	148100	175400	162600	144200
23	60500	56260	57280	57790	61050	90550	113900	120400	148100	176600	162600	144200
24	59950	56260	57280	57790	61600	91300	113900	120400	148100	176600	161300	144200
25	59950	56260	57280	57790	62700	92050	113900	121300	148100	176600	161300	144200
26	59400	56260	57280	57790	63250	93550	113900	122300	148100	176600	159900	144200
27	58850	56260	57280	57790	63800	95050	113900	123200	148100	176600	159900	144200
28	58300	56260	57280	57790	64390	95800	113900	124200	148100	176600	158600	143100
29	58300	56260	57280	57790	---	96550	113900	125200	148100	176600	158600	143100
30	57790	56260	57280	57790	---	97300	113900	126200	150700	177700	157200	143100
31	57790	---	57280	57790	---	98100	---	127200	---	177700	157200	---
MAX	68520	57790	57280	57790	64390	98100	113900	127200	150700	177700	177700	155900
MIN	57790	55750	56260	57280	57790	64980	101300	114800	128200	152000	157200	143100
†	4120.9	4120.6	4120.8	4120.9	4122.1	4127.1	4129.0	4130.4	4132.5	4134.6	4133.0	4131.9
‡	-11320	-1530	+1020	+510	+6600	+33710	+15800	+13300	+23500	+27000	-20500	-14100

CAL YR 1981 MAX 170800 MIN 55750 ‡ -97320
WTR YR 1982 MAX 177700 MIN 55750 ‡ +73990

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

‡ Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

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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 (300 m) downstream from Rye Patch Dam and 1.5 mi (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (41,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft (1,240.088 m) 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 (11 km) downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except for periods of no gage height record Nov. 16 to Mar. 17, which are poor. Flow completely regulated by Rye Patch Reservoir, capacity 157,200 acre-ft (194 hm³) since Feb. 20, 1936. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--67 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-82), 205 ft³/s (5.806 m³/s), 148,500 acre-ft/yr (183 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s (134 m³/s) May 11, 12, 1952, gage height, 10.26 ft (3.127 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 970 ft³/s (27.5 m³/s) April 14, gage height, 4.44 ft (1.353 m); minimum daily discharge, 0.30 ft³/s (0.008 m³/s) Jan. 6 to Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	129	.53	.53	.30	.41	10	924	294	221	412	415
2	252	109	.53	.53	.30	.42	8.7	926	285	139	434	464
3	205	109	.53	.50	.30	.48	67	928	287	100	436	477
4	212	87	.53	.40	.30	.50	125	929	281	82	526	460
5	236	55	.53	.32	.30	.50	125	880	280	33	591	431
6	224	40	.53	.30	.30	.50	125	698	235	21	612	364
7	257	40	.53	.30	.30	.50	177	681	182	55	564	383
8	266	86	.53	.30	.30	.50	274	619	230	130	482	421
9	252	117	.53	.30	.30	.50	295	621	376	188	472	434
10	217	159	.53	.30	.30	.50	296	623	381	221	507	453
11	187	192	.53	.30	.30	.50	391	632	342	272	432	431
12	168	150	.53	.30	.30	.50	442	635	322	280	425	433
13	157	125	.53	.30	.30	.50	535	640	309	310	413	384
14	214	87	.53	.30	.30	.50	736	645	291	354	419	309
15	223	42	.53	.30	.30	.50	746	645	321	409	436	216
16	251	8.0	.53	.30	.30	.50	745	645	357	427	441	144
17	253	5.0	.53	.30	.30	.50	745	645	357	393	441	122
18	229	1.5	.53	.30	.30	.50	864	645	315	332	424	107
19	229	.53	.53	.30	.30	.50	901	645	299	338	347	153
20	257	.53	.53	.30	.30	.50	906	645	290	416	333	128
21	260	.53	.53	.30	.33	.50	910	645	297	387	356	98
22	249	.53	.53	.30	.37	.50	913	645	325	356	385	115
23	262	.53	.53	.30	.40	.50	911	645	417	298	409	123
24	233	.53	.53	.30	.40	.50	913	645	515	265	366	117
25	180	.53	.53	.30	.40	.50	918	646	594	242	387	121
26	180	.53	.53	.30	.40	.80	919	585	597	218	455	113
27	171	.53	.53	.30	.40	6.0	918	472	528	207	388	53
28	171	.53	.53	.30	.40	53	920	459	480	213	224	65
29	162	.53	.53	.30	---	88	921	454	420	242	134	63
30	129	.53	.53	.30	---	107	923	456	321	310	166	62
31	138	---	.53	.30	---	94	---	437	---	378	283	---
TOTAL	6691	1547.86	16.43	10.08	9.10	361.11	17679.7	20340	10528	7837	12700	7659
MEAN	216	51.6	.53	.33	.33	11.6	589	656	351	253	410	255
MAX	267	192	.53	.53	.40	107	923	929	597	427	612	477
MIN	129	.53	.53	.30	.30	.41	8.7	437	182	21	134	53
AC-FT	13270	3070	33	20	18	716	35070	40340	20880	15540	25190	15190
CAL YR 1981	TOTAL	63644.19	MEAN	174	MAX	647	MIN	.15	AC-FT	126200		
WTR YR 1982	TOTAL	85379.28	MEAN	234	MAX	929	MIN	.30	AC-FT	169300		

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, May 1962 to current year.

CHEMICAL ANALYSES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to February 1968, once daily (composited); March 1968 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly, October 1981 to current year, every two months.

SPECIFIC CONDUCTANCES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily, October 1981 to current year, every two months.

BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to September 1981, monthly, October 1981 to current year, every two months.

WATER TEMPERATURES: July 1949 to November 1951, monthly (seasonal); December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily, October 1981 to current year, every two months.

SEDIMENT DATA: January 1974, and October 1974 to September 1981, monthly, October 1981 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.

PHYTOPLANKTON: Maximum, 7,000 cells/mL Oct. 23, 1975; minimum, 8 cells/mL Mar. 26, 1976.

FECAL STREPTOCOCCI: Maximum, 2,400 colonies/100 mL (non-ideal colony count) June 24, 1977; minimum, less than 2 colonies/100 mL Apr. 25, 1975, Oct. 24, 1978, and Mar. 26, Sept. 26, 1979.

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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
DEC 03...	1115	.53	986	8.3	9.0	48	12.0	119	87	130	180	43
JAN 26...	1400	.30	1034	8.4	8.0	15	12.4	123	K3	430	180	44
MAR 11...	1520	.50	1160	8.7	12.5	9.0	10.6	116	K2	250	180	41
MAY 25...	1640	645	748	--	16.0	19	8.6	101	K1	62	150	38
JUL 21...	1410	351	683	7.8	18.5	19	8.7	106	<2	1100	160	42
SEP 23...	1145	125	687	8.7	18.0	9.7	8.4	102	K4	140	170	43

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

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10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
DEC 03...	17	140	5.0	12	260	86	120	.7	44	609	619	.87
JAN 26...	18	150	5.2	14	270	88	130	.7	42	620	649	.50
MAR 11...	19	170	6.0	16	280	100	160	.9	39	687	714	.93
MAY 25...	14	95	3.6	12	204	70	71	.7	33	449	456	782
JUL 21...	13	86	3.2	12	226	61	56	.7	35	428	442	406
SEP 23...	14	80	2.9	12	217	52	52	.6	35	426	419	144

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, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
DEC 03...	<.10	.080	.54	.070	.030	.030	47	46	100	71	1	<1
JAN 26...	<.09	.100	.70	.100	.090	.100	--	--	--	--	--	--
MAR 11...	<.09	.070	.67	.070	.030	.040	40	33	<100	82	<1	<1
MAY 25...	<.10	.180	.70	.190	.120	.080	--	--	--	--	--	--
JUL 21...	.12	.150	1.00	.150	--	.110	25	24	<100	29	<1	<1
SEP 23...	<.10	.070	1.00	.160	.090	.070	25	26	100	25	<1	<1

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
DEC 03...	<10	<10	1	<3	12	<1	1800	<10	2	<1	70
JAN 26...	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	<10	<10	2	2	12	4	630	8	9	2	50
MAY 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	10	10	<1	<1	7	3	870	4	--	3	40
SEP 23...	<10	<10	2	<1	5	2	660	6	4	<1	30

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 03...	25	.1	<.1	2	2	<1	<1	<1	<1	20	<3
JAN 26...	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	13	.4	.6	2	3	<1	<1	<1	<1	50	4
MAY 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	2	.3	.1	5	<1	1	1	<1	<1	30	7
SEP 23...	3	.2	<.1	6	3	1	1	<1	<1	20	10

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
DEC 03...	1115	--	0	.0	--	.0	--	.0	--	.0	--	.0
MAR 11...	1520	<.10	--	--	<.01	--	<.10	--	<.01	--	<.01	--
MAY 25...	1640	<.10	<1	<1.0	<.01	<.1	<.10	<1.0	<.01	<.1	<.01	<.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
DEC 03...	--	.0	--	--	.0	--	.0	--	.0	--	--	.0
MAR 11...	<.01	--	.00	<.01	--	<.01	--	<.01	--	.00	<.01	--
MAY 25...	<.01	<.1	.12	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
DEC 03...	--	.0	--	.0	--	--	.0	--	--	--	.0
MAR 11...	<.01	--	<.01	--	.00	<.01	--	.00	.00	<.01	--
MAY 25...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01	<.1

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
DEC 03...	--	--	--	.00	--	.0	--	--	--	--	--
MAR 11...	<.10	.00	<.10	--	<1	--	.00	<.01	<.01	<.01	<.01
MAY 25...	<.10	<.01	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01	<.01

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
DEC 03...	1115	136	.19
JAN 26...	1400	84	.07
MAR 11...	1520	53	.07
MAY 25...	1640	29	.51
JUL 21...	1410	27	.26
SEP 23...	1145	19	6.4

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 (0.40 km) north of the Pyramid, 1.6 mi (2.6 km) northeast of Anaho Island, and 13 mi (21 km) northwest of Nixon.

DRAINAGE AREA.--2,720 mi² (7,040 km²).

PERIOD OF RECORD.--1867-1925 (occasional altitudes in some years), June 1926 to current year (occasional altitudes in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (11). WDR NV-67-1: 1966.

GAGE.--Nonrecording gage. Datum of gage is 3,940.29 ft (1,201,000 m) 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 (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, altitudes were determined from Bench Mark N-21 using altitudes of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Altitudes are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Altitudes published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

EXTREMES FOR PERIOD OF RECORD.--Maximum altitude observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

MONTHEND ALTITUDES AND TOTAL CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	3,787.0	20,300,000	--
Oct. 31.	3,786.7	20,270,000	-30,000
Nov. 30.	3,786.7	20,270,000	0
Dec. 31.	3,787.1	20,310,000	+40,000
CAL YR 1981.	--	--	-160,000
Jan. 31.	3,787.4	20,340,000	+30,000
Feb. 28.	3,788.0	20,410,000	+70,000
Mar. 31.	3,788.6	20,470,000	+60,000
Apr. 30.	3,789.7	20,590,000	+120,000
May 31.	3,791.5	20,790,000	+200,000
June 30.	3,792.6	20,910,000	+120,000
July 31.	3,792.6	20,910,000	0
Aug. 31.	3,792.1	20,850,000	-60,000
Sep. 30.	3,791.8	20,820,000	-30,000
WTR YR 1981-82.	--	--	+520,000

NOTE.--Monthend 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 NE¼SE¼ sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 0.4 mi (0.6 km) upstream from mouth of Echo Lake outlet, 1.1 mi (1.8 km) southwest of Meyers, and 2.5 mi (4.0 km) upstream from Angora Creek.

DRAINAGE AREA.--33.1 mi² (85.7 km²), revised.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,321.89 ft (1,926.912 m), National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--22 years, 64.2 ft³/s (1.818 m³/s), 46,510 acre-ft/yr (57.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) Feb. 1, 1963, gage height, 12.41 ft (3.783 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Aug. 31 to Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2145	506 14.3	7.73 2.356	Apr. 11	1315	573 16.2	8.20 2.499
Nov. 24	0600	255 7.22	6.41 1.954	May 3	2230	471 13.3	7.75 2.362
Dec. 20	1515	1,090 30.9	9.55 2.911	May 26	2315	675 19.1	8.61 2.624
Feb. 16	0600	*1,240 35.1	9.83 2.996	June 19	0145	637 18.0	8.46 2.579

Minimum daily, 2.3 ft³/s (0.065 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	8.3	34	65	33	101	49	290	327	207	49	17
2	2.3	8.9	33	62	33	93	49	333	319	198	45	17
3	2.5	9.2	31	62	32	87	48	367	310	193	42	16
4	2.5	9.2	29	54	32	80	46	374	282	180	40	16
5	2.5	8.8	28	52	31	73	45	344	256	168	39	15
6	2.5	9.1	26	51	31	70	44	329	239	165	37	14
7	3.8	9.5	26	50	30	70	43	365	247	175	41	14
8	3.8	8.8	26	50	30	68	42	386	264	174	47	14
9	3.3	8.4	27	49	29	67	43	326	288	161	39	13
10	5.0	8.2	28	48	29	78	57	255	321	155	36	13
11	5.4	8.1	26	47	29	101	410	222	334	155	33	13
12	4.5	16	27	45	29	83	295	232	305	151	32	12
13	4.4	146	32	43	40	80	177	279	284	145	31	12
14	4.2	179	40	43	174	77	145	310	297	138	30	12
15	4.2	70	45	42	344	71	131	328	334	130	28	15
16	4.2	84	38	41	767	66	127	367	369	126	27	22
17	4.3	98	33	41	255	65	131	399	393	113	25	21
18	4.7	56	33	40	170	61	142	373	386	104	25	23
19	5.1	44	497	40	145	58	145	348	471	100	25	25
20	5.0	37	799	40	150	56	142	371	373	95	25	20
21	4.9	58	242	38	161	55	139	413	348	90	24	17
22	4.7	127	153	37	168	54	150	432	334	86	23	16
23	4.8	164	124	36	146	54	175	456	326	81	24	17
24	4.6	170	106	36	127	55	193	488	303	80	22	59
25	4.5	83	96	37	117	56	191	504	278	77	21	75
26	4.5	62	92	36	108	55	191	544	284	73	20	70
27	4.7	53	91	36	101	54	205	544	280	70	19	35
28	12	45	78	36	97	53	241	449	276	67	19	29
29	9.0	40	82	35	---	50	236	366	264	64	20	27
30	7.4	37	84	36	---	50	234	334	223	60	19	27
31	7.5	---	72	34	---	44	---	349	---	54	18	---
TOTAL	145.1	1665.5	3078	1362	3438	2085	4266	11477	9315	3835	925	696
MEAN	4.68	55.5	99.3	43.9	123	67.3	142	370	311	124	29.8	23.2
MAX	12	179	799	65	767	101	410	544	471	207	49	75
MIN	2.3	8.1	26	34	29	44	42	222	223	54	18	12
AC-FT	288	3300	6110	2700	6820	4140	8460	22760	18480	7610	1830	1380
CAL YR 1981	TOTAL	15509.1	MEAN	42.5	MAX 799	MIN 2.1	AC-FT	30760				
WTR YR 1982	TOTAL	42287.6	MEAN	116	MAX 799	MIN 2.3	AC-FT	83880				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.--Lat 38°55'22", long 119°59'23", in NW1/4 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 (1.6 km) northeast of South Lake Tahoe Post Office, and 1.4 mi (2.3 km) upstream from Lake Tahoe.

DRAINAGE AREA.--54.9 mi² (142.2 km²), revised.

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. Altitude of gage is 6,240 ft (1,902 m) from topographic map.

REMARKS.--Records good except those for winter months and Oct. 1 to Nov. 30, which are fair. Two small dams may cause slight regulation at times. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--5 years, 113 ft³/s (3,200 m³/s), 81,870 acre-ft/yr (101 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) Feb. 16, 1982, gage height, 8.12 ft (2.475 m); minimum daily, 1.7 ft³/s (0.048 m³/s) on many days during September 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 14	0600	546 15.5	4.43 1.350	Apr. 11	1700	1,820 51.5	6.77 2.063
Nov. 24	1115	472 13.4	4.15 1.265	May 4	0315	689 19.5	4.41 1.344
Dec. 20	1300	1,820 51.1	6.78 2.067	May 27	0645	940 26.6	5.15 1.570
Feb. 16	1000	*2,550 72.2	8.12 2.475	June 19	1045	842 23.8	4.89 1.490

Minimum daily, 5.3 ft³/s (0.15 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	15	81	135	63	196	104	448	490	287	55	20
2	5.3	15	76	128	62	201	103	514	468	258	53	20
3	6.0	16	71	122	61	176	101	566	454	236	50	20
4	6.2	16	66	117	61	161	98	610	393	227	49	21
5	6.2	16	62	111	60	147	97	575	319	212	46	21
6	6.4	16	59	107	60	140	96	534	288	202	44	20
7	7.4	17	56	103	60	134	97	557	296	198	44	20
8	7.1	16	57	100	60	134	100	617	316	180	58	19
9	7.5	16	56	96	60	132	102	553	352	181	49	19
10	9.5	16	66	92	66	173	138	449	409	195	44	18
11	10	16	59	90	64	268	1060	377	444	190	40	18
12	9.4	50	57	88	63	194	950	359	413	189	38	18
13	9.1	195	63	85	68	173	517	405	349	181	37	18
14	9.1	345	84	83	346	168	404	457	363	177	35	18
15	9.0	142	98	81	725	151	335	469	424	162	33	20
16	9.2	156	82	79	2010	137	291	515	485	146	32	34
17	9.4	218	68	77	820	132	282	576	551	131	30	30
18	9.8	136	74	75	469	124	283	582	565	119	30	27
19	10	103	762	74	357	115	276	524	694	115	30	31
20	11	98	1710	73	326	112	264	535	558	113	29	31
21	11	155	845	72	331	108	251	587	507	108	29	28
22	11	303	427	71	365	106	264	634	482	103	27	24
23	10	345	295	70	298	105	299	651	470	98	26	22
24	10	395	229	69	247	108	328	724	445	96	21	63
25	10	230	196	68	226	113	325	742	379	94	20	58
26	10	162	177	67	204	113	327	787	379	92	21	86
27	11	132	194	66	188	111	338	832	383	88	21	48
28	20	109	149	66	181	113	394	761	382	85	21	40
29	18	96	165	65	---	111	400	611	380	81	22	38
30	15	89	212	64	---	110	381	521	325	78	22	37
31	14	---	151	63	---	107	---	512	---	67	21	---
TOTAL	303.1	3634	6747	2657	7901	4373	9005	17584	12763	4689	1077	887
MEAN	9.78	121	218	85.7	282	141	300	567	425	151	34.7	29.6
MAX	20	395	1710	135	2010	268	1060	832	694	287	58	86
MIN	5.3	15	56	63	60	105	96	359	288	67	20	18
AC-FT	601	7210	13380	5270	15670	8670	17860	34880	25320	9300	2140	1760
CAL YR 1981	TOTAL	25996.0	MEAN	71.2	MAX	1710	MIN	1.7	AC-FT	51560		
WTR YR 1982	TOTAL	71620.1	MEAN	196	MAX	2010	MIN	5.3	AC-FT	142100		

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: March 1981 to current year.

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to current year.

WATER TEMPERATURES: March 1981 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 187 micromhos Sept. 25, 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 and January 1981.

SEDIMENT DISCHARGE: Maximum daily, 377 tons (342 metric tons) Apr. 11, 1982; minimum daily, 0 ton (0 metric ton) on several days during October 1973 and January 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 171 micromhos Sept. 25; minimum recorded, 16 micromhos June 18.

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

SEDIMENT CONCENTRATIONS: Maximum daily mean, 216 mg/L Nov. 14; minimum daily mean, 1 mg/L Aug. 16.

SEDIMENT DISCHARGE: Maximum daily, 377 tons (342 metric tons) Apr. 11; minimum daily, .07 ton (.06 metric ton) Aug. 16.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) * WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	90	60	45	70	74	63	38	21	22	32	55
2	105	90	61	47	70	72	64	38	21	23	33	58
3	105	88	60	47	72	73	68	37	21	24	32	57
4	102	84	60	47	73	75	65	37	21	25	31	59
5	102	82	59	47	78	75	62	37	22	25	33	59
6	102	80	56	47	90	74	60	35	23	25	33	61
7	98	79	55	48	74	74	60	34	23	24	33	61
8	97	79	55	51	73	73	62	33	24	22	33	63
9	97	79	52	51	74	74	62	31	21	21	36	63
10	95	79	50	53	75	73	63	31	20	23	37	64
11	91	80	51	53	77	75	57	31	21	23	39	65
12	93	76	53	55	77	76	50	31	23	21	39	66
13	95	64	54	56	85	76	50	31	24	23	40	66
14	93	58	50	56	76	75	51	28	22	25	40	68
15	93	61	50	57	90	74	51	25	22	24	40	67
16	94	55	49	58	81	72	51	25	19	25	41	63
17	95	60	52	58	64	72	50	25	18	25	42	61
18	95	63	53	59	68	71	50	26	17	26	39	61
19	95	69	43	59	70	71	50	25	19	26	43	59
20	95	74	37	61	69	70	50	23	17	26	43	58
21	93	74	33	60	69	69	49	23	18	24	44	59
22	93	65	35	61	69	69	47	23	19	23	47	62
23	92	61	37	61	70	68	45	23	19	23	49	63
24	91	65	40	62	69	69	44	23	19	24	50	54
25	91	67	43	62	69	67	43	23	18	25	51	71
26	91	54	44	62	70	67	42	23	20	25	49	46
27	92	52	47	63	72	66	42	23	19	28	51	62
28	77	53	44	64	73	65	39	23	19	27	52	65
29	77	54	45	66	---	63	39	23	19	29	53	67
30	85	58	46	70	---	64	39	22	20	30	53	68
31	91	---	47	70	---	63	---	21	---	31	55	---
MONTH	94	70	49	57	74	71	52	28	20	25	42	62

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	9.5	7.0	3.5	4.0	0.0	0.0	0.0	0.5	0.5	3.5	1.5
2	14.5	11.0	7.0	3.5	3.5	0.0	0.0	0.0	0.5	0.5	1.0	0.5
3	14.0	9.5	7.0	3.5	2.5	0.0	0.0	0.0	1.0	0.5	4.5	0.5
4	12.5	8.0	7.0	4.0	3.0	0.0	0.5	0.5	2.0	0.5	5.0	0.5
5	13.0	7.5	6.5	4.0	4.0	0.5	0.5	0.5	1.5	1.0	4.5	0.5
6	12.5	8.0	7.0	5.5	3.5	1.0	0.5	0.5	1.5	0.5	5.0	0.5
7	10.5	7.0	7.0	4.5	5.0	1.0	0.5	0.5	0.5	0.5	3.5	1.0
8	9.5	6.0	6.5	4.0	4.0	0.5	0.5	0.5	3.0	0.5	7.0	1.5
9	11.0	7.0	6.5	4.0	3.5	1.5	0.5	0.5	2.5	0.5	5.0	1.5
10	9.0	7.5	6.0	4.5	3.5	1.0	0.5	0.5	2.0	0.5	7.5	3.0
11	8.0	5.5	6.0	3.5	3.5	0.0	0.5	0.5	2.5	1.0	5.0	2.0
12	6.0	4.0	6.0	3.5	1.5	0.0	0.5	0.5	2.5	1.0	7.5	1.0
13	5.5	3.5	4.5	3.0	3.0	0.0	0.5	0.5	3.5	2.0	7.0	1.0
14	4.5	2.5	4.0	3.0	4.5	2.0	0.5	0.5	2.0	0.5	5.5	2.5
15	5.5	4.0	6.0	3.0	3.5	2.5	0.5	0.5	1.5	0.5	5.5	1.0
16	8.0	4.0	5.5	4.0	3.5	0.5	0.5	0.5	1.0	0.5	2.5	0.5
17	9.5	5.5	4.5	2.0	4.0	0.5	0.5	0.5	2.0	0.5	3.0	0.5
18	11.0	7.0	4.0	1.0	3.5	2.0	0.5	0.5	3.0	0.5	3.5	0.5
19	10.0	7.5	4.5	1.5	4.0	3.0	0.5	0.5	4.5	1.5	5.5	0.5
20	10.5	7.5	6.0	2.5	4.0	0.5	0.5	0.5	5.0	1.5	5.5	0.5
21	10.5	7.5	5.0	3.5	2.0	0.0	0.5	0.5	5.0	1.5	6.5	0.5
22	9.5	6.5	5.0	3.5	1.5	0.5	0.5	0.5	5.0	2.0	7.0	0.5
23	10.0	6.5	4.5	4.0	2.0	0.5	0.5	0.5	4.5	0.5	7.5	0.5
24	10.0	6.5	5.0	3.5	2.5	0.5	0.5	0.5	5.0	0.5	8.5	1.5
25	10.0	6.5	4.0	1.0	3.0	1.0	0.5	0.5	5.5	1.0	8.5	3.0
26	10.5	7.5	1.0	0.5	3.5	1.5	0.5	0.5	3.5	1.0	8.0	3.0
27	9.5	6.5	1.5	0.0	3.0	1.0	0.5	0.5	6.5	1.5	8.5	2.5
28	6.5	2.5	2.5	0.0	2.0	0.5	0.5	0.5	5.5	1.5	4.5	0.5
29	4.0	0.5	2.5	0.0	1.5	0.5	0.5	0.5	---	---	0.0	0.0
30	5.0	0.5	2.5	0.0	2.0	1.0	---	0.5	---	---	0.0	0.0
31	6.5	2.5	---	---	1.5	0.0	0.5	0.5	---	---	0.0	0.0
MONTH	14.5	0.5	7.0	0.0	5.0	0.0	0.5	0.0	6.5	0.5	8.5	0.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	9.5	2.5	11.0	4.5	13.5	8.5	19.0	11.5	17.5	14.0
2	0.0	0.0	9.0	3.5	11.0	4.5	14.5	9.0	18.5	10.5	18.0	14.0
3	0.0	0.0	8.5	3.5	10.5	4.5	12.5	9.0	19.0	10.5	18.0	15.0
4	0.0	0.0	8.0	3.5	10.5	4.5	13.5	8.5	19.5	11.0	19.0	14.0
5	0.5	0.0	8.0	3.5	10.0	4.5	14.0	8.0	20.0	11.0	18.5	14.5
6	0.5	0.0	9.0	3.0	11.0	4.5	15.5	9.0	20.0	12.5	17.5	15.0
7	2.5	0.0	10.0	3.0	11.5	5.0	14.5	10.0	17.5	14.0	17.5	13.0
8	5.5	0.0	8.0	3.0	12.0	5.5	15.0	10.0	20.0	11.5	18.5	14.5
9	7.0	0.0	6.5	3.0	12.5	5.5	15.0	8.5	20.5	13.0	18.5	15.0
10	4.5	1.5	6.5	2.0	12.5	6.0	16.0	9.5	19.5	12.0	17.0	14.0
11	1.5	0.0	9.0	2.0	11.0	6.5	16.5	10.5	19.5	11.5	16.0	12.5
12	2.0	0.0	10.5	2.5	10.5	6.5	15.0	11.0	20.5	12.0	16.0	12.0
13	4.0	0.5	10.0	3.5	9.5	6.0	17.0	11.0	20.5	12.5	16.5	13.0
14	5.5	1.0	9.5	4.0	13.0	6.5	17.0	11.0	20.5	12.0	16.0	13.0
15	7.0	0.5	10.0	3.5	14.0	7.0	17.0	11.0	18.5	12.0	13.0	9.0
16	8.0	0.5	10.5	3.5	14.0	8.0	17.0	11.0	20.5	12.5	10.5	7.5
17	9.0	0.5	10.0	4.0	13.0	8.5	16.5	9.5	21.0	13.0	12.0	9.5
18	9.0	1.0	9.5	3.5	12.5	8.5	17.5	10.0	26.0	14.5	12.5	10.0
19	9.0	1.0	10.0	3.5	11.5	8.0	18.0	11.0	18.5	14.5	12.5	9.5
20	8.5	1.0	10.5	4.0	12.0	8.0	18.5	11.0	19.0	14.0	13.5	8.0
21	9.0	0.5	10.5	4.5	13.5	8.0	19.0	11.0	21.5	15.5	15.0	10.0
22	9.5	1.0	9.0	6.0	13.5	8.5	19.0	11.5	20.0	16.0	15.0	10.0
23	10.0	2.0	9.5	6.0	14.0	8.5	19.0	12.5	20.5	16.0	14.0	10.5
24	9.5	2.0	9.5	6.5	12.0	9.5	20.0	13.0	23.5	14.5	13.5	12.0
25	8.5	2.0	9.0	6.5	14.0	8.5	20.0	12.5	20.5	15.5	14.0	11.5
26	7.5	3.0	9.5	5.5	14.5	9.0	20.0	13.0	19.0	16.0	15.0	10.0
27	10.0	2.0	10.0	5.5	12.5	9.5	19.0	13.5	19.0	14.5	11.5	8.5
28	10.0	2.5	9.0	5.0	12.0	9.5	21.0	13.0	18.5	15.5	12.5	6.5
29	8.5	2.0	9.0	5.0	10.0	8.0	21.5	13.0	16.5	14.0	9.5	5.0
30	10.0	2.0	11.0	4.5	11.0	8.5	21.0	13.0	17.5	12.5	11.5	5.5
31	---	---	10.5	5.0	---	---	19.5	12.0	18.0	13.5	---	---
MONTH	10.0	0.0	11.0	2.0	14.5	4.5	21.5	8.0	26.0	10.5	19.0	5.0

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	5.5	10	.15	15	10	.41	81	9	2.0
2	5.3	10	.14	15	12	.49	76	8	1.6
3	6.0	10	.16	16	12	.52	71	7	1.3
4	6.2	10	.17	16	12	.52	66	6	1.1
5	6.2	10	.17	16	12	.52	62	5	.84
6	6.4	9	.16	16	12	.52	59	4	.64
7	7.4	8	.16	17	12	.55	56	3	.45
8	7.1	8	.15	16	12	.52	57	5	.77
9	7.5	9	.18	16	12	.52	56	6	.91
10	9.5	10	.26	16	12	.52	66	10	1.8
11	10	10	.27	16	15	.52	59	9	1.4
12	9.4	10	.25	50	38	5.1	57	8	1.2
13	9.1	10	.25	195	182	96	63	10	1.7
14	9.1	10	.25	345	216	267	84	11	2.5
15	9.0	10	.24	142	25	9.6	98	12	3.2
16	9.2	11	.27	156	30	13	82	5	1.1
17	9.4	12	.30	218	87	60	68	4	.73
18	9.8	12	.32	136	45	17	74	7	1.4
19	10	12	.32	103	40	11	762	85	176
20	11	12	.36	98	60	16	1710	47	217
21	11	12	.36	155	70	43	845	52	119
22	11	12	.36	303	66	64	427	58	67
23	10	12	.32	345	67	66	295	48	38
24	10	12	.32	395	74	84	229	29	18
25	10	20	.54	230	16	9.9	196	25	13
26	10	24	.65	162	10	4.4	177	25	12
27	11	24	.71	132	6	2.1	194	30	16
28	20	24	1.3	109	6	1.8	149	25	10
29	18	15	.73	96	8	2.1	165	30	13
30	15	10	.41	89	9	2.2	212	30	17
31	14	10	.38	---	---	---	151	22	9.0
TOTAL	303.1	---	10.61	3634	---	779.81	6747	---	749.64
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	135	15	5.5	63	11	1.9	196	18	9.5
2	128	15	5.2	62	12	2.0	201	12	6.5
3	122	15	4.9	61	16	2.6	176	15	7.1
4	117	15	4.7	61	12	2.0	161	20	8.7
5	111	15	4.5	60	8	1.3	147	25	9.9
6	107	15	4.3	60	6	.97	140	20	7.6
7	103	15	4.2	60	5	.81	134	14	5.1
8	100	15	4.1	60	3	.49	134	10	3.6
9	96	15	3.9	60	3	.49	132	10	3.6
10	92	15	3.7	66	3	.53	173	40	19
11	90	15	3.6	64	3	.52	268	37	27
12	88	15	3.6	63	3	.51	194	15	7.9
13	85	14	3.2	68	20	3.7	173	15	7.0
14	83	14	3.1	346	204	206	168	15	6.8
15	81	14	3.1	725	181	339	151	15	6.1
16	79	14	3.0	2010	62	339	137	15	5.5
17	77	14	2.9	820	50	111	132	15	5.3
18	75	14	2.8	469	48	61	124	15	5.0
19	74	14	2.8	357	53	51	115	15	4.7
20	73	14	2.8	326	30	26	112	15	4.5
21	72	14	2.7	331	25	22	108	15	4.4
22	71	14	2.7	365	25	25	106	12	3.4
23	70	14	2.6	298	22	18	105	9	2.6
24	69	14	2.6	247	15	10	108	6	1.7
25	68	14	2.6	226	15	9.2	113	5	1.5
26	67	14	2.5	204	17	9.4	113	5	1.5
27	66	13	2.3	188	12	6.1	111	7	2.1
28	66	13	2.3	181	10	4.9	113	12	3.7
29	65	12	2.1	---	---	---	111	18	5.4
30	64	12	2.1	---	---	---	110	20	5.9
31	63	11	1.9	---	---	---	107	23	6.6
TOTAL	2657	---	102.3	7901	---	1255.42	4373	---	199.2

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

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	104	28	7.9	448	50	60	490	40	53
2	103	43	12	514	72	100	468	46	58
3	101	53	14	566	77	118	454	40	49
4	98	56	15	610	72	119	393	38	40
5	97	60	16	575	53	82	319	33	28
6	96	60	16	534	38	55	288	26	20
7	97	64	17	557	35	53	296	28	22
8	100	65	18	617	44	73	316	28	24
9	102	62	17	553	31	46	352	39	37
10	138	70	26	449	26	32	409	48	53
11	1060	155	377	377	25	25	444	47	56
12	950	38	97	359	28	27	413	42	47
13	517	38	53	405	43	47	349	38	36
14	404	36	39	457	42	52	363	42	41
15	335	28	25	469	38	48	424	42	48
16	291	23	18	515	47	65	485	43	56
17	282	25	19	576	55	86	551	43	64
18	283	40	31	582	51	80	565	46	70
19	276	31	23	524	39	55	694	60	112
20	264	28	20	535	42	61	558	31	47
21	251	28	19	587	45	71	507	30	41
22	264	28	20	634	52	89	482	30	39
23	299	30	24	651	53	93	470	28	36
24	328	31	27	724	51	100	445	27	32
25	325	42	37	742	47	94	379	26	27
26	327	41	36	787	47	100	379	26	27
27	338	38	35	832	60	135	383	26	27
28	394	47	50	761	50	103	382	22	23
29	400	51	55	611	47	78	380	19	19
30	381	42	43	521	43	60	325	17	15
31	---	---	---	512	40	55	---	---	---
TOTAL	9005	---	1206.9	17584	---	2262	12763	---	1247
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	287	15	12	55	7	1.0	20	2	.11
2	258	15	10	53	4	.57	20	2	.11
3	236	15	9.6	50	4	.54	20	2	.11
4	227	15	9.2	49	4	.53	21	2	.11
5	212	16	9.2	46	4	.50	21	2	.11
6	202	17	9.3	44	4	.48	20	2	.11
7	198	19	10	44	4	.48	20	2	.11
8	180	18	8.7	58	4	.63	19	2	.10
9	181	18	8.8	49	4	.53	19	2	.10
10	195	18	9.5	44	3	.36	18	2	.10
11	190	18	9.2	40	3	.32	18	2	.10
12	189	18	9.2	38	2	.21	18	2	.10
13	181	18	8.8	37	2	.20	18	2	.10
14	177	20	9.6	35	2	.19	18	2	.10
15	162	15	6.6	33	2	.18	20	8	.43
16	146	14	5.5	32	1	.07	34	5	.46
17	131	12	4.2	30	2	.16	30	3	.24
18	119	12	3.9	30	2	.16	27	3	.22
19	115	12	3.7	30	2	.16	31	3	.25
20	113	12	3.7	29	2	.16	31	3	.25
21	108	12	3.5	29	2	.16	28	3	.23
22	103	11	3.1	27	2	.15	24	3	.19
23	98	11	2.9	26	2	.14	22	3	.18
24	96	11	2.9	21	2	.11	63	27	5.2
25	94	11	2.8	20	2	.11	58	21	3.1
26	92	11	2.7	21	2	.11	86	31	9.1
27	88	10	2.4	21	2	.11	48	5	.65
28	85	10	2.3	21	2	.11	40	3	.32
29	81	10	2.2	22	2	.12	38	3	.31
30	78	10	2.1	22	2	.12	37	3	.30
31	67	10	1.8	21	2	.11	---	---	---
TOTAL	4689	---	189.4	1077	---	8.78	887	---	22.90

PYRAMID AND WINNEMUCCA LAKES BASIN

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT											
28...	1700	20	5.0	24	1.3	98	--	--	--	--	--
NOV											
13...	2025	360	4.0	472	459	53	--	--	--	--	--
16...	1255	157	5.0	17	7.2	34	--	--	--	--	--
21...	2250	384	4.0	164	170	37	--	--	--	--	--
23...	0920	393	4.5	84	89	22	--	--	--	--	--
23...	1320	397	4.5	62	66	21	--	--	--	--	--
24...	1040	470	3.0	63	80	22	--	--	--	--	--
DEC											
19...	1045	818	3.0	134	296	44	--	--	--	--	--
19...	1525	1040	3.5	100	281	27	--	--	--	--	--
20...	0045	1380	3.0	53	197	48	--	--	--	--	--
21...	0040	1330	.5	44	158	32	--	--	--	--	--
FEB											
14...	1115	390	.0	303	319	27	--	--	--	--	--
15...	1945	1030	.0	156	434	40	--	--	--	--	--
16...	0855	2530	.0	49	335	54	--	--	--	--	--
16...	1245	2350	.0	56	355	62	66	74	84	100	--
17...	1345	760	1.5	53	109	58	--	--	--	--	--
18...	1425	448	3.0	45	54	32	--	--	--	--	--
MAR											
05...	1150	156	.5	26	11	32	--	--	--	--	--
10...	2300	239	4.0	49	32	40	--	--	--	--	--
11...	1050	274	2.5	40	30	29	--	--	--	--	--
APR											
11...	0640	686	.5	193	357	43	--	--	--	--	--
11...	1310	1320	.5	81	289	56	62	71	87	98	100
11...	1900	1580	.5	68	290	42	--	--	--	--	--
12...	1035	916	.0	34	84	59	--	--	--	--	--
12...	1840	760	2.5	49	101	52	--	--	--	--	--
20...	1110	255	2.5	21	14	24	33	57	83	100	--
29...	1640	371	8.0	44	44	12	--	--	--	--	--
MAY											
02...	0135	501	5.0	105	142	21	--	--	--	--	--
05...	1510	552	7.5	35	52	31	--	--	--	--	--
09...	0530	591	3.0	28	45	25	--	--	--	--	--
21...	1300	586	6.0	36	57	26	--	--	--	--	--
24...	1810	660	10.5	29	52	42	--	--	--	--	--
26...	0940	842	5.0	24	55	53	--	--	--	--	--
28...	2040	649	8.5	50	88	28	--	--	--	--	--

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
JUN						
02...	1355	476	7.5	54	69	19
03...	1930	419	9.5	34	38	19
10...	1220	407	8.0	37	41	26
23...	1505	469	12.5	28	35	28
JUL						
14...	1445	180	15.5	26	13	35
SEP						
24...	1835	85	11.0	19	4.4	50

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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 (61 m) north of Cathedral Creek, 1.5 mi (2.4 km) south of Fallen Leaf Dam, 2.9 mi (4.7 km) southwest of Camp Richardson, and 3.7 mi (6.0 km) west of South Lake Tahoe Post Office.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.41 ft (1.649 m) Dec. 20; minimum, 1.89 ft (0.576 m) Oct. 26.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.07	2.18	2.84	2.98	2.40	2.86	2.83	3.16	3.52	3.54	4.25	3.78
2	2.05	2.18	2.77	2.93	2.39	2.92	2.84	3.25	3.45	3.63	4.26	3.77
3	2.04	2.19	2.73	2.88	2.38	2.87	2.86	3.34	3.40	3.76	4.27	3.75
4	2.02	2.19	2.67	3.17	2.37	2.82	2.82	3.38	3.37	3.89	4.27	3.73
5	2.01	2.19	2.62	3.11	2.35	2.77	2.77	3.37	3.32	4.02	4.29	3.70
6	1.98	2.20	2.56	3.00	2.34	2.73	2.73	3.35	3.27	4.12	4.31	3.69
7	2.03	2.21	2.54	2.91	2.33	2.69	2.68	3.38	3.27	4.25	4.34	3.68
8	2.00	2.21	2.52	2.84	2.32	2.66	2.64	3.42	3.33	4.36	4.30	3.67
9	1.97	2.22	2.52	2.78	2.31	2.63	2.61	3.42	3.40	4.38	4.26	3.64
10	2.06	2.22	2.50	2.73	2.30	2.73	2.89	3.34	3.50	4.35	4.24	3.62
11	2.06	2.22	2.49	2.68	2.30	2.80	3.96	3.24	3.60	4.32	4.23	3.60
12	2.05	2.44	2.54	2.63	2.29	2.78	3.95	3.17	3.64	4.33	4.24	3.58
13	2.05	3.23	2.53	2.60	2.45	2.76	3.70	3.17	3.67	4.36	4.23	3.57
14	2.04	3.36	2.54	2.58	2.93	2.75	3.46	3.18	3.77	4.33	4.22	3.55
15	2.02	3.27	2.59	2.54	3.83	2.72	3.26	3.21	3.98	4.29	4.20	3.62
16	2.00	3.25	2.59	2.51	4.37	2.70	3.13	3.27	4.21	4.25	4.18	3.65
17	1.98	3.30	2.59	2.47	4.12	2.69	3.04	3.35	4.33	4.24	4.17	3.60
18	1.97	3.17	2.67	2.51	3.74	2.65	2.99	3.38	4.35	4.25	4.15	3.54
19	1.97	3.05	4.46	2.50	3.47	2.61	2.95	3.38	4.32	4.26	4.15	3.53
20	1.96	2.94	5.41	2.54	3.29	2.59	2.92	3.38	4.19	4.28	4.12	3.52
21	1.95	3.26	4.85	2.55	3.18	2.56	2.90	3.44	4.11	4.30	4.08	3.52
22	1.95	3.32	4.34	2.53	3.14	2.54	2.90	3.52	4.02	4.33	4.05	3.51
23	1.94	3.74	3.92	2.51	3.08	2.51	2.92	3.60	3.93	4.36	4.02	3.52
24	1.93	3.85	3.59	2.49	3.02	2.51	2.96	3.68	3.85	4.41	3.98	3.67
25	1.92	3.60	3.34	2.46	2.95	2.50	2.98	3.77	3.73	4.43	3.93	3.96
26	1.89	3.38	3.17	2.50	2.89	2.49	3.00	3.87	3.68	4.40	3.88	3.98
27	1.93	3.22	3.06	2.48	2.85	2.49	3.02	3.98	3.63	4.38	3.86	3.82
28	2.14	3.07	2.96	2.49	2.79	2.56	3.07	3.93	3.62	4.37	3.85	3.63
29	2.18	2.97	3.01	2.48	---	2.65	3.09	3.81	3.63	4.38	3.82	3.53
30	2.18	2.89	2.96	2.45	---	2.69	3.11	3.67	3.57	4.33	3.80	3.45
31	2.18	---	3.02	2.43	---	2.86	---	3.59	---	4.26	3.79	---
MAX	2.18	3.85	5.41	3.17	4.37	2.92	3.96	3.98	4.35	4.43	4.34	3.98
MIN	1.89	2.18	2.49	2.43	2.29	2.49	2.61	3.16	3.27	3.54	3.79	3.45
CAL	YR 1981	MAX 5.41	MIN 1.89									
WTR	YR 1982	MAX 5.41	MIN 1.89									

PYRAMID AND WINNEMUCCA LAKES BASIN

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE¼NW¼ sec.2, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank 0.1 mi (0.2 km) downstream from Fallen Leaf Lake outlet, and 1.4 mi (2.3 km) southwest of Camp Richardson.

DRAINAGE AREA.--16.7 mi² (43.3 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft (1,938.857 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Fallen Leaf Lake Dam (station 10336625).

AVERAGE DISCHARGE (unadjusted).--14 years, 45.6 ft³/s (1.300 m³/s), 33,250 acre-ft/yr (41.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft³/s (43.3 m³/s) Jan. 14, 1980, gage height, 6.33 ft (1.929 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 4-7, 1970, Sept. 4-6, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft³/s (28.6 m³/s) Dec. 20, gage height, 5.82 ft (1.774 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	9.9	68	87	23	68	64	132	212	100	13	11
2	1.9	9.4	60	83	22	75	65	154	199	42	6.6	11
3	2.0	9.3	54	74	21	72	66	180	171	25	6.4	10
4	2.0	9.0	50	98	20	63	66	200	150	23	6.3	9.5
5	2.0	9.2	46	132	20	57	60	204	142	23	5.7	9.3
6	2.0	9.7	42	103	19	52	54	188	134	25	7.4	9.3
7	2.0	9.9	37	81	18	48	48	175	95	29	19	8.7
8	9.5	10	34	68	17	45	43	186	85	42	49	7.3
9	11	9.6	34	58	16	41	39	188	98	103	36	6.4
10	11	9.2	34	51	16	43	41	177	119	125	20	6.3
11	9.6	9.2	32	47	15	57	218	158	133	120	11	6.1
12	9.1	15	33	42	15	58	353	141	143	84	11	6.1
13	10	52	35	38	17	55	314	135	147	81	12	5.6
14	9.9	193	34	35	45	54	262	137	105	115	13	5.4
15	9.6	187	38	32	135	53	202	141	79	107	13	5.6
16	9.1	165	39	30	384	49	155	151	105	97	15	22
17	9.1	175	38	29	398	47	122	171	194	81	19	36
18	8.6	147	39	27	324	44	103	180	288	60	21	48
19	8.1	113	238	29	258	41	93	181	339	54	25	29
20	8.1	89	827	29	198	38	86	182	318	43	33	21
21	7.7	93	771	33	157	35	82	188	300	32	33	14
22	7.9	173	484	31	136	33	79	201	280	32	33	11
23	7.3	259	368	29	123	32	80	214	263	28	32	11
24	7.3	349	286	28	106	30	86	229	247	22	32	29
25	5.0	312	216	28	92	30	92	242	231	50	32	74
26	2.7	246	158	28	82	29	97	260	222	72	27	162
27	3.7	182	126	27	69	30	100	280	214	66	16	168
28	9.0	132	94	27	65	32	109	283	209	48	14	144
29	12	102	91	26	---	38	117	263	194	44	14	101
30	11	83	89	25	---	46	121	240	179	71	12	76
31	9.9	---	84	24	---	54	---	225	---	53	11	---
TOTAL	219.9	3171.4	4579	1479	2811	1449	3417	5986	5595	1897	598.4	1063.6
MEAN	7.09	106	148	47.7	100	46.7	114	193	187	61.2	19.3	35.5
MAX	12	349	827	132	398	75	353	283	339	125	49	168
MIN	1.8	9.0	32	24	15	29	39	132	79	22	5.7	5.4
AC-FT	436	6290	9080	2930	5580	2870	6780	11870	11100	3760	1190	2110
CAL YR 1981	TOTAL	14834.46	MEAN	40.6	MAX	827	MIN	.97	AC-FT	29420		
WTR YR 1982	TOTAL	32266.30	MEAN	88.4	MAX	827	MIN	1.8	AC-FT	64000		

10336645 GENERAL CREEK NEAR MEEKS BAY, CA

LOCATION.--Lat 39°03'07", long 120°07'03", in NE¼NE¼ sec.20, T.14 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, on right bank 200 ft (60 m) upstream from State Highway 89, 1.1 mi (1.8 km) north of Meeks Bay, and 0.4 mi (0.6 km) upstream from Lake Tahoe.

DRAINAGE AREA.--7.44 mi² (19.3 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 6,250.38 ft (1,905.116 m), 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 (21.7 m³/s) Dec. 20, 1981, gage height 5.43 ft (0.655 m); minimum daily, 0.53 ft³/s (0.015 m³/s) Sept. 10, 1981

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2345	357 10.1	3.36 1.024	Apr. 11	1800	189 5.35	2.55 0.777
Nov. 24	0545	579 16.4	4.52 1.378	May 7	2200	160 4.53	2.37 .722
Dec. 20	0245	*765 21.7	5.43 1.655	May 26	2145	254 7.19	2.91 .887
Feb. 16	0800	542 15.3	4.34 1.323	June 19	0100	196 5.55	2.59 .789

Minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	1.1	22	21	9.6	28	13	91	89	26	2.5	1.7
2	.70	1.1	21	19	9.6	27	13	103	85	21	2.5	1.6
3	.76	1.1	20	18	9.4	24	12	111	85	19	2.5	1.6
4	.77	1.1	18	18	9.1	22	12	109	77	17	2.4	1.6
5	.77	1.1	16	17	9.0	21	12	102	68	15	2.4	1.6
6	.78	1.1	15	17	8.8	20	13	103	62	14	2.4	1.6
7	1.6	1.5	14	17	8.7	19	13	122	67	13	2.5	1.6
8	1.1	1.5	13	16	8.7	19	13	123	71	13	2.7	1.5
9	1.0	1.4	14	16	8.7	19	13	94	76	12	2.4	1.5
10	1.8	1.3	16	16	8.4	25	16	66	83	11	2.3	1.6
11	1.5	1.4	15	16	8.1	41	110	59	82	9.8	2.2	1.6
12	1.2	4.4	14	16	8.0	30	155	68	69	9.1	2.2	1.5
13	1.2	60	14	14	9.8	27	112	87	60	8.6	2.2	1.5
14	1.3	112	22	13	51	26	77	99	64	7.9	2.0	1.5
15	1.2	44	27	13	133	23	50	107	73	6.8	2.0	2.2
16	1.3	56	24	13	414	21	37	116	78	6.2	1.9	3.4
17	1.2	65	18	13	135	19	33	126	76	5.7	1.9	2.4
18	1.1	32	17	12	69	18	33	112	77	5.4	1.9	2.1
19	1.0	24	434	12	47	17	34	97	104	5.0	2.1	2.3
20	1.0	20	588	12	43	17	34	106	61	4.7	2.1	2.1
21	1.0	67	111	11	46	16	33	123	51	4.5	2.0	1.8
22	1.0	119	62	11	57	17	36	129	42	4.2	1.9	1.7
23	1.0	228	48	11	51	17	44	144	37	4.0	1.9	1.8
24	1.1	290	38	11	39	17	52	158	34	4.0	1.8	4.8
25	1.0	69	34	11	33	18	55	170	36	3.8	1.8	16
26	1.0	43	32	11	31	17	58	168	29	3.6	1.8	17
27	1.3	35	36	11	28	16	63	149	26	3.4	1.7	8.2
28	2.9	29	28	11	26	15	75	112	24	3.3	1.9	6.0
29	1.5	27	28	9.9	---	14	75	92	27	3.0	2.0	5.6
30	1.1	24	36	9.6	---	13	71	87	26	2.8	1.9	5.5
31	1.1	---	26	9.6	---	13	---	95	---	2.6	1.8	---
TOTAL	36.03	1362.1	1821	426.1	1318.9	636	1367	3428	1839	269.4	65.6	104.9
MEAN	1.16	45.4	58.7	13.7	47.1	20.5	45.6	111	61.3	8.69	2.12	3.50
MAX	2.9	290	588	21	414	41	155	170	104	26	2.7	17
MIN	.70	1.1	13	9.6	8.0	13	12	59	24	2.6	1.7	1.5
AC-FT	71	2700	3610	845	2620	1260	2710	6800	3650	534	130	208
CAL YR 1981	TOTAL	5736.09	MEAN	15.7	MAX	588	MIN	.53	AC-FT	11380		
WTR YR 1982	TOTAL	12674.03	MEAN	34.7	MAX	588	MIN	.70	AC-FT	25140		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: October 1980 to current year.

WATER TEMPERATURES: October 1980 to current year.

SEDIMENT RECORDS: October 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to current year.

WATER TEMPERATURES: October 1980 to current year.

SEDIMENT RECORDS: October 1980 to current year.

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 (415 metric tons) Dec. 20, 1981; minimum daily, 0 ton (0 metric ton) on many days in most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 63 micromhos Oct. 1, 2; minimum recorded, 7 micromhos on several days during May.

WATER TEMPERATURES: Maximum recorded, 16.5°C July 28-30; minimum recorded, 0°C on many days.

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

SEDIMENT DISCHARGE: Maximum daily, 457 tons (415 metric tons) Dec. 20; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

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

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.0	3.5	1.5	1.5	1.0	1.0	0.5	1.0	0.5	2.0	0.5
2	10.0	8.0	3.5	1.5	1.5	1.0	0.5	0.0	1.5	1.0	0.5	0.0
3	10.0	8.0	3.5	1.5	1.0	0.5	0.5	0.0	1.5	1.0	1.0	0.0
4	9.0	6.0	4.0	1.5	1.5	1.0	1.0	0.0	1.0	0.5	1.5	0.5
5	8.5	5.5	4.0	2.0	1.5	1.0	1.0	0.0	0.5	0.5	1.5	0.0
6	8.5	5.5	4.5	3.0	2.0	1.5	0.5	0.0	0.5	0.5	1.5	0.0
7	8.0	6.0	4.0	2.5	2.0	1.5	0.0	0.0	0.5	0.5	1.5	0.5
8	7.0	5.0	4.0	2.0	2.0	1.5	0.0	0.0	1.0	0.5	2.5	1.0
9	8.0	5.0	3.5	2.0	2.5	1.5	0.0	0.0	1.0	1.0	2.0	1.0
10	6.5	6.0	4.0	2.5	2.0	1.5	0.0	0.0	1.0	0.5	2.5	1.5
11	6.5	4.5	4.0	2.5	1.5	1.0	0.5	0.0	0.5	0.5	2.0	0.5
12	4.5	3.5	3.5	3.0	1.0	0.5	0.5	0.5	1.0	0.0	2.5	1.0
13	5.0	3.5	3.5	2.0	2.0	1.0	0.5	0.5	1.5	1.0	2.5	1.0
14	4.5	2.0	2.0	1.0	2.0	1.5	1.0	0.5	1.0	0.0	2.0	1.0
15	4.5	3.5	3.0	2.0	2.5	1.5	1.0	0.5	0.5	0.0	2.0	0.5
16	5.0	3.0	3.0	2.5	1.5	1.0	1.0	0.5	0.0	0.0	1.0	0.0
17	5.5	3.0	3.0	1.5	1.5	1.0	1.0	1.0	0.5	0.0	1.0	0.0
18	6.0	3.5	1.5	1.0	2.5	1.5	1.0	0.5	1.5	0.0	1.5	0.5
19	6.0	3.5	2.0	1.0	2.5	0.5	0.5	0.5	2.0	1.0	1.5	0.0
20	6.0	3.5	2.5	1.5	2.0	0.5	0.5	0.0	2.0	1.0	1.5	0.0
21	6.0	3.5	2.5	1.5	1.5	0.0	0.5	0.0	2.0	1.0	2.0	0.0
22	5.5	3.5	3.0	1.5	1.0	0.5	0.5	0.0	2.0	1.0	2.5	0.0
23	5.5	3.5	3.0	2.5	1.0	0.5	1.0	0.5	1.5	0.0	3.0	0.5
24	5.5	3.5	2.5	1.0	1.5	1.0	1.5	1.0	1.5	0.0	3.0	1.0
25	5.5	3.5	1.5	1.0	2.0	1.5	1.5	1.0	2.0	0.5	3.5	1.5
26	6.0	4.0	1.0	0.5	2.0	1.5	1.5	0.5	1.5	0.5	3.5	1.5
27	5.5	4.0	1.0	0.5	2.0	1.0	1.0	0.5	2.5	1.0	4.0	1.5
28	5.0	2.0	1.5	1.0	1.5	1.0	1.0	0.5	2.5	1.0	2.0	0.0
29	2.5	1.0	1.5	1.0	1.5	1.0	1.0	0.5	---	---	0.0	0.0
30	3.0	1.0	1.5	0.5	1.5	1.0	1.0	0.5	---	---	0.0	0.0
31	3.5	1.5	---	---	1.5	0.5	1.0	0.5	---	---	0.0	0.0
MONTH	10.5	1.0	4.5	0.5	2.5	0.0	1.5	0.0	2.5	0.0	4.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	4.5	1.0	7.0	2.5	11.0	8.0	15.5	11.5	13.0	10.0
2	0.0	0.0	4.5	1.0	7.5	2.5	11.0	8.0	14.5	10.0	13.5	10.0
3	0.0	0.0	4.5	1.0	7.0	2.5	10.5	8.0	14.5	10.0	13.5	11.0
4	0.0	0.0	4.5	1.0	7.0	3.0	11.5	8.0	15.0	10.5	13.5	10.0
5	0.0	0.0	5.0	1.0	6.5	2.5	11.5	7.5	15.0	10.5	14.0	10.0
6	0.0	0.0	5.0	1.0	7.0	3.0	12.5	8.5	15.0	11.0	12.5	10.5
7	0.5	0.0	5.5	1.5	7.5	3.0	12.5	10.0	13.0	12.0	13.5	9.5
8	1.0	0.0	4.5	1.5	8.0	3.5	13.5	10.0	15.0	10.5	13.5	10.0
9	2.0	0.5	4.0	1.5	8.5	3.5	13.5	9.0	15.5	11.5	13.5	10.0
10	1.5	0.0	3.5	1.0	8.5	4.0	14.0	9.5	15.0	10.5	12.5	9.5
11	0.5	0.0	5.0	1.5	8.0	4.5	14.5	10.0	14.5	10.5	11.5	8.5
12	0.5	0.0	6.0	1.5	8.0	4.5	14.0	10.5	15.0	10.5	11.5	8.0
13	1.0	0.5	5.5	1.5	7.0	4.5	15.0	10.5	15.0	10.5	11.5	8.5
14	1.5	0.5	5.0	2.0	9.5	5.0	15.0	10.5	14.5	10.5	11.0	8.0
15	3.0	0.5	6.0	1.5	10.0	5.5	14.5	10.5	14.5	10.5	9.0	7.0
16	3.0	0.5	6.0	1.5	10.5	6.0	14.5	10.5	15.0	11.0	7.5	6.0
17	3.5	0.5	6.0	1.5	10.5	7.0	14.5	10.0	15.5	11.0	8.5	7.0
18	3.5	0.5	5.5	1.5	10.5	7.5	14.5	9.5	15.5	12.0	9.0	7.5
19	3.5	0.5	6.5	1.5	9.0	6.5	15.0	10.0	13.5	11.5	9.5	7.5
20	3.5	1.0	6.5	2.0	10.0	6.5	15.0	10.0	15.0	11.0	9.5	6.5
21	4.0	0.5	6.5	2.0	11.0	7.0	15.0	10.5	15.5	11.5	10.0	6.5
22	4.0	0.5	6.5	2.0	11.5	8.0	15.0	10.0	15.5	12.0	10.5	7.0
23	4.5	1.0	6.5	2.0	12.0	8.0	15.0	11.5	14.5	12.5	10.0	7.0
24	4.0	1.0	6.5	2.0	10.5	9.0	15.5	12.0	15.0	11.5	10.0	8.5
25	4.0	1.0	7.0	2.5	11.0	8.0	15.5	11.5	15.5	11.5	10.5	9.0
26	3.5	1.0	7.5	2.5	12.0	8.5	16.0	11.5	14.5	11.5	10.0	8.5
27	4.5	1.0	7.0	2.5	12.0	9.0	16.0	12.0	14.5	11.0	8.5	7.0
28	4.0	1.0	6.5	2.0	11.0	9.5	16.5	12.0	12.5	11.5	8.0	6.0
29	4.0	1.0	5.5	2.5	9.5	8.0	16.5	12.0	13.5	11.0	7.0	5.5
30	4.5	1.0	7.5	2.5	9.0	7.5	16.5	12.0	13.5	9.5	7.0	5.0
31	---	---	7.0	3.0	---	---	15.5	11.0	13.5	9.5	---	---
MONTH	4.5	0.0	7.5	1.0	12.0	2.5	16.5	7.5	15.5	9.5	14.0	5.0

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	.75	0	.00	1.1	1	.00	22	2	.12
2	.70	0	.00	1.1	1	.00	21	2	.11
3	.76	0	.00	1.1	1	.00	20	2	.11
4	.77	0	.00	1.1	1	.00	18	2	.10
5	.77	1	.00	1.1	1	.00	16	2	.09
6	.78	1	.00	1.1	1	.00	15	2	.08
7	1.6	1	.00	1.5	1	.00	14	2	.08
8	1.1	0	.00	1.5	1	.00	13	2	.07
9	1.0	0	.00	1.4	1	.00	14	3	.11
10	1.8	0	.00	1.3	1	.00	16	4	.17
11	1.5	0	.00	1.4	1	.00	15	4	.16
12	1.2	0	.00	4.4	8	.10	14	3	.11
13	1.2	0	.00	60	65	26	14	4	.15
14	1.3	0	.00	112	42	23	22	6	.36
15	1.2	0	.00	44	9	1.4	27	7	.51
16	1.3	0	.00	56	7	1.1	24	7	.45
17	1.2	0	.00	65	20	4.2	18	6	.29
18	1.1	0	.00	32	1	.09	17	5	.23
19	1.0	0	.00	24	0	.00	434	207	299
20	1.0	0	.00	20	0	.00	588	266	457
21	1.0	0	.00	67	35	14	111	65	19
22	1.0	0	.00	119	25	8.0	62	12	2.0
23	1.0	0	.00	228	76	63	48	5	.65
24	1.1	0	.00	290	127	154	38	2	.21
25	1.0	0	.00	69	7	1.3	34	1	.09
26	1.0	0	.00	43	4	.46	32	0	.00
27	1.3	0	.00	35	4	.38	36	0	.00
28	2.9	0	.00	29	3	.23	28	0	.00
29	1.5	1	.00	27	3	.22	28	0	.00
30	1.1	1	.00	24	2	.13	36	0	.00
31	1.1	1	.00	---	---	---	26	0	.00
TOTAL	36.03	---	0.00	1362.1	---	297.61	1821	---	781.25

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY				FEBRUARY			MARCH		
1	21	0	.00	9.6	0	.00	28	2	.15
2	19	0	.00	9.6	0	.00	27	2	.15
3	18	0	.00	9.4	0	.00	24	2	.13
4	18	0	.00	9.1	0	.00	22	2	.12
5	17	0	.00	9.0	0	.00	21	2	.11
6	17	0	.00	8.8	0	.00	20	2	.11
7	17	0	.00	8.7	0	.00	19	2	.10
8	16	0	.00	8.7	0	.00	19	2	.10
9	16	1	.04	8.7	0	.00	19	2	.10
10	16	1	.04	8.4	0	.00	25	6	.40
11	16	1	.04	8.1	0	.00	41	4	.44
12	16	1	.04	8.0	0	.00	30	3	.24
13	14	1	.04	9.8	12	.32	27	3	.22
14	13	1	.04	51	30	4.4	26	3	.21
15	13	2	.07	133	67	27	23	3	.19
16	13	2	.07	414	128	155	21	3	.17
17	13	2	.07	135	35	13	19	3	.15
18	12	2	.06	69	20	3.7	18	3	.15
19	12	2	.06	47	10	1.3	17	3	.14
20	12	1	.03	43	5	.58	17	3	.14
21	11	1	.03	46	4	.50	16	3	.13
22	11	1	.03	57	4	.62	17	3	.14
23	11	1	.03	51	4	.55	17	3	.14
24	11	1	.03	39	3	.32	17	3	.14
25	11	1	.03	33	2	.18	18	3	.15
26	11	0	.00	31	1	.08	17	3	.14
27	11	0	.00	28	1	.08	16	3	.13
28	11	0	.00	26	2	.14	15	3	.12
29	9.9	0	.00	---	---	---	14	3	.11
30	9.6	0	.00	---	---	---	13	3	.11
31	9.6	0	.00	---	---	---	13	3	.11
TOTAL	426.1	---	0.75	1318.9	---	207.77	636	---	4.94

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	13	3	.11	91	3	.74	89	6	1.4
2	13	3	.11	103	4	1.1	85	6	1.4
3	12	3	.10	111	5	1.5	85	5	1.1
4	12	3	.10	109	4	1.2	77	5	1.0
5	12	3	.10	102	4	1.1	68	4	.73
6	13	3	.11	103	5	1.4	62	5	.84
7	13	3	.11	122	6	2.0	67	6	1.1
8	13	3	.11	123	5	1.7	71	6	1.2
9	13	3	.11	94	3	.76	76	6	1.2
10	16	5	.22	66	3	.53	83	7	1.6
11	110	48	14	59	3	.48	82	7	1.5
12	155	36	15	68	3	.55	69	5	.93
13	112	18	5.4	87	4	.94	60	4	.65
14	77	9	1.9	99	4	1.1	64	7	1.2
15	50	4	.54	107	5	1.4	73	7	1.4
16	37	3	.30	116	7	2.2	78	6	1.3
17	33	3	.27	126	7	2.4	76	5	1.0
18	33	3	.27	112	5	1.5	77	21	4.6
19	34	3	.28	97	5	1.3	104	13	4.6
20	34	3	.28	106	10	2.9	61	4	.66
21	33	3	.27	123	12	4.0	51	3	.41
22	36	3	.29	129	11	3.8	42	3	.34
23	44	3	.36	144	11	4.3	37	2	.20
24	52	3	.42	158	13	5.5	34	1	.09
25	55	2	.30	170	14	6.4	36	1	.10
26	58	2	.31	168	14	6.4	29	1	.08
27	63	2	.34	149	11	4.4	26	1	.07
28	75	2	.41	112	8	2.4	24	1	.06
29	75	2	.41	92	7	1.7	27	3	.22
30	71	3	.58	87	6	1.4	26	3	.21
31	---	---	---	95	6	1.5	---	---	---
TOTAL	1367	---	43.11	3428	---	68.60	1839	---	31.19
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	26	2	.14	2.5	0	.00	1.7	1	.00
2	21	1	.06	2.5	0	.00	1.6	1	.00
3	19	1	.05	2.5	0	.00	1.6	1	.00
4	17	1	.05	2.4	0	.00	1.6	1	.00
5	15	1	.04	2.4	0	.00	1.6	1	.00
6	14	1	.04	2.4	0	.00	1.6	1	.00
7	13	1	.04	2.5	0	.00	1.6	1	.00
8	13	1	.04	2.7	0	.00	1.5	1	.00
9	12	1	.03	2.4	0	.00	1.5	1	.00
10	11	0	.00	2.3	0	.00	1.6	1	.00
11	9.8	0	.00	2.2	0	.00	1.6	1	.00
12	9.1	0	.00	2.2	0	.00	1.5	0	.00
13	8.6	0	.00	2.2	0	.00	1.5	0	.00
14	7.9	0	.00	2.0	0	.00	1.5	0	.00
15	6.8	0	.00	2.0	0	.00	2.2	0	.00
16	6.2	0	.00	1.9	0	.00	3.4	0	.00
17	5.7	0	.00	1.9	0	.00	2.4	0	.00
18	5.4	0	.00	1.9	0	.00	2.1	0	.00
19	5.0	0	.00	2.1	0	.00	2.3	0	.00
20	4.7	0	.00	2.1	0	.00	2.1	0	.00
21	4.5	0	.00	2.0	0	.00	1.8	0	.00
22	4.2	0	.00	1.9	0	.00	1.7	0	.00
23	4.0	0	.00	1.9	0	.00	1.8	0	.00
24	4.0	0	.00	1.8	0	.00	4.8	1	.01
25	3.8	0	.00	1.8	0	.00	16	9	.70
26	3.6	0	.00	1.8	1	.00	17	6	.28
27	3.4	0	.00	1.7	1	.00	8.2	2	.04
28	3.3	0	.00	1.9	1	.01	6.0	0	.00
29	3.0	0	.00	2.0	1	.01	5.6	0	.00
30	2.8	0	.00	1.9	1	.01	5.5	0	.00
31	2.6	0	.00	1.8	1	.00	---	---	---
TOTAL	269.4	---	0.49	65.6	---	0.03	104.9	---	1.03

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 .052 MM
NOV						
13...	1830	71	3.5	100	19	25
17...	0740	112	2.0	40	12	7
21...	2345	225	1.5	56	34	11
23...	0915	225	2.5	44	27	11
24...	0115	495	2.5	220	294	20
DEC						
19...	1400	654	1.0	339	599	12
20...	0340	759	2.0	321	658	28
20...	1440	652	2.0	251	442	24
FEB						
14...	2215	80	.0	26	5.6	23
16...	0420	475	.0	254	326	7
16...	0930	508	.0	127	174	13
APR						
11...	1300	119	.0	118	38	8
13...	0950	116	.0	20	6.3	15
MAY						
24...	1805	176	6.5	24	11	22
JUN						
18...	2210	119	10.0	35	11	28
SEP						
25...	2000	36	10.5	35	3.4	26

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 NW¼NE¼ sec.36, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft (91 m) upstream from bridge on State Highway 89, 1,000 ft (305 m) upstream from Lake Tahoe, and 4.6 mi (7.4 km) south of Tahoe City.

DRAINAGE AREA.--11.2 mi² (29.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Oct. 1, 1960, to Sept. 30, 1964, at site 400 ft (122 m) downstream at datum 10.25 ft (3.124 m) lower, and Oct. 1, 1964, to Aug. 27, 1970, at datum 12 ft (3.658 m) lower.

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

AVERAGE DISCHARGE.--22 years, 37.0 ft³/s (1.048 m³/s), 26,810 acre-ft/yr (33.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 22 or 24, 1964, from indirect measurement of peak flow; maximum gage height, 9.90 ft (3.018 m) Dec. 22, 1964; minimum discharge, 0.30 ft³/s (0.008 m³/s) Sept. 19, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2100	487 13.8	3.31 1.009	Apr. 11	unknown	unknown	unknown
Nov. 24	0245	1,080 30.6	4.82 1.469	May 7	1915	245 6.94	2.59 0.789
Dec. 20	0145	*1,840 52.1	8.02 2.444	May 26	1930	459 13.0	3.24 .988
Feb. 16	0300	1,210 34.3	5.29 1.612	June 19	0015	324 9.18	2.87 .875

Minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.4	43	51	16	54	27	154	163	93	19	5.7
2	1.2	3.9	41	47	16	54	27	166	156	87	18	5.7
3	1.5	4.2	38	44	16	47	26	185	151	85	16	5.7
4	1.4	4.4	36	40	16	44	25	196	139	79	15	5.5
5	1.3	4.4	33	37	16	42	24	180	127	75	15	5.4
6	1.3	4.7	31	36	16	39	24	175	117	73	14	5.3
7	2.2	5.5	30	34	16	39	23	202	119	77	14	5.2
8	1.7	5.1	29	33	15	37	22	203	126	75	15	4.7
9	1.5	4.8	29	31	15	36	23	170	137	70	13	4.8
10	2.1	4.6	30	30	15	49	27	134	154	68	12	4.8
11	1.8	4.6	28	29	15	70	180	118	168	67	11	4.8
12	1.6	12	27	28	15	54	200	127	153	68	11	4.6
13	1.5	144	27	27	26	48	116	146	138	67	11	4.6
14	1.4	127	41	26	127	49	85	159	150	63	10	4.4
15	1.4	116	61	25	400	44	72	175	178	60	9.9	5.1
16	1.3	116	51	25	684	41	65	197	204	57	9.3	7.5
17	1.4	131	42	24	184	38	65	220	214	51	8.7	7.5
18	1.4	61	48	24	117	36	68	215	212	47	8.1	8.6
19	1.4	44	879	23	95	34	69	192	225	43	8.1	11
20	1.3	36	1370	22	92	33	68	194	189	39	8.1	9.5
21	1.4	186	284	21	96	32	66	219	177	36	7.8	7.7
22	1.3	188	158	21	117	31	72	243	163	34	7.3	7.2
23	1.4	492	119	20	96	31	86	272	152	32	7.3	7.0
24	1.4	494	97	20	79	31	97	294	139	32	7.2	18
25	1.3	140	82	20	71	31	97	309	135	30	6.9	54
26	1.3	95	75	20	64	31	103	341	130	29	6.5	35
27	1.8	75	79	20	58	30	116	317	128	27	6.4	18
28	5.3	61	65	19	54	30	131	239	125	26	6.3	15
29	3.8	53	62	18	---	29	123	189	125	24	6.5	13
30	3.1	46	66	17	---	28	125	168	101	23	6.4	13
31	3.2	---	57	17	---	27	---	172	---	20	6.1	---
TOTAL	55.2	2666.6	4058	849	2547	1219	2252	6271	4595	1657	320.9	308.3
MEAN	1.78	88.9	131	27.4	91.0	39.3	75.1	202	153	53.5	10.4	10.3
MAX	5.3	494	1370	51	684	70	200	341	225	93	19	54
MIN	1.2	3.4	27	17	15	27	22	118	101	20	6.1	4.4
AC-FT	109	5290	8050	1680	5050	2420	4470	12440	9110	3290	637	612
CAL YR 1981	TOTAL	12867.2	MEAN	35.3	MAX	1370	MIN	1.2	AC-FT	25520		
WTR YR 1982	TOTAL	26799.0	MEAN	73.4	MAX	1370	MIN	1.2	AC-FT	53160		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78, October 1979 to current year.

SPECIFIC CONDUCTANCE: December 1980 to current year.

WATER TEMPERATURES: Water years 1975-78, October 1979 to current year.

SEDIMENT RECORDS: Water years 1975-78, October 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1980 to current year.

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

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 121 micromhos Sept. 7, 1981; minimum recorded, 16 micromhos May 26, 1982.

WATER TEMPERATURES: Maximum recorded, 22.5°C July 27, 28, 1981; minimum recorded, 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 (2,350 metric tons) Jan. 13, 1980; minimum daily, 0 ton (0 metric ton) on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 94 micromhos Oct. 6; minimum recorded, 16 micromhos May 26.

WATER TEMPERATURES: Maximum recorded, 18.5°C Aug. 21, 22; minimum recorded, 0°C on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 808 mg/L Dec. 19; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 2,370 tons (2,150 metric tons) Dec. 20; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	77	44	44	55	58	64	39	32	33	44	76
2	85	76	45	44	55	56	66	37	32	33	44	77
3	84	75	43	45	55	58	65	36	32	33	44	77
4	86	74	43	46	55	57	66	38	33	33	44	77
5	86	75	44	47	55	58	65	38	34	34	47	79
6	88	73	45	46	55	58	66	36	35	34	52	78
7	80	72	48	47	55	58	59	36	32	33	55	79
8	86	72	47	47	55	59	50	35	32	33	55	80
9	87	72	45	47	55	58	48	38	31	34	57	81
10	82	72	45	48	55	57	46	38	30	35	58	80
11	83	71	47	49	56	54	34	38	26	35	59	80
12	84	68	47	50	56	55	37	38	28	34	60	81
13	85	60	47	50	55	56	42	35	30	34	60	81
14	85	43	48	50	46	54	45	35	28	35	61	82
15	85	47	46	50	44	55	47	32	27	36	62	79
16	86	46	48	52	45	54	48	31	25	36	64	75
17	86	43	48	52	51	55	48	29	25	37	65	74
18	86	47	47	51	53	55	48	29	25	38	66	71
19	86	50	35	52	55	55	52	32	26	38	67	67
20	86	52	32	51	55	56	53	35	28	39	69	67
21	86	46	34	53	55	55	56	32	28	39	70	71
22	86	42	36	53	54	55	51	31	27	39	71	73
23	86	36	37	53	55	55	48	29	27	39	72	74
24	85	34	39	53	56	54	45	29	28	40	72	67
25	86	36	39	54	56	54	45	28	29	40	73	41
26	86	38	40	54	56	54	44	25	29	40	74	41
27	84	40	40	54	58	54	44	23	29	40	75	50
28	78	41	41	54	58	54	43	30	29	41	76	54
29	73	42	42	55	---	52	43	32	29	42	74	56
30	77	43	42	55	---	55	44	33	32	44	74	56
31	77	---	43	55	---	55	---	32	---	44	75	---
MONTH	84	55	43	50	54	56	50	33	29	37	63	71

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	8.0	5.0	2.5	3.5	2.0	2.0	0.5	3.0	1.0	2.5	0.5
2	12.5	9.0	5.0	2.5	3.5	2.0	1.0	0.5	4.0	1.5	1.0	0.5
3	12.5	9.5	5.5	3.0	3.5	1.5	2.0	1.0	4.0	1.5	3.5	1.0
4	11.0	6.0	6.0	3.0	3.5	1.5	1.0	0.5	3.0	1.0	4.5	1.5
5	11.0	5.5	6.0	3.5	4.0	2.0	1.0	0.5	2.5	1.0	4.5	1.0
6	11.0	6.0	6.5	5.0	3.5	2.0	1.0	1.0	2.5	1.0	4.5	0.5
7	9.5	7.0	6.0	4.0	4.5	2.5	1.0	1.0	3.5	1.0	4.0	1.5
8	10.0	5.0	5.5	3.5	4.0	2.0	1.0	1.0	3.5	2.0	5.5	2.0
9	10.0	6.0	5.5	3.5	4.0	1.5	2.5	1.0	3.0	1.5	5.0	1.5
10	8.0	6.5	6.0	4.0	3.5	2.0	3.0	1.5	3.5	1.0	4.5	2.0
11	7.0	4.5	6.0	3.5	3.5	2.0	3.5	2.5	3.5	0.5	4.5	1.0
12	6.0	3.0	5.0	3.5	2.5	1.0	2.5	1.5	3.5	0.5	6.0	1.5
13	6.5	3.5	3.5	2.5	3.5	1.5	3.0	1.0	4.0	1.0	6.0	1.5
14	6.0	4.5	3.5	1.5	4.0	2.5	3.5	1.5	1.5	0.5	4.0	1.0
15	7.0	4.5	4.0	3.5	3.0	2.5	3.5	1.5	1.5	0.5	3.5	1.5
16	7.0	3.5	5.0	4.0	3.5	2.0	3.5	2.0	1.5	0.5	1.5	1.0
17	8.5	4.0	4.0	2.0	3.5	2.0	3.5	2.0	3.5	1.5	3.0	0.5
18	9.0	5.5	4.0	2.0	4.0	3.0	2.5	1.0	4.0	1.5	3.5	1.0
19	8.5	4.0	4.5	2.5	3.0	2.0	1.0	1.0	5.0	2.0	4.5	1.0
20	8.5	4.0	5.0	3.0	3.0	1.0	1.5	1.0	5.0	2.0	5.0	0.5
21	8.0	4.0	3.5	2.0	3.0	1.0	1.0	1.0	5.0	2.0	5.5	1.0
22	7.5	3.5	4.0	2.0	2.5	1.0	2.0	1.0	4.5	2.0	6.0	1.0
23	7.5	3.5	4.0	3.0	3.0	1.5	3.5	2.0	4.5	1.0	6.5	1.0
24	8.0	4.0	3.5	2.0	3.5	1.5	4.0	1.5	4.5	1.0	6.5	1.5
25	7.5	4.0	3.0	1.5	4.0	2.5	4.0	1.5	4.5	1.5	6.0	2.5
26	8.0	5.0	2.0	1.0	3.5	2.5	3.0	1.0	3.0	1.5	5.5	2.5
27	7.0	5.0	2.0	1.5	3.0	1.5	3.0	1.0	5.0	1.5	6.0	2.0
28	6.0	1.0	3.0	2.0	3.0	1.5	3.0	1.0	4.5	1.5	1.5	0.5
29	3.5	0.5	3.5	2.0	2.5	0.5	3.0	1.5	---	---	0.5	0.5
30	3.5	1.0	3.5	1.5	3.0	2.0	3.5	1.0	---	---	0.5	0.5
31	4.5	2.5	---	---	2.5	0.5	3.5	1.0	---	---	0.5	0.5
MONTH	13.0	0.5	6.5	1.0	4.5	0.5	4.0	0.5	5.0	0.5	6.5	0.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0.5	7.0	1.5	9.0	2.5	11.0	5.5	16.5	9.5	15.0	9.5
2	0.5	0.5	6.5	1.5	9.5	3.0	10.5	5.5	16.0	8.5	16.0	9.5
3	0.5	0.5	7.0	1.5	9.0	2.5	9.5	5.5	16.0	8.5	14.5	10.5
4	0.5	0.5	7.0	1.5	9.0	3.0	11.5	5.5	16.5	9.0	15.5	9.5
5	0.5	0.5	7.0	1.5	9.0	2.5	11.0	4.5	17.0	9.0	16.0	9.5
6	0.5	0.5	7.5	1.5	9.0	2.5	13.0	5.5	17.0	9.5	14.0	10.0
7	2.5	0.5	7.5	0.5	10.0	3.0	12.5	6.5	12.5	11.0	15.5	9.0
8	3.5	0.5	6.0	2.0	10.0	3.0	12.5	6.5	17.0	9.5	15.5	9.5
9	5.0	0.5	6.0	2.0	10.5	3.0	13.0	5.5	17.5	10.5	15.0	9.5
10	3.5	0.5	5.0	1.5	10.0	3.5	13.5	6.0	17.0	9.5	14.5	9.0
11	0.5	0.5	7.5	1.5	9.0	4.0	14.0	6.0	16.5	9.5	13.0	8.5
12	1.0	0.5	8.5	2.0	9.0	4.0	13.5	7.0	17.5	9.5	13.5	8.0
13	2.5	1.0	8.0	2.0	7.5	3.0	14.0	6.5	17.5	9.5	13.5	9.0
14	3.5	1.0	7.5	2.5	10.5	4.0	14.5	7.0	17.0	9.5	12.5	8.0
15	5.5	1.0	8.5	2.0	10.5	4.0	14.0	7.0	17.5	9.5	10.0	7.5
16	6.0	1.0	8.5	2.5	10.5	4.0	14.0	7.0	17.5	10.5	9.0	5.0
17	7.0	1.0	8.0	2.5	10.0	4.5	14.0	6.5	17.5	10.0	9.5	7.5
18	6.5	1.0	7.5	2.0	10.0	4.5	14.5	7.0	18.0	11.0	9.5	8.0
19	6.5	1.5	8.5	2.0	8.0	4.5	15.0	7.5	16.0	10.5	11.0	8.0
20	6.5	1.5	8.5	2.5	10.5	4.5	15.0	7.5	17.0	10.5	12.0	7.0
21	7.0	1.0	8.5	2.5	11.0	4.0	15.5	8.0	18.5	11.0	12.0	7.0
22	7.5	1.5	8.5	2.5	11.5	4.5	15.0	7.5	18.5	11.5	12.5	7.5
23	7.5	1.5	8.5	2.5	11.5	4.5	14.5	9.0	17.0	12.0	12.0	7.5
24	7.0	1.5	8.5	3.0	8.5	5.0	16.0	9.5	17.5	11.0	12.5	9.5
25	7.0	1.5	8.5	3.0	11.0	5.0	16.5	9.0	18.0	11.0	11.0	10.0
26	7.0	2.0	8.5	3.0	11.5	4.5	16.5	9.5	16.0	11.5	12.0	8.5
27	7.5	1.5	8.0	3.0	10.0	5.5	17.0	10.5	16.0	10.0	10.5	7.5
28	7.0	2.0	8.0	2.5	9.5	6.0	17.0	10.0	13.5	11.5	10.0	6.0
29	6.5	1.5	8.5	2.5	8.0	5.5	17.5	10.5	15.0	11.0	8.0	5.0
30	7.5	1.5	9.0	2.5	9.0	5.0	17.5	10.0	15.5	8.5	9.0	6.0
31	---	---	9.0	3.0	---	---	17.0	9.5	15.5	8.5	---	---
MONTH	7.5	0.5	9.0	0.5	11.5	2.5	17.5	4.5	18.5	8.5	16.0	5.0

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	1.2	2	.01	3.4	1	.01	43	1	.12
2	1.2	2	.01	3.9	1	.01	41	1	.11
3	1.5	2	.01	4.2	1	.01	38	1	.10
4	1.4	2	.01	4.4	1	.01	36	1	.10
5	1.3	2	.01	4.4	1	.01	33	1	.09
6	1.3	2	.01	4.7	1	.01	31	1	.08
7	2.2	3	.02	5.5	1	.01	30	1	.08
8	1.7	2	.01	5.1	1	.01	29	0	.00
9	1.5	2	.01	4.8	1	.01	29	0	.00
10	2.1	1	.01	4.6	1	.01	30	0	.00
11	1.8	1	.00	4.6	1	.01	28	0	.00
12	1.6	1	.00	12	22	1.1	27	1	.07
13	1.5	0	.00	144	282	246	27	1	.07
14	1.4	0	.00	127	124	77	41	6	.66
15	1.4	0	.00	116	143	65	61	20	3.3
16	1.3	0	.00	116	80	25	51	8	1.1
17	1.4	0	.00	131	140	64	42	1	.11
18	1.4	0	.00	61	15	2.5	48	16	5.0
19	1.4	0	.00	44	9	1.1	879	808	2100
20	1.3	0	.00	36	4	.39	1370	556	2370
21	1.4	0	.00	186	514	536	284	111	97
22	1.3	0	.00	188	319	180	158	40	17
23	1.4	0	.00	492	651	1000	119	10	3.2
24	1.4	0	.00	494	420	793	97	5	1.3
25	1.3	0	.00	140	80	30	82	5	1.1
26	1.3	0	.00	95	13	3.3	75	5	1.0
27	1.8	0	.00	75	7	1.4	79	7	1.5
28	5.3	1	.01	61	4	.66	65	5	.88
29	3.8	0	.00	53	3	.43	62	7	1.2
30	3.1	0	.00	46	2	.25	66	15	2.7
31	3.2	0	.00	---	---	---	57	14	2.2
TOTAL	55.2	---	0.12	2666.6	---	3027.24	4058	---	4610.07
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY				FEBRUARY			MARCH		
1	51	10	1.4	16	1	.04	54	3	.44
2	47	5	.63	16	1	.04	54	3	.44
3	44	5	.59	16	1	.04	47	3	.38
4	40	5	.54	16	1	.04	44	3	.36
5	37	5	.50	16	1	.04	42	2	.23
6	36	5	.49	16	1	.04	39	2	.21
7	34	5	.46	16	1	.04	39	2	.21
8	33	5	.45	15	1	.04	37	2	.20
9	31	5	.42	15	1	.04	36	2	.19
10	30	5	.41	15	1	.04	49	4	.53
11	29	5	.39	15	1	.04	70	6	1.1
12	28	5	.38	15	1	.04	54	2	.29
13	27	4	.29	26	7	1.1	48	2	.26
14	26	4	.28	127	114	38	49	2	.26
15	25	3	.20	400	410	673	44	2	.24
16	25	2	.14	684	548	1300	41	2	.22
17	24	1	.06	184	100	50	38	2	.21
18	24	0	.00	117	40	13	36	2	.19
19	23	0	.00	95	21	5.4	34	2	.18
20	22	0	.00	92	14	3.5	33	2	.18
21	21	0	.00	96	14	3.6	32	2	.17
22	21	0	.00	117	21	6.6	31	2	.17
23	20	0	.00	96	9	2.3	31	2	.17
24	20	1	.05	79	5	1.1	31	2	.17
25	20	1	.05	71	4	.77	31	2	.17
26	20	1	.05	64	3	.52	31	2	.17
27	20	1	.05	58	3	.47	30	2	.16
28	19	1	.05	54	3	.44	30	2	.16
29	18	1	.05	---	---	---	29	2	.16
30	17	1	.05	---	---	---	28	2	.15
31	17	1	.05	---	---	---	27	2	.15
TOTAL	849	---	8.03	2547	---	2100.28	1219	---	8.12

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	27	2	.15	154	17	7.1	163	20	8.8
2	27	2	.15	166	20	9.0	156	20	8.4
3	26	2	.14	185	28	14	151	17	6.9
4	25	2	.14	196	26	14	139	15	5.6
5	24	2	.13	180	21	10	127	10	3.4
6	24	2	.13	175	23	11	117	12	3.8
7	23	2	.12	202	30	16	119	13	4.2
8	22	2	.12	203	27	15	126	15	5.1
9	23	2	.12	170	17	7.8	137	18	6.7
10	27	2	.15	134	15	5.4	154	26	12
11	180	300	146	118	11	3.5	168	24	12
12	200	120	65	127	16	5.5	153	15	6.2
13	116	48	15	146	18	7.1	138	12	4.5
14	85	20	4.6	159	18	7.7	150	26	12
15	72	7	1.4	175	26	13	178	32	17
16	65	5	.88	197	28	17	204	34	20
17	65	5	.88	220	34	22	214	35	20
18	68	5	.92	215	29	17	212	36	25
19	69	5	.93	192	27	15	225	27	16
20	68	5	.92	194	36	20	189	32	16
21	66	6	1.1	219	46	29	177	30	14
22	72	7	1.4	243	53	38	163	25	11
23	86	8	1.9	272	56	46	152	25	10
24	97	9	2.4	294	64	55	139	18	6.8
25	97	12	3.1	309	67	61	135	15	5.5
26	103	15	4.2	341	73	76	130	12	4.2
27	116	15	4.7	317	71	63	128	10	3.5
28	131	15	5.3	239	50	32	125	7	2.4
29	123	12	4.0	189	20	10	125	8	2.7
30	125	15	5.1	168	20	9.1	101	5	1.4
31	---	---	---	172	22	10	---	---	---
TOTAL	2252	---	271.08	6271	---	666.2	4595	---	275.1
JULY			AUGUST			SEPTEMBER			
1	93	4	1.0	19	2	.10	5.7	0	.00
2	87	4	.94	18	4	.19	5.7	0	.00
3	85	4	.92	16	6	.26	5.7	0	.00
4	79	4	.85	15	7	.28	5.5	0	.00
5	75	4	.81	15	7	.28	5.4	0	.00
6	73	3	.59	14	3	.11	5.3	0	.00
7	77	3	.62	14	0	.00	5.2	0	.00
8	75	2	.41	15	0	.00	4.7	0	.00
9	70	2	.38	13	0	.00	4.8	0	.00
10	68	2	.37	12	0	.00	4.8	0	.00
11	67	2	.36	11	0	.00	4.8	0	.00
12	68	2	.37	11	0	.00	4.6	0	.00
13	67	2	.36	11	0	.00	4.6	0	.00
14	63	2	.34	10	0	.00	4.4	1	.01
15	60	2	.32	9.9	0	.00	5.1	1	.01
16	57	2	.31	9.3	0	.00	7.5	1	.02
17	51	2	.28	8.7	0	.00	7.5	1	.02
18	47	2	.25	8.1	0	.00	8.6	1	.02
19	43	2	.23	8.1	0	.00	11	1	.03
20	39	2	.21	8.1	0	.00	9.5	1	.03
21	36	2	.19	7.8	0	.00	7.7	1	.02
22	34	1	.09	7.3	0	.00	7.2	1	.02
23	32	1	.09	7.3	0	.00	7.0	1	.02
24	32	1	.09	7.2	0	.00	18	17	.86
25	30	0	.00	6.9	0	.00	54	94	19
26	29	0	.00	6.5	0	.00	35	15	1.4
27	27	0	.00	6.4	0	.00	18	2	.10
28	26	0	.00	6.3	0	.00	15	1	.04
29	24	0	.00	6.5	0	.00	13	0	.00
30	23	0	.00	6.4	0	.00	13	0	.00
31	20	0	.00	6.1	0	.00	---	---	---
TOTAL	1657	---	10.38	320.9	---	1.22	308.3	---	21.60
YEAR	26779.0								

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, 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
NOV								
12...	1215	11	3.5	46	1.4	--	--	--
12...	2120	22	3.5	50	3.0	--	--	--
13...	1800	191	3.5	712	367	--	--	--
13...	2230	432	2.5	834	973	11	17	28
15...	1040	70	4.0	75	14	--	--	--
15...	1625	200	4.0	291	157	4	7	11
15...	2230	184	4.0	192	95	--	--	--
17...	1000	153	2.0	193	80	--	--	--
22...	0045	250	2.5	755	510	--	--	--
24...	0115	1010	3.5	877	2390	--	--	--
24...	0430	893	2.5	729	1760	--	--	--
24...	1450	290	3.0	224	175	6	9	15
24...	1745	248	2.5	171	115	--	--	--
DEC								
19...	1515	1140	2.0	1240	3820	--	--	--
20...	1145	1720	3.5	463	2150	8	12	20
21...	1315	248	2.5	94	63	--	--	--
FEB								
16...	0345	1180	.0	944	3010	--	--	--
16...	1535	443	1.0	328	392	11	14	20
16...	2225	287	1.0	203	157	--	--	--
19...	1600	92	5.0	21	5.2	--	--	--
APR								
11...	1145	--	2.0	694	--	--	--	--
11...	1630	--	.5	287	--	--	--	--
12...	1230	191	1.0	118	61	--	--	--
MAY								
03...	1915	219	4.5	120	71	--	--	--
24...	1835	360	6.0	200	194	--	--	--
27...	1620	336	7.0	102	93	--	--	--
31...	1815	182	7.5	30	15	--	--	--
JUN								
18...	2145	267	6.0	71	51	--	--	--
SEP								
24...	0910	38	9.5	30	3.1	--	--	--
25...	0830	103	10.5	315	88	--	--	--
25...	1210	55	11.5	148	22	--	--	--
25...	2020	94	11.0	56	14	--	--	--

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
NOV								
12...	--	--	37	--	--	--	--	--
12...	--	--	33	--	--	--	--	--
13...	--	--	27	--	--	--	--	--
13...	41	55	65	79	91	98	100	--
15...	--	--	27	--	--	--	--	--
15...	16	23	30	50	79	97	100	--
15...	--	--	23	--	--	--	--	--
17...	--	--	14	--	--	--	--	--
22...	--	--	19	--	--	--	--	--
24...	--	--	32	--	--	--	--	--
24...	--	--	44	--	--	--	--	--
24...	22	31	40	62	84	97	100	--
24...	--	--	30	--	--	--	--	--
DEC								
19...	--	--	40	--	--	--	--	--
20...	31	44	54	76	90	97	100	--
21...	--	--	21	--	--	--	--	--
FEB								
16...	--	--	34	--	--	--	--	--
16...	28	39	52	74	95	100	--	--
16...	--	--	29	--	--	--	--	--
19...	--	--	33	--	--	--	--	--
APR								
11...	--	--	30	49	69	84	91	100
11...	--	--	36	--	--	--	--	--
12...	--	--	38	--	--	--	--	--
MAY								
03...	--	--	24	--	--	--	--	--
24...	--	--	20	--	--	--	--	--
27...	--	--	23	--	--	--	--	--
31...	--	--	23	--	--	--	--	--
JUN								
18...	--	--	23	--	--	--	--	--
SEP								
24...	--	--	58	--	--	--	--	--
25...	--	--	64	86	98	100	--	--
25...	--	--	94	--	--	--	--	--
25...	--	--	70	--	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

205

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

LOCATION.--Lat 39°07'56", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft (50 m) downstream from State Highway 89 bridge, 2.1 mi (3.4 km) north of Tahoe Pines, and 2.6 mi (4.2 km) southwest of Tahoe City.

DRAINAGE AREA.--9.70 mi² (25.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (1,899 m), from topographic map.

REMARKS.--Records good except those for the winter months, which are fair. Minor diversion for local water supply.

AVERAGE DISCHARGE.--10 years, 26.1 ft³/s (0.739 m³/s), 18,910 acre-ft/yr (23.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s (51.1 m³/s) Dec. 19, 1981, gage height, 8.05 ft (2.454 m), from rating extended above 800 ft³/s (22.7 m³/s); no flow on may days during 1977-78, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2100	451 12.8	6.50 1.981	Apr. 11	1145	backwater from ice	6.97 2.124
Nov. 23	2345	815 23.1	7.09 2.161	May 7	2000	208 5.89	5.25 1.600
Dec. 19	2200	*1,800 51.0	8.05 2.454	May 26	1815	345 9.77	5.63 1.716
Feb. 16	0145	1,030 29.2	6.79 2.070	June 18	2145	331 9.37	5.60 1.707

Minimum daily, 0.38 ft³/s (0.010 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	2.9	34	42	13	38	18	119	132	81	19	3.5
2	.38	3.2	33	42	13	38	18	126	126	74	17	3.3
3	.52	3.5	30	42	13	32	18	133	122	72	15	3.1
4	.59	3.0	27	37	12	29	18	132	112	64	14	2.8
5	.54	2.9	25	33	12	28	17	131	106	61	13	2.7
6	.51	3.3	24	31	12	26	17	132	90	60	12	3.0
7	2.2	3.3	24	30	11	25	16	151	94	61	13	2.7
8	1.4	3.1	23	29	11	25	16	153	101	60	13	2.5
9	1.0	2.8	24	28	11	24	18	123	111	57	12	2.4
10	1.9	2.6	24	27	11	33	26	99	130	56	10	2.5
11	2.3	2.7	23	25	11	48	170	93	145	56	9.9	2.6
12	1.4	13	22	24	11	37	180	97	133	56	9.2	2.6
13	1.1	139	21	23	30	34	80	111	123	56	8.6	2.6
14	1.1	104	38	22	191	33	61	110	135	54	8.2	2.3
15	.96	126	58	21	393	29	54	120	163	52	7.7	3.2
16	.90	100	45	21	518	26	50	140	183	48	7.0	7.1
17	1.3	123	36	21	176	26	48	163	186	43	6.8	7.5
18	1.4	44	42	20	103	24	53	160	191	39	6.7	8.5
19	1.1	30	709	19	75	22	51	142	221	37	6.8	9.7
20	1.0	25	680	18	68	21	49	150	187	33	6.8	7.1
21	.96	178	199	18	76	20	48	178	169	32	6.4	5.4
22	.84	188	137	17	88	19	53	205	148	30	5.8	4.7
23	.77	424	96	16	72	19	70	225	135	28	5.7	3.7
24	.76	316	81	16	60	19	87	239	125	29	5.3	20
25	.71	107	70	16	54	20	87	239	119	28	5.0	36
26	.71	78	65	15	48	19	91	258	113	28	4.6	24
27	1.2	62	68	15	43	19	92	248	110	27	4.0	16
28	8.7	50	55	15	39	19	98	203	107	26	4.6	13
29	4.0	41	53	13	---	19	91	156	109	24	4.4	12
30	2.8	37	55	13	---	19	94	141	87	23	4.1	12
31	2.5	---	45	13	---	18	---	143	---	21	3.6	---
TOTAL	45.94	2218.3	2866	722	2175	808	1789	4820	4013	1416	269.2	228.5
MEAN	1.48	73.9	92.5	23.3	77.7	26.1	59.6	155	134	45.7	8.68	7.62
MAX	8.7	424	709	42	518	48	180	258	221	81	19	36
MIN	.38	2.6	21	13	11	18	16	93	87	21	3.6	2.3
AC-FT	91	4400	5680	1430	4310	1600	3550	9560	7960	2810	534	453

CAL YR 1981	TOTAL	9202.93	MEAN	25.2	MAX	709	MIN	.00	AC-FT	18250
WTR YR 1982	TOTAL	21370.94	MEAN	58.6	MAX	709	MIN	.38	AC-FT	42390

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-78, October 1979 to current year.

SPECIFIC CONDUCTANCE: October 1980 to current year.

WATER TEMPERATURES: Water years 1973-78, October 1979 to current year.

SEDIMENT RECORDS: Water years 1973-78, October 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to current year.

WATER TEMPERATURES: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to current year.

SEDIMENT RECORDS: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to current year.

COOPERATION.--Selected sediment samples 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.

WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 8, 12, 13, 1981; minimum recorded, 0°C many days in winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,510 mg/L Dec. 19, 1981; minimum daily mean, 0 mg/L on many days each year.

SEDIMENT DISCHARGE: Maximum daily, 3,720 tons (3,370 metric tons) Dec. 19, 1981; minimum daily, 0 ton (0 metric ton) on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 80 micromhos Oct. 1-3; minimum recorded, 21 micromhos Nov. 23.

WATER TEMPERATURES: Maximum recorded, 18.5°C Aug. 21, 22; minimum recorded, 0°C on many days in winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,510 mg/L Dec. 19; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 3,720 tons (3,370 metric tons) Dec. 19; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	62	46	34	49	44	43	41	35	32	39	57
2	79	61	46	35	50	44	42	45	35	32	40	58
3	79	60	48	36	54	44	42	46	35	32	40	59
4	78	60	48	37	51	44	42	42	36	33	41	59
5	78	61	49	38	49	45	39	38	37	33	42	59
6	78	61	50	37	50	45	38	37	37	33	43	60
7	74	61	51	38	50	45	37	36	36	32	43	60
8	71	60	51	40	51	45	36	37	36	32	43	61
9	73	60	51	40	51	46	36	37	35	32	44	62
10	71	61	52	41	51	45	35	39	34	32	45	62
11	68	61	53	42	50	46	37	40	33	32	45	62
12	69	52	52	43	50	46	37	40	34	31	46	62
13	70	35	54	43	49	46	34	39	34	31	47	63
14	71	---	49	44	44	46	31	38	33	31	47	63
15	72	---	47	45	43	46	30	37	32	32	48	63
16	72	31	50	45	51	46	30	36	31	32	48	58
17	72	30	52	47	50	47	30	36	31	33	49	58
18	70	37	52	46	50	47	30	36	31	34	47	57
19	70	39	34	46	48	47	30	36	31	34	50	58
20	71	41	31	47	44	47	31	36	31	34	---	58
21	71	34	30	49	43	48	31	35	31	34	---	58
22	71	32	29	52	43	48	32	34	32	35	---	60
23	72	26	29	53	43	49	33	33	32	35	---	60
24	72	29	30	52	43	49	35	33	33	35	---	---
25	72	36	30	52	43	49	35	32	33	35	---	---
26	73	38	31	53	43	47	37	31	33	35	---	---
27	72	40	30	55	44	46	37	32	33	35	55	---
28	54	41	31	55	44	44	39	34	33	35	56	---
29	58	44	32	52	---	44	39	35	33	36	56	---
30	61	44	32	47	---	44	39	35	32	36	56	---
31	63	---	33	47	---	44	---	35	---	38	57	---
MONTH	71	46	42	45	48	46	36	37	33	33	---	---

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	6.5	4.0	1.0	2.0	0.5	0.5	0.5	0.5	0.0	2.0	0.0
2	12.0	8.0	3.5	1.0	1.5	0.0	0.5	0.5	1.0	0.0	0.0	0.0
3	11.5	7.0	4.0	1.0	2.0	0.0	0.5	0.5	1.0	0.0	1.5	0.0
4	11.0	5.5	4.5	1.5	1.5	0.0	0.5	0.5	0.5	0.0	3.0	0.0
5	10.5	5.0	4.5	2.0	1.5	0.0	0.5	0.5	0.0	0.0	3.0	0.0
6	10.5	5.5	5.5	3.0	2.0	0.0	0.5	0.5	0.0	0.0	3.0	0.0
7	8.0	5.5	4.5	2.5	2.5	1.0	0.5	0.5	0.0	0.0	3.5	0.5
8	8.5	4.5	4.0	1.5	2.0	0.5	0.5	0.5	1.0	0.0	4.5	1.0
9	10.0	5.0	4.0	1.5	2.5	0.0	0.5	0.5	1.0	0.0	4.5	0.5
10	7.5	6.0	4.5	2.5	2.0	0.5	0.5	0.5	1.0	0.0	3.5	1.0
11	7.0	4.0	4.5	2.0	1.5	0.0	0.5	0.5	0.0	0.0	3.0	0.0
12	5.5	2.5	3.5	2.0	0.5	0.0	0.5	0.5	0.5	0.0	5.0	0.5
13	5.0	2.5	3.5	2.0	1.5	0.0	0.5	0.5	1.0	0.0	5.0	0.0
14	6.0	3.0	---	---	2.0	1.0	1.0	1.0	0.0	0.0	3.0	0.0
15	7.0	3.5	---	---	2.0	1.0	1.0	1.0	2.0	0.0	4.0	0.5
16	6.5	2.5	5.0	3.5	1.5	0.5	1.0	1.0	1.0	0.0	1.5	0.0
17	7.5	3.0	3.0	1.5	2.0	0.0	1.0	1.0	2.5	0.5	2.0	0.0
18	8.0	4.0	3.0	1.0	2.5	1.5	1.0	1.0	2.5	0.5	3.5	0.0
19	7.5	3.5	3.5	1.5	2.5	0.0	1.0	1.0	3.5	1.0	3.5	0.0
20	8.0	3.5	4.0	2.5	2.5	0.5	1.0	1.0	4.0	1.0	3.5	0.0
21	8.0	3.5	3.0	1.5	2.0	0.5	1.0	1.0	4.5	1.5	5.0	0.0
22	7.5	3.0	4.0	2.0	1.0	0.0	1.0	1.0	3.5	1.0	5.0	0.0
23	7.5	3.0	3.5	3.0	0.0	0.0	1.0	1.0	3.5	0.5	5.5	0.0
24	7.0	3.0	3.0	1.5	0.5	0.0	1.0	1.0	3.5	0.0	6.0	0.5
25	7.5	3.0	2.0	1.0	1.0	0.0	1.0	1.0	4.0	0.5	5.5	1.5
26	7.5	4.0	1.5	0.0	1.5	0.0	1.0	0.0	3.0	1.0	5.0	2.0
27	7.0	4.0	1.5	0.5	0.0	0.0	0.0	0.0	4.5	1.0	6.5	0.5
28	5.0	0.5	2.0	1.0	0.0	0.0	0.5	0.0	4.0	0.5	0.5	0.0
29	2.5	0.5	2.5	1.0	0.0	0.0	0.5	0.0	---	---	0.0	0.0
30	2.5	0.5	2.5	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	3.5	1.0	---	---	0.5	0.5	0.5	0.0	---	---	0.0	0.0
MONTH	12.5	0.5	5.5	0.0	2.5	0.0	1.0	0.0	4.5	0.0	6.5	0.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	6.5	1.5	8.5	2.0	11.5	5.0	16.0	8.5	15.5	9.5
2	0.0	0.0	6.0	1.5	8.5	2.0	10.5	5.0	15.5	7.5	16.0	10.0
3	0.0	0.0	7.0	1.5	8.5	2.0	9.5	4.5	16.0	8.0	15.0	11.0
4	0.0	0.0	6.5	1.0	8.5	2.0	12.0	5.0	16.0	8.0	15.5	9.5
5	0.0	0.0	6.5	1.0	8.5	1.0	11.5	4.0	16.5	8.0	15.5	9.5
6	0.0	0.0	7.0	1.0	9.0	2.0	13.0	5.0	16.5	9.0	14.0	10.5
7	0.5	0.0	6.5	1.5	9.5	2.0	12.0	6.0	12.5	11.0	15.5	9.0
8	0.5	0.0	5.0	1.5	9.5	2.5	12.5	6.0	17.0	9.5	16.0	10.0
9	0.5	0.0	5.5	1.0	10.0	2.5	13.5	4.5	17.5	10.0	15.5	9.5
10	0.5	0.0	5.0	1.0	10.0	3.0	14.0	5.0	16.5	9.5	14.5	9.5
11	0.5	0.0	7.0	1.0	8.0	3.0	14.5	5.5	16.5	9.0	13.0	7.0
12	0.5	0.0	8.0	1.5	8.0	3.5	14.0	6.0	17.0	9.0	13.0	7.0
13	1.5	0.0	7.0	1.5	7.5	3.0	14.0	5.5	17.0	9.5	13.0	7.5
14	3.0	0.0	6.5	1.5	10.0	3.0	14.5	6.0	17.0	9.5	12.5	7.0
15	4.5	0.0	7.5	1.5	10.0	3.5	14.0	6.0	16.5	9.5	8.0	5.5
16	5.0	0.0	7.5	1.5	10.0	3.5	14.0	6.5	17.0	10.0	8.0	4.5
17	5.5	0.0	7.0	2.0	9.5	4.0	14.5	6.0	17.5	10.0	8.0	5.5
18	5.5	0.5	7.0	1.5	10.0	4.0	14.5	6.0	17.5	11.0	9.0	7.0
19	5.5	0.5	7.5	1.5	7.5	4.0	15.0	6.5	15.5	11.0	10.5	7.0
20	5.5	0.5	8.0	1.5	10.0	3.5	15.0	6.5	17.0	11.0	10.5	5.0
21	6.0	0.0	8.0	2.0	10.5	4.0	15.5	7.0	18.5	11.0	10.5	5.0
22	6.5	0.5	8.0	2.0	11.0	3.5	15.5	6.5	18.5	12.0	12.0	6.0
23	6.5	1.0	8.0	2.0	11.0	4.0	14.0	8.0	17.5	12.5	12.0	7.0
24	6.0	1.0	8.0	2.0	8.5	4.5	16.0	8.5	17.5	11.5	12.5	9.0
25	6.0	1.0	8.0	2.0	11.0	4.5	16.0	8.0	17.5	11.0	11.0	9.0
26	5.5	1.5	8.0	2.5	11.5	4.0	16.5	8.5	16.5	11.5	11.0	7.0
27	6.5	1.0	7.0	2.0	9.0	5.0	16.5	9.0	16.0	10.5	10.0	5.0
28	6.5	1.5	7.5	1.5	8.5	5.5	16.5	8.5	13.5	11.5	9.0	5.0
29	6.0	0.5	6.5	1.5	7.0	5.0	17.5	9.0	13.5	11.0	7.5	2.0
30	7.0	1.0	8.5	2.0	9.0	5.0	17.0	8.5	15.5	8.5	7.5	4.0
31	---	---	8.5	2.5	---	---	16.5	8.0	15.5	9.0	---	---
MONTH	7.0	0.0	8.5	1.0	11.5	1.0	17.5	4.0	18.5	7.5	16.0	2.0

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	.39	2	.00	2.9	1	.01	34	3	.28
2	.38	2	.00	3.2	1	.01	33	3	.27
3	.52	2	.00	3.5	1	.01	30	3	.24
4	.59	2	.00	3.0	1	.01	27	3	.22
5	.54	2	.00	2.9	0	.00	25	3	.20
6	.51	2	.00	3.3	0	.00	24	3	.19
7	2.2	6	.04	3.3	0	.00	24	3	.19
8	1.4	3	.01	3.1	0	.00	23	3	.19
9	1.0	2	.01	2.8	1	.01	24	3	.19
10	1.9	4	.02	2.6	1	.01	24	3	.19
11	2.3	2	.01	2.7	1	.01	23	3	.19
12	1.4	2	.01	13	10	.56	22	3	.18
13	1.1	1	.00	139	248	197	21	4	.23
14	1.1	1	.00	104	82	49	38	8	.82
15	.96	1	.00	126	74	37	58	16	2.5
16	.90	1	.00	100	24	6.5	45	12	1.5
17	1.3	1	.00	123	43	20	36	9	.87
18	1.4	1	.00	44	6	.71	42	19	3.5
19	1.1	1	.00	30	5	.41	709	1510	3720
20	1.0	1	.00	25	5	.34	680	836	1930
21	.96	1	.00	178	208	217	199	57	33
22	.84	1	.00	188	40	23	137	17	6.3
23	.77	1	.00	424	432	664	96	12	3.1
24	.76	0	.00	316	411	569	81	13	2.8
25	.71	0	.00	107	30	8.7	70	10	1.9
26	.71	0	.00	78	13	2.7	65	11	1.9
27	1.2	2	.01	62	9	1.5	68	10	1.8
28	8.7	8	.25	50	7	.95	55	3	.45
29	4.0	2	.02	41	5	.55	53	2	.29
30	2.8	1	.01	37	4	.40	55	2	.30
31	2.5	1	.01	---	---	---	45	2	.24
TOTAL	45.94	---	0.40	2218.3	---	1799.39	2866	---	5714.03

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY				FEBRUARY			MARCH		
1	42	2	.23	13	2	.07	38	4	.41
2	42	2	.23	13	2	.07	38	3	.31
3	42	2	.23	13	2	.07	32	3	.26
4	37	4	.40	12	2	.06	29	2	.16
5	33	8	.71	12	2	.06	28	1	.08
6	31	9	.75	12	2	.06	26	1	.07
7	30	9	.73	11	2	.06	25	0	.00
8	29	9	.70	11	2	.06	25	0	.00
9	28	9	.68	11	2	.06	24	0	.00
10	27	9	.66	11	2	.06	33	0	.00
11	25	9	.61	11	2	.06	48	4	.52
12	24	9	.58	11	2	.06	37	2	.20
13	23	8	.50	30	5	.90	34	1	.09
14	22	4	.24	191	93	51	33	1	.09
15	21	1	.06	393	318	549	29	1	.08
16	21	1	.06	518	578	1030	26	1	.07
17	21	1	.06	176	60	29	26	1	.07
18	20	1	.05	103	14	3.9	24	1	.06
19	19	1	.05	75	8	1.6	22	1	.06
20	18	1	.05	68	7	1.3	21	1	.06
21	18	1	.05	76	7	1.4	20	1	.05
22	17	1	.05	88	7	1.7	19	1	.05
23	16	1	.04	72	8	1.6	19	1	.05
24	16	1	.04	60	8	1.3	19	1	.05
25	16	1	.04	54	7	1.0	20	1	.05
26	15	2	.08	48	5	.65	19	1	.05
27	15	2	.08	43	5	.58	19	1	.05
28	15	2	.08	39	4	.42	19	1	.05
29	13	2	.07	---	---	---	19	1	.05
30	13	2	.07	---	---	---	19	1	.05
31	13	2	.07	---	---	---	18	1	.05
TOTAL	722	---	8.25	2175	---	1676.10	808	---	3.14

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	18	1	.05	119	10	3.2	132	20	7.1
2	18	1	.05	126	10	3.4	126	13	4.4
3	18	1	.05	133	30	11	122	13	4.3
4	18	1	.05	132	10	3.6	112	10	3.0
5	17	1	.05	131	10	3.5	106	8	2.3
6	17	1	.05	132	13	4.6	90	8	1.9
7	16	1	.04	151	33	13	94	7	1.8
8	16	1	.04	153	20	8.3	101	8	2.2
9	18	1	.05	123	10	3.3	111	9	2.7
10	26	5	.35	99	10	2.7	130	10	3.5
11	170	200	92	93	10	2.5	145	10	3.9
12	180	65	32	97	12	3.1	133	10	3.6
13	80	20	4.3	111	15	4.5	123	7	2.3
14	61	9	1.5	110	10	3.0	135	14	5.1
15	54	4	.58	120	12	3.9	163	15	6.6
16	50	3	.41	140	17	6.4	183	15	7.4
17	48	3	.39	163	17	7.5	186	15	7.5
18	53	3	.43	160	13	5.6	191	51	34
19	51	3	.41	142	13	5.0	221	20	12
20	49	3	.40	150	23	9.3	187	18	9.1
21	48	3	.39	178	26	14	169	15	6.8
22	53	3	.43	205	40	26	148	13	5.2
23	70	4	.76	225	35	24	135	12	4.4
24	87	4	.94	239	38	27	125	11	3.7
25	87	4	.94	239	42	29	119	10	3.2
26	91	5	1.2	258	53	41	113	8	2.4
27	92	5	1.2	248	51	34	110	6	1.8
28	98	5	1.3	203	27	15	107	5	1.4
29	91	4	.98	156	10	4.2	109	5	1.5
30	94	8	2.0	141	12	4.6	87	5	1.2
31	---	---	---	143	15	5.8	---	---	---
TOTAL	1789	---	143.34	4820	---	332.0	4013	---	156.3

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY				AUGUST			SEPTEMBER		
1	81	4	.87	19	0	.00	3.5	2	.02
2	74	4	.80	17	0	.00	3.3	2	.02
3	72	3	.58	15	0	.00	3.1	2	.02
4	64	3	.52	14	0	.00	2.8	2	.02
5	61	2	.33	13	0	.00	2.7	2	.01
6	60	2	.32	12	0	.00	3.0	2	.02
7	61	2	.33	13	0	.00	2.7	1	.01
8	60	2	.32	13	1	.04	2.5	1	.01
9	57	2	.31	12	1	.03	2.4	1	.01
10	56	2	.30	10	2	.05	2.5	1	.01
11	56	2	.30	9.9	2	.05	2.6	1	.01
12	56	2	.30	9.2	2	.05	2.6	0	.00
13	56	2	.30	8.6	2	.05	2.6	0	.00
14	54	1	.15	8.2	2	.04	2.3	0	.00
15	52	1	.14	7.7	3	.06	3.2	0	.00
16	48	1	.13	7.0	3	.06	7.1	0	.00
17	43	0	.00	6.8	3	.06	7.5	1	.02
18	39	0	.00	6.7	3	.05	8.5	1	.02
19	37	0	.00	6.8	3	.06	9.7	1	.03
20	33	0	.00	6.8	3	.06	7.1	1	.02
21	32	0	.00	6.4	2	.03	5.4	1	.01
22	30	0	.00	5.8	2	.03	4.7	1	.01
23	28	0	.00	5.7	2	.03	3.7	1	.01
24	29	0	.00	5.3	2	.03	20	47	3.9
25	28	0	.00	5.0	2	.03	36	88	9.8
26	28	0	.00	4.6	2	.02	24	12	.78
27	27	0	.00	4.0	2	.02	16	2	.09
28	26	0	.00	4.6	2	.02	13	1	.04
29	24	0	.00	4.4	2	.02	12	0	.00
30	23	0	.00	4.1	2	.02	12	0	.00
31	21	0	.00	3.6	2	.02	---	---	---
TOTAL	1416	---	6.00	269.2	---	0.93	228.5	---	14.89

YEAR 21370.94

9854.77

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDIM- ENT, SUS- PENDED (MG/L)	SEDIM- ENT, 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
NOV								
13...	2145	356	2.0	732	891	8	12	18
15...	1015	98	3.0	46	11	--	--	--
15...	1650	237	3.0	147	108	--	--	--
15...	1710	231	3.5	127	79	--	--	--
16...	0900	109	3.5	16	4.7	--	--	--
21...	2100	441	1.5	411	489	--	--	--
22...	0840	181	3.0	22	11	--	--	--
23...	2030	667	3.0	977	1760	--	--	--
24...	0030	756	3.0	1410	2880	--	--	--
24...	1715	186	2.0	85	43	--	--	--
DEC								
19...	0715	496	1.5	1150	1540	--	--	--
19...	1945	1190	2.0	2170	6970	--	--	--
20...	0300	1090	2.5	1740	5120	--	--	--
20...	0905	740	3.5	549	1100	6	10	15
20...	1330	711	2.0	604	1160	--	--	--
20...	1730	377	2.5	296	301	--	--	--
FEB								
15...	1130	268	--	215	156	--	--	--
16...	0315	896	1.0	1000	2420	--	--	--
16...	1000	459	2.5	598	741	6	8	12
16...	1600	314	--	282	239	--	--	--
17...	1100	169	2.0	52	24	--	--	--
APR								
11...	1100	170	1.0	267	587	--	--	--
11...	1600	170	1.0	331	527	--	--	--
MAY								
03...	1850	148	4.0	91	39	--	--	--
19...	1835	164	5.0	53	4.0	--	--	--
24...	1900	276	5.0	169	126	--	--	--
31...	1840	177	6.0	21	10	--	--	--
JUN								
14...	1925	175	6.5	25	9.4	--	--	--
18...	2115	298	6.0	381	26	--	--	--
SEP								
24...	0850	30	9.0	171	14	--	--	--
25...	0845	49	9.5	140	19	--	--	--
25...	1540	45	11.5	112	14	--	--	--
25...	2045	52	10.0	73	10	--	--	--

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336689 SNOW CREEK AT TAHOE VISTA, CA

LOCATION.--Lat 39°14'18", long 120°02'19", in SE¼NW¼ sec.13, T.16 N., R.17 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft (90 m) downstream from State Highway 28, 0.6 mi (1.0 km) east of Tahoe Vista Post Office, and 20 ft (6 m) upstream from Lake Tahoe.

DRAINAGE AREA.--4.43 mi² (11.5 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 6,225.24 ft (1,897.453 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except flow below 1 ft³/s (0.028 m³/s) and from May 27 to Sept. 30, which are poor. Some small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53 ft³/s (1.50 m³/s) Feb. 16, 1982, gage height, 3.15 ft (0.960 m), no flow many days during July, August, and September 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 20	0415	34	0.96	2.93	0.893	Apr. 11	0100	24	0.68	2.82	0.860
Feb. 16	1615	*53	1.50	3.15	.960	May 4	2000	31	.88	2.87	.875

Minimum daily, 0.01 ft³/s (0.0003 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.12	.56	3.1	1.1	10	3.2	26	7.9	1.5	.42	.15
2	.03	.11	.53	3.0	1.1	8.8	3.1	27	7.4	1.5	.40	.15
3	.06	.10	.52	2.5	1.1	6.3	3.0	27	7.0	1.4	.38	.14
4	.06	.08	.46	2.5	1.1	4.8	3.0	28	6.6	1.4	.36	.14
5	.06	.06	.46	2.4	1.1	3.8	3.0	27	6.0	1.4	.35	.13
6	.06	.08	.46	2.3	1.1	3.1	3.0	25	5.2	1.4	.34	.13
7	.13	.06	.46	2.1	1.0	2.5	3.0	26	4.5	1.3	.34	.12
8	.08	.05	.43	2.0	1.0	3.2	3.0	25	4.1	1.3	.33	.12
9	.06	.05	.51	1.9	1.0	2.4	3.7	23	4.3	1.2	.32	.12
10	.09	.05	.65	1.8	1.0	4.9	11	21	4.6	1.2	.31	.12
11	.10	.05	.53	1.7	.97	10	16	18	4.9	1.1	.30	.11
12	.11	.67	.54	1.7	.97	7.2	17	16	4.6	1.1	.29	.11
13	.11	2.9	.61	1.6	1.1	7.1	16	15	3.9	1.0	.27	.11
14	.10	2.1	.67	1.6	1.2	8.5	16	15	3.1	.97	.26	.11
15	.10	.60	.82	1.5	4.8	6.9	16	14	2.7	.92	.24	.15
16	.12	.43	.69	1.4	44	5.6	16	14	2.7	.88	.23	.18
17	.12	1.8	.54	1.4	31	4.3	17	15	2.8	.84	.22	.23
18	.09	.56	.64	1.4	19	3.8	20	14	3.0	.80	.21	.24
19	.12	.46	11	1.3	13	2.3	19	14	3.5	.76	.20	.23
20	.12	.41	26	1.3	13	1.4	19	13	3.7	.72	.19	.22
21	.15	6.4	16	1.2	15	.72	18	13	2.9	.68	.18	.18
22	.14	3.1	10	1.1	18	.49	20	13	2.6	.66	.18	.17
23	.14	5.2	8.2	1.0	16	.42	22	13	2.4	.62	.18	.17
24	.14	8.2	5.8	.99	13	.84	24	13	2.2	.60	.17	1.0
25	.14	2.7	4.9	1.0	11	2.4	23	13	2.1	.57	.17	2.2
26	.18	1.8	4.4	1.0	9.9	2.4	24	13	2.0	.55	.16	1.0
27	.20	1.1	4.3	1.0	8.5	3.6	25	12	1.9	.53	.16	.70
28	.49	.77	3.4	1.1	7.9	4.3	26	11	1.8	.50	.16	.63
29	.19	.70	3.8	1.1	---	4.3	25	10	1.7	.48	.16	.60
30	.11	.60	4.4	1.1	---	3.9	24	9.3	1.6	.46	.15	.58
31	.09	---	3.4	1.1	---	3.5	---	8.6	---	.44	.15	---
TOTAL	3.70	41.31	115.68	50.19	238.94	133.77	442.0	531.9	113.7	28.78	7.78	10.24
MEAN	.12	1.38	3.73	1.62	8.53	4.32	14.7	17.2	3.79	.93	.25	.34
MAX	.49	8.2	26	3.1	44	10	26	28	7.9	1.5	.42	2.2
MIN	.01	.05	.43	.99	.97	.42	3.0	8.6	1.6	.44	.15	.11
AC-FT	7.3	82	229	100	474	265	877	1060	226	57	15	20

CAL YR 1981 TOTAL 264.81 MEAN .73 MAX 26 MIN .00 AC-FT 525
WTR YR 1982 TOTAL 1717.99 MEAN 4.71 MAX 44 MIN .01 AC-FT 3410

ye discharge relation affected by backwater from Lake Tahoe, May 26 to Sept. 30.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: October 1980 to current year.

WATER TEMPERATURES: October 1980 to current year.

SEDIMENT RECORDS: October 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1981 to current year.

WATER TEMPERATURES: June 1981 to current year.

SEDIMENT RECORDS: October 1980 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 210 micromhos Apr. 10, 1982; minimum daily, 67 micromhos Nov. 16, 1982.

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 ton (21 metric ton) Nov. 21, 1981; minimum daily, 0 ton (0 metric ton) on many days during most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 210 micromhos Apr. 10; minimum daily, 67 micromhos Nov. 16.

WATER TEMPERATURES: Maximum recorded, 22.0°C June 23, July 10, 13; minimum recorded, 0.0 °C on several days during winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 936 mg/L Oct. 7; minimum daily mean, 1 mg/L on several days in March, May, and September.

SEDIMENT DISCHARGE: Maximum daily, 23 tons (21 metric tons) Nov. 21; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	165	144	---	160	145	174	107	87	118	118	155
2	---	168	146	---	161	145	179	104	87	120	115	157
3	---	172	148	---	161	154	180	104	88	120	115	159
4	---	169	149	---	162	159	182	101	89	122	112	159
5	---	172	147	---	163	156	185	101	90	123	113	158
6	---	172	---	---	162	154	191	101	91	124	112	158
7	---	170	---	---	161	154	192	98	92	126	116	---
8	---	170	---	---	160	152	194	97	92	126	127	---
9	---	169	150	---	161	154	196	98	94	126	126	---
10	---	167	150	---	157	150	198	100	95	126	123	---
11	---	164	151	---	161	146	183	101	96	128	124	---
12	---	165	153	---	155	151	196	102	97	129	122	---
13	---	104	148	---	144	153	203	101	97	129	122	---
14	---	121	149	---	145	153	200	99	98	131	123	---
15	---	92	147	---	131	157	189	97	100	130	125	---
16	---	67	150	---	121	156	185	96	101	130	125	---
17	---	117	151	---	130	155	179	95	103	131	127	---
18	---	143	146	---	136	156	172	93	107	132	131	---
19	---	147	---	---	138	156	173	92	110	132	133	---
20	---	147	---	---	---	155	168	90	111	132	136	---
21	---	101	---	---	---	153	164	88	111	135	139	---
22	---	126	---	---	---	152	159	86	113	136	140	---
23	---	106	---	---	---	152	154	84	114	134	142	---
24	---	114	---	---	---	153	146	84	116	136	144	---
25	---	134	---	---	147	156	140	83	117	134	146	---
26	---	138	---	160	149	159	134	86	118	131	147	---
27	99	141	---	161	148	161	127	89	119	129	147	---
28	114	143	---	159	149	163	121	90	118	125	147	---
29	136	145	---	162	---	166	115	89	117	128	150	---
30	146	145	---	161	---	168	111	85	118	125	155	---
31	160	---	---	159	---	171	---	85	---	122	154	---
MONTH	---	142	---	---	151	155	170	94	103	128	131	---

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	6.5	3.5	3.0	1.0	---	---	1.0	0.5	4.0	1.0
2	---	---	6.5	3.5	3.0	1.0	---	---	1.0	0.5	1.0	0.0
3	---	---	6.5	3.5	2.5	0.5	---	---	1.5	0.5	3.0	0.5
4	---	---	7.0	4.0	3.0	1.0	---	---	1.0	0.5	5.0	0.5
5	---	---	7.0	4.5	3.5	1.0	---	---	0.5	0.5	5.0	0.5
6	---	---	8.0	6.0	---	---	---	---	0.5	0.5	5.0	0.0
7	---	---	7.0	5.0	---	---	---	---	0.5	0.5	4.5	0.5
8	---	---	6.5	4.5	---	---	---	---	1.0	0.5	8.5	1.5
9	---	---	6.0	4.5	4.0	1.5	---	---	1.0	0.5	7.0	1.0
10	---	---	6.0	5.0	4.5	1.5	---	---	---	---	6.0	2.5
11	---	---	6.0	5.0	3.0	1.0	---	---	---	---	4.5	1.5
12	---	---	6.0	5.5	1.5	0.5	---	---	---	---	9.0	1.0
13	---	---	5.0	4.5	3.0	1.0	---	---	---	---	9.0	1.0
14	---	---	6.5	3.5	5.0	2.0	---	---	---	---	7.0	1.5
15	---	---	9.0	4.0	4.5	2.0	---	---	---	---	8.0	1.5
16	---	---	8.5	5.5	3.5	1.0	---	---	---	---	---	---
17	---	---	6.5	4.0	3.0	1.0	---	---	---	---	---	---
18	---	---	5.0	2.0	3.5	2.0	---	---	---	---	---	---
19	---	---	5.5	1.5	---	---	---	---	---	---	---	---
20	---	---	7.5	2.5	---	---	---	---	---	---	---	---
21	---	---	4.0	2.0	---	---	---	---	---	---	---	---
22	---	---	6.0	3.0	---	---	---	---	---	---	---	---
23	---	---	7.0	5.0	---	---	---	---	---	---	---	---
24	---	---	5.5	4.0	---	---	---	---	---	---	10.5	1.0
25	---	---	4.0	1.5	---	---	---	---	6.0	1.0	10.0	2.0
26	---	---	2.0	1.5	---	---	0.5	0.5	6.0	1.0	6.5	2.5
27	7.0	6.5	2.0	1.5	---	---	0.5	0.0	8.0	2.0	9.5	2.0
28	7.0	6.0	2.5	1.0	---	---	1.0	0.5	7.0	1.5	3.0	0.5
29	5.5	4.5	2.5	1.0	---	---	0.5	0.0	---	---	1.0	0.0
30	5.0	3.5	2.0	0.5	---	---	0.5	0.0	---	---	0.5	0.0
31	6.5	3.5	---	---	---	---	1.0	0.5	---	---	0.0	0.0
MONTH	---	---	9.0	0.5	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	14.0	2.5	16.5	5.5	16.0	11.5	19.0	15.5		
2	0.0	0.0	14.0	3.0	16.5	6.0	19.5	10.5	19.0	14.0		
3	0.0	0.0	14.5	3.0	16.5	5.5	18.0	10.0	17.0	14.5		
4	0.5	0.0	13.5	3.5	15.0	6.0	18.5	11.0	17.5	15.0		
5	1.5	0.0	13.5	2.5	14.5	5.5	21.0	9.5	17.0	12.5		
6	2.0	0.0	14.5	3.0	16.0	5.5	21.5	11.0	16.5	15.5		
7	2.5	0.0	14.0	4.0	16.5	6.0	21.0	12.5	17.0	16.5		
8	4.0	0.5	11.5	4.0	17.5	6.5	21.5	13.0	17.5	16.0		
9	5.5	0.5	7.0	3.0	18.5	7.0	21.5	11.0	17.5	16.0		
10	4.0	0.5	10.0	2.5	19.0	8.0	22.0	12.0	18.0	14.5		
11	1.5	0.5	11.0	2.0	16.5	9.5	22.0	12.5	17.5	14.0		
12	4.5	0.5	14.0	3.0	15.5	9.0	21.5	13.0	17.0	14.5		
13	4.0	1.0	14.5	4.0	14.0	8.0	21.5	13.0	16.0	15.0		
14	8.0	1.5	12.0	4.5	19.5	8.5	20.5	13.5	16.5	14.5		
15	9.0	0.5	14.5	4.0	20.5	9.5	20.5	13.0	16.0	14.0		
16	10.5	0.5	16.0	4.5	20.0	10.5	18.5	13.0	15.5	14.5		
17	11.5	1.0	14.5	5.5	17.5	11.5	17.5	12.5	16.0	15.0		
18	12.0	1.0	14.5	4.5	20.0	11.0	14.5	13.5	16.5	15.5		
19	11.5	1.5	15.5	4.0	16.0	11.0	18.0	13.5	16.5	16.0		
20	11.0	1.0	16.0	5.0	21.0	11.0	18.5	13.5	16.0	15.5		
21	12.0	1.0	16.5	5.5	21.0	11.0	20.0	13.5	16.5	16.0		
22	13.0	1.5	17.5	6.5	21.0	11.0	19.0	16.0	17.0	16.5		
23	13.0	2.0	17.0	6.5	22.0	11.0	19.5	17.5	17.0	17.0		
24	13.0	2.0	17.5	7.0	17.0	11.5	20.5	18.0	17.0	15.5		
25	10.5	2.5	18.5	7.5	21.0	11.0	19.5	17.0	16.5	15.5		
26	11.5	3.0	18.0	7.5	21.5	11.0	19.0	17.0	17.0	15.5		
27	13.5	2.0	16.5	8.0	20.0	12.0	20.0	17.0	17.0	14.5		
28	12.5	2.5	16.0	5.5	16.5	13.0	19.0	16.5	16.0	15.5		
29	11.5	2.0	13.5	6.0	15.5	11.5	21.0	16.5	17.0	15.0		
30	13.0	2.0	16.5	5.5	16.0	11.0	19.0	16.5	16.5	13.5		
31	---	---	15.0	6.5	---	---	19.5	15.5	15.0	13.5		
MONTH	13.5	0.0	18.5	2.0	22.0	5.5	22.0	9.5	19.0	12.5		

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.01	8	.00	.12	30	.01	.56	2	.00
2	.03	8	.00	.11	50	.01	.53	2	.00
3	.06	8	.00	.10	70	.02	.52	2	.00
4	.06	8	.00	.08	50	.01	.46	3	.00
5	.06	8	.00	.06	35	.01	.46	3	.00
6	.06	8	.00	.08	40	.01	.46	3	.00
7	.13	936	.42	.06	42	.01	.46	4	.00
8	.08	70	.02	.05	12	.00	.43	4	.00
9	.06	20	.00	.05	10	.00	.51	4	.01
10	.09	70	.02	.05	10	.00	.65	4	.01
11	.10	12	.00	.05	10	.00	.53	4	.01
12	.11	8	.00	.67	233	.63	.54	4	.01
13	.11	5	.00	2.9	281	3.0	.61	4	.01
14	.10	5	.00	2.1	50	.28	.67	4	.01
15	.10	5	.00	.60	5	.01	.82	4	.01
16	.12	5	.00	.43	5	.01	.69	4	.01
17	.12	5	.00	1.8	83	.59	.54	4	.01
18	.09	5	.00	.56	5	.01	.64	6	.01
19	.12	5	.00	.46	5	.01	11	133	4.2
20	.12	5	.00	.41	5	.01	26	176	14
21	.15	5	.00	6.4	748	23	16	6	.31
22	.14	5	.00	3.1	20	.17	10	5	.15
23	.14	5	.00	5.2	52	.83	8.2	5	.11
24	.14	5	.00	8.2	66	2.1	5.8	5	.08
25	.14	5	.00	2.7	3	.02	4.9	5	.07
26	.18	5	.00	1.8	3	.01	4.4	5	.06
27	.20	5	.00	1.1	3	.01	4.3	4	.05
28	.49	101	.16	.77	3	.01	3.4	4	.04
29	.19	45	.02	.70	2	.00	3.8	4	.04
30	.11	30	.01	.60	2	.00	4.4	4	.05
31	.09	20	.00	---	---	---	3.4	4	.04
TOTAL	3.70	---	0.65	41.31	---	30.78	115.68	---	19.30
JANUARY			FEBRUARY			MARCH			
1	3.1	4	.03	1.1	2	.01	10	5	.14
2	3.0	4	.03	1.1	2	.01	8.8	4	.10
3	2.5	4	.03	1.1	2	.01	6.3	4	.07
4	2.5	4	.03	1.1	2	.01	4.8	3	.04
5	2.4	3	.02	1.1	2	.01	3.8	3	.03
6	2.3	3	.02	1.1	2	.01	3.1	3	.03
7	2.1	3	.02	1.0	2	.01	2.5	2	.01
8	2.0	3	.02	1.0	2	.01	3.2	3	.03
9	1.9	3	.02	1.0	2	.01	2.4	2	.01
10	1.8	3	.01	1.0	2	.01	4.9	4	.05
11	1.7	3	.01	.97	2	.01	10	7	.19
12	1.7	3	.01	.97	2	.01	7.2	2	.04
13	1.6	3	.01	1.1	3	.01	7.1	2	.04
14	1.6	3	.01	1.2	23	.09	8.5	2	.05
15	1.5	2	.01	4.8	81	1.4	6.9	2	.04
16	1.4	2	.01	44	133	15	5.6	1	.02
17	1.4	2	.01	31	7	.59	4.3	1	.01
18	1.4	2	.01	19	6	.31	3.8	1	.01
19	1.3	2	.01	13	5	.18	2.3	1	.01
20	1.3	2	.01	13	5	.18	1.4	1	.00
21	1.2	2	.01	15	6	.24	.72	1	.00
22	1.1	2	.01	18	5	.24	.49	1	.00
23	1.0	2	.01	16	4	.17	.42	1	.00
24	.99	2	.01	13	4	.14	.84	3	.01
25	1.0	2	.01	11	4	.12	2.4	4	.03
26	1.0	2	.01	9.9	4	.11	2.4	2	.01
27	1.0	2	.01	8.5	4	.09	3.6	2	.02
28	1.1	2	.01	7.9	4	.09	4.3	2	.02
29	1.1	2	.01	---	---	---	4.3	2	.02
30	1.1	2	.01	---	---	---	3.9	2	.02
31	1.1	2	.01	---	---	---	3.5	2	.02
TOTAL	50.19	---	0.44	238.94	---	19.08	133.77	---	1.07

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	3.2	2	.02	26	4	.28	7.9	7	.15
2	3.1	2	.02	27	4	.29	7.4	7	.14
3	3.0	2	.02	27	4	.29	7.0	7	.13
4	3.0	2	.02	28	4	.30	6.6	7	.12
5	3.0	2	.02	27	4	.29	6.0	7	.11
6	3.0	2	.02	25	4	.27	5.2	7	.10
7	3.0	2	.02	26	4	.28	4.5	8	.10
8	3.0	2	.02	25	4	.27	4.1	8	.09
9	3.7	4	.04	23	4	.25	4.3	8	.09
10	11	6	.18	21	4	.23	4.6	8	.10
11	16	14	.60	18	3	.15	4.9	8	.11
12	17	4	.18	16	2	.09	4.6	8	.10
13	16	4	.17	15	1	.04	3.9	8	.08
14	16	4	.17	15	1	.04	3.1	8	.07
15	16	5	.22	14	1	.04	2.7	7	.05
16	16	3	.13	14	2	.08	2.7	7	.05
17	17	3	.14	15	3	.12	2.8	6	.05
18	20	3	.16	14	5	.19	3.0	8	.06
19	19	3	.15	14	5	.19	3.5	5	.05
20	19	3	.15	13	5	.18	3.7	5	.05
21	18	2	.10	13	5	.18	2.9	4	.03
22	20	3	.16	13	5	.18	2.6	4	.03
23	22	3	.18	13	5	.18	2.4	4	.03
24	24	5	.32	13	10	.35	2.2	4	.02
25	23	4	.25	13	5	.18	2.1	4	.02
26	24	3	.19	13	7	.25	2.0	4	.02
27	25	3	.20	12	7	.23	1.9	4	.02
28	26	3	.21	11	7	.21	1.8	4	.02
29	25	3	.20	10	7	.19	1.7	3	.01
30	24	4	.26	9.3	7	.18	1.6	3	.01
31	---	---	---	8.6	7	.16	---	---	---
TOTAL	442.0	---	4.52	531.9	---	6.16	113.7	---	2.01

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	1.5	3	.01	.42	3	.00	.15	9	.00
2	1.5	3	.01	.40	3	.00	.15	10	.00
3	1.4	3	.01	.38	3	.00	.14	11	.00
4	1.4	3	.01	.36	3	.00	.14	8	.00
5	1.4	3	.01	.35	3	.00	.13	5	.00
6	1.4	3	.01	.34	3	.00	.13	5	.00
7	1.3	3	.01	.34	3	.00	.12	5	.00
8	1.3	3	.01	.33	3	.00	.12	5	.00
9	1.2	3	.01	.32	3	.00	.12	5	.00
10	1.2	3	.01	.31	3	.00	.12	5	.00
11	1.1	3	.01	.30	4	.00	.11	5	.00
12	1.1	3	.01	.29	4	.00	.11	5	.00
13	1.0	3	.01	.27	4	.00	.11	5	.00
14	.97	3	.01	.26	4	.00	.11	5	.00
15	.92	2	.00	.24	4	.00	.15	5	.00
16	.88	2	.00	.23	4	.00	.18	5	.00
17	.84	2	.00	.22	4	.00	.23	5	.00
18	.80	2	.00	.21	4	.00	.24	5	.00
19	.76	2	.00	.20	4	.00	.23	5	.00
20	.72	2	.00	.19	5	.00	.22	5	.00
21	.68	2	.00	.18	5	.00	.18	5	.00
22	.66	2	.00	.18	5	.00	.17	5	.00
23	.62	2	.00	.18	5	.00	.17	10	.00
24	.60	2	.00	.17	5	.00	1.0	27	.07
25	.57	2	.00	.17	5	.00	2.2	35	.21
26	.55	2	.00	.16	6	.00	1.0	4	.01
27	.53	2	.00	.16	6	.00	.70	2	.00
28	.50	3	.00	.16	7	.00	.63	2	.00
29	.48	3	.00	.16	7	.00	.60	2	.00
30	.46	3	.00	.15	8	.00	.58	1	.00
31	.44	3	.00	.15	8	.00	---	---	---
TOTAL	28.78	---	0.14	7.78	---	0.00	10.24	---	0.29

PYRAMID AND WINNEMUCCA LAKES BASIN

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT									
07...	1115	.12	8.5	1500	.49	2	--	--	--
07...	1245	.12	7.5	1090	.35	2	--	--	--
NOV									
12...	1330	.94	3.5	904	2.3	7	12	89	100
24...	0215	13	5.0	214	7.5	14	--	--	--
DEC									
20...	0115	30	4.0	262	21	5	--	--	--
FEB									
16...	0130	41	.5	184	20	14	--	--	--
SEP									
24...	1030	1.0	10.5	77	.21	13	--	--	--
25...	1420	2.2	12.5	52	.31	17	--	--	--

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 SW¼NE¼ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 50 ft (15 m) upstream from culvert on Lakeshore Boulevard, 600 ft (180 m) upstream from mouth and 3 mi (5 km) east of Crystal Bay.

DRAINAGE AREA.--6.05 mi² (15.7 km²).

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 (1,900.132 m) 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.--9 years (1970-73, 1978-82), 8.12 ft³/s (0.230 m³/s), 5,880 acre-ft/yr (7.25 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/s (4.25 m³/s) June 18, 1982, gage height, 3.40 ft (1.036 m); maximum gage height, 3.77 ft (1.149 m) Jan. 23, 1973, backwater from ice; minimum discharge, 0.66 ft³/s (0.019 m³/s) Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0200	46 1.30	2.79 0.850	Apr. 1	0400	30 0.85	2.69 0.820
Jan. 5	0200	44 1.25	2.81 0.856	May 26	2000	53 1.50	2.86 0.872
Feb. 15	2400	48 1.36	2.90 0.884	June 18	2300	*150 4.25	3.40 1.036

Minimum daily discharge, 1.4 ft³/s (0.040 m³/s) Oct. 1, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.0	4.5	5.8	2.4	5.5	5.4	15	37	47	16	3.7
2	1.5	3.1	4.3	5.6	2.4	5.4	5.4	18	37	39	14	3.6
3	1.6	2.7	4.1	5.3	2.4	5.3	5.2	21	37	38	12	3.6
4	1.7	3.0	3.9	5.1	2.3	5.1	5.1	22	36	35	11	3.4
5	1.6	2.7	3.9	4.9	2.3	5.0	5.0	22	34	33	11	3.3
6	1.4	3.3	3.8	4.8	2.3	5.0	4.9	23	32	35	9.8	3.2
7	2.2	2.9	3.6	4.6	2.3	4.9	4.9	26	31	35	9.8	3.1
8	1.7	2.6	3.6	4.5	2.3	5.3	5.0	27	32	36	10	3.0
9	1.6	2.5	3.8	4.3	2.4	5.3	7.5	24	34	32	9.2	3.0
10	2.0	2.6	4.3	4.1	2.5	6.7	13	19	37	32	8.3	3.2
11	1.8	2.5	3.8	4.0	2.6	7.9	23	17	39	35	7.7	3.1
12	1.7	5.9	3.8	3.9	2.8	6.7	18	16	39	34	8.6	2.9
13	1.7	16	4.1	3.7	3.9	6.8	15	17	37	32	9.2	2.9
14	1.7	8.3	3.9	3.7	7.5	6.9	12	18	35	36	8.7	3.0
15	1.8	5.9	4.5	3.6	20	6.0	11	18	39	32	7.1	5.3
16	5.0	5.7	3.9	3.5	24	5.7	10	21	53	29	6.5	6.8
17	2.1	6.4	3.6	3.4	12	6.1	11	21	71	27	6.0	4.9
18	1.8	4.6	3.9	3.2	9.1	5.8	11	22	85	25	5.5	5.4
19	2.0	4.1	25	3.1	8.6	5.3	11	22	99	24	5.7	9.9
20	2.9	3.6	34	3.0	9.5	5.4	10	23	74	22	5.4	13
21	1.7	9.2	18	2.9	11	5.5	10	25	69	23	5.1	6.1
22	1.6	7.2	13	2.8	11	5.5	11	28	69	24	5.0	4.1
23	1.6	13	9.2	2.8	8.6	5.7	12	31	67	24	5.1	3.4
24	1.6	15	8.3	2.7	7.3	6.1	12	33	63	26	4.9	7.7
25	1.6	8.0	7.4	2.6	6.3	6.4	12	39	59	29	4.7	15
26	1.5	6.4	7.0	2.6	5.9	6.1	12	39	60	27	4.3	8.9
27	1.7	5.7	6.8	2.6	5.8	6.1	12	37	61	28	4.2	7.4
28	4.4	5.2	6.4	2.6	5.7	6.0	13	36	54	27	4.2	6.9
29	2.7	5.0	6.7	2.5	---	5.8	13	35	48	26	4.1	8.3
30	2.5	4.8	7.3	2.4	---	5.6	12	34	42	22	4.0	7.7
31	2.7	---	6.0	2.4	---	5.5	---	37	---	21	3.9	---
TOTAL	62.8	170.9	226.4	113.0	185.2	180.4	312.4	786	1510	935	231.0	165.8
MEAN	2.03	5.70	7.30	3.65	6.61	5.82	10.4	25.4	50.3	30.2	7.45	5.53
MAX	5.0	16	34	5.8	24	7.9	23	39	99	47	16	15
MIN	1.4	2.5	3.6	2.4	2.3	4.9	4.9	15	31	21	3.9	2.9
AC-FT	125	339	449	224	367	358	620	1560	3000	1850	458	329
CAL YR 1981	TOTAL	1675.1	MEAN	4.59	MAX	34	MIN	1.3	AC-FT	3320		
WTR YR 1982	TOTAL	4878.9	MEAN	13.4	MAX	99	MIN	1.4	AC-FT	9680		

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 ANALYSES: Water years 1970-73, 1975, 1978-79.

SPECIFIC CONDUCTANCE: March 1981 to current year.

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 current year.

WATER TEMPERATURES: January 1980 to current year.

SEDIMENT RECORDS: January 1980 to current year.

COOPERATION.--Selected sediment samples and 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 several days during June to August 1981; minimum recorded, 0°C several days during March and April 1981.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 800 mg/L June 18, 1980; minimum daily mean, 0 mg/L several days during October 1980 and on Dec. 8, 1981.

SEDIMENT DISCHARGE.--Maximum daily, 183 tons (166 metric tons) June 19, 1982; minimum daily, 0 ton (0 metric ton) many days during October 1980 and on Dec. 8, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 107 micromhos Feb. 24-27; minimum daily, 23 micromhos July 12, 13.

WATER TEMPERATURES: Maximum recorded, 11.5°C Oct. 1; minimum recorded, 0°C several days during March.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 628 mg/L June 19; minimum daily mean, 0 mg/L Dec. 8.

SEDIMENT DISCHARGE: Maximum daily, 183 tons (166 metric tons) June 19; minimum daily, 0 ton (0 metric ton) Dec. 8.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69				---	---	---	69	31	26	30	
2	67				---	---	---	70	29	29	31	
3	66				---	---	---	69	31	30	---	
4	62				---	---	---	63	29	28	---	
5	60				---	92	---	58	29	27	---	
6	59				---	90	---	60	28	26	---	
7	61				---	90	---	56	29	26	---	
8	---				---	91	---	53	30	27	---	
9	---				---	90	---	51	28	26	---	
10	---				---	91	---	52	27	25	---	
11	---				---	90	---	51	32	25	---	
12	---				---	92	---	50	31	23	---	
13	---				---	91	---	48	32	23	---	
14	---				---	92	89	46	39	25	---	
15	---				---	94	92	44	36	26	---	
16	---				---	92	90	42	34	26	---	
17	---				---	96	84	43	33	28	---	
18	---				---	---	83	44	37	28	---	
19	---				---	---	82	37	50	32	---	
20	---				---	---	81	38	46	35	---	
21	---				---	92	81	41	32	36	---	
22	---				---	92	80	36	26	38	---	
23	---				---	92	79	38	24	35	---	
24	---				106	92	79	30	30	31	---	
25	---				105	---	80	32	29	31	---	
26	---				105	---	81	37	29	33	---	
27	---				105	---	86	35	26	28	---	
28	---				---	---	82	34	25	27	---	
29	---				---	---	75	33	27	27	---	
30	---				---	---	72	33	26	28	---	
31	---				---	---	---	29	---	29	---	
MONTH	---				---	---	---	46	31	29	---	

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.0							---	---	---	---
2	10.5	7.5							---	---	---	---
3	10.5	6.0							---	---	---	---
4	10.0	4.0							---	---	---	---
5	9.5	4.0							---	---	4.5	0.0
6	9.5	5.0							---	---	4.0	0.0
7	7.5	4.5							---	---	4.0	0.5
8	---	---							---	---	4.0	1.5
9	---	---							---	---	5.0	0.5
10	---	---							---	---	4.5	2.5
11	---	---							---	---	4.5	1.0
12	---	---							---	---	4.0	1.0
13	---	---							---	---	4.0	1.0
14	---	---							---	---	4.5	1.5
15	---	---							---	---	4.5	1.0
16	---	---							---	---	1.0	0.0
17	---	---							---	---	3.0	0.0
18	---	---							---	---	4.0	0.0
19	---	---							---	---	3.5	0.0
20	---	---							---	---	4.0	0.0
21	---	---							---	---	4.0	0.5
22	---	---							---	---	4.0	0.5
23	---	---							---	---	5.0	0.5
24	---	---							5.5	1.5	---	---
25	---	---							5.0	1.0	---	---
26	---	---							4.0	1.0	---	---
27	---	---							6.5	2.0	---	---
28	---	---							---	---	---	---
29	---	---							---	---	---	---
30	---	---							---	---	---	---
31	---	---							---	---	---	---
MONTH	---	---							---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	2	.01	3.0	3	.02	4.5	4	.05
2	1.5	2	.01	3.1	3	.03	4.3	3	.03
3	1.6	3	.01	2.7	2	.01	4.1	3	.03
4	1.7	3	.01	3.0	2	.02	3.9	2	.02
5	1.6	2	.01	2.7	2	.01	3.9	2	.02
6	1.4	2	.01	3.3	5	.04	3.8	1	.01
7	2.2	116	.98	2.9	2	.02	3.6	1	.01
8	1.7	2	.01	2.6	2	.01	3.6	0	0
9	1.6	2	.01	2.5	2	.01	3.8	2	.02
10	2.0	10	.06	2.6	2	.01	4.3	5	.06
11	1.8	3	.01	2.5	2	.01	3.8	4	.04
12	1.7	2	.01	5.9	126	2.6	3.8	3	.03
13	1.7	2	.01	16	199	12	4.1	4	.04
14	1.7	2	.01	8.3	30	.67	3.9	5	.05
15	1.8	3	.01	5.9	4	.06	4.5	8	.10
16	5.0	20	.28	5.7	3	.05	3.9	4	.04
17	2.1	3	.02	6.4	8	.14	3.6	4	.04
18	1.8	2	.01	4.6	4	.05	3.9	25	.26
19	2.0	5	.04	4.1	4	.04	25	460	36
20	2.9	12	.14	3.6	4	.04	34	216	22
21	1.7	2	.01	9.2	141	5.3	18	22	1.1
22	1.6	2	.01	7.2	15	.29	13	17	.60
23	1.6	2	.01	13	144	5.4	9.2	9	.22
24	1.6	2	.01	15	84	4.6	8.3	5	.11
25	1.6	2	.01	8.0	5	.11	7.4	5	.10
26	1.5	2	.01	6.4	4	.07	7.0	5	.09
27	1.7	2	.01	5.7	4	.06	6.8	5	.09
28	4.4	12	.19	5.2	4	.06	6.4	5	.09
29	2.7	4	.03	5.0	4	.05	6.7	5	.09
30	2.5	2	.01	4.8	4	.05	7.3	5	.10
31	2.7	3	.02	---	---	---	6.0	5	.08
TOTAL	62.8	---	1.98	170.9	---	31.83	226.4	---	61.52
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.8	5	.08	2.4	5	.03	5.5	9	.13
2	5.6	5	.08	2.4	5	.03	5.4	10	.15
3	5.3	5	.07	2.4	5	.03	5.3	10	.14
4	5.1	5	.07	2.3	5	.03	5.1	10	.14
5	4.9	5	.07	2.3	5	.03	5.0	10	.14
6	4.8	5	.06	2.3	5	.03	5.0	10	.14
7	4.6	5	.06	2.3	5	.03	4.9	10	.13
8	4.5	5	.06	2.3	5	.03	5.3	12	.17
9	4.3	5	.06	2.4	5	.03	5.3	14	.20
10	4.1	5	.06	2.5	5	.03	6.7	38	.75
11	4.0	5	.05	2.6	5	.04	7.9	30	.63
12	3.9	5	.05	2.8	5	.04	6.7	15	.27
13	3.7	5	.05	3.9	14	.15	6.8	13	.24
14	3.7	5	.05	7.5	30	.61	6.9	12	.22
15	3.6	4	.04	20	324	25	6.0	11	.18
16	3.5	4	.04	24	233	21	5.7	9	.14
17	3.4	4	.04	12	20	.65	6.1	8	.13
18	3.2	4	.03	9.1	21	.52	5.8	5	.08
19	3.1	4	.03	8.6	19	.44	5.3	3	.04
20	3.0	4	.03	9.5	22	.56	5.4	3	.04
21	2.9	4	.03	11	30	.89	5.5	3	.04
22	2.8	3	.02	11	29	.86	5.5	3	.04
23	2.8	3	.02	8.6	18	.42	5.7	2	.03
24	2.7	3	.02	7.3	9	.18	6.1	2	.03
25	2.6	3	.02	6.3	8	.14	6.4	2	.03
26	2.6	3	.02	5.9	7	.11	6.1	3	.05
27	2.6	3	.02	5.8	8	.13	6.1	3	.05
28	2.6	4	.03	5.7	8	.12	6.0	2	.03
29	2.5	4	.03	---	---	---	5.8	2	.03
30	2.4	4	.03	---	---	---	5.6	2	.03
31	2.4	5	.03	---	---	---	5.5	2	.03
TOTAL	113.0	---	1.35	185.2	---	52.16	180.4	---	4.45

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.4	2	.03	15	27	1.1	37	60	6.0
2	5.4	2	.03	18	35	1.7	37	56	5.6
3	5.2	2	.03	21	42	2.4	37	56	5.6
4	5.1	2	.03	22	51	3.0	36	58	5.6
5	5.0	2	.03	22	54	3.2	34	60	5.5
6	4.9	2	.03	23	52	3.2	32	60	5.2
7	4.9	2	.03	26	55	3.9	31	62	5.2
8	5.0	3	.04	27	48	3.5	32	70	6.0
9	7.5	5	.10	24	40	2.6	34	72	6.6
10	13	48	2.6	19	40	2.1	37	80	8.0
11	23	140	8.7	17	35	1.6	39	82	8.6
12	18	40	3.9	16	32	1.4	39	85	9.0
13	15	40	1.6	17	28	1.3	37	88	8.8
14	12	18	.58	18	25	1.2	35	78	7.4
15	11	18	.53	18	22	1.1	39	80	8.4
16	10	15	.41	21	35	2.0	53	249	39
17	11	15	.45	21	64	3.6	71	558	124
18	11	13	.39	22	48	2.9	85	552	146
19	11	15	.45	22	38	2.3	99	628	183
20	10	15	.41	23	55	3.4	74	350	70
21	10	18	.49	25	62	4.2	69	292	60
22	11	23	.68	28	70	5.3	69	286	55
23	12	32	1.0	31	65	5.4	67	196	34
24	12	30	.97	33	95	8.5	63	120	20
25	12	28	.91	39	212	23	59	110	18
26	12	27	.87	39	391	42	60	115	19
27	12	27	.87	37	329	33	61	98	16
28	13	25	.88	36	178	18	54	72	10
29	13	23	.81	35	115	11	48	53	6.9
30	12	23	.75	34	97	8.9	42	70	7.9
31	---	---	---	37	92	9.2	---	---	---
TOTAL	312.4	---	28.60	786	---	216.0	1510	---	910.3
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	47	90	11	16	7	.30	3.7	2	.02
2	39	53	5.6	14	8	.30	3.6	2	.02
3	38	50	5.1	12	8	.26	3.6	2	.02
4	35	45	4.3	11	9	.27	3.4	2	.02
5	33	50	4.5	11	9	.27	3.3	2	.02
6	35	52	4.9	9.8	10	.26	3.2	2	.02
7	35	50	4.7	9.8	10	.26	3.1	2	.02
8	36	38	3.7	10	10	.27	3.0	2	.02
9	32	22	1.9	9.2	10	.25	3.0	1	.01
10	32	22	1.9	8.3	10	.22	3.2	1	.01
11	35	22	2.1	7.7	10	.21	3.1	1	.01
12	34	22	2.0	8.6	20	.56	2.9	1	.01
13	32	20	1.7	9.2	10	.25	2.9	1	.01
14	36	23	2.2	8.7	8	.19	3.0	1	.01
15	32	20	1.7	7.1	6	.12	5.3	19	.37
16	29	18	1.4	6.5	4	.07	6.8	28	.56
17	27	12	.87	6.0	4	.06	4.9	6	.08
18	25	12	.81	5.5	4	.06	5.4	6	.09
19	24	10	.65	5.7	4	.06	9.9	22	.82
20	22	8	.48	5.4	4	.06	13	22	.77
21	23	8	.50	5.1	3	.04	6.1	13	.21
22	24	8	.52	5.0	3	.04	4.1	4	.04
23	24	7	.45	5.1	3	.04	3.4	4	.04
24	26	7	.49	4.9	3	.04	7.7	20	.42
25	29	7	.55	4.7	3	.04	15	64	3.2
26	27	7	.51	4.3	3	.03	8.9	10	.24
27	28	7	.53	4.2	3	.03	7.4	3	.06
28	27	6	.44	4.2	3	.03	6.9	3	.06
29	26	6	.42	4.1	3	.03	8.3	3	.07
30	22	6	.36	4.0	2	.02	7.7	3	.06
31	21	7	.40	3.9	2	.02	---	---	---
TOTAL	935	---	66.68	231.0	---	4.66	165.8	---	7.31
YEAR	4878.9		1386.84						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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								
07...	1015	3.4	6.5	359	3.3	--	--	--
NOV								
12...	1400	9.8	3.5	155	4.1	--	--	--
13...	1050	6.4	3.5	32	.55	--	--	--
14...	0210	12	3.5	76	2.5	--	--	--
23...	2315	21	4.0	162	9.2	--	--	--
24...	0300	26	4.0	342	24	--	--	--
DEC								
19...	1400	37	4.0	1050	105	--	--	--
20...	0200	42	3.5	378	43	--	--	--
FEB								
16...	0215	41	1.0	654	72	--	--	--
21...	1300	9.5	7.0	31	.80	--	--	--
MAR								
10...	1630	8.6	5.0	61	1.4	--	--	--
APR								
11...	1445	26	1.5	127	8.9	--	--	--
MAY								
05...	1810	21	5.5	52	2.9	--	--	--
19...	1130	20	5.5	21	1.1	--	--	--
24...	1635	31	6.5	96	8.0	--	--	--
26...	2000	53	4.0	743	106	--	--	--
26...	2220	44	3.0	922	110	--	--	--
27...	0250	44	3.5	472	56	--	--	--
JUN								
11...	1515	37	7.5	78	7.8	--	--	--
17...	1615	112	7.5	1590	481	6	8	12
19...	1600	97	8.0	634	166	--	--	--
25...	2030	71	8.0	157	30	--	--	--
SEP								
24...	1050	7.7	10.0	19	.40	--	--	--
25...	0730	26	11.5	211	15	--	--	--

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								
07...	--	--	90	--	--	--	--	--
NOV								
12...	--	--	84	89	96	100	--	--
13...	--	--	49	--	--	--	--	--
14...	--	--	31	--	--	--	--	--
23...	--	--	33	--	--	--	--	--
24...	--	--	31	--	--	--	--	--
DEC								
19...	--	--	27	--	--	--	--	--
20...	--	--	22	--	--	--	--	--
FEB								
16...	--	--	32	--	--	--	--	--
21...	--	--	38	--	--	--	--	--
MAR								
10...	--	--	76	--	--	--	--	--
APR								
11...	--	--	39	--	--	--	--	--
MAY								
05...	--	--	25	--	--	--	--	--
19...	--	--	31	--	--	--	--	--
24...	--	--	31	--	--	--	--	--
26...	--	--	25	38	54	74	93	100
26...	--	--	13	--	--	--	--	--
27...	--	--	12	--	--	--	--	--
JUN								
11...	--	--	15	--	--	--	--	--
17...	16	23	31	49	72	90	99	100
19...	--	--	16	--	--	--	--	--
25...	--	--	16	--	--	--	--	--
SEP								
24...	--	--	74	--	--	--	--	--
25...	--	--	59	81	93	100	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft (300 m) upstream from left side of dam, and 7.5 mi (12.1 km) west of Carson City.

DRAINAGE AREA.--2.86 mi² (7.41 km²).

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 (14.5 hm³) at spillway altitude 7,838.0 ft (2,389.02 m). Figures given herein represent total contents. Stored water is used for spawning fish for Pyramid and Walker Lakes and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,160 acre-ft (15.0 hm³) Jan. 14-16, 1980, altitude, 7,838.87 ft (2,389.29 m); minimum, 10,970 acre-ft (13.5 hm³) Nov. 10-13, 1976, altitude, 7,835.8 ft (2,388.35 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,100 acre-ft (14.9 hm³) May 27, altitude, 7,838.73 ft (2,389.24 m); minimum, 11,050 acre-ft (13.6 hm³) Oct. 7, altitude, 7,836.06 ft (2,388.43 m).

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 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11090	11120	11360	11860	11930	11940	12050	11970	12060	12020	11890	11880
2	11090	11120	11380	11880	11930	11990	12020	11970	12060	12010	11880	11870
3	11080	11130	11390	11870	11920	11980	12020	11970	12040	12000	11880	11870
4	11080	11140	11390	12040	11910	11970	12020	11990	12050	12000	11870	11870
5	11080	11140	11390	12060	11910	11960	12000	12000	12060	11990	11880	11870
6	11060	11140	11390	12030	11910	11950	12000	12000	12050	11990	11880	11860
7	11090	11140	11410	12020	11910	11950	11990	12000	12050	11980	11880	11850
8	11090	11140	11430	12000	11910	11940	11980	12000	12050	11970	11880	11840
9	11080	11160	11450	11990	11900	11940	11970	12000	12050	11970	11880	11830
10	11090	11160	11460	11980	11900	11950	12000	12000	12040	11970	11870	11830
11	11100	11180	11480	11970	11900	11970	12030	12000	12040	11970	11870	11830
12	11100	11220	11490	11960	11900	11960	12020	12010	12030	11960	11870	11830
13	11110	11280	11500	11950	11910	11950	12000	12010	12030	11960	11860	11820
14	11100	11310	11520	11940	11960	11960	12000	12020	12030	11960	11860	11800
15	11100	11310	11530	11940	12020	11950	12000	12020	12030	11950	11860	11830
16	11100	11310	11550	11930	12030	11940	11990	12030	12020	11940	11860	11860
17	11090	11310	11570	11910	12010	11960	11980	12030	12030	11940	11850	11860
18	11090	11310	11590	11940	12000	11950	11970	12030	12050	11940	11850	11870
19	11090	11320	11660	11940	11990	11950	11970	12030	12050	11940	11850	11870
20	11090	11330	11720	11960	11980	11940	11970	12040	12040	11930	11860	11870
21	11090	11350	11740	11960	11970	11930	11970	12040	12040	11930	11860	11870
22	11090	11350	11750	11950	11970	11930	11970	12050	12030	11930	11860	11870
23	11090	11350	11760	11950	11960	11920	11960	12060	12020	11920	11950	11880
24	11090	11350	11760	11940	11950	11920	11960	12070	12020	11930	11950	11910
25	11090	11350	11760	11920	11950	11920	11960	12080	12020	11930	11950	11980
26	11090	11350	11730	11960	11940	11920	11960	12090	12010	11930	11920	11960
27	11080	11350	11770	11950	11930	11920	11960	12080	12000	11920	11910	11950
28	11120	11350	11780	11950	11920	11920	11960	12080	11990	11920	11900	11930
29	11120	11350	11800	11950	---	11930	11960	12070	12000	11920	11900	11930
30	11120	11350	11810	11940	---	11970	11960	12070	12020	11910	11890	11930
31	11120	---	11840	11930	---	12060	---	12060	---	11900	11880	---
MAX	11120	11350	11840	12060	12030	12060	12050	12090	12060	12020	11950	11980
MIN	11060	11120	11360	11860	11900	11920	11960	11970	11990	11900	11850	11800
+	7836.23	7836.85	7838.12	7838.34	7838.32	7838.65	7838.42	7838.65	7838.55	7838.27	7838.22	7838.34
†	+30	+230	+490	+90	-10	+140	-100	+100	-40	-120	-20	+50
CAL YR 1981	MAX	12060	MIN	11060	†	-60						
WTR YR 1982	MAX	12090	MIN	11060	†	+840						

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

† Change in contents, in acre-feet.

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE¼SW¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank about 300 ft (90 m) below dam on Marlette Lake, 0.7 mi (1.1 km) upstream from Marlette Reservoir, and 7 mi (11 km) west of Carson City.

DRAINAGE AREA.--2.86 mi² (7.41 km²).

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NV-80-1.

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

REMARKS.--Records good except those for periods of no gage height record, Oct. 10 to Dec. 17 and Aug 19 to Sept. 30, which are poor. 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.--9 years, 2.25 ft³/s (0.0637 m³/s), 1,630 acre-ft/yr (2.01 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19 ft³/s (0.538 m³/s) Jan. 12, 1980, gage height, 2.64 (0.805 m); no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s (0.396 m³/s) May 25, gage height, 2.45 ft (0.747 m); minimum daily, 0.03 ft³/s (0.0009 m³/s) many days in Oct., Nov., and Dec.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.03	.04	.83	3.7	4.1	12	5.7	10	7.2	1.6	.45
2	.04	.03	.04	1.3	3.4	7.0	9.7	6.3	11	7.5	1.4	.44
3	.05	.03	.04	2.1	3.3	7.2	9.6	6.9	11	7.5	1.3	.47
4	.05	.03	.04	5.3	3.2	6.4	9.7	7.0	10	7.2	1.2	.36
5	.03	.03	.04	11	2.9	6.0	8.5	7.2	11	6.7	1.2	.32
6	.03	.03	.04	10	2.8	5.5	8.1	7.4	9.5	6.4	1.1	.31
7	.04	.03	.04	9.5	2.8	5.1	7.3	7.9	8.9	6.1	1.1	.30
8	.06	.03	.04	8.5	2.8	4.9	6.9	8.3	8.7	5.5	1.2	.25
9	.03	.03	.04	7.7	2.6	4.5	6.4	8.8	8.6	4.5	1.2	.25
10	.03	.03	.04	7.1	2.5	4.7	6.5	9.4	8.6	4.3	1.1	.28
11	.03	.03	.04	6.6	2.5	6.0	10	9.3	8.3	4.0	.96	.22
12	.03	.03	.04	6.1	2.3	5.6	11	9.0	8.2	4.0	.87	.19
13	.03	.03	.04	5.3	2.4	5.3	9.9	8.8	8.0	3.6	.90	.18
14	.03	.04	.04	4.6	4.0	5.5	7.9	9.3	7.7	3.2	.95	.17
15	.03	.05	.04	4.1	6.7	5.4	7.8	9.3	7.5	3.4	.82	.19
16	.03	.04	.04	3.9	8.3	5.0	7.3	9.5	7.1	3.2	.79	.62
17	.03	.03	.03	4.0	8.3	5.2	6.9	9.7	7.0	3.1	.77	.62
18	.03	.03	.04	3.5	8.1	5.6	6.5	9.5	7.2	3.0	.74	.71
19	.03	.03	.08	3.2	7.4	5.2	6.1	9.5	8.0	2.9	.77	.85
20	.03	.03	.21	3.0	6.7	4.7	5.7	9.6	7.7	2.7	.78	.95
21	.03	.03	.07	2.9	6.7	4.4	5.1	9.9	7.4	2.6	.74	1.0
22	.03	.03	.07	2.9	6.3	4.1	4.9	10	7.2	2.5	.74	1.0
23	.03	.03	.07	2.9	5.8	3.9	4.9	11	6.8	2.5	.76	1.0
24	.03	.04	.07	3.0	5.3	3.6	4.7	11	6.3	2.5	.79	1.9
25	.03	.05	.07	3.2	4.9	3.5	4.7	12	6.2	2.4	.75	3.2
26	.03	.04	.11	3.8	4.8	3.5	4.8	13	6.2	2.3	.65	3.7
27	.03	.04	.09	4.5	4.3	3.2	4.8	12	6.1	2.2	.58	3.2
28	.03	.04	.14	4.6	4.1	4.2	5.3	11	5.9	2.2	.55	2.9
29	.03	.04	.20	4.2	---	4.5	5.4	11	5.9	2.1	.55	2.6
30	.03	.04	.53	4.1	---	4.7	5.4	11	6.3	2.0	.47	2.6
31	.03	---	.66	3.9	---	8.3	---	10	---	1.8	.47	---
TOTAL	1.02	1.02	3.08	147.63	128.9	156.8	213.8	290.3	238.3	121.1	27.80	31.23
MEAN	.033	.034	.099	4.76	4.60	5.06	7.13	9.36	7.94	3.91	.90	1.04
MAX	.06	.05	.66	11	8.3	8.3	12	13	11	7.5	1.6	3.7
MIN	.03	.03	.03	.83	2.3	3.2	4.7	5.7	5.9	1.8	.47	.17
AC-FT	2.0	2.0	6.1	293	256	311	424	576	473	240	55	62
CAL YR 1981	TOTAL	524.25	MEAN	1.44	MAX	8.5	MIN	.01	AC-FT	1040		
WTR YR 1982	TOTAL	1360.98	MEAN	3.73	MAX	13	MIN	.03	AC-FT	2700		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

LOCATION.--Lat 38°55'12", long 119°58'17", in NW¼SE¼ sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 5 ft (1.52 m) upstream from Martin Avenue Bridge, 500 ft (152 m) upstream from Heavenly Valley Creek, and 1.8 mi (2.9 km) east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi² (95.05 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (1,905 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Minor diversions for local water supply.

AVERAGE DISCHARGE.--22 years, 36.1 ft³/s (1.022 m³/s), 26,150 acre-ft/yr (32.2 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft³/s (15.2 m³/s) Feb. 1, 1963, gage height, 11.14 ft (3.395 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of computation of peak flow (weir formula); no flow for part of Sept. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2345	138 3.91	7.86 2.396	Apr. 11	1630	222 6.29	8.93 2.722
Dec. 20	0830	199 5.64	8.65 2.637	May 27	0330	241 6.83	9.16 2.792
Feb. 16	1245	*298 8.44	9.81 2.990	June 19	0345	250 7.08	9.26 2.822

Minimum daily, 6.7 ft³/s (0.19 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	13	18	33	22	63	41	133	193	144	60	33
2	6.7	12	18	30	22	60	42	142	190	134	59	32
3	7.3	11	18	28	22	56	40	152	186	128	58	31
4	7.3	12	18	27	22	52	37	155	181	123	57	30
5	7.2	13	18	27	21	52	39	151	179	119	55	29
6	6.9	13	17	26	21	51	37	150	171	116	54	28
7	11	13	17	26	21	47	37	157	169	113	57	28
8	11	13	17	26	21	47	35	158	168	111	61	27
9	8.8	12	17	25	22	46	36	149	170	108	52	27
10	13	12	17	25	24	54	48	138	174	105	49	27
11	13	12	16	25	24	73	180	130	173	104	48	27
12	12	21	16	25	24	60	130	129	175	102	48	27
13	11	62	17	25	24	56	95	134	173	100	47	28
14	10	65	17	26	62	55	89	137	171	99	46	28
15	9.7	27	19	26	111	50	85	140	177	96	44	34
16	9.4	24	18	26	242	48	80	145	184	93	43	43
17	9.9	32	17	26	128	47	82	151	191	90	41	39
18	11	22	18	26	91	46	87	153	197	88	41	38
19	9.9	20	86	25	80	43	88	151	232	87	41	37
20	9.7	19	173	25	79	44	86	157	221	85	42	33
21	9.4	28	87	24	82	42	84	165	198	83	40	31
22	9.0	48	60	24	85	42	88	171	188	81	39	29
23	9.0	50	50	25	76	43	97	179	182	78	40	28
24	8.8	44	45	25	68	44	103	192	178	77	39	57
25	8.8	28	42	25	64	45	105	201	170	76	37	42
26	8.9	24	40	25	61	45	109	216	165	74	35	43
27	9.5	22	43	24	59	44	112	228	163	75	34	38
28	20	21	37	24	59	43	123	219	160	75	35	36
29	15	20	40	23	---	35	121	208	164	70	37	35
30	13	19	47	23	---	35	122	197	158	67	36	36
31	13	---	40	22	---	35	---	198	---	64	35	---
TOTAL	316.0	732	1103	792	1637	1503	2458	5086	5401	2965	1410	1001
MEAN	10.2	24.4	35.6	25.5	58.5	48.5	81.9	164	180	95.6	45.5	33.4
MAX	20	65	173	33	242	73	180	228	232	144	61	57
MIN	6.7	11	16	22	21	35	35	129	158	64	34	27
AC-FT	627	1450	2190	1570	3250	2980	4880	10090	10710	5880	2800	1990

CAL YR 1981	TOTAL	7435.6	MEAN	20.4	MAX	173	MIN	5.2	AC-FT	14750
WTR YR 1982	TOTAL	24404.0	MEAN	66.9	MAX	242	MIN	6.7	AC-FT	48410

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980 to current year.

SPECIFIC CONDUCTANCE: October 1980 to current year.

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 current year.

WATER TEMPERATURES: February 1981 to current year.

SEDIMENT RECORDS: October 1973 to September 1974, October 1977 to June 1978, March 1980 to current year.

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°C on many days during most winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 253 mg/L Apr. 11, 1982; minimum daily mean, 0 mg/L Oct. 15, 16, 1973.

SEDIMENT DISCHARGE: Maximum daily, 162 tons (147 metric tons) Feb. 16, 1982; minimum daily, 0 ton (0 metric ton) Oct. 15, 16, 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 119 micromhos Mar. 20; minimum recorded, 14 micromhos May 28.

WATER TEMPERATURES: Maximum recorded, 16.0°C July 29; minimum recorded, 0°C on many days during fall and winter months.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 253 mg/L Apr. 11; minimum daily mean, 1 mg/L Nov. 10, 11.

SEDIMENT DISCHARGE: Maximum daily, 162 tons (147 metric tons) Feb. 16; minimum daily, 0.03 ton (0.03 metric ton) Nov. 10, 11.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	52	48	25	38	---	28	30	19	26	32	39
2	57	50	49	24	38	---	28	30	19	26	32	39
3	57	52	49	24	38	---	29	26	18	26	32	39
4	56	51	50	24	38	---	30	26	18	27	32	39
5	54	50	50	24	38	---	31	26	19	27	32	40
6	52	51	50	23	32	53	31	28	20	28	33	39
7	51	51	52	24	27	47	32	26	20	28	33	40
8	52	54	51	24	27	48	32	25	20	28	34	41
9	54	52	51	25	27	48	33	25	20	28	34	41
10	52	50	51	25	27	48	32	25	20	29	34	40
11	50	50	52	26	27	46	26	25	20	29	34	41
12	50	46	52	26	27	48	---	25	20	30	35	40
13	50	38	52	26	27	48	---	23	20	30	35	42
14	51	37	53	27	24	47	---	24	21	30	35	42
15	52	38	50	28	23	48	---	24	21	30	36	41
16	52	37	51	---	20	48	---	23	21	30	36	42
17	53	32	52	---	---	49	---	21	21	30	37	41
18	52	32	52	---	---	49	---	21	22	31	37	40
19	53	33	36	---	---	48	---	21	22	31	37	40
20	53	33	24	---	---	57	---	21	22	31	38	41
21	53	33	20	---	---	53	35	21	21	31	39	41
22	53	32	22	---	---	49	35	20	22	31	39	41
23	53	32	25	---	---	50	34	18	22	33	39	42
24	54	31	24	---	---	50	36	19	22	33	39	44
25	54	32	23	---	---	50	33	19	22	33	39	47
26	55	32	23	38	---	50	31	17	23	35	40	43
27	56	41	24	39	---	50	31	16	23	35	41	42
28	52	47	25	39	---	49	31	16	25	33	39	41
29	52	47	24	38	---	40	29	17	25	32	39	41
30	53	48	24	38	---	48	30	18	26	32	38	41
31	53	---	24	38	---	48	---	19	---	32	38	---
MONTH	53	42	40	---	---	47	---	22	21	30	36	41

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	5.5	6.0	1.0	2.0	0.0	1.0	0.0	1.0	0.0	---	---
2	13.5	7.5	6.5	1.0	2.0	0.0	1.0	0.0	1.5	0.0	---	---
3	13.0	6.5	7.0	1.5	1.0	0.0	0.5	0.0	1.5	0.0	---	---
4	12.0	4.0	6.0	1.5	2.0	0.0	0.0	0.0	1.0	0.0	---	---
5	12.5	3.5	5.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	---	---
6	11.5	4.0	6.5	3.5	3.0	0.5	0.0	0.0	0.5	0.0	3.0	0.5
7	9.0	5.0	7.0	2.5	3.5	0.5	0.0	0.0	0.5	0.0	3.5	1.0
8	10.0	3.5	6.5	2.0	2.5	0.0	0.0	0.0	1.5	0.5	6.0	1.5
9	11.0	4.0	6.5	2.0	3.0	0.5	0.0	0.0	1.0	0.0	4.5	1.5
10	6.5	5.0	4.5	2.5	3.5	1.0	0.0	0.0	1.0	0.0	5.5	2.5
11	7.5	3.0	6.0	2.0	2.5	0.0	0.0	0.0	1.5	0.0	4.5	2.0
12	5.5	2.0	4.0	3.5	1.0	0.0	0.0	0.0	1.5	0.0	6.0	2.0
13	4.0	0.0	4.0	3.5	2.5	0.5	0.0	0.0	1.5	0.5	6.0	1.5
14	5.5	0.5	3.5	2.5	4.0	1.0	0.5	0.0	1.0	0.5	5.0	2.5
15	5.0	1.5	4.5	3.0	3.5	2.0	0.5	0.0	0.5	0.5	5.0	2.0
16	8.0	1.0	5.5	4.0	3.0	0.5	---	---	0.5	0.5	2.0	1.5
17	9.0	2.0	4.5	1.5	2.5	0.0	---	---	---	---	2.0	1.0
18	9.5	3.5	3.0	0.0	3.0	1.0	---	---	---	---	2.5	1.0
19	9.5	3.0	3.5	0.5	3.0	2.5	---	---	---	---	3.5	1.0
20	10.0	3.0	4.5	1.5	3.5	1.0	---	---	---	---	3.0	1.5
21	9.5	3.0	4.0	2.0	2.0	0.5	---	---	---	---	4.0	0.5
22	9.0	2.5	4.0	2.5	1.5	1.0	---	---	---	---	5.0	1.0
23	9.5	2.5	5.0	4.0	1.5	1.0	---	---	---	---	6.0	1.0
24	8.0	2.5	4.5	1.0	1.5	1.0	---	---	---	---	6.5	1.0
25	9.5	2.5	2.0	0.0	2.0	1.0	---	---	---	---	7.0	2.5
26	10.0	3.5	0.5	0.0	2.5	1.5	0.5	0.0	---	---	6.5	2.5
27	9.0	4.0	0.0	0.0	2.0	1.5	1.0	0.0	---	---	7.5	2.5
28	5.0	2.5	1.0	0.0	1.5	1.0	1.0	0.0	---	---	3.5	1.5
29	4.5	0.5	1.0	0.0	1.5	1.0	1.0	0.0	---	---	3.0	0.5
30	5.5	0.0	1.0	0.0	2.0	1.5	1.0	0.0	---	---	2.5	0.5
31	5.5	0.5	---	---	1.5	0.5	1.5	0.0	---	---	2.0	0.5
MONTH	13.5	0.0	7.0	0.0	4.0	0.0	---	---	---	---	7.5	0.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.5	9.0	2.5	10.0	4.0	10.5	7.5	13.5	9.0	12.0	9.0
2	1.0	0.5	9.5	3.0	10.5	4.5	12.5	7.5	13.0	7.0	12.5	9.0
3	1.5	0.5	9.5	3.0	10.0	4.0	11.5	8.0	13.5	7.5	12.5	10.0
4	1.5	0.5	9.0	3.0	9.5	4.0	12.0	7.5	13.5	8.0	12.5	9.0
5	2.5	0.5	8.5	2.5	9.0	4.5	12.5	7.0	14.0	8.0	13.0	9.0
6	3.0	0.5	9.5	3.0	9.5	4.0	13.5	8.0	14.0	9.0	11.5	9.5
7	3.0	0.5	8.5	3.5	10.5	4.5	13.5	9.0	12.0	10.5	13.0	9.0
8	4.5	0.5	8.0	3.5	11.0	5.0	14.0	9.5	14.5	9.0	13.0	9.0
9	6.0	1.0	6.5	3.0	11.5	5.5	13.5	8.0	14.5	9.5	13.0	9.0
10	4.5	2.0	7.0	2.5	12.5	6.5	14.5	8.5	13.5	8.5	11.5	8.5
11	2.5	0.5	8.0	2.5	11.0	7.0	15.0	9.5	13.5	8.0	11.0	7.5
12	---	---	9.0	3.0	10.5	7.0	13.5	10.0	14.0	8.5	10.5	7.0
13	---	---	9.0	3.5	10.0	6.0	15.0	9.5	14.0	8.5	11.5	8.0
14	---	---	9.0	4.0	12.5	6.5	14.5	9.5	14.0	8.5	10.5	8.0
15	---	---	10.0	3.5	13.0	7.5	14.5	8.5	13.0	8.0	9.0	7.0
16	---	---	10.5	4.0	13.0	8.0	14.0	9.0	13.5	8.5	7.5	6.0
17	---	---	10.5	4.5	12.5	8.5	14.0	7.5	14.5	9.0	8.5	6.5
18	---	---	9.5	3.5	12.5	8.0	14.5	8.5	14.5	10.0	10.0	7.0
19	---	---	10.5	3.5	11.0	9.0	14.5	9.0	12.5	9.5	8.0	7.0
20	---	---	10.5	4.0	12.0	8.0	14.5	8.5	15.0	9.5	9.5	5.5
21	7.0	1.0	11.0	4.5	11.5	7.5	15.0	9.0	15.5	10.0	10.0	6.5
22	8.0	1.5	11.0	5.0	12.0	7.5	14.5	9.0	14.5	10.5	11.0	7.0
23	8.0	2.0	11.5	5.0	12.5	7.5	14.5	10.5	13.5	11.0	10.0	7.5
24	8.0	2.0	11.5	5.5	10.5	8.5	15.0	10.5	14.5	10.0	10.0	9.5
25	7.0	2.0	12.0	5.5	12.5	7.0	15.0	10.0	15.0	10.0	10.5	9.5
26	7.0	3.0	12.0	6.5	13.0	8.0	15.5	10.0	14.0	9.5	11.0	9.0
27	8.5	3.0	11.5	6.5	12.5	8.5	14.5	10.5	13.5	9.0	9.0	7.0
28	8.5	2.5	10.0	4.5	10.5	9.0	15.5	9.5	12.0	10.5	8.5	5.5
29	8.5	2.5	8.5	4.5	9.0	7.5	16.0	10.0	13.0	10.5	7.0	4.5
30	9.0	2.5	10.5	4.0	9.5	7.0	15.5	9.5	13.0	9.0	7.0	4.0
31	---	---	9.5	5.0	---	---	14.5	9.0	12.5	8.0	---	---
MONTH	---	---	12.0	2.5	3.0	4.0	15.0	7.0	15.5	7.0	13.0	4.0

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	6.8	4	.07	13	3	.11	18	16	.78
2	6.7	4	.07	12	3	.10	18	15	.73
3	7.3	4	.08	11	3	.09	18	15	.73
4	7.3	4	.08	12	3	.10	18	13	.63
5	7.2	3	.06	13	3	.11	18	12	.58
6	6.9	3	.06	13	3	.11	17	6	.28
7	11	9	.27	13	2	.07	17	2	.09
8	11	2	.06	13	2	.07	17	2	.09
9	8.8	2	.05	12	2	.06	17	2	.09
10	13	5	.18	12	1	.03	17	2	.09
11	13	3	.11	12	1	.03	16	4	.17
12	12	3	.10	21	39	3.3	16	6	.26
13	11	3	.09	62	163	42	17	6	.28
14	10	3	.08	65	131	33	17	6	.28
15	9.7	3	.08	27	14	1.0	19	4	.21
16	9.4	3	.08	24	10	.65	18	4	.19
17	9.9	3	.08	32	40	3.5	17	5	.23
18	11	3	.09	22	10	.59	18	6	.29
19	9.9	3	.08	20	8	.43	86	196	51
20	9.7	3	.08	19	5	.26	173	229	108
21	9.4	3	.08	28	39	5.6	87	80	19
22	9.0	3	.07	48	56	8.7	60	45	7.3
23	9.0	3	.07	50	45	6.1	50	34	4.6
24	8.8	3	.07	44	17	2.0	45	19	2.3
25	8.8	3	.07	28	17	1.3	42	12	1.4
26	8.9	3	.07	24	16	1.0	40	10	1.1
27	9.5	3	.08	22	17	1.0	43	12	1.4
28	20	16	.86	21	18	1.0	37	10	1.0
29	15	5	.20	20	17	.92	40	14	1.5
30	13	4	.14	19	16	.82	47	38	4.8
31	13	3	.11	---	---	---	40	12	1.3
TOTAL	316.0	---	3.67	732	---	114.05	1103	---	210.70

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	33	12	1.1	22	9	.53	63	20	3.4
2	30	12	.97	22	8	.48	60	16	2.6
3	28	12	.91	22	6	.36	56	23	3.5
4	27	12	.87	22	6	.36	52	30	4.2
5	27	12	.87	21	6	.34	52	30	4.2
6	26	12	.84	21	7	.40	51	25	3.4
7	26	12	.84	21	7	.40	47	20	2.5
8	26	12	.84	21	8	.45	47	15	1.9
9	25	12	.81	22	8	.48	46	10	1.2
10	25	12	.81	24	8	.52	54	13	1.9
11	25	12	.81	24	8	.52	73	35	6.9
12	25	12	.81	24	8	.52	60	17	2.8
13	25	12	.81	24	16	1.0	56	15	2.3
14	26	12	.84	62	100	17	55	15	2.2
15	26	12	.84	111	196	71	50	16	2.2
16	26	12	.84	242	246	162	48	16	2.1
17	26	12	.84	128	140	50	47	16	2.0
18	26	11	.77	91	65	16	46	15	1.9
19	25	10	.68	80	52	11	43	15	1.7
20	25	9	.61	79	30	6.4	44	25	3.0
21	24	8	.52	82	30	6.6	42	22	2.5
22	24	8	.52	85	25	5.7	42	20	2.3
23	25	8	.54	76	19	3.9	43	12	1.4
24	25	8	.54	68	19	3.5	44	8	.95
25	25	8	.54	64	21	3.6	45	8	.97
26	25	8	.54	61	20	3.3	45	8	.97
27	24	8	.52	59	20	3.2	44	8	.95
28	24	8	.52	59	18	2.9	43	8	.93
29	23	9	.56	---	---	---	35	8	.76
30	23	9	.56	---	---	---	35	8	.76
31	22	9	.53	---	---	---	35	8	.76
TOTAL	792	---	22.60	1637	---	372.46	1503	---	69.15

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	41	8	.89	133	60	22	193	61	32
2	42	8	.91	142	70	27	190	64	33
3	40	12	1.3	152	72	30	186	50	25
4	37	10	1.0	155	68	28	181	47	23
5	39	9	.95	151	62	25	179	40	19
6	37	9	.90	150	60	24	171	34	16
7	37	9	.90	157	54	23	169	38	17
8	35	9	.85	158	55	23	168	37	17
9	36	9	.87	149	46	19	170	38	17
10	48	38	4.9	138	41	15	174	38	18
11	180	253	120	130	40	14	173	37	17
12	130	95	33	129	43	15	175	36	17
13	95	68	17	134	50	18	173	36	17
14	89	45	11	137	39	14	171	40	18
15	85	35	8.0	140	48	18	177	50	24
16	80	29	6.3	145	53	21	184	51	25
17	82	31	6.9	151	58	24	191	55	28
18	87	33	7.8	153	55	23	197	64	34
19	88	35	8.3	151	52	21	232	83	52
20	86	35	8.1	157	57	24	221	72	43
21	84	38	8.6	165	53	24	198	42	22
22	88	40	9.5	171	57	26	188	43	22
23	97	58	15	179	56	27	182	40	20
24	103	60	17	192	65	34	178	37	18
25	105	57	16	201	78	42	170	30	14
26	109	56	16	216	92	54	165	28	12
27	112	56	17	228	100	62	163	28	12
28	123	65	22	219	82	48	160	27	12
29	121	62	20	208	58	33	164	34	15
30	122	63	21	197	48	26	158	30	13
31	---	---	---	198	55	29	---	---	---
TOTAL	2458	---	401.97	5086	---	833	5401	---	652

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	144	23	8.9	60	16	2.6	33	10	.89
2	134	22	8.0	59	16	2.5	32	10	.86
3	128	20	6.9	58	16	2.5	31	10	.84
4	123	20	6.6	57	16	2.5	30	10	.81
5	119	18	5.8	55	16	2.4	29	10	.78
6	116	18	5.6	54	16	2.3	28	10	.76
7	113	18	5.5	57	22	3.4	28	10	.76
8	111	16	4.8	61	45	7.4	27	10	.73
9	108	16	4.7	52	16	2.2	27	10	.73
10	105	16	4.5	49	16	2.1	27	10	.73
11	104	16	4.5	48	16	2.1	27	10	.73
12	102	16	4.4	48	16	2.1	27	10	.73
13	100	16	4.3	47	16	2.0	28	10	.76
14	99	15	4.0	46	16	2.0	28	10	.76
15	96	16	4.1	44	16	1.9	34	25	2.3
16	93	16	4.0	43	16	1.9	43	17	2.0
17	90	16	3.9	41	16	1.8	39	12	1.3
18	88	16	3.8	41	16	1.8	38	12	1.2
19	87	16	3.8	41	14	1.5	37	12	1.2
20	85	16	3.7	42	14	1.6	33	12	1.1
21	83	16	3.6	40	14	1.5	31	12	1.0
22	81	16	3.5	39	12	1.3	29	12	.94
23	78	16	3.4	40	12	1.3	28	12	.91
24	77	16	3.3	39	12	1.3	57	70	13
25	76	16	3.3	37	12	1.2	42	41	4.6
26	74	16	3.2	35	12	1.1	43	17	2.0
27	75	18	3.6	34	10	.92	38	13	1.3
28	75	16	3.2	35	10	.95	36	8	.78
29	70	16	3.0	37	10	1.0	35	5	.47
30	67	16	2.9	36	10	.97	36	5	.49
31	64	16	2.8	35	10	.95	---	---	---
TOTAL	2965	---	137.6	1410	---	61.09	1001	---	45.46
YEAR	24404.0		2923.75						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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
NOV										
13...	2100	115	4.0	540	168	28	--	--	--	--
17...	0730	38	3.5	44	4.5	31	--	--	--	--
21...	2220	74	3.0	181	36	31	--	--	--	--
DEC										
20...	0950	196	3.5	208	110	19	--	--	--	--
20...	1950	161	1.5	142	62	18	--	--	--	--
22...	1445	65	1.0	46	8.1	28	--	--	--	--
30...	0110	50	1.0	83	11	34	--	--	--	--
FEB										
14...	1050	63	.5	105	18	34	--	--	--	--
16...	0835	284	.0	219	168	32	--	--	--	--
17...	1200	125	2.0	112	38	24	49	82	96	100
19...	1525	80	4.0	47	10	28	--	--	--	--
22...	1615	85	4.0	34	7.8	26	--	--	--	--
MAR										
20...	1430	64	3.0	55	9.5	38	--	--	--	--
APR										
11...	0610	155	1.0	371	155	28	--	--	--	--
11...	1820	217	.5	179	105	32	51	73	92	100
12...	1000	132	.0	101	36	32	--	--	--	--
21...	1645	84	7.0	56	13	18	--	--	--	--
MAY										
01...	0630	130	2.5	45	16	33	--	--	--	--
07...	1000	151	4.0	33	13	27	--	--	--	--
13...	1310	127	7.0	49	17	16	--	--	--	--
21...	1325	159	6.5	37	16	29	--	--	--	--
24...	1810	189	10.5	54	28	32	--	--	--	--
26...	1030	215	6.5	83	48	18	--	--	--	--
30...	1030	198	4.5	42	22	30	--	--	--	--
JUN										
10...	1145	174	7.5	30	14	28	--	--	--	--
18...	1950	199	8.0	67	36	38	--	--	--	--
19...	1735	221	8.5	52	31	35	--	--	--	--
30...	1100	163	7.5	21	9.2	45	--	--	--	--
AUG										
16...	1150	45	11.0	22	2.7	26	--	--	--	--
SEP										
15...	1915	42	7.0	87	9.9	52	--	--	--	--
24...	1310	73	9.5	78	15	55	78	100	--	--

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 (1.8 km) northeast of Tahoe City, and 1.8 mi (2.9 km) northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--506 mi² (1,311 km²), 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 (1,895.856 m) U.S. Bureau of Reclamation datum, 6,218.86 ft (1,895.508 m) 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 (300 m) 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 (918 hm³) between altitudes 6,223 ft (1,896.8 m), natural rim of lake, and 6,229.1 ft (1,898.63 m), maximum permissible altitude by Federal Court decree. Lake altitudes are referred 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 (1,899.288 m) July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft (1,896.386 m) Dec. 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum altitude, 6,228.98 ft (1,898.593 m) June 24; minimum, 6,224.17 ft (1,897.127 m) Oct. 27.

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

6223	0	6227	486800
6224	121400	6228	609300
6225	243000	6229	732300
6226	364800		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.50	4.27	5.09	6.09	6.46	7.20	7.82	8.15	8.50	8.90	8.88	8.52
2	4.47	4.24	5.08	6.05	6.45	7.30	7.84	8.16	8.50	8.88	8.82	8.51
3	4.45	4.23	5.09	6.10	6.44	7.31	7.90	8.18	8.52	8.89	8.82	8.50
4	4.42	4.22	5.08	6.35	6.45	7.32	7.90	8.18	8.51	8.88	8.80	8.49
5	4.42	4.22	5.08	6.37	6.43	7.30	7.92	8.19	8.53	8.87	8.80	8.48
6	4.42	4.22	5.07	6.39	6.42	7.32	7.93	8.19	8.52	8.88	8.80	8.46
7	4.40	4.22	5.06	6.37	6.41	7.33	7.92	8.20	8.53	8.88	8.80	8.45
8	4.39	4.21	5.06	6.35	6.47	7.32	7.92	8.20	8.55	8.88	8.80	8.44
9	4.35	4.21	5.13	6.36	6.41	7.33	7.91	8.24	8.55	8.88	8.78	8.42
10	4.38	4.20	5.08	6.37	6.40	7.37	8.05	8.24	8.58	8.89	8.77	8.42
11	4.35	4.19	5.08	6.38	6.40	7.42	8.18	8.23	8.59	8.90	8.75	8.37
12	4.33	4.33	5.18	6.36	6.41	7.43	8.22	8.23	8.60	8.90	8.74	8.32
13	4.33	4.52	5.16	6.37	6.53	7.42	8.27	8.23	8.63	8.90	8.73	8.32
14	4.32	4.58	5.25	6.40	6.58	7.47	8.24	8.23	8.65	8.90	8.70	8.27
15	4.28	4.57	5.13	6.41	6.83	7.45	8.24	8.24	8.67	8.90	8.69	8.34
16	4.27	4.55	5.13	6.42	6.93	7.47	8.24	8.24	8.71	8.90	8.68	8.40
17	4.25	4.64	5.13	6.41	6.98	7.48	8.24	8.23	8.75	8.90	8.67	8.37
18	4.24	4.62	5.32	6.43	7.01	7.48	8.23	8.25	8.84	8.91	8.66	8.39
19	4.23	4.63	5.53	6.46	7.03	7.48	8.24	8.27	8.90	8.91	8.66	8.35
20	4.22	4.62	5.73	6.47	7.06	7.48	8.23	8.28	8.92	8.90	8.65	8.35
21	4.22	4.83	5.76	6.49	7.09	7.48	8.21	8.30	8.93	8.90	8.65	8.35
22	4.22	4.84	5.79	6.52	7.09	7.47	8.20	8.33	8.96	8.90	8.64	8.35
23	4.21	5.01	5.79	6.51	7.11	7.47	8.19	8.35	8.97	8.90	8.64	8.37
24	4.20	5.08	5.82	6.45	7.13	7.48	8.19	8.38	8.98	8.90	8.64	8.45
25	4.20	5.08	5.83	6.50	7.13	7.47	8.17	8.40	8.97	8.90	8.62	8.50
26	4.18	5.12	5.90	6.49	7.13	7.47	8.16	8.41	8.95	8.91	8.59	8.48
27	4.17	5.12	5.85	6.49	7.14	7.47	8.16	8.43	8.93	8.91	8.57	8.45
28	4.30	5.11	5.86	6.57	7.12	7.54	8.16	8.46	8.92	8.91	8.57	8.47
29	4.29	5.09	5.92	6.53	---	7.60	8.16	8.47	8.93	8.91	8.56	8.45
30	4.28	5.09	5.93	6.50	---	7.62	8.15	8.48	8.91	8.91	8.54	8.41
31	4.27	---	6.07	6.48	---	7.83	---	8.47	---	8.89	8.54	---
MAX	4.50	5.12	6.07	6.57	7.14	7.83	8.27	8.48	8.98	8.91	8.88	8.52
MIN	4.17	4.19	5.06	6.05	6.40	7.20	7.82	8.15	8.50	8.87	8.54	8.27
†	154200	254000	373300	423400	501500	558500	627800	667100	721200	718800	675700	659700
‡	-32900	+99800	+119300	+50100	+78100	+87000	+39300	+39300	+45100	-2400	-43100	-16000

CAL YR 1981 MAX 6.53 MIN 4.17 † +48700

WTR YR 1982 MAX 8.98 MIN 4.17 † +472600

† 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

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

LOCATION.--Lat 39°09'59", long 120°08'36", in NE¼NW¼ sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on left bank 510 ft (155 m) downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--507 mi² (1,313 km²).

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

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

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft (1,894.817 m), revised, National Geodetic Vertical Datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft (113 m) upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft (0.689 m) higher and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft (0.738 m) higher; all at site 270 ft (82 m) upstream.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft (918 hm³). There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin. Discharge prior to Jan. 27, 1978, is local inflow between the dam and the station.

AVERAGE DISCHARGE (unadjusted).--82 years (water years 1901-82), 243 ft³/s (6.882 m³/s), 176,100 acre-ft/yr (216 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft³/s (74.5 m³/s) June 19, 1969, gage height, 9.32 ft (2.841 m); no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) June 28, 29, gage height 7.93 ft (2.417 m); minimum daily, 22 ft³/s (0.62 m³/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	80	31	48	48	48	50	1580	1020	1690	235	311
2	311	49	31	49	48	47	57	1580	1030	864	235	311
3	311	44	26	49	47	47	56	1580	942	596	235	311
4	309	50	34	49	47	46	57	1590	756	611	235	311
5	310	51	51	48	48	45	57	1590	778	605	236	312
6	308	51	50	48	47	46	56	1590	773	501	236	311
7	318	51	49	48	47	47	55	1590	630	321	236	311
8	308	51	49	48	47	47	55	1590	509	312	234	311
9	308	68	50	47	46	46	65	1600	469	312	235	310
10	306	126	50	47	46	48	74	1600	185	311	235	309
11	311	127	50	47	46	52	96	1600	65	312	254	307
12	314	138	51	47	45	49	84	1600	60	281	288	311
13	309	121	50	47	47	45	77	1600	57	214	287	314
14	294	36	51	50	56	43	300	1600	56	206	287	312
15	196	25	55	53	61	41	643	1600	56	208	288	312
16	158	22	52	53	59	46	1010	1600	55	210	287	316
17	158	29	51	53	58	51	1090	1610	55	210	302	314
18	157	29	53	52	57	51	1090	1470	66	210	313	314
19	157	30	59	52	56	51	1090	1040	83	199	314	313
20	156	29	67	52	56	51	1100	1040	90	153	314	265
21	107	43	63	52	56	49	1190	1040	267	149	313	136
22	63	38	61	49	58	48	1290	1040	451	149	313	133
23	66	45	59	48	56	47	1360	1040	1080	149	313	134
24	65	45	57	48	54	43	1570	1040	1370	150	313	136
25	65	31	54	49	53	40	1570	1040	1730	149	313	137
26	64	28	54	49	53	39	1580	1040	1910	149	313	135
27	87	27	56	49	52	40	1580	1040	1920	149	313	134
28	104	27	51	48	49	39	1580	1040	1920	126	313	91
29	102	29	51	48	---	39	1580	1030	1930	103	313	69
30	101	31	52	48	---	39	1580	1030	1830	169	312	68
31	101	---	50	48	---	39	---	1020	---	234	310	---
TOTAL	6237	1551	1568	1523	1443	1409	22042	42050	22143	10002	8725	7359
MEAN	201	51.7	50.6	49.1	51.5	45.5	735	1356	738	323	281	245
MAX	318	138	67	53	61	52	1580	1610	1930	1690	314	316
MIN	63	22	26	47	45	39	50	1020	55	103	234	68
AC-FT	12370	3080	3110	3020	2860	2790	43720	83410	43920	19840	17310	14600
CAL YR 1981	TOTAL	66901	MEAN 183	MAX 480	MIN 22	AC-FT 132700						
WTR YR 1982	TOTAL	126052	MEAN 345	MAX 1930	MIN 22	AC-FT 250000						

PYRAMID AND WINNEMUCCA LAKES BASIN

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10338000 TRUCKEE RIVER NEAR TRUCKEE, CA

LOCATION.--Lat 39°17'17", long 120°12'16", in SW¼ sec.28, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 1.4 mi (2.3 km) downstream from Cabin Creek and 2.5 mi (4.0 km) southwest of Truckee.

DRAINAGE AREA.--553 mi² (1,432 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1944 to September 1961, June 1977 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR NV-77-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,860 ft (1,786 m), from topographic map.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe (station 10337000), operating capacity, 744,600 acre-ft (918 hm³).

AVERAGE DISCHARGE.--21 years (water years 1946-61, 1978-82), 330 ft³/s (9.346 m³/s), 239,100 acre-ft/yr (295 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,760 ft³/s (220 m³/s) Dec. 23, 1955, gage height, 7.92 ft (2.414 m) from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurements at gage heights 7.62 ft (2.323 m) and 7.92 ft (2.414 m); minimum daily, 7.7 ft³/s (0.22 m³/s) Nov 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,760 ft³/s (135 m³/s) Dec. 20, gage height, 6.70 ft (2.042 m); minimum daily 68 ft³/s (1.93 m³/s) Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	114	158	231	91	283	172	2040	1450	1920	305	320
2	318	86	143	214	90	281	174	2080	1430	1200	299	319
3	318	69	132	187	89	249	165	2110	1380	827	294	320
4	318	74	120	178	89	228	163	2140	1110	824	292	319
5	318	77	139	175	89	209	154	2110	1110	807	288	319
6	317	78	131	170	90	200	148	2090	1070	750	287	319
7	334	77	130	165	89	193	143	2160	970	552	288	319
8	320	73	126	159	86	190	139	2170	836	531	285	318
9	317	71	130	162	86	185	147	2100	838	511	281	317
10	320	138	141	149	86	237	219	2000	620	502	277	320
11	325	143	127	139	85	323	1370	1930	485	502	283	317
12	324	223	127	131	84	271	820	1930	453	487	327	317
13	319	675	127	126	124	250	541	1970	418	412	326	322
14	314	520	157	122	500	257	591	2000	434	388	324	317
15	232	431	238	122	1370	226	914	2030	493	380	322	326
16	165	398	204	120	2130	211	1280	2090	533	375	320	340
17	164	417	176	119	868	207	1390	2160	539	357	325	332
18	164	215	198	118	590	193	1410	2100	555	343	338	335
19	161	166	2300	118	480	182	1420	1580	632	336	339	336
20	160	139	3430	120	458	173	1410	1580	532	278	337	312
21	136	566	1120	117	486	168	1470	1630	663	262	336	155
22	68	614	670	115	577	161	1580	1670	752	253	335	146
23	74	1470	495	106	481	159	1660	1720	1340	248	336	146
24	71	1310	411	102	405	160	1920	1740	1600	254	335	209
25	71	501	331	100	359	159	1920	1760	1930	250	331	313
26	71	345	300	104	321	155	1930	1830	2120	244	330	234
27	85	274	306	102	293	156	1970	1770	2140	246	326	195
28	175	227	256	99	275	161	2000	1630	2140	231	324	158
29	129	192	256	96	---	149	1970	1520	2120	190	324	127
30	122	172	292	94	---	144	1970	1470	1980	225	322	122
31	122	---	247	92	---	132	---	1470	---	311	322	---
TOTAL	6650	9855	13118	4152	10771	6252	31160	58580	32673	14996	9758	8249
MEAN	215	329	423	134	385	202	1039	1890	1089	484	315	275
MAX	334	1470	3430	231	2130	323	2000	2170	2140	1920	339	340
MIN	68	69	120	92	84	132	139	1470	418	190	277	122
AC-FT	13190	19550	26020	8240	21360	12400	61810	116200	64810	29740	19350	16360
CAL YR 1981	TOTAL	99179	MEAN	272	MAX	3430	MIN	68	AC-FT	196700		
WTR YR 1982	TOTAL	206214	MEAN	565	MAX	3430	MIN	68	AC-FT	409000		

PYRAMID AND WINNEMUCCA LAKES BASIN

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-66, 1977 to September 1982 (discontinued).

CHEMICAL ANALYSES: Water years 1951-66.

SPECIFIC CONDUCTANCE: Water years 1977 to September 1982 (discontinued).

WATER TEMPERATURES: Water years 1977 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1977 to September 1982 (discontinued).

WATER TEMPERATURES: July 1977 to September 1982 (discontinued).

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperatures since July 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 231 micromhos Oct. 14, 1977; minimum recorded, 33 micromhos Nov. 23, Dec. 19, 20, 1981.

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug. 4, 1978; minimum recorded, 0.0°C many days in each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 130 micromhos Mar. 16; minimum recorded, 33 micromhos Nov. 23, Dec. 19, 20.

WATER TEMPERATURES: Maximum recorded, 22.0°C Aug. 20, 21; minimum recorded, 0.0°C many days in February, March, and April.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	---	96		---	86	98	85	75	78	82	93
2	95	---	98		92	87	96	84	75	75	86	93
3	94	---	99		95	91	96	83	76	73	84	93
4	93	109	100		94	93	98	82	75	74	85	93
5	93	108	99		96	94	98	81	76	75	85	93
6	94	108	99		99	93	100	82	77	74	86	93
7	---	109	100		97	93	103	80	76	69	86	93
8	---	110	100		96	94	102	80	73	68	85	93
9	---	110	100		96	94	103	82	71	70	86	93
10	---	102	101		95	93	99	84	62	71	87	93
11	---	101	104		97	87	55	84	51	71	88	---
12	---	93	102		97	89	71	83	52	70	87	---
13	---	73	103		95	90	84	81	54	67	88	---
14	---	66	100		73	95	87	80	51	65	88	---
15	---	70	88		60	96	90	79	47	67	89	---
16	---	61	92		51	98	93	78	44	68	89	---
17	---	68	96		66	97	93	77	43	71	89	---
18	---	85	95		73	100	93	78	44	72	89	---
19	---	93	42		76	99	92	75	43	72	90	---
20	---	96	38		77	99	92	75	46	72	90	---
21	---	78	57		75	98	92	73	54	73	90	---
22	---	62	67		72	99	92	71	60	75	90	---
23	---	44	71		77	100	89	68	73	76	90	---
24	---	50	75		79	97	88	68	76	75	91	---
25	---	71	78		87	97	88	67	77	75	91	---
26	---	77	80		84	98	88	66	77	76	91	---
27	---	82	81		87	98	87	67	77	76	92	---
28	---	87	84		85	96	86	72	76	76	92	---
29	---	91	82		---	99	86	74	77	75	93	---
30	---	95	83		---	98	86	75	78	76	93	---
31	---	---	88		---	101	---	75	---	80	93	---
MONTH	---	85	87		84	95	91	77	65	73	89	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'25", long 120°14'00", in SW¼NW¼ sec.17, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, in Donner Memorial State Park on left bank 10 ft (3 m) downstream from bridge on Donner Memorial State Park road, 0.2 mi (0.3 km) downstream from outlet of Donner Lake, 0.7 mi (1.1 km) upstream from Cold Creek, and 2.5 mi (4.0 km) west of Truckee.

DRAINAGE AREA.--14.3 mi² (37.0 km²).

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,930 ft (1,807 m), 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 (11.7 hm³).

AVERAGE DISCHARGE (unadjusted).--45 years (water years 1930-35, 1937, 1940-42, 1944-52, 1956-57, 1959-82), 34.2 ft³/s (0.969 m³/s), 24,780 acre-ft/yr (30.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 700 ft³/s (19.8 m³/s) (estimated) Nov. 21, 1950; maximum gage height observed 4.55 ft (1.387 m) Dec. 25, 1964; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 452 ft³/s (12.8 m³/s) Dec. 20, gage height, 4.24 ft (1.292 m); minimum daily, 0.65 ft³/s (0.018 m³/s) Oct. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	86	133	137	28	126	70	16	223	42	3.9	1.4
2	1.1	79	198	132	27	130	67	20	177	42	3.6	1.3
3	1.0	86	174	118	26	119	70	23	176	42	3.5	1.0
4	.91	91	150	116	25	107	69	23	134	41	3.5	.91
5	.82	82	128	115	24	98	63	24	91	41	3.2	.88
6	.78	78	111	105	23	90	59	25	91	27	3.2	.82
7	.77	67	95	93	22	84	53	45	91	13	3.1	.87
8	.73	59	85	83	22	76	49	71	90	13	2.8	1.0
9	.79	50	78	75	21	71	45	75	89	12	2.8	1.2
10	.78	37	74	68	21	72	46	73	49	11	2.7	1.2
11	.68	27	68	62	20	90	131	71	21	11	2.6	1.1
12	.65	27	64	58	20	92	200	70	21	10	2.5	1.0
13	.65	49	62	53	22	89	199	128	21	9.9	2.4	.96
14	.65	104	60	51	54	90	188	186	21	9.6	2.4	19
15	40	117	67	47	130	88	172	186	18	9.2	2.5	41
16	103	142	71	44	301	83	158	186	16	15	2.3	40
17	95	180	69	41	303	79	148	187	16	19	2.1	78
18	91	160	68	38	282	75	141	186	58	18	2.1	106
19	88	135	191	40	256	70	137	187	117	17	2.1	105
20	95	91	409	41	234	65	132	188	115	17	1.9	101
21	104	100	432	43	219	61	128	187	180	16	1.9	98
22	101	130	387	40	215	57	126	188	219	16	2.0	97
23	97	180	334	37	205	54	128	189	170	16	2.1	96
24	93	350	290	35	190	50	135	191	67	15	2.1	95
25	90	330	248	33	174	49	137	231	18	14	2.0	94
26	86	250	212	29	160	48	141	279	18	13	2.0	94
27	92	200	194	36	146	48	145	275	17	10	1.8	91
28	110	170	172	35	133	52	100	269	29	8.1	1.8	95
29	107	150	159	33	---	56	38	263	44	30	1.8	98
30	100	133	155	31	---	60	14	257	43	5.0	1.7	96
31	93	---	146	29	---	69	---	253	---	4.2	1.6	---
TOTAL	1596.41	3740	5084	1898	3303	2398	3289	4552	2440	567.0	76.0	1457.64
MEAN	51.5	125	164	61.2	118	77.4	110	147	81.3	18.3	2.45	48.6
MAX	110	350	432	137	303	130	200	279	223	42	3.9	106
MIN	.65	27	60	29	20	48	14	16	16	4.2	1.6	.82
AC-FT	3170	7420	10080	3760	6550	4760	6520	9030	4840	1120	151	2890

CAL YR 1981 TOTAL 13678.55 MEAN 37.5 MAX 432 MIN .04 AC-FT 27130
WTR YR 1982 TOTAL 30401.05 MEAN 83.3 MAX 432 MIN .65 AC-FT 60300

10339250 MARTIS CREEK AT STATE HIGHWAY 267, NEAR TRUCKEE, CA

LOCATION.--Lat 39°18'08", long 120°07'13", in SW¼SW¼ sec.20, T.17 N., R.17 E., Placer County, Hydrologic Unit 16050102, 4.0 mi (6.4 km) southeast of Truckee. Water-quality samples are collected 150 ft (50 m) downstream from State Highway 267. Thermograph records are obtained about 300 ft (90 m) upstream from highway, off left bank immediately downstream from confluence of main stem and Middle Martis Creek.

DRAINAGE AREA.--25.8 mi² (66.8 km²).

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.

INSTRUMENTATION.--Temperature recorder October to November 1974, and since August 1975.

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, 23.0°C several days during July; minimum recorded, 0.0°C many days during October to April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY FIELD (MG/L AS CAC03)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
NOV 10...	0930	4.2	126	7.3	3.0	1.8	11.0	68	<.020
MAY 06...	1005	107	56	7.4	5.5	5.4	10.4	--	<.020
JUL 02...	1030	19	104	--	10.5	2.0	9.3	55	<.020
SEP 07...	1000	6.4	126	7.2	9.5	1.5	9.7	74	<.020
DATE	NITRO- GEN, NO2+N03 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)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 10...	.14	.120	.39	.51	.65	.030	.010	4	2
MAY 06...	.10	.080	.43	.51	.61	.020	<.010	4	2
JUL 02...	.17	<.070	--	.80	.97	.030	.040	4	5
SEP 07...	<.10	.100	.60	.70	--	.050	.050	2	<1
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	
NOV 10...	--	--	5	4	40	30	140	50	
MAY 06...	230	100	36	13	10	19	60	42	
JUL 02...	280	120	24	24	50	30	150	19	
SEP 07...	130	100	7	<1	20	13	70	3	

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	4.0	8.0	1.0	3.0	0.0	1.0	0.0	0.5	0.0	---	---
2	12.5	5.5	8.0	1.5	3.0	0.0	0.0	0.0	1.5	0.0	---	---
3	14.5	6.5	8.0	0.5	2.0	0.0	0.0	0.0	2.0	0.0	---	---
4	12.5	2.0	7.0	0.5	2.5	0.0	0.0	0.0	1.5	0.0	---	---
5	13.0	2.0	7.0	1.0	3.0	0.5	0.0	0.0	0.0	0.0	5.0	0.0
6	11.0	3.0	9.0	3.5	4.0	0.5	0.0	0.0	0.0	0.0	5.5	0.0
7	10.5	4.5	8.0	2.5	6.0	1.0	0.0	0.0	2.5	0.5	4.5	0.0
8	11.0	2.5	8.0	0.5	4.0	0.0	0.0	0.0	2.0	0.0	9.5	1.0
9	12.0	3.0	7.5	0.5	4.5	1.0	0.0	0.0	0.5	0.0	7.5	0.0
10	12.5	6.0	5.5	2.0	5.5	1.0	0.0	0.0	0.5	0.0	10.0	2.0
11	10.0	4.5	7.0	2.0	3.5	0.0	0.0	0.0	2.0	0.0	8.5	0.5
12	7.5	2.0	4.0	3.5	2.0	0.0	0.0	0.0	2.5	0.0	9.5	0.5
13	6.0	0.5	5.0	3.0	4.5	0.5	0.0	0.0	4.0	0.5	10.0	0.5
14	9.5	1.0	5.0	2.5	5.0	1.5	0.0	0.0	5.5	0.5	8.0	1.5
15	8.0	0.0	7.0	3.0	5.0	2.5	0.0	0.0	6.5	0.5	8.0	1.0
16	8.5	0.0	7.0	5.0	4.0	1.0	0.5	0.0	7.5	1.5	3.0	0.0
17	10.5	0.5	6.0	2.5	3.5	0.0	1.0	0.0	7.5	0.0	3.5	0.0
18	11.0	1.0	5.0	1.0	4.5	1.5	1.0	0.0	6.0	0.0	5.5	0.0
19	10.5	0.5	5.5	1.5	4.5	4.0	0.5	0.0	7.0	0.0	7.5	0.0
20	10.5	1.0	6.5	2.5	4.5	1.5	0.0	0.0	6.5	0.5	7.0	0.0
21	10.5	1.0	3.5	2.5	2.0	0.0	0.5	0.0	8.0	1.0	9.5	0.0
22	10.0	0.0	6.0	3.0	1.5	0.0	0.0	0.0	9.5	0.5	9.0	0.0
23	9.5	0.0	7.0	4.5	2.0	0.5	1.5	0.0	8.0	1.0	10.5	0.0
24	8.0	0.5	5.0	1.5	2.5	0.0	2.0	0.0	4.5	0.0	11.0	0.0
25	10.0	0.5	3.5	0.5	3.5	0.5	1.5	0.0	2.5	0.0	9.0	1.5
26	10.5	3.5	1.0	0.5	3.5	1.0	1.0	0.0	---	---	8.0	2.0
27	7.5	3.5	1.5	0.5	4.0	1.0	0.5	0.0	---	---	10.5	2.0
28	5.5	2.0	2.5	0.5	3.0	0.5	1.5	0.0	---	---	2.5	0.0
29	5.0	0.5	1.5	0.0	2.5	0.5	1.0	0.0	---	---	0.5	0.0
30	6.0	0.0	1.5	0.0	5.0	0.5	0.0	0.0	---	---	0.0	0.0
31	7.0	0.0	---	---	4.5	1.0	0.5	0.0	---	---	0.0	0.0
MONTH	15.0	0.0	9.0	0.0	6.0	0.0	2.0	0.0	9.5	0.0	11.0	0.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	13.5	2.0	16.0	4.5	18.0	9.0	20.5	10.5	17.0	8.5
2	0.0	0.0	11.5	2.0	16.0	5.0	---	---	19.5	8.0	19.0	9.0
3	0.0	0.0	13.5	2.0	15.5	4.5	17.5	8.0	20.0	8.5	16.5	10.0
4	0.0	0.0	13.0	2.0	14.0	5.0	19.0	9.5	20.0	9.0	19.0	8.0
5	0.0	0.0	13.0	2.0	14.5	5.0	18.0	7.5	20.5	9.0	19.0	8.5
6	0.0	0.0	14.0	2.0	15.5	4.5	20.5	8.5	20.5	9.5	16.0	9.5
7	2.0	0.0	13.5	3.0	16.5	4.5	20.0	10.5	14.5	12.0	18.5	7.5
8	4.0	0.5	12.0	3.0	17.5	5.5	20.5	11.0	21.5	10.5	18.5	8.5
9	4.5	0.0	5.5	2.5	18.0	6.0	20.5	8.5	21.0	10.5	18.0	8.5
10	4.0	0.0	11.0	2.0	18.0	7.0	21.0	9.0	20.0	9.0	15.0	8.0
11	0.5	0.0	11.5	3.0	16.0	8.5	22.0	9.5	20.5	9.0	15.5	5.5
12	3.5	0.0	13.0	2.5	14.5	8.0	21.5	10.5	20.5	9.0	16.0	6.0
13	6.0	0.5	14.0	3.5	13.0	6.5	22.0	10.0	20.5	9.5	16.5	8.0
14	9.5	0.0	13.0	4.5	18.5	7.5	22.0	10.5	20.5	9.5	13.5	6.0
15	11.0	0.0	15.0	3.5	20.5	8.0	20.5	10.0	18.5	9.0	8.5	6.0
16	12.0	0.0	15.0	4.0	20.0	9.5	21.0	10.0	20.0	9.0	9.0	4.5
17	13.0	0.0	13.5	4.5	18.5	10.5	21.5	9.0	20.5	9.5	12.5	7.0
18	12.5	0.5	14.0	4.0	17.5	9.5	21.5	9.5	20.0	11.0	12.5	8.0
19	12.5	0.0	15.0	3.5	15.0	10.0	22.0	10.0	17.5	10.0	13.0	7.0
20	11.0	0.5	15.5	4.5	18.5	9.0	22.0	10.0	20.5	10.5	15.0	5.5
21	13.0	0.0	15.5	4.5	20.5	9.0	22.0	9.5	21.5	11.0	15.5	6.0
22	14.0	0.5	15.5	5.5	20.5	9.0	21.5	9.5	21.0	12.0	16.0	7.0
23	14.0	1.0	16.0	5.5	20.5	9.0	20.0	11.5	20.0	12.0	14.5	6.5
24	13.0	1.0	16.5	5.5	16.0	9.0	23.0	12.5	19.0	11.0	17.0	10.0
25	12.5	1.5	17.0	6.0	20.0	9.0	21.5	11.0	20.5	10.0	13.5	11.0
26	12.0	2.0	17.0	6.5	21.0	10.0	23.0	11.5	20.0	11.5	15.0	8.5
27	13.5	1.5	13.0	6.5	18.5	11.5	20.5	12.5	18.0	9.0	10.5	7.0
28	11.5	2.0	15.0	4.0	16.0	10.0	22.0	11.0	15.0	10.5	12.0	4.5
29	11.0	1.0	11.0	4.5	13.5	9.0	23.0	11.5	18.5	10.5	9.0	4.5
30	12.5	1.0	16.0	4.0	14.5	10.0	22.5	11.0	18.5	7.5	11.0	4.0
31	---	---	16.0	5.5	---	---	20.5	9.5	18.5	7.5	---	---
MONTH	14.0	0.0	17.0	2.0	21.0	4.5	23.0	7.5	21.5	7.5	19.0	4.0
YEAR	23.0	0.0										

PYRAMID AND WINNEMUNGO LAKES BASIN

10339250 MARTIS CREEK AT STATE HIGHWAY 267, NEAR TRUCKEE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 10...	0830	4.2	3.0	1	.01
MAY 06...	1005	107	5.5	11	3.2
JUL 02...	1020	19	10.5	26	1.3

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'38", long 120°06'48", in NE¼NW¼ 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 (3.2 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--39.6 mi² (102.6 km²).

RESERVOIR-CONTENTS 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 Engineer).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-ft (25.2 hm³) between altitudes 5,745 ft (1,751.1 m), streambed altitude at dam, and 5,838 ft (1,779.4 m), altitude of spillway crest. Figures given herein represent total contents, which include 775 acre-ft (960,000 m³) of inactive storage below altitude, 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,700 acre-ft (9.49 hm³) May 11, 12, 1980, altitude, 5,815.16 ft (1,772.461 m); minimum (since storage began), 768 acre-ft (947,000 m³) Aug. 24, 1977, altitude, 5,779.88 ft (1,761.707 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,510 acre-ft (1.86 hm³) Feb. 16, altitude, 5,788.85 ft (1,764.441 m); minimum, 779 acre-ft (960,500 m³) Oct. 1, 2, altitude 5,780.06 ft (1,761.762).

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

5779	716	5800	3255
5780	775	5810	5884
5785	1139	5820	9718
5790	1646		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	779	786	815	838	801	877	823	893	835	808	791	808
2	779	786	813	835	801	856	821	892	833	806	791	809
3	780	786	810	827	801	854	826	896	829	804	791	811
4	780	786	808	822	800	846	826	894	828	803	791	812
5	780	786	808	825	798	842	827	889	831	803	791	813
6	780	786	807	818	796	841	824	888	827	801	791	818
7	784	786	807	811	797	836	822	891	824	800	792	821
8	784	786	804	814	799	846	820	887	822	799	794	826
9	783	785	823	811	799	840	824	888	820	798	793	826
10	783	784	814	808	799	870	904	879	820	798	794	826
11	783	784	808	807	798	873	1190	867	818	797	795	826
12	783	784	815	804	798	856	982	862	818	796	796	824
13	783	805	814	803	811	852	911	862	818	796	796	824
14	783	910	810	802	860	856	908	861	817	795	796	822
15	783	831	818	801	1180	846	894	860	815	794	796	830
16	783	824	813	803	1510	842	893	862	815	794	797	845
17	783	811	810	804	1070	841	835	864	815	794	796	845
18	783	843	824	803	915	839	883	863	824	794	796	848
19	783	817	1190	801	903	837	881	860	822	794	798	848
20	783	807	1310	801	903	835	877	859	816	793	799	843
21	783	802	958	799	918	829	881	860	812	793	799	840
22	783	1050	887	799	906	826	879	860	816	793	798	836
23	783	877	865	798	883	824	887	860	809	793	798	837
24	783	1040	856	798	874	825	886	860	808	793	798	856
25	783	938	850	803	864	824	884	860	807	793	799	874
26	782	848	853	808	858	824	885	860	805	793	798	874
27	784	837	842	806	856	826	890	856	804	794	798	870
28	802	829	837	806	852	829	892	851	804	794	799	866
29	793	821	890	803	---	818	884	846	807	793	800	870
30	788	817	858	799	---	810	888	841	809	792	802	868
31	786	---	839	799	---	812	---	838	---	791	806	---
MAX	802	1050	1310	838	1510	877	1190	896	835	808	806	874
MIN	779	784	804	798	796	810	820	838	804	791	791	808
Δ	5780.19	5780.22	5780.20	5780.27	5780.31	5780.49	5780.42	5780.20	5780.06	5779.98	5779.98	5780.05
±	+1	+2	-1	+4	+2	+12	-5	-13	-9	-5	0	+4

CAL YR 1981 MAX 1310 MIN 773 ± +51
WTR YR 1982 MAX 1510 MIN 779 ± +90

* Altitude, in feet, at end of month.
± Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339380 MARTIS CREEK LAKE NEAR TRUCKEE, 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE	TUR- BID- ITY	OXYGEN, DIS- SOLVED	ALKA- LITY FIELD (MG/L AS CAC03)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	
DATE	TIME	(UMHQS)	(UNITS)	(DEG C)	(NTU)	(MG/L)				
OCT 11...	1030	128	7.2	7.2	--	11.4	--	<.020	<.09	
MAY 06...	1115	60	6.8	12.5	5.3	9.2	--	<.020	.15	
JUL 02...	1120	92	--	17.0	1.7	9.6	--	<.020	<.10	
SEP 07...	1110	123	--	18.5	--	9.0	75	<.020	<.10	
		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)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
DATE										
OCT 11...	.120	.49	.61	--	.030	.010	3	2	--	
MAY 06...	.060	.50	.56	.73	.030	<.010	4	3	180	
JUL 02...	<.070	--	.90	1.0	.050	.030	4	3	170	
SEP 07...	.090	1.6	1.70	--	.030	.040	3	<1	220	
	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)			
DATE										
OCT 11...	--	55	5	40	20	60	40			
MAY 06...	100	7	14	20	14	50	36			
JUL 02...	76	6	7	40	16	100	84			
SEP 07...	110	7	1	50	10	30	10			

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.2 mi (0.3 km) downstream from Martis Creek Lake Dam, 1.8 mi (2.9 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--39.9 mi² (103.3 km²), revised.

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 (1,747 m), from topographic map. Prior to July 10, 1972, at site 1.0 mi (1.6 km) downstream at different datum.

REMARKS.--Records excellent. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

AVERAGE DISCHARGE (unadjusted).--24 years, 24.5 ft³/s (0.694 m³/s), 17,750 acre-ft/yr (21.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Feb. 1, 1963, gage height, 6.16 ft (1.878 m), site and datum then in use; minimum, 1.1 ft³/s (0.031 m³/s) July 19, 20, 1961. Maximum discharge since construction of Martis Creek Dam in 1971, 648 ft³/s (18.4 m³/s) Apr. 2, 1974, gage height, 6.01 ft (1.832 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Nov. 9-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 583 ft³/s (16.5 m³/s) Feb. 16, gage height, 5.43 ft (1.655 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	7.6	35	65	20	110	34	161	63	30	13	9.2
2	4.3	7.6	34	60	21	105	41	169	59	27	13	9.3
3	4.6	7.6	30	59	21	99	40	169	55	26	13	9.0
4	4.5	7.6	28	45	21	85	45	172	51	24	13	9.4
5	4.5	7.6	27	46	20	71	44	167	53	23	12	8.8
6	4.5	7.9	27	45	19	64	43	159	51	22	12	8.1
7	5.2	7.9	27	40	19	62	39	161	47	21	12	8.7
8	5.7	7.6	25	39	19	66	38	164	44	20	13	7.9
9	5.3	7.3	26	39	19	69	38	163	42	19	12	9.1
10	5.2	7.3	38	37	19	87	66	149	40	18	11	10
11	5.4	7.3	29	35	18	150	466	129	39	18	11	11
12	5.3	13	28	32	18	107	415	113	39	17	11	11
13	5.2	71	33	29	21	89	252	110	38	17	11	11
14	5.1	125	31	28	63	104	193	112	37	16	11	11
15	5.0	46	34	27	240	87	177	108	35	16	11	11
16	5.0	34	34	25	568	75	150	109	34	16	11	13
17	5.0	105	30	25	552	71	150	114	34	16	11	15
18	5.0	47	31	26	299	69	149	116	36	15	11	15
19	5.0	29	241	26	192	63	145	110	47	15	11	15
20	5.0	23	573	25	179	58	140	106	38	15	11	15
21	5.0	130	486	25	192	55	130	106	33	15	11	14
22	5.0	268	217	22	207	50	136	107	28	14	11	13
23	5.0	224	140	22	164	47	144	107	31	14	10	13
24	5.0	400	107	22	134	46	155	107	27	14	10	16
25	5.1	171	90	21	118	47	152	106	27	14	10	16
26	5.2	92	82	25	104	46	152	105	26	14	10	17
27	5.3	67	91	24	96	44	155	102	25	14	10	16
28	18	53	66	25	90	49	164	93	25	15	9.9	16
29	18	45	98	23	---	45	160	83	26	14	10	16
30	10	38	137	23	---	33	151	75	28	13	9.3	17
31	8.6	---	85	21	---	29	---	68	---	13	8.7	---
TOTAL	189.2	2064.3	2960	1006	3453	2182	4164	3820	1153	545	343.9	371.5
MEAN	6.10	68.8	95.5	32.5	123	70.4	139	123	38.6	17.6	11.1	12.4
MAX	18	400	573	65	568	150	466	172	63	30	13	17
MIN	4.2	7.3	25	21	18	29	34	68	25	13	8.7	7.9
AC-FT	375	4090	5870	2000	6850	4330	8260	7580	2300	1080	682	737

CAL YR 1981 TOTAL 8310.8 MEAN 22.8 MAX 573 MIN 2.9 AC-FT 16480
WTR YR 1982 TOTAL 22256.9 MEAN 61.0 MAX 573 MIN 4.2 AC-FT 44150

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.

INSTRUMENTATION.--Temperature recorder since October 1974.

REMARKS.--Unpublished chemical-quality, water temperatures, and sediment data prior to October 1974, available at district office in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: 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, 20.5°C July 28-30; minimum recorded, 0.0°C Feb. 16, 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY FIELD (MG/L AS CAC03)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
NOV									
10...	1130	7.3	134	7.6	7.5	1.6	11.0	72	<.020
MAY									
06...	1200	157	64	7.3	10.0	4.0	10.2	38	<.020
JUL									
02...	1300	28	99	--	16.0	1.6	9.1	57	<.020
SEP									
07...	1145	8.8	118	--	17.5	1.5	9.6	80	<.020

DATE	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)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV									
10...	.12	.120	.34	.46	.58	.030	.010	3	1
MAY									
06...	.41	.100	.57	.67	1.1	.020	<.010	5	2
JUL									
02...	.96	<.070	--	.70	1.7	.080	.030	2	1
SEP									
07...	.10	.100	1.1	1.20	1.3	.020	.020	3	<1

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV								
10...	--	--	110	5	40	20	90	20
MAY								
06...	240	82	74	8	20	22	110	32
JUL								
02...	160	70	9	2	20	5	60	<3
SEP								
07...	210	85	4	3	50	25	90	86

40339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1931 TO SEPTEMBER 1932

OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	7.0	2.5	2.0	2.0	1.5	1.5	1.0	4.0	3.5
2	---	---	9.5	7.0	3.0	2.0	1.5	1.5	1.5	1.0	3.5	3.0
3	---	---	9.5	6.5	3.0	2.5	1.0	1.0	1.5	1.0	3.0	2.0
4	---	---	9.0	6.5	3.5	2.5	1.0	1.0	1.5	1.0	2.5	2.0
5	---	---	9.0	6.5	3.5	3.0	1.0	1.0	1.5	1.0	2.5	2.0
6	---	---	9.0	7.0	3.5	3.0	1.0	0.5	1.5	1.0	3.0	2.5
7	13.5	11.0	9.0	7.0	4.0	3.0	1.0	0.5	1.5	1.0	3.0	3.0
8	14.0	10.5	9.0	6.5	4.0	3.5	1.0	0.5	2.0	1.5	3.5	3.0
9	13.0	10.5	9.0	6.5	4.0	3.5	1.0	0.5	1.5	1.5	3.5	3.5
10	13.0	11.0	7.5	6.5	4.0	3.5	1.0	0.5	1.5	1.5	4.0	3.5
11	12.0	10.5	8.5	6.5	4.0	3.5	1.0	0.5	1.5	1.5	4.0	4.0
12	12.5	9.0	7.0	6.5	4.0	3.5	1.0	0.5	2.0	1.5	4.5	4.0
13	11.0	8.5	6.5	6.5	4.0	3.5	1.0	0.5	2.0	1.5	4.5	4.0
14	11.0	8.5	6.5	5.5	4.0	3.5	1.0	0.5	1.5	1.0	4.5	4.5
15	11.0	8.0	6.0	5.0	3.5	3.5	1.0	0.5	1.0	0.5	5.0	4.5
16	11.0	7.5	6.0	5.5	3.5	3.5	1.0	1.0	0.5	0.0	5.0	4.5
17	11.5	7.5	5.5	5.5	4.0	3.5	1.0	1.0	0.5	0.0	4.5	4.5
18	11.5	7.5	5.5	5.0	4.0	3.5	1.0	1.0	1.0	0.5	4.5	4.0
19	11.5	7.5	6.0	5.0	4.0	3.5	1.0	1.0	1.5	1.0	4.0	4.0
20	11.5	7.5	6.0	5.0	4.5	4.0	1.0	1.0	2.0	1.5	4.0	4.0
21	11.5	7.5	5.0	4.5	4.0	2.0	1.0	1.0	2.5	2.0	4.5	4.0
22	11.5	7.5	4.5	3.5	2.0	1.5	1.0	1.0	3.5	2.5	4.5	4.5
23	11.5	7.5	5.0	4.0	1.5	1.5	1.5	1.0	3.5	3.0	5.0	4.5
24	10.5	7.5	5.5	5.0	2.0	1.5	1.5	1.0	3.5	3.0	6.0	5.0
25	11.0	7.5	4.5	2.5	2.0	1.5	1.5	1.0	3.5	3.0	6.5	6.0
26	11.0	7.5	2.5	2.0	2.0	2.0	1.5	1.0	3.5	3.0	6.5	6.0
27	10.0	8.0	2.0	2.0	2.5	2.0	1.5	1.0	3.5	3.0	6.5	6.0
28	9.0	7.0	2.0	1.5	2.5	2.5	1.5	1.0	3.5	3.5	6.5	6.0
29	9.0	7.0	2.0	1.5	2.5	2.5	1.5	1.0	---	---	6.0	5.0
30	8.5	6.5	2.5	2.0	2.5	2.0	1.5	1.0	---	---	5.0	4.5
31	9.0	6.5	---	---	2.0	2.0	1.5	1.0	---	---	4.5	3.5
MONTH	14.0	6.5	9.5	1.5	4.5	1.5	2.0	0.5	3.5	0.0	6.5	2.0

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	3.5	9.0	8.0	13.0	12.5	16.0	14.5	20.0	17.0	18.0	15.5
2	3.0	3.0	9.5	9.0	13.0	12.5	16.5	14.5	19.5	16.5	18.0	15.5
3	3.0	3.0	9.5	9.0	13.5	13.0	16.5	14.5	19.5	16.5	17.5	15.5
4	3.0	2.5	9.5	8.0	13.5	13.0	16.0	14.5	19.0	16.5	18.0	15.5
5	3.0	2.5	9.0	7.5	13.0	12.5	16.5	14.5	19.0	16.5	18.5	15.5
6	3.0	3.0	10.0	8.0	13.0	12.0	17.0	14.5	19.0	16.5	17.5	15.5
7	3.0	3.0	11.0	9.5	13.0	12.5	17.5	15.0	17.5	17.0	18.0	15.0
8	3.5	3.0	10.5	10.0	13.5	13.0	17.5	15.5	19.0	16.5	19.5	15.0
9	3.5	3.5	10.0	8.0	14.0	13.0	18.0	15.5	18.5	16.5	18.0	15.5
10	4.0	3.5	8.0	7.0	15.0	14.0	18.0	15.5	18.5	16.0	17.5	15.0
11	4.0	1.5	7.5	7.0	15.0	14.5	18.5	16.0	19.0	16.0	16.5	14.5
12	1.5	1.0	8.0	7.0	15.0	14.5	18.5	16.0	18.5	16.0	16.5	14.0
13	3.5	1.5	10.0	8.5	15.0	14.0	19.0	16.0	18.5	16.0	16.5	14.5
14	4.0	3.0	10.0	9.5	---	---	19.0	16.5	18.5	16.0	16.0	14.0
15	4.5	4.0	9.5	9.0	---	---	19.0	16.5	18.0	16.0	14.5	13.0
16	6.0	5.0	11.5	9.5	---	---	19.0	16.5	18.5	16.0	14.0	12.5
17	6.0	5.5	12.0	11.5	17.0	14.5	19.5	16.5	18.5	16.0	14.0	13.0
18	7.0	6.0	11.5	10.0	16.5	14.5	19.5	16.5	18.5	16.0	14.0	13.0
19	7.0	6.5	11.5	10.0	16.5	15.0	19.5	16.5	18.5	16.0	14.0	12.5
20	8.0	6.5	12.5	11.5	16.5	14.5	19.5	16.5	18.5	16.5	14.0	12.5
21	7.5	7.0	13.0	12.0	16.5	14.5	19.5	16.5	18.5	16.5	15.0	12.5
22	8.0	7.5	13.0	12.0	18.5	14.5	19.5	16.5	19.0	16.5	15.5	13.0
23	8.0	7.5	13.5	12.0	17.0	15.0	19.5	17.0	18.5	16.5	15.5	13.0
24	9.0	8.0	13.0	12.5	16.5	15.5	20.0	17.5	19.0	16.5	15.5	13.5
25	9.0	8.0	14.5	12.5	17.0	15.0	19.5	17.0	18.5	16.0	14.5	14.0
26	8.5	8.0	15.0	14.0	17.5	15.0	20.0	17.5	18.5	16.5	14.5	13.0
27	8.5	8.0	15.0	13.5	17.5	15.5	20.0	17.5	18.5	16.0	13.5	12.0
28	9.0	8.5	13.5	12.5	17.0	15.5	20.5	17.5	18.0	16.5	13.5	12.0
29	8.5	7.5	13.0	12.5	16.0	15.5	20.5	17.5	18.0	16.0	13.0	10.5
30	8.5	7.5	12.5	12.0	16.0	15.0	20.5	17.5	18.5	15.5	12.5	11.0
31	---	---	13.0	12.5	---	---	19.5	17.5	18.5	15.0	---	---
MONTH	9.0	1.0	15.0	7.0	16.5	12.0	20.5	14.5	20.0	15.0	19.5	14.5
YEAR	20.5	0.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1961 TO SEPTEMBER 1962

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 10...	1130	7.3	7.5	3	.06
MAY 06...	1200	157	10.0	7	3.0
JUL 02...	1300	28	16.0	9	.68
SEP 07...	1145	8.8	12.5	4	.21

PYRAMID AND WINNEMUCCA LAKES BASIN

10340300 PROSSER CREEK RESERVOIR NEAR TRUCKEE, CA

LOCATION (REVISED).--Lat 39°22'40", long 120°08'10", in NW¼SW¼ 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 (2.3 km) upstream from mouth, and 4.2 mi (6.8 km) northeast of Truckee.

DRAINAGE AREA.--50.3 mi² (130.3 km²).

PERIOD OF RECORD.--January 1963 to current year. Prior to October 1976, published as "near Boca."

GAGE.--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 (35.3 hm³) between altitudes 5,660.6 ft (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm³), includes 83 acre-ft (102,000 m³) dead storage, below altitude 5,660.6 ft (1,725.35 m). Altitude of streambed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 32,269 acre-ft (39.8 hm³) June 1, 1973, altitude 5,744.33 ft (1,750.872 m); minimum observed, 83 acre-ft (0.10 hm³) Aug. 18, 1976, to Apr. 18, 1977, July 8 to Dec. 26, 1977, Feb. 19 to Mar. 21, 1978; minimum altitude observed, 5,637.01 ft (1,718.161 m) July 20 to Dec. 19, 1977, Feb. 24 to Mar. 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 30,371 acre-ft (37.4 hm³) Aug. 4, altitude 5,741.90 ft (1,750.131 m); minimum observed, 8,591 acre-ft (10.6 hm³) Jan. 18, altitude 5,699.85 ft (1,737.314 m).

MONTHEND ALTITUDE AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	5711.57	12785	--
Oct. 31	5703.40	9730	-3055
Nov. 30	5708.10	11410	+1680
Dec. 31	5701.50	9107	-2303
CAL YR 1981.	--	--	-193
Jan. 31	5702.55	9448	+341
Feb. 28	5700.55	8808	-640
Mar. 31	5702.00	9267	+459
Apr. 30	5706.65	10870	+1603
May 31	5702.15	9316	-1554
June 30	5732.45	23759	+14443
July 31	5741.83	30318	+6559
Aug. 31	5741.48	30054	-264
Sep. 30	5741.99	21606	-8448
WTR YR 1981-82	--	--	+8221

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'24", long 120°07'50", in NW¼NE¼ sec.31, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1.0 mi (1.6 km) upstream from mouth, 0.2 mi (0.3 km) downstream from Prosser Creek Dam, and 4.2 mi (6.7 km) northeast of Truckee.

DRAINAGE AREA.--52.9 mi² (137.0 km²).

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, Pt. 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 (1,707.584 m) National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). See WSP 2127 for history of changes prior to September 1956. October 1956 lower to May 1976, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 29.69 ft (9.050 m) lower.

REMARKS.--Records good. Flow regulated by Prosser Creek dam since Jan. 31, 1963.

AVERAGE DISCHARGE (adjusted for change in contents in Prosser Creek Reservoir since 1963.--39 years (1943-50, 1952-82), 87.3 ft³/s (2.472 m³/s), 63,250 acre-ft/yr (78.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--(Water years 1943-81) Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 23, 1955, gage height, 10.13 ft (3.088 m), present datum from rating curve extended above 910 ft³/s (25.8 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft (3.35 m), from floodmarks (present datum), Nov. 20, 1950, minimum discharge, 0.4 ft³/s (0.001 m³/s) July 18, 1961, result of work on dam upstream. Maximum discharge since construction of Prosser Creek Dam in 1964, 1,610 ft³/s (45.6 m³/s) Dec. 25, 1964, gage height 6.28 ft (1.914 m); minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Jan. 2, 1975, result of temporary closing of Prosser Creek Dam, for spillway maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,550 ft³/s (43.9 m³/s) Feb. 20, gage height, 6.58 ft (2.006 m), minimum daily, 8.9 ft³/s (0.25 m³/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	38	413	160	77	194	144	525	316	16	43	58
2	10	38	212	140	77	192	144	528	269	15	42	55
3	10	38	211	139	77	194	144	581	254	15	43	81
4	10	38	149	139	77	194	144	611	239	15	47	96
5	10	38	119	141	77	165	142	567	94	15	49	96
6	10	38	119	112	77	149	141	541	15	14	48	96
7	30	38	54	92	77	150	139	545	15	14	48	96
8	43	38	10	107	57	139	137	551	14	14	48	113
9	43	38	41	118	44	132	120	555	14	14	48	124
10	43	38	62	118	44	135	114	552	14	14	47	143
11	42	38	98	105	44	140	136	544	14	14	46	153
12	42	39	122	95	44	137	145	540	13	14	45	153
13	42	43	123	95	44	137	146	538	13	13	44	172
14	79	42	108	95	48	141	297	384	13	13	42	182
15	102	40	98	95	146	189	376	295	13	14	41	183
16	132	184	98	95	102	236	268	300	15	13	36	184
17	149	304	98	96	254	209	209	302	16	13	33	184
18	149	403	114	46	600	190	209	302	16	13	33	184
19	117	462	136	11	815	164	238	537	16	13	32	184
20	98	298	75	11	1250	148	254	520	15	13	32	218
21	84	204	334	11	1240	149	436	419	15	13	32	240
22	74	201	730	79	832	121	540	419	15	13	34	259
23	74	371	817	121	658	104	539	419	15	15	36	269
24	74	247	806	121	387	106	585	489	15	20	35	270
25	74	172	889	54	228	107	614	529	15	30	40	269
26	36	451	1030	11	228	110	612	527	15	58	42	266
27	8.9	605	1050	11	229	112	608	527	15	73	39	265
28	49	626	552	11	205	115	606	538	15	74	37	264
29	75	617	275	30	---	132	603	541	15	75	36	264
30	74	691	223	42	---	142	552	536	15	56	34	262
31	53	---	189	63	---	143	---	417	---	45	50	---
TOTAL	1846.7	6418	9355	2564	8038	4676	9342	15179	1538	751	1262	5383
MEAN	59.6	214	302	82.7	287	151	311	490	51.3	24.2	40.7	179
MAX	149	691	1050	160	1250	236	614	611	316	75	50	270
MIN	8.9	38	10	11	44	104	114	295	13	13	32	55
AC-FT	3660	12730	18560	5090	15940	9270	18530	30110	3050	1490	2500	10680
CAL YR 1981	TOTAL	28732.5	MEAN	78.7	MAX	1050	MIN	5.0	AC-FT	56990		
WTR YR 1982	TOTAL	66352.7	MEAN	182	MAX	1250	MIN	8.9	AC-FT	131600		

PYRAMID AND WINNEMUCCA LAKES BASIN

10343000 INDEPENDENCE CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°27'20", long 120°17'13", in SW¼NW¼ sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.3 mi (0.5 km) downstream from Independence Lake outlet, and 10.5 mi (16.9 km) northwest of Truckee.

DRAINAGE AREA.--8.10 mi² (20.98 km²), revised.

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,115 m), from topographic map. July 1, 1904, to June 30, 1910, water-stage recorder 75 ft (25 m) downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft (180 m) downstream at approximately same datum.

REMARKS.--Records poor October to June, fair thereafter. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft (21.6 hm³).

AVERAGE DISCHARGE (unadjusted).--19 years (water years 1903-7, 1969-82), 27.4 ft³/s (0.776 m³/s), 19,850 acre-ft/yr (24.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 291 ft³/s (8.24 m³/s) Dec. 20, 1981, gage height, 6.12 ft (1.865 m); no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 291 ft³/s (8.24 m³/s) Dec. 20, gage height, 6.12 ft (1.865 m); minimum daily discharge, 0.74 ft³/s (0.021 m³/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.78	28	53	13	35	18	62	130	85	18	8.9
2	.92	.79	25	49	13	35	18	69	121	80	16	8.8
3	.88	.80	23	45	13	34	18	78	115	73	15	8.8
4	.85	.80	21	41	12	32	17	85	103	67	14	8.8
5	.82	.80	19	38	12	30	17	90	92	64	14	8.5
6	.80	.80	18	36	12	29	17	91	89	63	14	8.5
7	.77	.80	15	34	11	24	17	98	86	62	13	8.4
8	.74	.80	15	31	11	21	17	108	84	59	13	8.8
9	.74	.80	15	29	11	20	18	108	85	56	13	8.7
10	.75	.80	16	28	10	21	117	99	91	54	13	8.4
11	.75	.80	15	27	10	24	98	83	101	53	12	8.3
12	.76	.80	15	25	10	23	81	75	103	54	12	8.1
13	.76	.84	16	24	12	21	73	75	100	56	12	8.1
14	.77	.93	16	23	25	23	67	79	98	55	12	8.1
15	.77	1.0	20	22	61	22	64	84	106	56	11	8.2
16	.77	.96	18	21	147	21	58	94	130	52	11	8.3
17	.78	.90	16	20	132	20	50	105	141	48	11	8.1
18	.78	.85	19	20	107	20	44	113	138	44	11	8.3
19	.79	.83	147	19	84	19	41	114	140	41	11	8.5
20	.79	.80	269	19	73	19	38	115	143	38	11	8.4
21	.80	21	229	18	68	19	36	121	139	35	11	8.4
22	.80	24	171	18	67	19	35	130	131	33	11	8.4
23	.80	51	130	17	63	19	37	139	117	31	10	8.7
24	.80	142	101	17	56	19	40	147	110	30	10	9.1
25	.80	114	79	16	51	19	43	155	106	28	10	10
26	.80	84	69	16	44	19	45	164	104	26	9.9	12
27	.83	64	63	15	38	19	48	167	103	25	9.5	11
28	.84	51	55	15	34	19	53	160	100	24	9.5	11
29	.83	40	53	15	---	19	56	158	96	23	9.5	12
30	.82	33	55	14	---	18	57	151	88	21	9.2	11
31	.82	---	52	14	---	18	---	140	---	20	9.1	---
TOTAL	24.88	640.68	1803	779	1200	700	1338	3457	3290	1456	365.7	270.6
MEAN	.80	21.4	58.2	25.1	42.9	22.6	44.6	112	110	47.0	11.8	9.02
MAX	.95	142	269	53	147	35	117	167	143	85	18	12
MIN	.74	.78	15	14	10	18	17	62	84	20	9.1	8.1
AC-FT	49	1270	3580	1550	2380	1390	2650	6860	6530	2890	725	537
CAL YR 1981	TOTAL	3617.06	MEAN	9.91	MAX	269	MIN	.74	AC-FT	7170		
WTR YR 1982	TOTAL	15324.86	MEAN	42.0	MAX	269	MIN	.74	AC-FT	30400		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10343500 SAGEHEN CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank 2.2 mi (3.5 km) upstream from bridge on State Highway 89, and 7.5 mi (12.1 km) north of Truckee.

DRAINAGE AREA.--10.5 mi² (27.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft (30 m) upstream at different datum.

REMARKS.--Records excellent. No storage or diversion above station.

AVERAGE DISCHARGE.--29 years, 12.4 ft³/s (0.351 m³/s), 8,980 acre-ft/yr (11.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s (21.7 m³/s) Feb. 1, 1963, gage height, 4.64 ft (1.414 m) from floodmarks, from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement at gage height 4.28 ft (1.305 m); minimum, 0.6 ft³/s (0.017 m³/s) Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Nov. 13	2130	119	3.37	3.14	0.957	Mar. 12	0930	61	1.73	2.77	0.844
Nov. 23	1700	272	7.70	3.78	1.152	Apr. 10	1130	130	3.68	3.25	.991
Dec. 20	0130	368	10.42	4.04	1.231	May 7	1745	149	4.22	3.35	1.021
Feb. 16	0230	*393	11.10	4.09	1.247	May 26	1930	137	3.88	3.29	1.003

Minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	13	18	7.1	30	7.9	92	75	31	7.2	4.1
2	1.7	2.8	12	17	7.0	27	7.7	97	70	28	7.2	4.0
3	1.8	2.9	11	16	6.9	26	10	102	66	25	7.0	4.0
4	1.7	2.8	9.9	15	6.9	24	12	103	62	24	6.9	4.0
5	1.7	2.9	9.2	14	6.8	22	11	101	58	23	6.7	3.9
6	1.7	3.2	8.7	14	6.8	21	11	104	54	21	6.5	3.8
7	3.8	3.0	9.0	13	6.7	20	11	115	52	20	6.8	3.9
8	2.2	2.7	8.5	13	6.6	19	11	116	50	19	6.8	3.7
9	2.0	2.5	8.7	13	6.6	18	22	98	49	18	6.3	3.7
10	2.3	2.5	9.1	12	6.6	23	105	81	49	18	5.9	3.7
11	2.5	2.6	8.1	12	6.6	28	79	75	49	17	5.7	3.8
12	2.3	11	7.8	12	6.7	24	58	79	47	17	5.7	3.8
13	2.1	43	7.8	11	9.8	22	49	86	46	16	5.5	3.8
14	2.0	28	8.4	11	30	23	45	88	45	15	5.5	3.9
15	2.0	28	14	10	101	20	42	90	45	15	5.3	5.9
16	2.0	21	11	10	223	19	45	96	45	14	5.2	7.3
17	2.0	24	8.7	9.7	98	18	47	103	48	14	5.0	6.5
18	1.9	12	13	9.5	67	17	46	100	52	13	5.0	7.2
19	1.9	9.4	187	9.3	57	16	45	95	54	12	5.0	7.4
20	1.9	8.2	253	9.1	56	16	45	96	49	12	5.2	5.5
21	1.9	63	98	8.8	58	15	48	100	47	11	4.8	4.8
22	1.9	44	63	8.8	63	15	51	102	45	11	4.6	4.4
23	1.9	156	49	8.2	50	14	60	105	43	10	4.6	4.6
24	1.9	108	41	8.0	43	15	63	107	41	10	4.5	11
25	1.9	39	35	8.0	39	14	62	109	39	9.8	4.5	16
26	1.9	27	32	8.0	35	15	68	100	37	9.3	4.3	8.9
27	2.2	22	31	7.9	32	14	76	113	36	9.2	4.2	7.0
28	8.8	18	26	7.8	30	12	79	100	35	9.0	4.4	6.2
29	3.6	16	23	7.5	---	11	74	90	35	8.6	4.6	8.6
30	2.8	14	25	7.3	---	8.6	78	84	34	8.1	4.4	7.3
31	2.7	---	21	7.2	---	8.9	---	80	---	7.6	4.2	---
TOTAL	72.6	722.2	1061.9	336.1	1073.1	575.5	1368.6	3007	1457	475.6	169.5	172.7
MEAN	2.34	24.1	34.3	10.8	38.3	18.6	45.6	97.0	48.6	15.3	5.47	5.76
MAX	8.8	156	253	18	223	30	105	116	75	31	7.2	16
MIN	1.6	2.5	7.8	7.2	6.6	8.6	7.7	75	34	7.6	4.2	3.7
AC-FT	144	1430	2110	667	2130	1140	2710	5960	2890	943	336	343
CAL YR 1981	TOTAL	3336.4	MEAN	9.14	MAX	253	MIN	1.3	AC-FT	6620		
WTR YR 1982	TOTAL	10491.8	MEAN	28.7	MAX	253	MIN	1.6	AC-FT	20810		

PYRAMID AND WINNEMUCCA LAKE 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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT					
05...	1100	1.7	--	1	.00
12...	0830	2.2	--	3	.02
19...	0800	1.9	--	2	.01
26...	1015	1.9	--	1	.00
NOV					
01...	0900	2.6	--	3	.02
08...	0830	2.6	--	3	.02
15...	1330	50	3.0	11	1.5
16...	0945	21	--	3	.17
23...	1000	112	--	9	2.7
24...	0830	109	--	13	3.8
25...	0835	39	1.0	9	.95
26...	1200	27	--	9	.66
27...	1530	22	--	3	.18
28...	1210	18	--	5	.24
29...	1100	19	--	9	.46
30...	1005	16	--	5	.22
DEC					
07...	1030	8.8	--	5	.12
14...	0910	8.0	--	2	.04
21...	1000	101	--	4	1.1
28...	0840	26	--	2	.14
JAN					
08...	1100	13	--	4	.14
11...	1230	12	--	2	.06
18...	1115	9.4	--	3	.08
25...	1010	8.0	--	4	.09
FEB					
01...	0940	7.1	--	4	.08
15...	0810	50	--	11	1.5
15...	0910	57	.0	17	2.6
16...	1115	201	.0	41	22
22...	1650	64	2.0	3	.52
23...	1525	51	3.0	3	.41
MAR					
01...	1000	28	.0	3	.23
08...	0930	19	.0	1	.05
15...	0900	20	1.0	2	.11
22...	1245	15	--	1	.04
APR					
05...	1540	11	--	5	.15
12...	1150	58	--	9	1.4
19...	0750	44	1.0	2	.24
19...	1615	49	3.0	3	.40
21...	1700	52	3.0	3	.42
22...	1705	60	3.0	5	.81
24...	1750	75	2.5	4	.81
26...	1120	58	3.5	3	.47
26...	1705	85	3.0	7	1.6
27...	1725	101	3.0	10	2.7
29...	1730	85	4.0	3	.69
30...	1745	101	4.0	8	2.2
MAY					
02...	1740	124	4.0	9	3.0
03...	1030	81	4.5	3	.66
03...	1735	134	4.0	12	4.3
05...	1745	123	5.5	5	1.7
06...	1810	134	--	6	2.2
07...	1710	149	6.0	22	8.9
08...	1530	136	5.5	7	2.6
09...	1730	90	3.0	3	.73
10...	1700	81	5.0	3	.66
11...	1830	82	6.0	8	1.8
12...	1550	90	7.5	4	.97
13...	1530	98	--	5	1.3
17...	0855	88	--	3	.71
24...	1525	116	--	4	1.3
31...	0900	77	6.0	3	.62
JUN					
01...	1100	1	2.0	4	.53
01...	1100	1	2.0	2	.25

10344300 STAMPEDE RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°28'24", long 120°06'06", in SW¼NW¼NW¼ sec.28, T.19 N., R.17 E., Sierra County, Hydrologic Unit 16050102, in Tahoe National Forest, in control house on Stampede Dam on Little Truckee River, just downstream from mouth of Davies Creek and 11.0 mi (17.7 km) northeast of Truckee.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--August 1969 to current year. August 1969 to September 1977 (monthend altitudes and contents only). Prior to Oct. 1978, 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 (279 hm³) at altitude 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm³), includes 660 acre-ft (814,000 m³) dead storage, below altitude 5,798.3 ft (1,767.32 m). Figures given herein, including extremes, represent total contents. 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, 226,500 acre-ft (279 hm³) June 19, 21, 1974, altitude, 5,948.7 ft (1,813.16 m); minimum since reservoir first filled 30,772 acre-ft (37.9 hm³) Jan. 31, Feb. 1, 1978, altitude, 5,853.60 ft (1,784.177 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 203,495 acre-ft (251 hm³) May 28, altitude, 5,941.82 ft (1,811.067 m); minimum, 60,693 acre-ft (74.8 hm³) Oct. 26, altitude, 5,880.35 ft (1,792.331 m).

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

5,850.00	27,915	5,900.00	94,535
5,855.00	31,951	5,910.00	115,865
5,860.00	36,470	5,920.00	140,141
5,865.00	41,505	5,930.00	167,355
5,870.00	47,204	5,940.00	197,630
5,875.00	53,295	5,950.00	231,005
5,880.00	60,185	5,960.00	267,386
5,890.00	76,008		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70550	60970	82362	114502	124431	156356	172779	198925	200656	176889	185396	184326
2	70014	60970	82744	115049	124670	157392	173144	199181	200431	177721	185090	184341
3	69494	60970	83036	115596	124909	158427	173467	199437	200688	178269	185090	184356
4	68974	60970	83328	116143	125029	159164	173790	199613	200206	178817	185029	184336
5	68455	60992	83597	116690	125149	159900	174112	199789	198694	179365	184983	184316
6	67971	61014	83866	117238	125317	160515	174303	199597	197183	179876	184937	184295
7	67487	61038	84136	117480	125485	161130	174494	199405	194516	180386	184927	184203
8	66961	61062	84376	117721	125653	161745	174405	199352	191434	180808	184917	184112
9	66436	61087	84615	118191	125785	162279	174317	199299	187889	181230	184906	184051
10	65967	61072	84662	118661	125917	162813	175740	199245	184509	181613	184875	183990
11	65498	61058	84708	119132	126134	163703	177163	198558	181592	181996	184845	183970
12	65029	61263	85098	119376	126351	164593	178587	197872	178706	182379	184784	183950
13	64525	61468	85488	119620	127714	165390	181562	197145	176147	182744	184723	183929
14	64022	62431	85879	119900	129077	166187	183746	196419	173495	183108	184662	183929
15	63517	63394	86122	120180	130440	166983	185586	196684	171387	183458	184601	183929
16	63012	64356	86365	120453	131803	167556	187425	196949	169279	183807	184539	183929
17	62507	65552	86553	120726	137097	168129	188949	197215	167785	184021	184508	183929
18	62002	66436	86740	120999	139660	168748	190473	197767	166698	184235	184478	183868
19	61497	66890	88786	121283	142223	169366	191997	198318	166384	184448	184478	183807
20	60999	66937	95241	121567	144065	169722	193600	198766	166755	184601	184478	183746
21	60838	67952	102005	121966	145907	170078	194453	199213	167555	184753	184478	183594
22	60766	68967	104224	122364	147750	170435	195085	199855	168735	184860	184478	183442
23	60751	69982	106443	122553	149452	171044	195783	200497	169914	184967	184478	183716
24	60732	75511	107692	122742	151153	171161	196450	201138	170901	185079	184524	183990
25	60713	77858	108940	122932	152359	171538	196833	202074	171888	185191	184570	184194
26	60693	78996	109808	123181	153565	171480	197215	203009	172796	185304	184539	184398
27	60766	80133	110676	123430	154494	171567	197751	203252	173704	185412	184509	184601
28	60838	80713	111542	123692	155422	171654	198287	203495	174612	185519	184458	184632
29	60897	81293	112324	123954	---	171742	198558	202656	175409	185596	184407	184662
30	60955	81873	113106	124109	---	172078	198829	201817	176206	185672	184356	184631
31	60970	---	113825	124264	---	172413	---	200977	---	185519	184356	---
MAX	70550	81873	113825	124264	155422	172413	198829	203495	200688	185672	185396	184662
MIN	60693	60970	82362	114502	124431	156356	172779	196419	166384	176889	184356	183442
†	5880.54	5893.33	5909.10	5913.60	5925.74	5931.75	5940.37	5941.04	5933.04	5936.13	5935.75	5935.84
‡	-9923	+20903	+31052	+10439	+31158	+16991	+26416	+2148	-24771	+9313	-1163	+275

CAL YR 1981 MAX 145709 MIN 60693 † -27359
WTR YR 1982 MAX 203495 MIN 60693 ‡ +113738

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

PYRAMID AND WINNEMUSCCA LAKES BASIN

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

LOCATION.--Lat 39°26'09", long 120°05'00", in SW1/4 sec.3, T.16 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1 mi (2 km) upstream from Boca Reservoir, 1.5 mi (2.4 km) upstream from Dry Creek, 3.0 mi (4.8 km) downstream from Stampede Dam, and 5.5 mi (8.8 km) east of Truckee.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station" June 1903 to December 1907 and as "at Starr" January 1908 to October 1910, and as "near Boca" September 1939 to September 1976.

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used 1903-7.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft (1,712.571 m) National Geodetic Vertical Datum of 1929 (Water and Power Resources Service bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records good. Flow regulated by Independence Lake, capacity, about 17,500 acre-ft (21.6 hm³), one transbasin diversion to Sierra Valley, and Stampede Reservoir (station 10344300), capacity, 226,500 acre-ft (279 hm³), since 1969.

AVERAGE DISCHARGE (adjusted for change in contents in Stampede Reservoir since 1969).--50 years (water years 1904-10, 1940-82), 190 ft³/s (5.381 m³/s), 137,700 acre-ft/yr (170 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s (377 m³/s) Feb. 1, 1963, gage height, 9.00 ft (2.743 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 16-21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,590 ft³/s (73.3 m³/s) June 9, gage height, 3.70 ft (1.128 m); minimum daily 16 ft³/s (0.45 m³/s) Sept. 3, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	26	30	40	33	57	118	891	816	33	83	17
2	262	26	30	39	32	57	118	896	654	33	52	17
3	262	26	29	39	32	52	118	950	727	32	29	17
4	262	26	29	38	32	49	118	1010	1090	32	29	17
5	262	26	29	38	33	48	118	1040	1350	32	29	16
6	263	26	29	37	32	47	118	1090	1710	32	29	30
7	263	26	29	36	32	45	175	1100	2030	32	29	42
8	263	26	29	36	31	46	212	1100	2260	31	29	30
9	263	26	30	35	31	48	214	1100	2460	31	27	22
10	263	26	29	35	31	52	228	1100	2350	31	24	41
11	263	26	34	35	31	61	225	1100	2210	31	25	41
12	263	28	50	34	31	56	105	1100	2110	31	24	42
13	263	39	49	36	32	53	86	1100	2070	31	26	42
14	263	36	73	36	33	59	87	918	1910	31	28	42
15	263	29	110	34	155	53	84	684	1830	31	28	44
16	263	28	110	35	207	50	78	683	1690	31	27	44
17	263	34	110	34	109	48	76	681	1470	31	31	43
18	262	46	131	32	83	47	75	680	1170	31	34	43
19	253	101	165	33	76	44	91	679	771	31	34	44
20	163	156	123	33	79	43	151	679	445	31	25	41
21	72	199	75	32	87	42	232	681	101	30	17	37
22	36	194	56	36	94	43	421	630	36	30	17	27
23	26	249	48	31	78	88	474	684	34	30	17	17
24	26	333	44	34	67	113	612	684	34	30	17	19
25	26	219	42	32	61	144	663	691	34	30	17	21
26	26	38	42	32	56	198	663	863	33	30	17	18
27	26	34	42	34	53	213	664	1100	33	31	17	17
28	30	32	38	32	52	215	728	1170	33	30	17	16
29	28	31	42	33	---	155	788	1280	33	29	17	18
30	27	30	46	34	---	119	835	1290	34	60	17	17
31	26	---	42	35	---	119	---	1090	---	83	17	---
TOTAL	5461	2142	1765	1080	1723	2464	8725	28799	31528	1042	829	882
MEAN	176	71.4	56.9	34.3	61.5	79.5	291	929	1051	33.6	26.7	29.4
MAX	265	333	165	40	207	215	835	1290	2460	83	83	44
MIN	26	26	29	31	31	42	75	679	33	29	17	16
AC-FT	10830	4250	3500	2140	3420	4890	17310	57120	62540	2070	1640	1750

CAL YR 1981 TOTAL 63363 MEAN 174 MAX 1710 MIN 24 AC-FT 125700 MEAN ± 136 ACRE-FT± 98300
 WTR YR 1982 TOTAL 86440 MEAN 237 MAX 2460 MIN 16 AC-FT 171500 MEAN ± 394 ACRE-FT± 285200

* Adjusted for change in contents in Stampede Reservoir

10344490 BOCA RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'20", long 120°05'45", in NE¼NW¼ 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 (550 m) upstream from mouth, and 6.5 mi (10.5 km) northeast of Truckee.

DRAINAGE AREA.--172 mi² (445 km²).

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 (50.4 hm³) between altitudes 5,521 ft (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m), top of spillway gates. Altitude of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m³), below outlet sill. Figures given herein represent usable contents 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 (51.1 hm³) Dec. 23, 1955, altitude, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m³) Mar. 4-9, 1955, altitude, 5,521.65 ft (1,682.999 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,575 acre-ft (50.0 hm³) July 16-22, 28, altitude, 5,604.70 ft (1,708.312 m); minimum, 27,084 acre-ft (33.4 hm³) Nov. 12, 13, altitude, 5,589.50 ft (1,703.680 m).

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

5,548	4,350	5,572	14,920
5,552	5,640	5,576	17,360
5,556	7,110	5,580	20,000
5,560	8,780	5,585	23,590
5,564	10,630	5,590	27,490
5,568	12,670	5,600	36,130
		5,605	40,870

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28387	27609	30446	32501	31656	32370	31394	32109	32763	39800	40284	37895
2	28470	27609	30446	32370	31656	32457	31351	32109	32982	39897	40187	37801
3	28511	27609	30403	32109	31656	32544	31264	32109	32982	39945	40139	37707
4	28511	27609	30317	32109	31656	32544	31177	32109	32982	39993	40090	37613
5	28511	27569	30317	32109	31568	32457	31091	32066	32982	40042	39993	37520
6	28511	27528	30317	31979	31481	32457	30961	32023	33026	40090	39993	37473
7	28553	27447	30317	31979	31394	32457	30832	31936	33290	40187	39897	37379
8	28594	27407	30190	31939	31351	32457	30918	31850	33956	40187	39704	37379
9	28594	27366	30147	32023	31351	32457	31004	31807	34403	40235	39560	37286
10	28594	27285	30104	32023	31264	32457	31048	31763	34943	40284	39416	37239
11	28635	27124	30062	32023	31264	32719	31525	31720	34988	40332	39416	37239
12	28635	27084	30020	32023	31048	32763	32632	31699	35215	40381	39272	37193
13	28635	27084	30062	---	31004	32807	33246	31656	35761	40429	39224	37193
14	28635	27285	30062	32109	30961	32894	33778	31656	36774	40478	39224	37099
15	28677	27245	30147	32109	31134	32938	33733	31568	37053	40527	39176	37006
16	28677	27245	30232	32109	32807	32807	33644	31525	37707	40575	38985	36960
17	28718	27245	30403	32153	33956	32719	33556	31525	38367	40575	38937	36960
18	28718	27205	30488	32196	34313	32544	33423	31525	39128	40575	38937	36960
19	28760	27285	30832	32196	34045	32414	33290	31525	39320	40575	38890	36960
20	28387	27407	31736	32196	33956	32240	33202	31525	39320	40575	38890	36960
21	28182	27813	32283	32196	33556	32023	32982	31525	39416	40575	38842	36867
22	28017	28387	32457	32196	33335	31763	32763	31525	39416	40575	38794	36774
23	27895	28760	32632	32240	33026	31612	32632	31525	39416	40527	38747	36497
24	27772	29723	32719	32240	32544	31481	32588	31525	39512	40527	38699	36128
25	27691	30317	32807	32240	32457	31394	32414	31699	39512	40527	38652	35807
26	27609	30574	32719	32283	32370	31394	32283	31850	39608	40478	38557	35442
27	27569	30574	32807	32283	32370	31438	32109	31936	39656	40478	38462	35079
28	27569	30574	32588	32196	32370	31481	32023	32023	39704	40575	38367	34717
29	27569	30574	32588	32023	---	31481	32023	32196	39704	40527	38272	34313
30	27609	30488	32544	31850	---	31481	32066	32370	39704	40478	38131	33956
31	27609	---	32501	31612	---	31438	---	32544	---	40429	37989	---
MAX	28760	30574	32807	32501	34313	32938	33778	32544	39704	40575	40284	37895
MIN	27569	27084	30020	31612	30961	31394	30832	31525	32763	39800	37989	33956
†	5590.15	5593.60	5595.95	5594.90	5595.80	5594.70	5595.45	5596.00	5603.80	5604.55	5602.00	5597.60
‡	-614	+2879	+2013	-889	+758	-932	+628	+478	+7160	+725	-2440	-4033

CAL YR 1981 MAX 35579 MIN 17105 † +13647
WTR YR 1982 MAX 40575 MIN 27084 ‡ +5733

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA

LOCATION.--lat 39°23'13", long 120°05'40", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank 800 ft (244 m) upstream from mouth, 1,000 ft (305 m) downstream from Boca Dam, and 6.2 mi (10.0 km) northeast of Truckee.

DRAINAGE AREA.--173 mi² (445 km²).

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 (1,676 m), from topographic map. Jan. 1, 1911, to Sept. 30, 1915, nonrecording gage at site 650 ft (200 m) downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good. Flow regulated by Boca Reservoir (station 1034490), capacity, 40,870 acre-ft (50.4 hm³), Independence Lake, capacity, 17,500 acre-ft (21.6 hm³), one transmountain diversion to Sierra Valley, and Stampede Reservoir (station 10344300), capacity, 226,500 acre-ft (279 hm³) since Aug. 1, 1969.

AVERAGE DISCHARGE (unadjusted).--47 years (water years 1912-15, 1940-52), 183 ft³/s (5.183 m³/s), 132,600 acre-ft/yr (163 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s (249 m³/s) Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) June 10, 11, gage height, 5.68 ft (1.731 m); minimum daily, 1.1 ft³/s (0.031 m³/s) July 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	25	60	150	59	149	224	919	701	1.1	112	61
2	215	25	60	149	60	150	224	920	601	1.1	68	61
3	231	25	60	149	60	150	224	964	738	1.1	42	49
4	231	37	59	121	70	150	224	1010	1050	1.1	53	35
5	231	52	59	103	73	137	224	1080	1350	1.1	44	35
6	232	52	59	85	73	122	224	1150	1640	1.2	67	46
7	232	52	59	47	73	122	224	1130	1760	1.2	97	62
8	231	52	59	47	73	122	224	1130	1900	1.2	102	62
9	231	84	61	47	73	122	235	1120	1990	1.2	72	37
10	231	88	63	47	79	122	263	1120	2030	1.3	46	37
11	231	64	63	48	79	122	122	1110	1940	1.4	65	37
12	232	54	63	48	84	123	26	1110	1690	1.4	79	37
13	232	54	63	48	102	123	86	1100	1480	1.5	57	54
14	232	54	63	48	102	123	218	921	1520	1.5	40	73
15	232	54	63	48	99	164	300	738	1490	1.6	40	64
16	233	54	63	48	3.8	205	300	687	1280	1.6	40	56
17	233	54	64	48	101	205	299	661	986	30	40	40
18	234	54	64	48	345	205	299	664	899	30	39	28
19	274	54	65	48	381	205	306	665	749	30	40	43
20	295	54	65	48	376	205	350	666	428	30	40	65
21	198	54	66	48	455	211	503	655	79	30	40	99
22	172	55	66	48	455	212	534	670	2.5	30	40	141
23	73	55	67	48	455	212	553	671	2.2	30	40	205
24	72	61	93	48	325	212	770	623	2.0	30	39	205
25	72	60	134	48	203	212	822	585	1.9	30	39	205
26	73	60	142	48	179	230	815	788	1.7	29	39	205
27	46	59	143	32	149	246	809	997	1.6	29	39	204
28	26	59	149	126	149	248	803	1090	1.6	29	55	203
29	25	60	149	126	---	237	837	1210	1.5	39	62	203
30	25	60	149	125	---	224	867	1230	1.2	39	62	203
31	25	---	149	79	---	225	---	985	---	134	61	---
TOTAL	5382	1625	2542	2251	4733.8	5495	12079	23332	26317.5	634.0	1699	2855
MEAN	174	54.2	82.0	72.6	156	177	403	916	877	21.1	54.9	95.2
MAX	295	88	149	150	455	248	867	1230	2030	134	102	205
MIN	25	25	59	47	3.8	122	26	585	79	1.1	39	28
AC-FT	10660	3220	5040	4460	9390	10900	23960	56300	52210	1300	3800	5660

CAL YR 1981 TOTAL 57135.56 MEAN 187 MAX 1750 MIN 1.40 AC-FT 113400
WDR YR 1982 TOTAL 94015.50 MEAN 288 MAX 2430 MIN 1.1 AC-FT 186500

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE¼NE¼ sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.5 mi (0.8 km) upstream from Mystic Canyon, 0.7 mi (1.1 km) downstream from Farad powerplant, 2.5 mi (4.0 km) north of Floriston, 3.4 mi (5.5 km) downstream from Bronco Creek, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi² (2,414 km²).

PERIOD RECORD.--March to October 1980 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca" March to October 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft (1,570.698 m) 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 (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek, Stampede and Boca Reservoirs (stations 10343300 and 10344490), Donner and Independence Lakes, and by several powerplants.

AVERAGE DISCHARGE.--83 years (1900-1982), 792 ft³/s (22.43 m³/s), 573,800 acre-ft/yr (707 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s (496 m³/s) Nov. 21, 1950, gage height, 14.5 ft (4.420 m), present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft³/s (0.793 m³/s) Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,570 ft³/s (214 m³/s) Dec. 20, gage height, 9.38 ft (2.859 m); minimum daily, 261 ft³/s (7.39 m³/s) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	514	318	1030	955	415	1180	738	4410	3330	2250	588	527
2	595	290	748	890	414	1210	772	4500	3050	1620	539	522
3	619	262	727	844	418	1110	756	4630	3080	1140	502	529
4	619	287	642	793	426	1040	759	4810	3020	1110	508	535
5	619	298	582	769	420	936	742	4760	3070	1090	504	534
6	621	297	559	711	420	839	731	4720	3180	1050	510	538
7	658	290	496	618	421	820	709	4800	3260	858	542	555
8	668	276	424	617	403	789	699	4880	3230	820	554	567
9	658	276	432	602	378	773	701	4760	3390	793	522	553
10	661	322	495	586	380	822	799	4560	3280	770	484	569
11	669	330	490	561	377	1170	2950	4400	2970	768	488	587
12	663	357	510	529	376	1030	2380	4340	2630	768	544	583
13	657	767	513	510	411	956	1720	4450	2350	695	529	614
14	684	1370	529	500	879	1000	1750	4320	2330	653	505	654
15	680	729	605	495	2090	1020	2240	4020	2320	636	500	695
16	691	999	616	486	4900	1070	2480	4050	2160	638	491	720
17	711	1230	556	480	2840	1030	2540	4130	1930	633	486	710
18	706	978	553	443	2650	967	2540	4160	1840	606	503	738
19	712	921	3170	395	2560	897	2570	3710	2050	590	506	761
20	709	744	6360	392	2850	834	2640	3720	1490	552	507	778
21	631	1050	3130	386	3070	819	2950	3690	1240	517	500	698
22	424	1850	2440	421	2860	771	3450	3770	1260	502	512	693
23	366	2710	2130	478	2460	726	3580	3880	1730	492	507	779
24	359	3650	1900	468	1960	720	4120	3980	1940	497	500	890
25	355	1680	1840	421	1500	720	4260	4070	2180	503	499	990
26	329	1530	1880	372	1390	724	4270	4440	2440	513	498	966
27	261	1510	1930	376	1280	736	4320	4630	2460	534	492	848
28	409	1400	1450	435	1190	774	4400	4400	2460	524	505	814
29	416	1280	1130	435	---	762	4320	4310	2460	497	514	781
30	376	1260	1210	446	---	723	4260	4180	2320	497	509	767
31	351	---	1040	426	---	730	---	3860	---	599	514	---
TOTAL	17391	29261	40117	16840	39738	27698	71146	133340	74450	23715	15862	20495
MEAN	561	975	1294	543	1419	893	2372	4301	2482	765	512	683
MAX	712	3650	6360	955	4900	1210	4400	4880	3390	2250	588	990
MIN	261	262	424	372	376	720	699	3690	1240	492	484	522
AC-FT	34500	58040	79570	33400	78820	54940	141100	264500	147700	47040	31460	40650
CAL YR 1981	TOTAL	239042	MEAN	655	MAX	6360	MIN	221	AC-FT	474100		
WTR YR 1982	TOTAL	510053	MEAN	1397	MAX	6360	MIN	261	AC-FT	1012000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (120 m) downstream from Kietzke Lane bridge, 0.5 mi (0.8 km) downstream from Scott Island, 1.5 mi (2.4 km) east of Reno Post Office, and 5 mi (8 km) upstream from Steamboat Creek.

DRAINAGE AREA.--1,067 mi² (2,764 km²).

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1935, January to December 1943, January 1946 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft (1,350.864 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--56 years (1906-21, 1925-26, 1930-34, 1946-82), 669 ft³/s (18.95 m³/s), 484,700 acre-ft/yr (598 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft³/s (589 m³/s) Dec. 23, 1955; maximum gage height, 13.83 ft (4.215 m) Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,690 ft³/s (246 m³/s) Dec. 20, gage height, 10.00 ft (3.048 m); minimum, 105 ft³/s (2.97 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	270	1170	1090	405	1230	810	4210	3230	2300	321	239
2	282	259	749	946	403	1330	866	4330	2990	1780	277	241
3	341	230	731	882	403	1210	875	4410	2930	1090	226	239
4	341	223	661	893	403	1140	871	4580	2920	1020	217	269
5	378	246	557	883	398	1060	839	4580	2940	979	227	267
6	391	247	532	786	383	960	828	4550	2990	937	206	261
7	458	233	492	645	398	946	802	4630	3100	761	251	272
8	506	234	381	619	398	928	782	4740	3020	671	292	286
9	484	219	358	626	349	922	803	4650	3180	621	261	284
10	470	231	430	613	345	926	919	4430	3140	587	212	286
11	506	283	413	581	349	1240	3480	4250	2850	571	195	323
12	524	293	434	542	340	1150	3060	4150	2560	557	238	310
13	529	761	439	505	368	1040	2160	4200	2300	511	264	317
14	547	1770	443	496	989	1080	1980	4130	2140	446	233	390
15	583	717	481	481	2990	1070	2490	3750	2300	422	221	492
16	561	1130	564	480	6550	1130	2680	3820	2230	400	219	591
17	603	1340	479	472	3210	1100	2750	3880	2010	408	209	559
18	589	1090	441	460	2870	1050	2760	3930	1900	378	212	581
19	595	1010	2850	387	2750	992	2770	3520	2180	356	232	606
20	593	859	7520	383	2850	912	2810	3510	1640	325	250	605
21	570	976	3590	385	3220	900	2990	3450	1320	282	235	585
22	388	2360	2610	372	3040	864	3530	3540	1350	247	215	493
23	263	2800	2230	476	2630	803	3600	3640	1640	243	244	591
24	259	4640	1960	464	2160	806	4060	3750	1950	213	217	735
25	261	1920	1900	459	1590	799	4210	3840	2110	232	214	797
26	252	1620	1910	422	1470	798	4190	4140	2420	229	220	917
27	192	1590	1990	370	1330	809	4220	4480	2430	262	212	725
28	252	1480	1630	436	1250	837	4290	4250	2450	284	221	698
29	367	1340	1220	428	---	837	4190	4130	2530	225	249	727
30	326	1290	1330	441	---	809	4050	3970	2400	216	238	706
31	308	---	1140	436	---	851	---	3750	---	277	213	---
TOTAL	12876	31661	41635	17459	43841	30529	74665	127190	73150	17830	7241	14392
MEAN	415	1055	1343	563	1566	985	2489	4103	2438	575	234	480
MAX	603	4640	7520	1090	6550	1330	4290	4740	3230	2300	321	917
MIN	157	219	358	370	340	798	782	3450	1320	213	195	239
AC-FT	25540	62800	82580	34630	86960	60550	148100	252300	145100	35370	14360	28550
CAL YR 1981	TOTAL	196099	MEAN	537	MAX	7520	MIN	106	AC-FT	389000		
WTR YR 1982	TOTAL	492469	MEAN	1349	MAX	7520	MIN	157	AC-FT	976800		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in SW¼NW¼NE¼ sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft (122 m) upstream from McCarren Boulevard bridge, 1 mi (1.6 km) south of Southern Pacific Railroad in Sparks, and 2.5 mi (4 km) upstream from Steamboat Creek.

DRAINAGE AREA.--1,070 mi² (2,770 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,390 ft (1,340 m), 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.--5 years, 604 ft³/s (17.1 m³/s), 437,600 acre-ft/yr (540 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s (258 m³/s) Jan. 14, 1980, gage height, 12.03 ft (3.667 m), maximum gage height 12.23 ft (3.728 m) Dec. 20, 1981; minimum, 2.0 ft³/s (0.057 m³/s), Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,670 ft³/s (245 m³/s) Dec. 20, gage height, 12.23 ft (3.728 m); minimum daily, 126 ft³/s (3.57 m³/s), Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	242	1120	1050	368	1190	820	4110	3080	2150	211	163
2	233	222	715	903	364	1330	880	4230	2820	1410	172	162
3	295	199	697	844	368	1220	880	4220	2790	998	165	163
4	306	185	615	854	365	1150	880	4440	2800	958	161	189
5	343	203	524	834	364	1080	850	4400	2790	889	164	185
6	364	206	504	740	371	977	840	4380	2840	866	149	190
7	427	201	473	562	383	957	795	4450	2960	690	186	194
8	463	195	374	606	384	931	765	4560	2870	590	213	203
9	444	189	357	593	352	933	738	4460	3050	533	186	202
10	422	196	431	584	346	941	759	4270	3010	494	146	209
11	443	244	417	531	350	1280	996	4120	2650	476	134	250
12	473	255	446	496	339	1180	3800	4010	2340	463	174	233
13	476	693	457	464	350	1070	2800	4070	2070	417	191	242
14	487	1660	463	457	918	1070	2030	3950	2160	349	163	305
15	533	672	504	442	2740	1080	2010	3710	2170	326	158	414
16	510	1030	585	447	6680	1100	2430	3710	2060	323	154	540
17	546	1270	503	436	3310	1050	2600	3800	1830	318	147	510
18	529	994	478	427	2880	1000	2640	3480	1950	281	147	522
19	517	915	2720	367	2830	915	2650	3470	1920	255	165	551
20	515	788	7750	355	2960	880	2640	3370	1450	224	197	546
21	515	949	3740	362	3350	825	2640	3450	1250	193	177	565
22	515	2350	2620	356	3130	764	2950	3530	1290	174	145	463
23	348	2920	2240	431	2680	772	3360	3640	1750	159	183	557
24	225	4840	1970	421	2200	757	3470	3710	1910	174	151	706
25	224	1920	1890	418	1590	759	3950	3920	2200	173	144	768
26	224	1610	1900	400	1450	775	4060	4360	2330	189	137	898
27	179	1570	1970	351	1360	809	4070	4140	2360	216	133	693
28	224	1440	1620	396	1260	820	4170	3980	2390	173	143	664
29	330	1300	1170	393	---	840	4090	3920	2430	150	165	701
30	286	1240	1300	401	---	820	3960	3820	2260	216	166	678
31	265	---	1090	400	---	860	---	3220	---	251	141	---
TOTAL	11787	30698	41643	16321	44042	30135	69523	122900	69780	15078	5068	12666
MEAN	380	1023	1343	526	1573	972	2317	3965	2326	486	163	422
MAX	546	4840	7750	1050	6680	1330	4170	4560	3080	2150	213	898
MIN	126	185	357	351	339	757	738	3220	1250	150	133	162
AC-FT	23380	60890	82600	32370	87360	59770	137900	243800	138400	29910	10050	25120
CAL YR 1981 TOTAL	180898			496	MAX 7750	MIN 82	AC-FT 358800					
WTR YR 1982 TOTAL	469641			MEAN 1287	MAX 7750	MIN 126	AC-FT 931500					

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (100 m) upstream from Red House diversion dam, 0.2 mi (0.3 km) upstream from Red House, and 6.1 mi (9.8 km) northwest of Carson City.

DRAINAGE AREA.--3.24 mi² (8.39 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,380 ft (2,250 m), from topographic map.

REMARKS.--Records good. 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.--8 years (1975-1982) 3.05 ft³/s (0.0864 m³/s), 2,210 acre-ft/yr (2.72 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft³/s (5.92 m³/s) April 12, 1982, gage height 2.60 ft (0.792 m); maximum gage height, 3.68 ft (1.122 m), backwater from ice or snowblock; minimum discharge, 0.48 ft³/s (0.014 m³/s) Sept. 9-11, 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft³/s (5.92 m³/s) Apr. 12, gage height, 2.60 ft (0.792 m); maximum gage height 3.03 ft (0.924 m) Mar. 30 (backwater from ice); minimum daily discharge, 0.85 ft³/s (0.024 m³/s) Oct. 1-6, 30 to Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	.85	2.6	2.2	1.5	3.4	3.7	15	12	10	3.3	2.9
2	.85	.85	2.6	2.1	1.5	6.0	3.5	14	11	8.9	3.2	2.7
3	.85	1.4	2.4	2.0	1.5	3.4	2.4	15	11	8.2	3.3	2.7
4	.85	2.1	2.4	1.9	1.5	3.1	2.5	14	11	7.9	3.4	2.7
5	.85	2.0	2.4	1.8	1.5	2.9	2.2	12	11	7.6	3.4	2.7
6	.85	2.0	2.4	1.7	1.5	2.8	2.1	13	10	7.4	3.6	2.7
7	.96	2.0	2.4	1.7	1.5	2.6	1.9	16	11	7.2	3.5	2.7
8	.91	2.0	2.4	1.7	1.5	2.6	1.8	17	11	6.9	4.0	2.6
9	.91	2.0	2.4	1.7	1.5	2.4	1.8	13	12	6.3	3.8	2.6
10	1.1	2.0	2.4	1.8	1.5	2.7	7.2	10	12	6.3	3.6	2.4
11	.98	2.0	2.3	1.9	1.5	3.1	44	9.9	11	6.0	3.4	2.5
12	.98	2.5	2.3	1.8	1.5	2.9	29	11	11	5.7	3.3	2.6
13	1.0	3.6	2.3	1.8	2.3	2.7	10	13	11	5.7	3.2	2.6
14	1.1	4.0	2.0	1.8	5.5	2.7	9.7	13	11	5.6	3.1	2.8
15	1.1	3.8	1.8	1.7	18	2.7	8.3	14	11	5.3	3.2	3.2
16	1.1	3.4	1.8	1.7	37	2.6	7.6	16	11	4.8	3.2	3.6
17	1.1	3.4	1.7	1.7	14	2.6	7.5	18	11	4.7	3.2	3.5
18	1.1	3.1	1.7	1.7	9.3	3.0	8.2	16	12	4.7	3.2	3.4
19	1.1	2.7	11	1.7	7.7	2.5	8.3	16	11	4.5	3.3	3.4
20	.98	2.7	17	1.6	7.3	2.5	8.3	17	11	4.6	3.5	3.1
21	.98	3.2	6.9	1.6	7.5	2.5	8.6	19	11	4.3	3.5	2.9
22	.98	3.6	5.7	1.6	7.4	2.5	8.9	21	10	4.2	3.2	2.7
23	.98	7.6	4.2	1.6	6.4	2.4	10	22	10	4.0	3.1	2.7
24	.98	11	3.6	1.6	5.3	2.4	11	22	10	4.1	3.1	3.8
25	.98	6.0	3.1	1.6	4.4	2.4	9.8	23	9.8	4.2	3.0	4.6
26	.98	4.0	2.9	1.7	3.8	2.4	7.7	24	9.3	4.0	2.9	3.4
27	.98	3.2	2.7	1.7	3.5	2.4	11	23	8.6	4.0	2.7	3.1
28	1.1	2.9	2.6	1.7	3.3	2.4	11	17	8.3	4.0	2.8	3.0
29	.99	2.7	2.5	1.6	---	2.4	10	14	8.5	4.0	3.0	3.2
30	.85	2.7	2.3	1.6	---	2.4	12	12	8.9	3.9	3.1	3.2
31	.85	---	2.2	1.6	---	3.1	---	12	---	3.6	2.9	---
TOTAL	30.17	95.30	107.0	53.9	160.7	86.5	270.0	491.9	317.4	172.6	101.0	90.0
MEAN	.97	3.18	3.45	1.74	5.74	2.79	9.00	15.9	10.6	5.57	3.26	3.00
MAX	1.1	11	17	2.2	37	6.0	44	24	12	10	4.0	4.6
MIN	.85	.85	1.7	1.6	1.5	2.4	1.8	9.9	8.3	3.6	2.7	2.4
AC-FT	60	189	212	107	319	172	536	976	630	342	200	179

CAL YR 1981 TOTAL 925.86 MEAN 2.54 MAX 17 MIN .85 AC-FT 1840
WTR YR 1982 TOTAL 1976.47 MEAN 5.41 MAX 44 MIN .85 AC-FT 3920

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi² (217 km²), including Little Washoe Lake.

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

GAGE.--Reference mark. Datum of gage is 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 49,200 acre-ft (60.7 hm³) between altitudes 5,017.5 ft (1,529.33 m) and 5,031.0 ft (1,533.45 m). Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from 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 observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; minimum observed, 5,021.8 ft (1,530.64 m) Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude observed, 5,030.4 ft (1,533.27 m) July 7; minimum observed, 5,023.3 ft (1,531.10 m) Oct. 9.

MONTHEND ALTITUDES AND TOTAL CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,023.5	11,590	--
Oct. 31	5,023.6	11,940	+350
Nov. 30	5,024.1	13,780	+1,840
Dec. 31	5,025.3	18,540	+4,760
CAL YR 1981	--	--	-2,210
Jan. 31	5,026.7	25,100	+6,560
Feb. 28	5,028.5	34,700	+9,600
Mar. 31	5,029.6	40,940	+6,200
Apr. 30	5,030.2	44,390	+3,450
May 31	5,030.3	44,950	+560
June 30	5,030.4	45,520	+570
July 31	5,029.9	42,710	-2,810
Aug. 31	5,029.3	39,170	-3,540
Sept. 30	5,029.4	39,760	+590
WTR YR 1981-82	--	--	+28,170

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (8.8 km) southwest of Steamboat.

DRAINAGE AREA.--83.8 mi² (217 km²).

PERIOD OF RECORD.--April 1963 to September 1970 (monthly observations only), October 1970 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1970, nonrecording gage at same site and datum. Datum of gage is 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." Strong steady winds often cause pileup on the side of the lake where the recorder is located. Observations during periods of no record are instantaneous gage heights, rather than 2400 hrs. Most periods of no record either prior or after record of low gage heights are a result of the lake being dry. 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 observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970, June 3, 1982; no contents Sept. 13 to Dec. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude recorded, 5,030.6 ft (1,533.33 m) June 3; minimum observed, 5,021.9 ft (1,530.68 m), Nov. 3.

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

5,021.1	0	5,027	400
5,022	10	5,028	500
5,023	50	5,029	650
5,024	125	5,030	750
5,025	200	5,031	850
5,026	300		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	4.72	7.08	7.15	8.78	9.76	10.17	10.32	10.40	9.82	9.24
2	---	---	4.86	7.12	7.16	8.90	9.79	10.17	10.38	10.46	9.90	9.23
3	---	1.91	4.99	7.15	7.17	8.90	9.81	10.18	10.57	10.44	9.78	9.23
4	---	---	5.11	7.17	7.17	8.90	9.82	10.22	10.13	10.40	9.72	9.20
5	---	---	5.23	7.21	7.15	9.10	9.84	10.24	10.28	10.40	9.73	9.18
6	---	---	5.31	7.19	7.14	8.90	9.75	10.27	10.28	10.45	9.73	9.17
7	---	---	5.35	7.13	7.14	8.89	9.62	10.29	10.28	10.39	9.69	9.17
8	---	---	5.44	7.08	7.15	9.13	9.67	10.18	10.30	10.32	9.67	9.14
9	2.21	---	5.50	7.07	7.16	9.15	9.72	10.31	10.30	10.30	9.68	9.19
10	---	---	5.53	7.06	7.19	9.17	9.99	10.32	10.30	10.31	9.68	9.02
11	---	---	5.62	7.03	7.20	9.19	10.38	10.34	10.32	10.30	9.59	9.08
12	---	2.46	5.71	7.05	7.22	9.22	10.22	10.36	10.26	10.27	9.57	8.96
13	---	2.49	5.81	7.05	7.35	9.25	10.45	10.32	10.23	10.27	9.56	9.02
14	---	2.45	5.91	7.06	7.61	9.28	10.28	10.34	10.25	10.25	9.57	8.98
15	---	2.50	5.93	7.06	8.23	9.31	10.06	10.35	10.28	10.27	9.49	9.09
16	---	2.45	6.02	7.06	8.41	9.33	10.10	10.39	10.25	10.19	9.48	9.17
17	---	2.46	6.06	7.07	8.43	9.36	10.11	10.24	10.29	10.19	9.47	9.18
18	---	2.46	6.17	7.09	8.53	9.39	10.07	10.31	10.34	10.18	9.46	9.17
19	---	2.46	6.81	7.10	8.55	9.41	10.12	10.36	10.34	10.15	9.44	9.22
20	---	2.46	7.24	7.11	8.66	9.44	10.12	10.35	10.37	10.13	9.44	9.23
21	---	2.62	7.18	7.12	8.84	9.47	10.13	10.37	10.37	10.12	9.43	9.23
22	---	2.52	7.13	7.10	8.80	9.49	10.14	10.33	10.35	10.07	9.41	9.23
23	---	2.77	7.06	7.10	8.73	9.52	10.14	10.33	10.36	10.04	9.40	9.26
24	---	3.36	7.04	7.10	8.86	9.55	10.13	10.36	10.35	10.03	9.39	9.30
25	---	3.77	7.03	7.13	8.91	9.58	10.20	10.39	10.35	10.02	9.40	9.38
26	---	3.98	7.03	7.23	9.09	9.60	10.17	10.44	10.45	10.00	9.36	9.32
27	---	4.12	7.03	7.22	9.10	9.62	10.17	10.33	10.43	9.98	9.28	9.36
28	---	4.23	7.03	7.21	9.10	9.66	10.13	10.33	10.36	9.97	9.31	9.45
29	---	4.40	7.02	7.18	---	9.68	10.18	10.33	10.35	9.95	9.32	9.42
30	---	4.56	7.03	7.16	---	9.71	10.26	10.35	10.40	9.93	9.24	9.46
31	---	---	7.06	7.15	---	9.74	---	10.34	---	9.97	9.24	---
MAX	---	---	7.24	7.23	9.10	9.74	10.45	10.44	10.57	10.46	9.90	9.46
MIN	---	---	4.72	7.03	7.14	8.78	9.62	10.17	10.13	9.93	9.24	8.96
CAL YR	1981	MAX	5027.24	MIN	5021.91							
WTR YR	1982	MAX	5030.57	MIN	5021.91							

NOTE.--Add 5,020 ft to obtain altitude, in feet NGVD, at 2400 hrs.

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 (2 km) upstream from Jones Creek, 3.5 mi (5.6 km) upstream from mouth, 4.5 mi (7.2 km) west-southwest of Steamboat, and 12 mi (19 km) south of Reno.

DRAINAGE AREA.--8.5 mi² (22.0 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft (1,704.44 m), National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake during winter months. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--21 years, 8.81 ft³/s (0.249 m³/s), 6,380 acre-ft/yr (7.87 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft³/s (104 m³/s) Aug. 15, 1965, gage height not determined, from slope-area measurement of peak flow; no flow for parts of many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2030	50 1.42	2.82 0.860	Apr. 11	0800	96 2.72	3.42 1.042
Nov. 23	2400	30 .85	2.65 .808	June 19	0100	*247 7.00	3.95 1.204
Dec. 19	2330	162 4.59	3.25 .991	Sept. 25	1630	53 1.50	2.78 .847
Feb. 15	2000	60 1.70	2.67 .814				

Minimum daily, 0.20 ft³/s (0.006 m³/s) Jan. 21, 22, Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	6.3	.99	.53	.32	2.2	.35	17	47	68	28	14
2	3.7	6.3	.99	.77	.32	2.3	.25	28	49	61	27	13
3	3.7	5.6	.90	.77	.35	1.6	.39	27	49	58	26	13
4	3.7	5.0	.91	.70	.43	1.5	.48	26	47	56	25	13
5	3.7	5.0	.91	.91	.40	1.7	.48	25	44	52	25	12
6	3.9	5.3	.99	.77	.45	1.9	1.9	25	42	53	24	12
7	4.4	5.3	.99	.74	.40	1.3	1.6	25	40	53	24	11
8	5.0	5.3	1.1	.72	.39	1.3	.43	24	43	53	24	11
9	5.0	5.0	1.2	.69	.39	1.2	.64	23	46	54	22	11
10	5.0	5.0	1.2	.67	.39	1.4	6.3	22	50	55	21	11
11	5.0	5.0	1.1	.64	.32	1.5	60	21	58	58	21	12
12	4.7	7.8	1.2	.61	.32	1.4	13	18	55	58	21	13
13	4.7	15	1.1	.58	.91	1.2	5.3	20	53	58	19	13
14	5.0	9.1	1.1	.56	6.6	1.1	4.7	22	55	58	19	13
15	4.7	6.3	1.2	.54	13	1.1	5.3	22	58	58	18	14
16	5.3	3.5	1.1	.51	13	1.1	11	25	68	60	18	16
17	5.0	1.7	1.1	.48	5.6	1.0	7.4	28	76	58	18	17
18	5.0	1.3	1.1	.46	3.7	1.0	4.7	28	74	56	17	17
19	5.0	1.2	44	.35	3.7	.80	5.3	27	155	53	18	18
20	5.0	.99	62	.28	3.5	.70	5.6	32	89	52	18	16
21	4.4	2.2	15	.20	3.3	.58	5.3	36	94	47	17	15
22	4.7	1.5	11	.20	3.5	.58	5.6	39	63	42	17	14
23	4.4	7.0	9.5	.28	3.0	.48	6.3	40	70	39	17	13
24	4.4	9.5	8.2	.32	2.7	.48	6.6	52	85	39	17	22
25	4.4	2.3	5.3	.48	2.3	.43	7.4	60	80	37	16	33
26	4.4	1.9	5.3	.58	2.2	.39	6.0	63	72	36	15	20
27	4.7	1.9	5.0	.50	1.9	.39	7.8	63	72	38	15	18
28	6.6	1.5	2.5	.43	1.7	.48	11	47	65	37	15	17
29	4.7	1.3	1.3	.53	---	.91	11	43	63	34	16	17
30	6.0	1.5	.99	.40	---	.70	11	42	60	31	15	17
31	6.3	---	.77	.35	---	.20	---	46	---	29	14	---
TOTAL	146.2	136.59	190.04	16.55	75.09	32.92	213.12	1016	1922	1541	607	456
MEAN	4.72	4.55	6.13	.53	2.68	1.06	7.10	32.8	64.1	49.7	19.6	15.2
MAX	6.6	15	62	.91	13	2.3	60	63	155	68	28	33
MIN	3.7	.99	.77	.20	.32	.20	.25	17	40	29	14	11
AC-FT	290	271	377	33	149	65	423	2020	3810	3060	1200	904
CAL YR 1981	TOTAL	1969.38	MEAN	5.40	MAX	62	MIN	.50	AC-FT	3910		
WTR YR 1982	TOTAL	6352.51	MEAN	17.4	MAX	155	MIN	.20	AC-FT	12600		

PYRAMID AND WINNEMUCCA LAKES BASIN

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in S $\frac{1}{2}$ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft (80 m) upstream from Steamboat ditch, 0.2 mi (0.3 km) southwest of Steamboat Post Office, and 11 mi (18 km) southeast of Reno.

DRAINAGE AREA.--123 mi² (319 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

REMARKS.--Records good except for the period of no gage height record, Nov. 3 to Dec. 8, which is poor. 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.--21 years, 13.6 ft³/s (0.385 m³/s), 9,850 acre-ft/yr (12.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 31, 1963, gage height, 5.44 ft (1.658 m), from rating curve extended above 360 ft³/s (10.2 m³/s); minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 385 ft³/s (10.9 m³/s) Dec. 20, gage height, 3.83 ft (1.167 m); minimum daily, 0.32 ft³/s (0.009 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	5.0	2.6	8.8	5.8	14	28	69	99	127	44	11
2	.48	5.5	2.7	9.3	5.9	14	42	72	95	122	41	8.5
3	.32	5.4	2.6	9.4	6.1	11	45	73	98	118	41	9.4
4	.34	5.0	2.6	9.2	5.6	9.4	33	73	99	115	36	9.1
5	.36	5.1	2.7	9.9	4.8	8.4	32	72	98	110	33	7.2
6	.38	5.4	2.8	9.4	5.4	8.4	33	71	97	109	29	7.8
7	.48	5.4	2.9	9.3	6.8	8.0	29	74	90	104	27	5.4
8	.50	5.2	3.7	9.2	6.3	8.3	28	81	89	100	25	5.2
9	.54	5.0	3.7	9.1	5.2	7.7	29	78	93	93	22	5.1
10	.64	5.0	4.0	9.0	4.9	7.9	39	80	96	88	23	5.6
11	1.1	5.2	3.8	9.0	4.7	9.8	141	75	102	90	21	4.5
12	.96	9.0	4.3	8.9	4.4	8.3	89	76	98	93	19	5.0
13	.73	15	3.8	8.8	6.4	8.0	68	81	96	91	17	5.5
14	.67	9.0	3.5	8.7	36	8.4	74	79	101	87	18	5.1
15	.49	6.4	3.2	8.6	79	11	68	79	102	85	17	17
16	.57	3.7	3.3	8.5	156	16	66	86	107	87	16	30
17	.49	2.0	3.2	8.4	39	16	64	93	120	83	18	19
18	.61	1.7	3.3	8.4	26	19	68	91	153	81	18	23
19	.94	1.6	85	5.6	19	18	63	90	155	77	16	22
20	1.1	1.7	179	6.0	12	18	62	94	146	71	18	20
21	.95	2.2	53	5.9	11	18	65	96	140	65	14	18
22	1.0	1.8	33	5.7	10	16	68	97	134	64	15	16
23	.91	7.0	26	5.8	8.9	14	67	98	128	62	17	15
24	.94	9.5	23	5.9	8.1	16	67	104	126	61	13	29
25	.72	4.0	21	7.4	7.5	19	66	107	123	58	9.3	37
26	.71	2.5	19	7.5	8.8	19	67	115	119	59	8.6	25
27	.75	2.6	18	7.4	8.4	24	66	116	119	58	8.8	22
28	6.0	2.7	14	6.3	6.3	25	66	109	118	53	14	20
29	4.0	2.7	12	7.0	---	26	68	108	126	51	17	30
30	3.8	2.6	9.3	7.9	---	36	66	103	123	50	16	25
31	4.4	---	12	6.0	---	40	---	104	---	46	15	---
TOTAL	36.58	144.9	563.0	246.3	508.3	482.6	1767	2744	3390	2558	646.7	462.4
MEAN	1.18	4.83	18.2	7.95	18.2	15.6	58.9	88.5	113	82.5	20.9	15.4
MAX	6.0	15	179	9.9	156	40	141	116	155	127	44	37
MIN	.32	1.6	2.6	5.6	4.4	7.7	28	69	89	46	5.6	4.5
AC-FT	73	287	1120	489	1010	957	3500	5440	6720	5070	1280	917
CAL YR 1981	TOTAL	1541.51	MEAN	4.22	MAX	179	MIN	.02	AC-FT	3060		
WTR YR 1982	TOTAL	13549.78	MEAN	37.1	MAX	179	MIN	.32	AC-FT	26880		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10349495 STEAMBOAT CREEK AT GEIGER GRADE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°24'08", long 119°44'38", Washoe County, Hydrologic Unit 16050102, at Geiger Grade road crossing, 9 miles (14 km) southeast of Reno.

DRAINAGE AREA.--140 mi² (363 km²), approximately.

PERIOD OF RECORD.--May 1 to September 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 4,540 ft (1,384 m), from topographic map.

REMARKS.--Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

COOPERATION.--Records furnished by Washoe County and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 135 ft³/s (3.82 m³/s) June 19; minimum, 3.2 ft³/s (0.091 m³/s) September 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								60	80	113	37	6.4
2								60	78	108	30	6.4
3								65	75	104	30	6.6
4								65	80	100	30	6.6
5								65	75	98	30	5.2
6								60	75	96	30	5.5
7								65	75	94	24	4.5
8								60	70	92	17	3.8
9								54	75	92	17	3.6
10								54	80	75	17	4.0
11								49	75	84	12	3.2
12								49	70	84	12	3.5
13								49	65	84	12	3.9
14								49	60	75	6.6	3.7
15								54	70	75	6.6	28
16								60	75	66	6.6	35
17								60	92	66	6.6	22
18								54	120	66	6.6	27
19								54	135	52	12	25
20								60	125	52	12	23
21								65	120	44	12	20
22								70	104	37	12	18
23								70	102	37	12	17
24								75	100	37	6.6	35
25								75	98	37	6.6	42
26								75	96	37	6.6	28
27								65	95	44	6.6	26
28								54	95	44	6.6	23
29								54	100	30	12	35
30								64	104	30	6.6	29
31								84	---	30	6.6	---
TOTAL								1897	2664	2083	449.2	499.9
MEAN								61.2	88.8	67.2	14.5	16.7
MAX								84	135	113	37	42
MIN								49	60	30	6.6	3.2
AC-FT								3760	5280	4130	891	992

PYRAMID AND WINNEMUCCA LAKES BASIN

10349710 WHITES CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°23'05", long 119°50'13", Washoe County, Hydrologic Unit 16050102, on right bank 10 ft (3 m) upstream from Forest Service bridge, 6 mi (10 km) west of Steamboat, NV.

DRAINAGE AREA.--8 mi² (21 km²), approximately.

PERIOD OF RECORD.--May 1 to September 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,817 m) from topographic map.

REMARKS.--No diversions or regulation above station.

COOPERATION.--Records furnished by Washoe County and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 60 ft³/s (1.70 m³/s) June 19; minimum, 6.8 ft³/s (0.19 m³/s) September 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								9.4	18	27	16	8.4
2								12	17	27	16	8.0
3								14	16	25	15	7.9
4								16	16	24	15	7.6
5								15	16	23	14	7.3
6								15	15	23	14	7.2
7								13	15	24	13	7.0
8								11	15	24	13	6.9
9								11	16	24	13	6.8
10								10	16	24	12	6.8
11								10	18	25	12	7.0
12								9.5	19	26	12	7.4
13								9.7	18	26	12	7.7
14								10	18	26	11	7.9
15								11	19	25	11	8.4
16								12	21	25	11	8.9
17								12	29	24	10	9.5
18								13	33	25	10	10
19								14	60	24	10	10
20								14	57	22	10	9.6
21								15	38	22	10	9.0
22								16	32	21	9.8	8.5
23								18	33	20	9.6	8.4
24								19	31	20	9.4	8.9
25								21	30	20	9.3	12
26								22	30	20	9.1	15
27								23	28	19	9.0	12
28								23	28	19	9.0	10
29								23	27	18	9.0	9.6
30								22	26	17	8.8	9.0
31								21	---	17	8.6	---
TOTAL								464.6	755	706	351.6	262.7
MEAN								15.0	25.2	22.8	11.3	8.76
MAX								23	60	27	16	15
MIN								9.4	15	17	8.6	6.8
AC-FT								922	1500	1400	697	521

PYRAMID AND WINNEMUCCA LAKES BASIN

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10349831 THOMAS CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°23'31", long 119°50'14", Washoe County, Hydrologic Unit 16050102, on left bank 10 ft (3 m) upstream from Forest Service bridge, 6 mi (10 km) west of Steamboat.

DRAINAGE AREA.--7 mi² (18 km²), approximately.

PERIOD OF RECORD.--May 1 to September 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,823 m) from topographic map.

REMARKS.--No diversions or regulation above station.

COOPERATION.--Records furnished by Washoe County and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 30 ft³/s (0.85 m³/s) June 19; minimum, 2.4 ft³/s (0.068 m³/s) September 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								11	14	14	4.5	3.5
2								12	14	13	4.5	3.5
3								12	14	12	4.2	3.5
4								11	13	12	4.5	3.5
5								12	14	12	4.5	3.4
6								12	13	11	4.5	3.4
7								12	13	10	4.5	3.2
8								12	13	10	4.5	3.0
9								11	12	9.3	4.2	2.8
10								11	11	8.9	3.8	2.6
11								11	12	8.7	3.8	2.4
12								12	12	8.2	3.8	2.6
13								12	13	8.0	3.8	2.6
14								12	13	7.6	3.8	2.6
15								12	13	7.2	4.0	3.4
16								12	14	6.8	4.2	5.2
17								12	17	5.8	3.8	5.3
18								12	18	5.8	3.5	5.4
19								12	30	5.2	3.8	6.0
20								12	18	5.5	4.0	5.4
21								13	17	5.5	3.8	5.1
22								14	16	5.2	3.8	4.8
23								14	16	5.0	4.0	4.5
24								15	16	5.2	4.0	4.2
25								16	15	5.2	3.8	7.0
26								17	14	5.0	3.8	5.3
27								16	14	5.2	3.4	4.2
28								15	14	5.0	3.8	4.0
29								15	15	4.5	4.0	4.8
30								15	15	4.0	3.8	5.5
31								14	---	3.8	3.4	---
TOTAL								399	443	234.6	123.8	122.7
MEAN								12.9	14.8	7.57	3.99	4.09
MAX								17	30	14	4.5	7.0
MIN								11	11	3.8	3.4	2.4
AC-FT								791	879	465	246	243

PYRAMID AND WINNEMUCCA LAKES BASIN

10349848 ALEXANDER DITCH AT SHORT ROAD, SPARKS, NV

LOCATION.--Lat 39°27'46", long 119°43'44", Washoe County, Hydrologic Unit 16050102, on right bank, 10 ft (3 m) upstream of Short Road crossing, in Sparks.

PERIOD OF RECORD.--May 1 to September 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 4,410 ft (1,344 m) from topographic map.

REMARKS.--Diversions for irrigation upstream of station. Flow regulated by Huffaker pond.

COOPERATION.--Records furnished by Washoe County and reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 57 ft³/s (1.61 m³/s) June 20, minimum, 7.6 ft³/s (0.22 m³/s) September 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								16	20	54	12	19
2								16	21	54	12	19
3								16	24	48	12	19
4								16	30	44	10	19
5								17	28	40	11	19
6								16	23	34	11	19
7								17	23	32	10	19
8								18	26	30	10	16
9								18	27	28	8.7	16
10								18	24	28	7.9	17
11								17	23	28	9.3	17
12								17	23	28	10	19
13								22	26	26	11	15
14								24	26	26	12	8.1
15								25	22	28	11	7.6
16								24	22	27	10	12
17								22	26	26	12	11
18								21	39	25	15	10
19								23	53	25	16	9.8
20								22	57	25	12	9.7
21								21	55	22	13	9.5
22								19	50	21	12	9.3
23								18	44	24	13	8.9
24								22	39	21	15	11
25								25	38	20	14	12
26								23	38	18	14	11
27								27	34	17	13	11
28								29	33	16	17	11
29								29	44	13	22	16
30								24	53	12	20	15
31								23	---	12	18	---
TOTAL								645	991	852	393.9	415.9
MEAN								20.8	33.0	27.5	12.7	13.9
MAX								29	57	54	22	19
MIN								16	20	12	7.9	7.6
AC-FT								1280	1970	1690	781	825

10349849 STEAMBOAT CREEK AT SHORT ROAD, SPARKS, NV

LOCATION.--Lat 39°27'47", long 119°43'41", Washoe County, Hydrologic Unit 16050102, on right bank 10 ft (3 m) downstream from Short Road crossing, in Sparks.

PERIOD OF RECORD.--April 12 to September 30, 1982.

GAGE.--Water-stage recorder. Altitude of gage is 4,410 ft (1,344 m) from topographic map.

REMARKS.--Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

COOPERATION.--Records furnished by Washoe County and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 149 ft³/s (4.22 m³/s) June 20; minimum, 9.7 ft³/s (0.27 m³/s) September 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	70	88	138	50	14
2							---	72	87	130	54	13
3							---	72	85	133	55	12
4							---	69	90	117	44	11
5							---	70	96	110	44	11
6							---	69	96	103	41	10
7							---	68	93	97	42	9.7
8							---	70	90	92	38	9.9
9							---	72	89	89	33	11
10							---	73	88	84	28	12
11							---	66	88	82	22	14
12							100	58	80	82	16	15
13							74	56	76	88	13	17
14							70	53	79	87	14	19
15							71	58	76	84	14	23
16							62	66	76	82	15	65
17							56	71	87	80	16	62
18							54	70	112	79	17	51
19							58	65	145	77	13	50
20							55	69	149	72	14	49
21							57	73	130	62	15	45
22							60	76	125	62	13	41
23							61	81	119	64	21	37
24							62	86	115	67	18	54
25							62	87	116	65	15	59
26							63	86	114	61	13	70
27							64	93	109	62	12	60
28							65	96	110	65	13	56
29							67	98	131	52	15	68
30							68	93	141	48	17	70
31							---	90	---	47	15	---
TOTAL							---	2296	3080	2561	750	1038.6
MEAN							---	74.1	103	82.6	24.2	34.6
MAX							---	98	149	138	55	70
MIN							---	53	76	47	12	9.7
AC-FT							---	4550	6110	5080	1490	2060

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 (250 m) downstream from Southern Pacific Railroad bridge, 0.9 mi (1.4 km) southeast of Vista, 1.5 mi (2.4 km) downstream from Steamboat Creek, and 4 mi (6 km) southeast of Sparks.

DRAINAGE AREA.--1,431 mi² (3,706 km²).

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 (1,331.546 m) 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 (366 m) upstream at datum 5.59 ft (1.704 m) 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 (1.32 km³). Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--54 years, 794 ft³/s (22.49 m³/s), 575,300 acre-ft/yr (709 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft³/s (535 m³/s) Feb. 1, 1963, gage height, 16.76 ft (5.108 m), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 7 ft³/s (0.20 m³/s) Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft (5.194 m), from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft³/s (425 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,550 ft³/s (242 m³/s) Dec. 20, gage height, 12.75 ft (3.886 m); minimum discharge 191 ft³/s (5.41 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	384	1380	1280	471	1280	920	4370	3390	2710	453	321
2	357	360	906	1100	464	1480	958	4500	3180	2220	436	353
3	447	332	896	1020	471	1330	988	4540	3050	1380	380	349
4	465	312	822	1060	468	1240	988	4770	3080	1280	339	387
5	495	333	712	1180	457	1150	934	4720	3100	1230	348	388
6	512	330	675	998	468	1030	920	4690	3160	1170	315	394
7	567	323	646	782	482	1020	868	4730	3280	968	357	406
8	614	329	533	729	489	978	836	4870	3160	840	430	402
9	585	320	504	725	450	978	845	4800	3330	769	397	396
10	580	317	590	708	433	973	939	4580	3320	712	316	404
11	624	380	578	666	437	1300	3580	4400	3040	679	261	485
12	659	405	618	626	423	1250	3600	4270	2740	670	289	466
13	645	928	638	578	423	1120	2470	4310	2500	630	336	476
14	652	2370	634	578	1050	1160	2140	4300	2280	563	326	579
15	686	954	679	559	2930	1140	2720	3910	2470	537	296	727
16	653	1240	777	567	7150	1220	2880	3940	2390	514	288	952
17	704	1470	687	567	3820	1180	2960	4000	2190	521	260	830
18	692	1260	654	578	3150	1140	2980	4080	2140	496	260	802
19	683	1150	2860	496	3000	1080	2940	3710	2510	450	308	829
20	685	1010	7990	471	3030	983	2940	3670	1960	413	377	828
21	678	978	4670	474	3490	973	3070	3580	1600	380	345	826
22	478	2650	3180	447	3280	920	3680	3680	1610	365	295	706
23	345	2770	2660	548	2830	840	3740	3740	1830	344	339	791
24	332	5050	2320	540	2390	836	4160	3860	2200	341	311	1010
25	333	2200	2210	544	1710	827	4390	3940	2360	362	289	1080
26	333	1800	2190	586	1570	827	4340	4180	2700	362	274	1180
27	287	1770	2280	537	1410	840	4380	4630	2700	386	273	966
28	379	1670	1940	533	1340	873	4440	4390	2710	447	273	909
29	504	1510	1380	518	---	882	4370	4290	2900	383	314	1020
30	463	1440	1550	518	---	877	4210	4130	2790	341	337	973
31	432	---	1300	514	---	988	---	3950	---	365	285	---
TOTAL	16107	36345	49459	21027	48086	32715	79186	131530	79670	22828	10107	20235
MEAN	520	1212	1595	678	1717	1055	2640	4243	2656	736	326	675
MAX	704	5050	7990	1280	7150	1480	4440	4870	3390	2710	453	1180
MIN	238	312	504	447	423	827	836	3580	1600	341	260	321
AC-FT	31950	72090	98100	41710	95380	64890	157100	260900	158000	45280	20050	40140
CAL YR 1981	TOTAL	234155	MEAN	642	MAX	7990	MIN	178	AC-FT	464400		
WTR YR 1982	TOTAL	547295	MEAN	1499	MAX	7990	MIN	238	AC-FT	1086000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10350390 TRUCKEE RIVER ABOVE TRACY, NV

LOCATION.--Lat 39°33'53", long 119°31'15", in NE¼NW¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 1,200 ft (370 m) upstream from Tracy powerplant, about 200 ft (60 m) upstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²), approximately.

PERIOD OF RECORD.--April 1972 to November 1981.

WATER TEMPERATURES: April 1972 to July 1972, monthly; August 1972 to February 1977, continuous; March 1977 to July 1978, four times per hour; August 1978 to November 1981, twice per hour.

INSTRUMENTATION.--Temperature recorder from August 1972 to November 1981.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 28.0°C June 24, 1977; minimum, freezing point on several days during winter months of some years.

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (60 m) downstream from Tracy powerplant, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft (1,291.788 m) National Geodetic Vertical Datum of 1929 (levels by S.E.A. Engineers, Sparks, Nev.).

REMARKS.--Records fair. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation.

AVERAGE DISCHARGE.--10 years, 736 ft³/s (20.84 m³/s), 533,200 acre-ft/yr (657 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) Jan. 14, 1980, gage height, 11.11 ft (3.386 m), maximum gage height 11.46 ft (3.493 m) Dec. 20, 1981; minimum, 22 ft³/s (0.623) Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,780 ft³/s (249 m³/s) Dec. 20, gage height, 11.46 ft (3.493 m); minimum, 259 ft³/s (7.33 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	362	1450	1280	490	1210	871	4460	3410	2850	391	371
2	392	342	911	1090	476	1410	881	4640	3120	2410	384	378
3	495	327	890	1000	480	1280	912	4680	2950	1450	362	371
4	500	306	827	1020	474	1190	928	5040	3010	1300	338	390
5	523	322	720	1150	468	1100	872	5040	3000	1250	338	391
6	521	325	680	1000	464	985	853	4970	3100	1180	327	386
7	555	314	653	768	486	965	812	5040	3280	1010	338	398
8	606	320	556	714	492	926	781	5240	3180	872	395	395
9	572	317	514	720	468	928	780	5150	3360	785	391	387
10	560	314	571	702	450	917	831	4900	3390	731	342	382
11	580	361	576	669	447	1210	3460	4620	3050	699	310	435
12	618	383	596	639	439	1220	4010	4430	2740	687	317	439
13	599	696	616	591	434	1080	2470	4450	2480	654	349	429
14	595	2400	621	584	950	1090	1980	4550	2220	599	356	482
15	629	927	653	573	2550	1070	2540	3970	2470	577	331	576
16	590	1070	750	576	7340	1150	2710	4020	2390	559	327	937
17	631	1310	674	573	4010	1130	2800	4040	2180	557	317	838
18	613	1250	637	585	3150	1080	2830	4180	2130	546	303	815
19	601	1030	1680	525	2940	1040	2830	3760	2520	505	338	825
20	607	924	7790	488	2890	939	2840	3700	1980	461	383	836
21	611	720	5390	485	3380	916	2910	3550	1590	419	364	836
22	468	2430	3200	470	3260	881	3630	3660	1560	384	338	713
23	351	2250	2700	540	2910	805	3740	3770	1760	363	371	765
24	320	5000	2350	553	2550	798	4180	3930	2180	346	364	933
25	323	2500	2230	552	1710	788	4570	4040	2360	361	355	1020
26	330	1880	2240	571	1550	787	4510	4290	2780	354	339	1240
27	293	1840	2360	571	1380	791	4560	5000	2800	355	349	982
28	335	1720	2100	529	1300	812	4650	4710	2820	402	356	914
29	436	1550	1340	534	---	820	4550	4600	3040	381	382	991
30	417	1440	1580	525	---	829	4300	4400	2950	336	386	967
31	389	---	1300	528	---	912	---	4210	---	335	359	---
TOTAL	15343	34930	49155	21105	47938	31059	78591	137040	79800	23718	10900	19822
MEAN	495	1164	1586	681	1712	1002	2620	4421	2660	765	352	661
MAX	631	5000	7790	1280	7340	1410	4650	5240	3410	2850	395	1240
MIN	283	306	514	470	434	787	780	3550	1560	335	303	371
AC-FT	30430	69280	97500	41860	95090	61610	155900	271800	158300	47040	21620	39320
CAL YR 1981	TOTAL	225987	MEAN	619	MAX	7790	MIN	173	AC-FT	448200		
WTR YR 1982	TOTAL	549401	MEAN	1505	MAX	7790	MIN	283	AC-FT	1090000		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to February 1982.

WATER TEMPERATURES: April to September 1972, monthly; October 1972 to September 1975, continuous; October 1975 to March 1976, monthly; April 1976 to March 1977, continuous; April 1977 to February 1980, four times per hour; March 1980 to February 1982, twice per hour.

INSTRUMENTATION.--Temperature recorder from October 1972 to February 1982.

REMARKS.--Temperature recorder malfunctioned Oct. 1 to Nov. 3.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 1977; minimum, freezing point on several days during winter months of some years.

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

WATER TEMPERATURES: Maximum, presumably not measured (see "Period of Record"); minimum, freezing point Jan. 3, 7-11, Feb. 6.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX OCTOBER	MIN OCTOBER	MAX NOVEMBER	MIN NOVEMBER	MAX DECEMBER	MIN DECEMBER	MAX JANUARY	MIN JANUARY	MAX FEBRUARY	MIN FEBRUARY	MAX MARCH	MIN MARCH
1			---	---	5.0	3.5	4.5	2.0	4.5	2.5		
2			---	---	5.5	4.0	2.0	1.0	5.5	3.5		
3			---	---	5.0	3.5	2.0	.0	6.5	4.5		
4			10.5	8.5	4.5	3.5	3.0	2.0	5.0	2.0		
5			10.5	8.5	5.5	4.0	3.0	1.5	2.0	.5		
6			11.5	9.0	6.0	4.5	2.5	.5	2.5	.0		
7			11.0	9.0	6.5	4.5	.5	.0	2.5	1.0		
8			10.5	9.0	6.5	5.0	.0	.0	3.5	2.0		
9			10.0	8.0	6.5	5.0	.0	.0	3.5	2.5		
10			9.0	8.0	6.5	5.0	.5	.0	4.0	3.5		
11			9.0	7.5	6.0	4.5	2.0	.0	---	---		
12			9.0	8.0	5.0	4.0	2.5	1.0	---	---		
13			8.5	8.0	5.5	4.5	2.0	.5	---	---		
14			8.0	6.5	6.5	5.0	2.5	.5	---	---		
15			8.5	6.5	6.5	6.0	2.5	1.5	---	---		
16			9.0	7.5	6.0	4.0	3.5	2.0	---	---		
17			8.5	6.5	4.0	3.0	4.0	2.5	---	---		
18			6.5	4.5	5.5	4.0	4.0	2.5	---	---		
19			6.5	4.5	7.0	5.5	3.0	2.0	---	---		
20			7.0	6.0	5.5	5.0	2.5	1.5	---	---		
21			8.0	6.5	5.0	3.5	2.0	.5	---	---		
22			7.5	5.5	3.5	3.0	2.0	.5	---	---		
23			7.5	6.5	3.5	3.0	2.5	1.5	---	---		
24			6.5	4.5	4.0	3.0	4.0	2.5	---	---		
25			4.5	3.5	5.0	4.0	5.0	3.0	---	---		
26			4.0	3.0	5.0	4.5	6.5	4.5	---	---		
27			3.5	3.0	5.0	4.0	5.0	2.5	---	---		
28			4.0	3.0	4.0	3.0	4.0	3.0	---	---		
29			3.5	3.0	5.0	4.0	4.5	2.5	---	---		
30			4.0	3.0	5.0	4.5	4.5	2.5	---	---		
31			---	---	5.0	4.0	4.5	2.5	---	---		
MONTH			11.5	3.0	7.0	3.0	6.5	.0	6.5	.0		

PYRAMID AND WINNEMUCCA LAKES BASIN

10350405 TRUCKEE RIVER RIGHT BANK BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank 200 ft (60 m) downstream from Tracy powerplant, about 1,500 ft (460 m) downstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi².

PERIOD OF RECORD.--April 1972 to December 1981.

WATER TEMPERATURES: April 1972 to July 1975, continuous; August 1975 to March 1976, monthly; April 1976 to February 1977, continuous; March 1977 to February 1980, four times per hour; March 1980 to December 1981, twice per hour.

INSTRUMENTATION.--Temperature recorder from April 1972 to December 1981.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 29, 1977; minimum, freezing point Jan. 5-9, 1973, Jan. 2, 1974, Dec. 13, 1979, and Dec. 9-11, 1980.

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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10350500 TRUCKEE RIVER AT CLARK, NV

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 (10 m) downstream from Clark Bridge, about 2 mi (3 km) downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi (0.3 km) west of Clark.

DRAINAGE AREA.--1,600 mi² (4,100 km²), 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, 27.0°C July 29, 30; minimum, freezing point Jan. 8 and several days in February.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX OCTOBER	MIN OCTOBER	MAX NOVEMBER	MIN NOVEMBER	MAX DECEMBER	MIN DECEMBER	MAX JANUARY	MIN JANUARY	MAX FEBRUARY	MIN FEBRUARY	MAX MARCH	MIN MARCH
1	16.5	16.0	10.5	8.5	5.0	4.0	4.0	2.0	7.0	5.0	2.0	.5
2	16.0	16.0	11.0	9.0	5.5	4.5	2.0	1.0	5.5	2.0	---	---
3	16.0	15.5	11.0	9.5	5.0	4.5	3.0	2.0	2.5	1.0	---	---
4	15.5	15.0	11.0	9.5	5.0	4.5	3.5	2.5	2.5	1.0	---	---
5	15.0	14.5	11.0	9.5	5.5	4.5	2.5	1.5	3.0	2.0	---	---
6	14.5	14.0	12.0	10.5	6.0	5.0	2.0	.5	4.0	2.5	---	---
7	14.5	14.0	12.0	10.0	6.0	5.0	.5	.5	4.5	2.5	---	---
8	14.0	13.0	11.0	9.5	6.5	5.5	.5	.0	---	---	---	---
9	13.5	13.0	10.5	9.0	6.5	5.5	1.0	.5	---	---	---	---
10	13.5	13.5	10.0	9.0	6.5	5.5	1.5	.5	---	---	---	---
11	13.5	12.0	9.5	8.5	6.0	5.0	3.0	1.0	5.0	4.0	---	---
12	12.0	11.0	10.0	9.0	5.0	4.5	3.0	1.0	5.0	3.5	---	---
13	11.5	10.5	9.5	9.0	5.5	5.0	2.5	1.0	5.0	3.5	---	---
14	11.0	10.0	9.0	7.0	6.5	5.0	3.0	1.5	5.0	3.5	---	---
15	11.0	10.0	9.0	7.0	6.5	6.0	3.5	2.0	3.5	1.5	---	---
16	11.0	10.0	9.5	8.5	6.0	4.5	3.5	2.5	1.5	.0	---	---
17	11.5	10.0	9.0	7.0	4.5	4.0	4.0	3.0	1.5	1.0	---	---
18	12.5	11.0	7.5	6.0	5.0	4.0	4.0	2.5	1.5	.5	---	---
19	13.0	11.5	6.5	5.5	7.0	5.5	3.5	2.0	1.5	1.5	5.5	4.0
20	13.0	11.5	7.5	6.5	6.0	5.5	2.5	2.0	1.5	.5	5.5	3.5
21	13.0	11.5	8.5	7.5	5.5	3.5	2.0	1.5	1.5	.0	5.0	4.0
22	13.0	11.5	8.0	6.5	3.5	3.0	4.0	1.5	1.5	.5	4.5	3.5
23	13.0	11.0	8.0	7.0	4.0	3.0	5.0	3.5	1.0	.0	4.0	2.0
24	12.5	11.0	7.0	6.0	4.0	3.5	6.5	4.0	.0	.0	4.5	3.0
25	13.0	11.0	6.5	5.0	5.0	4.0	4.5	3.5	.5	.0	---	---
26	13.0	11.5	5.0	4.5	5.5	4.5	4.5	3.5	1.5	.5	---	---
27	12.5	11.5	4.5	4.0	5.5	4.5	5.0	3.5	1.5	.0	---	---
28	12.5	11.5	4.5	4.0	4.5	3.5	5.0	3.0	1.0	.5	---	---
29	11.5	9.0	4.5	4.0	5.5	4.0	4.5	3.0	---	---	---	---
30	9.5	8.0	4.5	3.5	5.0	4.5	4.5	2.5	---	---	---	---
31	10.0	8.0	---	---	5.5	4.0	5.5	4.0	---	---	---	---
MONTH	16.5	8.0	12.0	3.5	7.0	3.0	6.5	.0	7.0	.0	5.5	.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 and 2 mi (3 km) southwest of Wadsworth.

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 (1,280 m), from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi (0.5 km) downstream from base gage.

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.--16 years, 278 ft³/s (7.873 m³/s), 201,400 acre-ft/yr (248 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft³/s (27.0 m³/s) June 10, 1970; no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	348	714	469	34	.00	87	307	204	62	269	235
2	298	309	667	441	32	.00	37	310	232	86	285	249
3	390	291	728	422	23	.00	47	310	233	47	272	249
4	415	263	721	417	20	.00	51	320	232	100	252	236
5	240	258	671	303	18	.00	49	320	219	109	245	244
6	477	273	620	242	14	.00	49	277	217	201	238	257
7	508	275	595	153	14	.00	48	242	228	298	227	257
8	575	286	535	79	19	.00	40	246	215	278	266	261
9	595	278	472	82	30	.00	37	247	224	262	284	265
10	572	230	498	115	20	.00	48	212	232	259	266	264
11	569	262	548	128	14	.00	85	151	190	256	228	267
12	604	292	549	138	13	.00	27	122	126	251	223	280
13	614	366	581	125	12	.00	46	126	94	259	239	278
14	618	574	587	121	12	.00	95	136	104	250	245	247
15	634	317	610	113	12	.00	114	104	279	231	238	194
16	621	446	678	110	11	.00	114	88	277	237	231	239
17	635	576	673	117	9.5	.00	109	108	220	246	221	231
18	653	643	627	124	8.3	.00	127	187	172	246	207	192
19	646	655	647	111	7.2	.00	121	168	280	231	211	193
20	646	682	211	95	5.7	.00	135	201	177	223	252	199
21	640	642	461	95	5.2	.00	180	220	88	208	268	200
22	576	623	296	91	4.0	.00	227	228	83	180	250	188
23	407	514	498	101	3.0	.00	192	233	141	178	236	170
24	309	639	550	113	2.1	.00	197	252	213	258	257	162
25	310	706	529	107	1.8	.00	216	273	195	278	250	177
26	307	708	528	93	1.2	.00	209	283	184	280	240	194
27	281	700	540	66	.90	.00	286	305	94	276	234	177
28	253	689	528	29	.30	.00	333	239	149	295	239	160
29	380	663	416	26	---	19	324	232	122	302	245	120
30	406	670	472	32	---	93	309	224	47	274	260	5.4
31	366	---	483	34	---	60	---	210	---	257	244	---
TOTAL	14796	14178	17233	4692	347.20	172.00	3939	6881	5471	6918	7622	6390.4
MEAN	477	473	556	151	12.4	5.55	131	222	182	223	246	213
MAX	653	708	728	469	34	93	333	320	280	302	285	280
MIN	240	230	211	26	.30	.00	27	88	47	47	207	5.4
AC-FT	29350	28120	34180	9310	689	341	7810	13650	10850	13720	15120	12680
CAL YR 1981	TOTAL	112175.00	MEAN	307	MAX	728	MIN	23	AC-FT	222500		
WTR YR 1982	TOTAL	88639.60	MEAN	243	MAX	728	MIN	.00	AC-FT	175800		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION.--Lat 39°29'56", long 119°02'29", in SW¼NE¼ sec.23, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft (152 m) downstream from Bango check dam and 4.5 mi (7.2 km) southwest of Hazen.

PERIOD OF RECORD.--October 1966 to current year. Records since Oct. 1, 1980 equivalent if records for the KX lateral are added to flow past station.

GAGE.--Water-stage recorder. Datum of gage is 4,166.53 ft (1,269.958 m) Bureau of Reclamation datum. Since Oct. 1, 1980 at site 500 ft (152 m) down stream from Bango check dam. From Mar. 17, 1972 to Sept. 30, 1980, gage on left bank 0.1 mi (0.2 km) down stream from Hazen check dam and auxiliary water-stage recorder 20 ft (6 m) upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi (10 km) downstream from base gage.

REMARKS.--Records fair. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--16 years (1967-82) 208 ft³/s (5.891 m³/s), 150,700 acre-ft/yr (186 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s (25.9 m³/s) Feb. 3, 1967; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	360	637	420	19	.00	86	108	34	21	77	144
2	123	320	621	400	19	.00	30	112	44	32	94	141
3	190	280	643	398	19	.00	.00	119	69	18	101	102
4	300	250	648	380	16	.00	.00	123	67	1.7	73	61
5	344	210	630	320	14	.00	11	135	59	.19	55	53
6	371	232	576	262	11	.00	26	100	71	.11	71	158
7	415	208	558	146	10	.00	6.0	60	79	67	55	139
8	409	209	535	92	11	.00	.00	79	75	56	70	120
9	500	258	482	70	8.8	.00	.00	72	86	78	144	122
10	475	200	473	75	28	.00	.00	104	89	13	70	118
11	460	153	520	160	19	.00	.00	61	125	60	56	132
12	502	220	512	145	1.2	.00	17	59	41	43	49	231
13	527	261	520	149	.00	.00	.00	36	32	32	37	220
14	540	515	528	136	.00	.00	1.0	32	16	74	56	189
15	524	400	532	132	.00	.00	38	33	66	34	132	67
16	578	345	563	113	.00	.00	67	27	136	30	74	133
17	556	518	600	115	.00	.00	58	7.6	156	53	60	204
18	592	584	558	124	.00	.00	55	49	91	71	69	132
19	566	581	539	128	.00	.00	52	50	99	89	53	114
20	559	613	350	101	.00	.00	55	32	106	87	61	131
21	557	592	393	94	.00	.00	61	74	56	56	79	133
22	543	600	343	81	.00	3.5	69	30	9.2	63	86	110
23	450	496	398	87	.00	.06	70	65	15	14	112	80
24	350	571	486	117	.00	.00	70	76	78	9.3	70	58
25	316	612	479	107	.00	.00	77	102	79	61	78	104
26	314	643	472	68	.00	.00	82	65	80	130	104	131
27	289	634	470	17	.00	.00	96	107	27	110	68	140
28	261	632	474	24	.00	.00	105	82	30	91	89	100
29	327	616	423	24	---	.00	106	27	50	70	91	87
30	412	603	390	22	---	16	37	17	49	93	123	37
31	400	---	434	19	---	163	---	72	---	70	147	---
TOTAL	12862	12716	15787	4526	176.00	182.56	1275.00	2115.6	2014.2	1627.30	2504	3691
MEAN	415	424	509	146	6.29	5.89	42.5	68.2	67.1	52.5	80.8	123
MAX	592	643	648	420	28	163	106	135	156	130	147	231
MIN	112	153	343	17	.00	.00	.00	7.6	9.2	.11	37	37
AC-FT	25510	25220	31310	8980	349	362	2530	4200	4000	3230	4970	7320

CAL YR 1981 TOTAL 85637.80 MEAN 235 MAX 648 MIN 1.0 AC-FT 169900
WTR YR 1982 TOTAL 59476.66 MEAN 163 MAX 648 MIN .00 AC-FT 118000

10351590 TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR, NV

LOCATION.--Lat 39°28'09", long 119°04'00", in SE¼NE¼ sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, approximately 100 ft (30 m) downstream from U.S. Highway 50 bridge and 0.4 mi (0.6 km) upstream from outlet weir to Lahontan Reservoir.

PERIOD OF RECORD.--June 1979 to current year (all data prior to October 1980 are unpublished).

CHEMICAL ANALYSES: June 7-8 and August 9-10, 1979, diel measurements; October 1979 to September 1980, monthly or more frequently; October 1980 to September 1981, monthly.

SPECIFIC CONDUCTANCES: June 7-8 and August 9-10, 1979, diel measurements; October 1979 to October 1980, monthly or more frequently; November 1980 to current year, once daily.

BIOLOGICAL DATA: June 7-8 and August 9-10, 1979, diel measurements; October 1979 to December 1980, monthly or more frequently.

WATER TEMPERATURES: June 7-8 and August 9-10, 1979, diel measurements; October 1979 to April 1980, monthly or more frequently; May to September 1980, hourly; November 1980 to current year, once daily.

SEDIMENT DATA: October 1979 to November 1980, monthly or more frequently.

REMARKS.--Unpublished data for period prior to October 1980 are available from district office in Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 428 micromhos Mar. 23, 1982; minimum, 88 micromhos May 30, 1982.

PHYTOPLANKTON: Maximum, 34,000 cells/mL July 15, 1980; minimum, 45 cells/mL Jan. 14, 1979.

WATER TEMPERATURES: Maximum, 28.0°C Aug. 10, 1979; minimum, freezing point Dec. 10, 13, 1980, and many days in Jan., Feb. 5, 6, 8, 1982.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 602 mg/L Jan. 14, 1979; minimum, 3 mg/L Nov. 19, 1980.

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

SPECIFIC CONDUCTANCES: Maximum, 428 micromhos Mar. 23; minimum, 88 micromhos May 30.

WATER TEMPERATURES: Maximum, 24.0°C July 30; minimum, freezing point many days in January and February 5, 6, 8.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	9.0	3.5	4.0	1.0	6.5	6.0	11.0	---	---	23.5	---
2	15.5	8.0	5.0	2.0	2.5	5.0	4.0	10.5	15.0	16.5	20.5	19.5
3	14.5	8.5	5.0	.0	3.5	4.0	---	12.5	15.0	17.0	20.0	19.0
4	---	8.0	4.0	.5	1.0	3.0	---	13.0	13.5	15.0	19.5	18.5
5	13.0	9.0	4.0	1.0	.0	1.0	---	12.0	11.5	16.0	20.0	19.5
6	13.0	9.5	4.5	.5	.0	7.0	---	13.0	13.0	16.0	20.0	20.0
7	10.0	9.5	5.0	.0	---	7.0	---	13.0	13.5	---	20.5	18.5
8	12.0	9.0	5.0	.0	.0	7.0	---	13.0	13.5	---	21.5	18.5
9	12.0	9.0	5.5	.0	.5	6.0	---	10.0	15.0	---	21.0	18.0
10	12.0	8.5	5.0	.0	1.0	6.0	---	12.0	16.0	19.0	21.5	18.5
11	12.0	8.5	5.0	.0	5.0	6.0	---	11.0	16.0	19.0	21.0	17.5
12	10.0	8.5	5.0	.0	5.5	8.0	---	12.0	15.0	20.5	21.0	15.5
13	9.0	9.0	4.5	.0	4.0	---	---	12.5	15.0	18.5	21.0	15.0
14	---	8.5	5.5	.0	---	9.0	---	13.5	15.0	---	21.0	15.5
15	9.0	8.0	6.0	.0	---	6.0	---	13.5	17.5	---	21.0	16.0
16	8.0	8.0	5.5	.0	6.0	4.5	---	13.5	---	19.0	20.0	15.0
17	9.0	8.0	4.0	.0	6.0	4.0	---	---	18.0	20.5	20.0	15.0
18	---	8.5	4.0	.0	4.5	5.0	---	14.0	18.0	21.0	21.5	15.0
19	10.0	5.5	---	---	7.5	4.5	---	15.0	19.0	20.0	21.0	13.5
20	11.0	6.0	---	.0	---	5.0	---	14.5	18.0	21.5	21.0	13.5
21	10.0	7.0	5.0	.0	11.0	5.0	---	15.0	19.0	22.0	21.0	14.0
22	10.0	7.5	4.5	.0	10.0	7.0	---	15.5	19.0	22.0	21.5	14.5
23	11.0	7.0	4.0	1.0	11.0	7.0	---	15.0	19.0	21.0	22.0	15.0
24	10.0	7.0	4.0	.5	10.0	7.0	---	15.0	19.0	19.0	21.0	15.0
25	10.0	5.5	4.5	.0	5.0	7.0	---	17.0	18.5	23.0	20.0	15.0
26	11.0	4.0	---	1.5	4.5	10.0	---	16.0	18.0	23.0	21.0	15.0
27	10.5	4.0	4.0	1.5	6.5	10.0	10.5	15.0	19.5	23.0	21.0	14.0
28	---	3.5	4.5	.5	7.0	7.0	12.5	15.0	19.0	23.0	21.0	12.0
29	10.0	4.0	3.5	.5	---	4.5	10.0	15.0	17.0	---	21.0	12.0
30	9.0	3.0	4.5	.5	---	5.0	10.0	15.0	17.0	24.0	20.0	10.0
31	9.0	---	5.0	---	---	5.0	---	15.0	---	23.5	19.0	---
MEAN	11.0	7.5	4.5	.5	4.5	6.0	9.0	13.5	16.5	20.0	21.0	16.0
MAX	15.5	9.5	6.0	4.0	11.0	10.0	12.5	17.0	19.5	24.0	23.5	20.0
MIN	8.0	3.0	3.5	.0	.0	1.0	4.0	10.0	11.5	15.0	19.0	10.0
WTR YR 1982 MEAN		11.0	MAX	24.0	MIN	.0						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351590 TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	255	129	149	281	326	170	96	---	114	265	266
2	281	250	122	158	318	326	170	96	94	114	281	244
3	292	253	164	179	318	326	---	97	94	114	255	260
4	---	253	168	184	318	367	---	97	102	116	276	266
5	212	260	170	200	318	387	175	97	108	116	---	266
6	210	270	180	200	---	326	190	91	107	120	260	266
7	202	260	180	242	286	326	---	94	107	130	281	249
8	212	270	180	242	271	326	193	94	104	158	270	177
9	210	270	191	252	271	357	193	96	110	158	276	177
10	191	260	215	284	249	367	193	96	103	158	260	172
11	191	296	202	263	260	367	---	94	98	178	250	172
12	202	281	202	294	255	377	204	92	97	173	239	266
13	191	244	212	221	255	---	190	96	96	183	---	233
14	---	260	199	284	265	387	175	99	96	183	260	172
15	186	---	202	252	265	387	175	99	98	178	265	172
16	186	229	196	239	276	397	175	98	101	189	234	216
17	175	229	186	236	276	397	132	98	98	204	244	216
18	---	---	175	236	276	---	132	98	96	214	260	172
19	173	---	194	226	276	408	117	100	96	214	260	183
20	170	---	194	252	286	408	113	98	114	209	250	222
21	164	146	---	278	286	408	113	98	123	209	270	199
22	170	161	141	---	297	408	113	106	106	229	281	188
23	170	100	140	273	297	428	113	98	---	222	255	177
24	212	116	121	---	297	408	113	98	127	229	255	177
25	239	123	121	263	302	---	103	98	133	245	276	177
26	244	115	117	236	302	387	105	94	123	255	250	188
27	239	121	117	247	313	387	101	98	---	265	270	160
28	255	112	110	247	318	387	103	92	123	255	286	172
29	255	114	110	247	---	387	99	92	120	255	286	177
30	255	121	142	---	---	387	97	88	127	275	270	162
31	255	---	149	263	---	---	---	90	---	250	260	---
MEAN	216	207	164	237	286	376	145	96	107	191	264	205
MAX	292	296	215	294	318	428	204	106	133	275	286	266
MIN	164	100	110	149	249	326	97	88	94	114	234	160
WTR YR 1982	MEAN	206	MAX	428	MIN	88						

PYRAMID AND WINNEMUCCA LAKES BASIN

279

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 (500 m) downstream from Derby Dam, 3.2 mi (5.1 km) downstream from Clark, and 9 mi (14 km) southwest of Wadsworth.

DRAINAGE AREA.--1,676 mi² (4,341 km²).

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), 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.--63 years (1918-57, 1958-82), 339 ft³/s (9.600 m³/s), 245,600 acre-ft/yr (303 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s (521 m³/s) Feb. 1, 1963, gage height, 14.26 ft (4.346 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,270 ft³/s (234 m³/s) Dec. 20, gage height, 10.42 ft (3.176 m); minimum daily, 8.3 ft³/s (0.24 m³/s) Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	12	715	888	469	1320	650	3750	2960	2280	84	63
2	55	12	239	754	450	1500	646	3900	2770	2010	87	66
3	56	11	151	673	465	1400	664	3910	2600	1230	73	66
4	39	11	118	673	457	1320	682	4130	2660	1050	63	68
5	38	15	89	948	446	1220	641	4110	2660	1030	63	73
6	38	9.6	79	866	446	1110	624	4080	2710	922	61	71
7	48	11	69	701	469	1080	602	4110	2830	774	60	70
8	60	8.3	50	678	484	1040	585	4230	2730	646	77	74
9	33	31	41	682	465	1030	576	4180	2860	565	81	76
10	33	55	41	650	443	1020	602	4050	2890	512	65	70
11	30	52	43	593	432	1280	2330	3860	2680	486	58	95
12	22	49	44	539	425	1340	3370	3720	2460	472	58	108
13	27	130	45	507	418	1190	2210	3720	2250	445	65	101
14	29	1620	49	488	840	1200	1790	3810	1890	392	62	136
15	27	739	53	480	2160	1190	2230	3400	2000	363	58	214
16	28	609	61	480	6990	1030	2380	3410	1940	349	58	519
17	24	734	60	480	4020	789	2480	3440	1920	342	58	524
18	25	691	54	476	3070	739	2510	3540	1860	333	53	505
19	26	469	850	446	2920	711	2500	3250	2070	297	52	509
20	26	381	7290	411	2760	669	2490	3210	1720	258	67	517
21	27	146	4890	404	3300	650	2510	3080	1410	221	69	519
22	26	1880	2840	394	3200	840	3080	3170	1310	192	63	415
23	26	1720	2240	432	2860	882	3190	3210	1400	152	63	453
24	24	4140	1850	454	2540	872	3490	3310	1750	75	68	598
25	27	1640	1730	450	1780	856	3790	3390	1880	81	64	687
26*	24	1120	1710	469	1640	856	3770	3340	2180	77	62	874
27	20	1070	1750	543	1480	861	3790	4000	2230	76	61	686
28	22	986	1620	503	1420	882	3860	3830	2240	99	62	627
29	29	866	1000	519	---	720	3800	3750	2410	91	65	775
30	19	708	1130	503	---	628	3660	3610	2360	68	73	831
31	22	---	920	503	---	669	---	3530	---	64	65	---
TOTAL	993	19925.9	31821	17587	46849	30894	65502	114030	67630	15952	2018	10390
MEAN	32.0	664	1026	567	1673	997	2183	3678	2254	515	65.1	346
MAX	63	4140	7290	948	6990	1500	3860	4230	2960	2280	87	874
MIN	19	8.3	41	394	418	628	576	3080	1310	64	52	63
AC-FT	1970	39520	63120	34880	92920	61280	129900	226200	134100	31640	4000	20610
CAL YR 1981	TOTAL	112154.8	MEAN	307	MAX	7290	MIN	6.8	AC-FT	222500		
WTR YR 1982	TOTAL	423591.9	MEAN	1161	MAX	7290	MIN	8.3	AC-FT	840200		

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (0.8 km) downstream from U.S. Highway 40 bridge and 0.2 mi (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,728 mi² (4,475 km²).

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 (1,230.752 m) 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.--17 years, 551 ft³/s (15.60 m³/s), 399,200 acre-ft/yr (492 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,820 ft³/s (250 m³/s) Jan. 14, 1980, gage height, 12.41 ft (3.783 m); minimum daily discharge, 3.1 ft³/s (0.088 m³/s) Sept. 4, 1978, Nov. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,210 ft³/s (233 m³/s) Dec. 20, gage height, 11.92 ft (3.633 m), maximum gage height 12.01 ft (3.661 m) Feb. 16; minimum daily, 30 ft³/s (0.85 m³/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	63	750	936	500	1350	960	4230	3400	2410	80	73
2	66	59	300	817	479	1470	942	4420	2970	2170	78	72
3	64	60	200	748	491	1420	958	4430	2740	1600	72	74
4	60	59	150	722	487	1340	978	4690	2820	1200	65	78
5	46	59	100	884	483	1260	952	4700	2780	1080	68	75
6	48	63	95	870	483	1180	932	4640	2820	950	68	66
7	55	55	80	729	500	1130	913	4740	2940	782	66	63
8	74	45	78	693	512	1110	895	4880	2880	680	62	62
9	78	30	71	700	508	1090	882	4840	2940	620	77	63
10	67	40	73	664	487	1080	895	4780	3020	550	69	70
11	72	50	79	622	479	1250	2550	4510	2800	520	62	90
12	82	58	81	553	471	1340	4510	4290	2590	490	54	105
13	83	60	81	504	467	1210	2770	4290	2370	460	64	103
14	83	1000	81	491	690	1190	2230	4440	2030	420	69	140
15	72	970	84	487	1730	1200	2590	3950	2060	380	68	250
16	61	630	78	483	6300	1180	2780	3950	2030	360	64	580
17	64	717	93	487	4100	1230	2900	4030	2020	350	62	620
18	60	788	88	487	3130	1190	2920	4000	1900	335	60	630
19	56	450	597	471	2940	1120	2910	3800	2030	320	65	640
20	57	350	6720	439	2710	1040	2880	3540	1880	290	70	640
21	59	270	5470	431	3320	1030	2880	3360	1620	250	72	580
22	62	1650	3160	427	3140	1060	3510	3440	1520	220	70	560
23	58	1550	2260	447	2740	958	3690	3450	1540	200	66	620
24	56	4600	1890	471	2450	946	3990	3570	1890	180	68	780
25	57	1900	1730	471	1780	938	4420	3610	1940	125	66	940
26	56	1300	1690	479	1630	932	4420	3800	2210	100	64	980
27	58	1000	1720	551	1500	928	4390	4420	2330	92	66	940
28	62	900	1640	516	1430	948	4380	4250	2310	93	68	840
29	67	800	1110	525	---	844	4330	4120	2460	105	72	980
30	76	740	1160	516	---	755	4170	4020	2550	95	78	1100
31	67	---	1020	521	---	872	---	3880	---	89	80	---
TOTAL	1991	20316	32729	18142	45937	34591	78527	129070	71390	17516	2113	12814
MEAN	64.2	677	1056	585	1641	1116	2618	4164	2380	565	68.2	427
MAX	83	4600	6720	936	6300	1470	4510	4880	3400	2410	80	1100
MIN	46	30	71	427	467	755	882	3360	1520	89	54	62
AC-FT	3950	40300	64920	35980	91120	68610	155800	256000	141600	34740	4190	25420
CAL YR 1981	TOTAL	118122	MEAN	324	MAX	6720	MIN 11	AC-FT	234300			
WTR YR 1982	TOTAL	465136	MEAN	1274	MAX	6720	MIN 30	AC-FT	922600			

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 (1.6 km) upstream from Numana Dam, 4 mi (6 km) south of Nixon, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--1,827 mi² (4,732 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to Sept. 1957 at site 1.0 mi (1.6 km) downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

GAGE.--Water-stage recorder. Altitude of gage is 3,940 ft (1,201 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi (40 km) upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river.

AVERAGE DISCHARGE.--25 years, 456 ft³/s (12.91 m³/s), 330,400 acre-ft/yr (407 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s (408 m³/s) Feb. 2, 1963, gage height, 14.39 ft (4.386 m); minimum daily 8.1 ft³/s (0.23 m³/s) July 7, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a stage of 14.1 ft (4.298 m), from floodmarks, discharge, 14,000 ft³/s (396 m³/s), by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,580 ft³/s (215 m³/s) Feb. 16, gage height, 9.70 ft (2.957 m); minimum daily, 37 ft³/s (1.05 m³/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	65	786	953	516	1420	924	4020	3510	2690	68	79
2	66	58	522	832	488	1500	890	4130	3190	2460	85	77
3	63	60	237	737	498	1510	913	4170	2950	1730	83	76
4	62	59	210	694	504	1400	946	4320	2980	1340	69	79
5	46	59	168	917	495	1320	919	4400	2960	1240	73	86
6	47	63	145	966	494	1210	889	4380	3000	1090	76	78
7	52	57	130	788	506	1160	874	4380	3100	878	71	67
8	67	46	114	785	521	1130	842	4490	3060	681	66	67
9	91	37	96	806	525	1090	826	4560	3110	611	85	65
10	77	41	78	807	501	1090	845	4520	3180	548	78	69
11	79	60	78	779	485	1220	1650	4370	3060	508	71	77
12	88	59	74	663	482	1400	3990	4230	2880	489	58	110
13	84	62	76	610	472	1260	2890	4190	2630	460	67	114
14	65	1010	76	539	619	1220	2310	4270	2300	413	72	107
15	57	1000	74	531	1670	1250	2530	3980	2240	374	74	301
16	62	541	75	517	5010	1210	2780	3910	2220	357	68	559
17	64	566	82	520	4860	1240	2880	3910	2180	343	68	667
18	59	765	77	518	3330	1210	2920	3940	2070	343	63	664
19	56	469	73	505	3130	1140	2920	3790	2180	312	67	660
20	55	374	4960	456	2940	1030	2920	3620	2110	285	72	678
21	59	265	5510	447	3380	987	2890	3460	1770	239	79	675
22	62	1190	3220	440	3330	1040	3290	3510	1610	214	76	596
23	59	1370	2420	446	3060	935	3500	3520	1600	195	70	584
24	55	3250	1900	489	2770	878	3700	3610	1930	140	73	742
25	57	2280	1770	485	2040	881	4030	3680	2070	104	73	892
26	55	1220	1730	485	1760	871	4070	3760	2370	97	68	1090
27	58	1110	1750	577	1600	879	4080	4120	2560	88	71	964
28	60	1050	1720	535	1510	883	4090	4210	2560	91	74	853
29	63	946	1210	558	---	827	4100	4100	2720	107	75	950
30	76	800	1170	530	---	650	4000	4030	2850	89	80	1060
31	66	---	1050	535	---	717	---	3950	---	82	88	---
TOTAL	1975	18932	31581	19450	47496	34558	74408	125530	76950	18598	2261	13086
MEAN	63.7	631	1019	627	1696	1115	2480	4049	2565	600	72.9	436
MAX	91	3250	5510	966	5010	1510	4100	4560	3510	2690	88	1090
MIN	46	37	73	440	472	650	826	3460	1600	82	58	65
AC-FT	3920	37550	62640	38580	94210	68550	147600	249000	152600	36890	4480	25960
CAL YR 1981	TOTAL	116926	MEAN	320	MAX	5510	MIN	18	AC-FT	231900		
WTR YR 1982	TOTAL	464825	MEAN	1273	MAX	5510	MIN	37	AC-FT	922000		

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 current year, every two months.

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 current year, every two months.

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 current year, every two months.

INSTRUMENTATION.--Specific-conductance and temperature recorder since May 1980.

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 1,110 micromhos Nov. 18, 1977; minimum, 88 micromhos Nov. 24, 1981.

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, 785 micromhos Nov. 10; minimum, 88 micromhos Nov. 24.

WATER TEMPERATURES: Maximum, 28.5°C July 30; minimum, 0.5°C Jan. 22, Feb. 6, 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 03...	1100	62	581	8.6	9.0	1.7	*10.8	107	K9	180	150	37
JAN 18...	1215	522	300	7.9	3.0	7.5	11.0	95	--	--	76	19
MAR 17...	1230	1240	170	7.9	4.0	9.6	11.0	97	K4	140	48	12
MAY 19...	1230	3900	100	7.8	12.0	17	9.6	102	64	110	35	9.1
JUL 21...	1215	228	300	8.2	21.5	5.1	8.0	104	K22	770	84	21
SEP 23...	1200	553	235	7.4	16.5	2.3	8.9	105	40	700	64	16

K: NON-IDEAL COLONY COUNT.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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- 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 CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 03...	14	58	2.2	5.6	110	75	75	.2	14	344	344	57.6
JAN 18...	6.9	27	1.5	3.3	79	26	21	.1	25	182	176	257
MAR 17...	4.3	13	.9	2.1	55	9.0	12	.1	21	108	107	362
MAY 19...	2.9	8.1	.6	1.9	44	5.0	4.7	<.1	16	75	74	790
JUL 21...	7.6	28	1.4	4.4	90	24	27	.1	21	196	187	121
SEP 23...	5.7	19	1.1	3.3	73	19	11	.1	19	134	137	200

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, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
NOV 03...	<.09	.100	.61	.050	.040	.070	11	10	<100	53	<1	<1
JAN 18...	.49	.940	1.40	.200	.180	.190	--	--	--	--	--	--
MAR 17...	.31	.250	.83	.050	.030	.020	9	6	<100	27	1	<1
MAY 19...	.17	.160	.90	.110	.020	.030	5	5	100	20	<1	<3
JUL 21...	.52	.080	2.00	.240	.190	.170	--	--	--	--	--	--
SEP 23...	.66	<.060	1.00	.130	.060	.060	9	8	100	39	<1	<1

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 03...	10	<10	2	<3	4	2	220	15	2	<1	60
JAN 18...	--	--	--	--	--	--	--	--	--	--	--
MAR 17...	<10	<10	1	<1	13	1	3300	86	11	<1	90
MAY 19...	<10	<10	3	<1	10	5	4000	23	12	1	120
JUL 21...	--	--	--	--	--	--	--	--	--	--	--
SEP 23...	<10	<10	1	<1	7	2	820	52	5	<1	60

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 03...	33	.1	<.1	5	1	<1	<1	<1	<1	20	20
JAN 18...	--	--	--	--	--	--	--	--	--	--	--
MAR 17...	9	.1	.1	4	1	<1	<1	<1	<1	20	9
MAY 19...	7	.1	.1	3	1	<1	<1	<1	<1	60	<12
JUL 21...	--	--	--	--	--	--	--	--	--	--	--
SEP 23...	12	.1	<.1	--	3	<1	<1	<1	<1	20	8

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	1100	--	0	.0	--	.0	--	.0	--	.0	--	.1
MAR 17...	1230	<.10	--	--	<.01	--	<.10	--	<.01	--	<.01	--
MAY 19...	1230	<.10	1	<1.0	<.01	<.1	<.10	<1.0	<.01	.1	<.01	<.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	--	.0	--	--	.0	--	.0	--	.0	--	--	.0
MAR 17...	<.01	--	.02	<.01	--	<.01	--	<.01	--	.00	<.01	--
MAY 19...	<.01	.1	<.01	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	--	.0	--	.0	--	--	.0	--	--	--	.0
MAR 17...	<.01	--	<.01	--	.00	<.01	--	.00	.00	<.01	--
MAY 19...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01	<.1

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTA- L TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	--	--	--	.00	--	.0	--	--	--	--	--
MAR 17...	<.10	.00	<.10	--	<1	--	.00	.01	<.01	<.01	<.01
MAY 19...	<.10	<.01	<.10	<1.00	<1	<10	<.01	.03	<.01	<.01	<.01

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 03...	1100	7	1.2
JAN 18...	1215	22	31
MAR 17...	1230	46	154
MAY 19...	1230	149	1570
JUL 21...	1215	15	9.2
SEP 23...	1200	26	39

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	553	529	555	521	193	180	---	---	319	302	168	155
2	557	545	586	548	250	177	---	---	323	307	175	169
3	555	539	596	572	336	255	---	---	320	309	176	163
4	563	543	584	566	352	336	---	---	319	301	193	176
5	621	568	585	580	388	354	---	---	318	304	192	176
6	637	611	580	553	417	390	---	---	321	290	175	162
7	641	580	593	569	436	419	---	---	319	295	171	167
8	579	517	660	592	454	438	---	---	321	287	176	171
9	511	432	743	660	513	455	---	---	311	286	177	172
10	488	452	785	739	541	514	---	---	319	291	171	166
11	498	479	726	593	544	534	---	---	317	297	172	164
12	495	482	603	581	557	541	---	---	316	295	161	143
13	501	478	618	594	551	538	---	---	321	298	167	151
14	554	473	650	155	536	525	---	---	318	276	170	164
15	578	554	280	160	541	534	---	---	279	149	165	158
16	578	554	308	268	538	526	---	---	161	111	167	164
17	548	516	261	195	---	---	---	---	135	100	177	163
18	556	535	195	173	---	---	---	---	165	136	177	158
19	568	546	240	199	---	---	354	308	157	135	186	160
20	591	564	248	240	---	---	354	339	137	133	190	177
21	601	554	316	250	---	---	367	339	139	129	176	161
22	544	516	381	108	---	---	352	328	151	136	164	149
23	557	524	139	108	---	---	412	325	148	139	171	142
24	579	556	138	88	---	---	359	299	147	143	---	---
25	586	556	146	99	---	---	313	290	151	142	---	---
26	584	565	162	147	---	---	327	302	164	151	---	---
27	597	574	164	151	---	---	373	306	160	148	---	---
28	575	550	159	150	---	---	377	342	158	152	---	---
29	582	561	171	157	---	---	376	327	---	---	---	---
30	565	486	193	168	---	---	340	313	---	---	---	---
31	556	508	---	---	---	---	335	300	---	---	---	---
MONTH	641	432	785	88	557	177	412	290	323	100	193	142

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	109	104	99	92	195	125	588	557	540	502
2	---	---	124	105	104	96	209	141	590	557	530	508
3	---	---	128	109	108	102	242	196	570	546	517	505
4	---	---	110	106	106	100	226	208	601	570	530	493
5	---	---	112	101	107	99	319	225	662	575	527	491
6	---	---	104	96	115	108	343	296	616	580	526	492
7	---	---	104	95	121	113	347	308	618	582	567	491
8	---	---	97	95	116	110	345	310	675	603	600	549
9	---	---	99	89	111	102	310	244	678	597	606	552
10	---	---	102	89	105	101	---	---	534	613	592	541
11	---	---	108	102	106	101	---	---	668	638	509	480
12	---	---	110	105	109	104	---	---	721	674	508	403
13	---	---	114	103	117	108	---	---	729	690	400	382
14	---	---	109	101	126	108	---	---	710	646	403	381
15	---	---	108	102	121	110	---	---	662	646	401	262
16	---	---	105	102	119	109	---	---	663	651	268	165
17	---	---	105	102	120	110	312	240	665	640	194	158
18	---	---	103	100	129	112	296	234	674	638	---	---
19	---	---	109	101	141	116	292	216	678	640	---	---
20	---	---	110	103	157	118	306	231	674	640	---	---
21	---	---	113	104	206	143	320	302	656	613	---	---
22	119	105	109	103	261	190	344	307	629	611	---	---
23	109	105	109	102	291	240	327	311	642	623	---	---
24	108	102	104	100	355	296	453	327	655	619	---	---
25	104	100	102	100	334	289	535	446	625	611	---	---
26	105	99	104	101	279	240	544	509	643	625	---	---
27	113	102	106	95	337	244	573	543	632	619	---	---
28	114	109	102	94	347	210	573	520	638	629	---	---
29	111	107	101	98	230	192	527	448	637	622	---	---
30	110	106	103	93	194	121	545	466	622	544	---	---
31	---	---	96	91	---	---	558	540	542	506	---	---
MONTH	119	99	128	89	355	92	573	125	729	506	606	158
YEAR	785	88										

10352500 McDERMITT CREEK NEAR McDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE1/4 sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on right bank at mouth of canyon, 6.5 mi (10.5 km) southwest of McDermitt.

DRAINAGE AREA.--225 mi² (583 km²).

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 (1,385 m) from topographic map. Prior to May 11, 1972, at site approximately 300 ft (91 m) downstream on left bank at same datum.

REMARKS.--Records poor, no gage-height record, Apr. 16 to May 14 and Aug. 16 to Sept. 30. One diversion for about 1,500 acres (6.07 km²) above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--34 years, 30.2 ft³/s (0.855 m³/s), 21,880 acre-ft/yr (27.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s (112 m³/s) about Feb. 1, 1963, gage height, 8.64 ft (2.634 m), in gage well, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	1330	710 20.1	4.45 1.356
Feb. 22	unknown	*1,380 39.1	5.84 1.780
Apr. 12	unknown	unknown	unknown

Minimum daily discharge, 0.16 ft³/s (0.005 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	1.9	9.5	25	12	82	60	130	77	37	3.4	.69
2	.17	2.1	9.5	23	14	87	58	130	75	42	3.1	.61
3	.19	2.3	10	17	14	77	60	131	74	34	2.9	.55
4	.21	2.4	10	22	10	70	71	133	71	31	2.7	.61
5	.23	2.5	10	24	7.1	62	57	130	68	29	2.5	.61
6	.26	2.6	11	13	8.9	57	62	125	64	25	2.4	.61
7	.28	2.7	12	8.6	11	53	56	119	57	23	2.2	.61
8	.30	2.8	13	9.0	12	50	51	119	54	21	2.1	.55
9	.32	3.0	13	13	12	50	52	121	50	20	1.9	.55
10	.35	3.2	13	16	11	51	59	119	50	18	1.7	.48
11	.42	3.5	12	17	11	58	130	114	51	17	1.7	.55
12	.43	3.8	12	18	12	58	210	108	52	16	1.7	.69
13	.44	4.8	14	17	12	83	165	94	56	15	1.8	.85
14	.45	8.8	15	16	34	97	160	94	56	14	1.8	.94
15	.48	7.2	33	15	210	103	150	104	52	14	1.7	1.0
16	.51	5.9	36	16	970	77	135	104	51	13	1.5	1.3
17	.52	5.3	22	17	310	70	128	114	49	12	1.4	1.4
18	.55	5.7	24	17	170	76	122	122	48	12	1.3	1.5
19	.59	6.0	105	16	210	75	120	120	46	11	1.1	2.0
20	.63	6.3	363	12	500	67	120	118	43	9.4	1.0	2.1
21	.70	6.3	177	16	800	60	123	120	41	8.3	.94	2.3
22	.78	16	92	15	1200	59	126	121	38	7.6	.94	2.1
23	.90	22	60	15	500	58	133	124	36	6.9	.85	1.8
24	.98	65	45	15	300	60	142	126	34	6.3	.76	2.0
25	1.1	31	41	16	160	60	142	128	32	5.8	.69	2.1
26	1.2	19	38	17	120	61	139	130	29	5.3	.69	2.9
27	1.3	15	34	14	96	59	139	128	27	4.9	.69	4.2
28	1.5	11	21	15	84	62	142	110	27	4.5	.69	3.4
29	1.7	9.4	34	14	---	59	139	100	45	4.2	.76	3.9
30	1.8	11	35	13	---	59	131	88	36	3.9	.76	4.2
31	1.8	---	22	14	---	61	---	81	---	3.7	.61	---
TOTAL	21.25	288.5	1346.0	495.6	5811.0	2061	3382	3605	1489	474.8	48.28	47.10
MEAN	.69	9.62	43.4	16.0	208	66.5	113	116	49.6	15.3	1.56	1.57
MAX	1.8	65	363	25	1200	103	210	133	77	42	3.4	4.2
MIN	.16	1.9	9.5	8.6	7.1	50	51	81	27	3.7	.61	.48
AC-FT	42	572	2670	983	11530	4090	6710	7150	2950	942	96	93

CAL YR 1981	TOTAL	3847.19	MEAN	10.5	MAX	363	MIN	.00	AC-FT	7630
WTR YR 1982	TOTAL	19069.53	MEAN	52.2	MAX	1200	MIN	.16	AC-FT	37820

BLACK ROCK DESERT BASIN

10353500 QUINN RIVER NEAR McDERMITT, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 41°46'30", long 117°48'15", in SW¼ sec.15, T.45 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left-bank 1.5 mi (2.4 km) upstream from Flat Creek and 15.5 mi (24.9 km) south of McDermitt.

DRAINAGE AREA.--1,100 mi² (2,849 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 4,240 ft (1,292 m), from river-profile map.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Mar. 13 to May 7 and May 24 to Aug. 9, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--34 years, 35.2 ft³/s (0.997 m³/s), 25,500 acre-ft/yr (31.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) Apr. 27, 1952, gage height, 8.39 ft (2.557 m); no flow for some days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft³/s (35.7 m³/s) Feb. 22, gage height, 6.47 ft (1.972 m); minimum, 0.17 ft³/s (0.005 m³/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.40	.72	6.8	3.8	237	180	425	37	16	2.6	1.0
2	.33	.79	.75	7.7	3.4	226	175	400	35	15	2.3	.92
3	.35	.27	.68	7.0	3.9	224	175	380	34	15	1.8	.92
4	.36	.53	.66	5.5	3.9	217	180	350	33	14	1.6	.92
5	.36	.43	.67	7.6	3.0	200	215	310	33	13	1.4	.92
6	.37	.38	.71	7.2	2.0	174	190	265	31	12	1.4	.92
7	.52	.36	.74	6.8	2.3	153	190	180	28	11	1.3	.92
8	.48	.39	.67	3.6	2.9	143	175	165	26	10	1.3	.92
9	.41	.41	.64	2.6	3.4	135	160	161	26	9.3	1.3	.92
10	.59	.42	.65	3.2	3.4	133	170	169	24	8.6	1.2	.92
11	.60	.44	.66	3.5	3.1	140	185	181	24	8.4	1.2	.92
12	.42	.68	.67	3.6	3.0	147	620	178	25	7.3	1.2	1.0
13	.37	.60	1.4	3.6	2.2	150	820	165	25	6.2	1.2	1.0
14	.38	.54	1.9	3.5	17	170	750	146	26	6.0	1.1	.92
15	.34	.45	1.7	3.2	52	190	750	142	27	5.8	1.1	.92
16	.36	.43	2.0	3.2	255	230	680	133	26	5.5	1.0	.92
17	.33	.55	2.7	3.3	810	220	580	124	26	5.3	1.0	.92
18	.33	.52	3.6	3.5	827	200	530	123	25	4.9	1.0	.92
19	.31	.57	4.1	3.4	608	220	510	117	25	4.5	1.0	1.1
20	.35	.56	7.1	3.2	564	210	455	113	24	4.2	1.0	1.0
21	.34	.62	15	2.5	847	190	410	106	24	3.9	1.0	1.0
22	.35	.66	11	3.3	1210	180	395	96	23	3.6	.92	.92
23	.39	.84	8.3	3.0	964	170	420	87	22	3.4	.92	1.0
24	.38	.90	7.4	3.0	633	170	450	78	21	3.3	.92	1.0
25	.49	.67	7.4	3.0	511	170	480	71	20	3.1	.92	1.1
26	.38	.70	7.2	3.2	414	175	495	66	20	3.0	.92	1.1
27	.37	.71	6.9	3.4	329	180	480	60	19	3.0	.92	.92
28	.45	.81	5.9	2.8	273	185	495	53	19	2.9	.92	.92
29	.49	.68	7.0	3.0	---	185	475	50	18	2.8	.92	1.1
30	.50	.70	9.0	2.9	---	180	490	45	17	2.7	1.0	1.0
31	.47	---	11	2.5	---	180	---	40	---	2.6	1.0	---
TOTAL	12.49	17.01	128.82	124.6	8354.3	5684	12280	4979	763	216.3	37.36	28.96
MEAN	.40	.57	4.16	4.02	298	183	409	161	25.4	6.98	1.21	.97
MAX	.60	.90	15	7.7	1210	237	820	425	37	16	2.6	1.1
MIN	.31	.27	.64	2.5	2.0	133	160	40	17	2.6	.92	.92
AC-FT	25	34	256	247	16570	11270	24360	9880	1510	429	74	57
CAL YR 1981	TOTAL	438.23	MEAN	1.20	MAX	15	MIN	.27	AC-FT	869		
WTR YR 1982	TOTAL	32625.84	MEAN	89.4	MAX	1210	MIN	.27	AC-FT	64710		

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to October 1951, April 1952, November 1961 to current year.
 CHEMICAL ANALYSES, AND 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.

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

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, 3,700 colonies/100 mL Dec. 2, 1981; 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, 895 micromhos Nov. 8; minimum, 253 micromhos Feb. 22.
 WATER TEMPERATURES: Maximum, 27.0°C Aug. 22; minimum, freezing point Jan. 1, 4-23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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)
DEC 02...	1645	.72	713	8.3	7.0	10	13.4	128	K49	3700	130
JAN 12...	1315	3.6	547	7.6	.5	11	10.4	84	K10	K23	130
MAR 09...	1315	134	477	7.9	5.0	11	11.2	103	K2	K17	120
MAY 07...	1145	177	427	8.2	13.5	10	9.0	101	K7	K17	130
JUL 16...	1200	5.6	722	8.5	16.5	3.3	11.8	138	K6	K18	150
SEP 17...	1000	.93	678	8.4	10.0	2.0	11.1	117	K4	K9	110

K: NON-IDEAL COLONY COUNT.

BLACK ROCK DESERT

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
DEC 02...	37	9.5	97	3.9	8.3	180	100	51	1.5	54
JAN 12...	36	10	62	2.5	7.3	160	65	32	.9	48
MAR 09...	34	9.5	49	2.0	6.4	160	60	21	.9	42
MAY 07...	35	10	46	1.9	5.9	184	24	15	.9	47
JUL 16...	37	13	95	3.7	8.6	250	57	49	1.4	39
SEP 17...	32	8.2	100	4.3	8.2	191	85	42	1.6	51

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)	ARSENIC TOTAL (UG/L AS AS)
DEC 02...	461	468	.90	<.10	.120	.87	.160	.110	.110	16
JAN 12...	359	357	3.5	.16	.120	.76	--	.100	.140	--
MAR 09...	303	319	110	<.10	.090	.83	.150	.110	.160	17
MAY 07...	287	295	137	<.10	.100	1.90	.110	.100	.090	13
JUL 16...	445	450	6.7	<.10	.100	1.20	.220	.140	.060	--
SEP 17...	430	443	1.1	<.10	.080	1.10	.100	.070	.070	16

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
DEC 02...	14	100	<100	<1	<1	<10	<10	1	3	7
JAN 12...	--	--	--	--	--	--	--	--	--	--
MAR 09...	17	<100	<100	<1	3	10	<10	1	1	15
MAY 07...	12	<100	<100	<1	<1	<10	<10	<1	<1	7
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 17...	16	<100	<100	<1	<1	<10	<10	<1	<1	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
DEC 02...	<1	740	10	<1	<1	370	360	.1	<.1	1
JAN 12...	--	--	--	--	--	--	--	--	--	--
MAR 09...	3	170	160	3	2	10	12	2.3	1.8	2
MAY 07...	3	960	90	1	3	40	16	.6	.7	2
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 17...	2	290	20	4	<1	80	25	.2	.1	3

BLACK ROCK DESERT

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10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	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
DEC 02...	1	<1	<1	<1	<1	20	<10	23	.04	--
JAN 12...	--	--	--	--	--	--	--	27	.26	98
MAR 09...	2	<1	<1	<1	<1	40	12	75	27	84
MAY 07...	1	<1	<1	1	<1	20	12	39	19	79
JUL 16...	--	--	--	--	--	--	--	19	.29	75
SEP 17...	1	1	1	<1	<1	39	<10	7	.02	--

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	7.5	11.5	5.0	5.5	2.5	1.5	.0	2.0	.5	7.5	5.0
2	14.0	8.0	12.0	5.5	8.0	4.0	.5	.5	2.0	.5	8.5	4.0
3	13.0	10.0	11.5	5.5	8.0	3.5	.5	.5	2.5	.5	7.5	4.5
4	13.0	7.0	11.0	5.0	6.0	3.0	.5	.0	1.0	.5	7.5	3.5
5	13.5	5.0	11.5	6.5	5.5	2.5	1.0	.0	.5	.5	10.0	2.5
6	13.0	6.5	9.0	6.0	6.5	3.0	.5	.0	2.5	.5	9.5	3.0
7	13.0	9.5	11.0	5.0	9.5	5.5	.0	.0	1.0	.5	9.5	3.5
8	11.5	7.5	10.5	5.0	8.0	3.5	.5	.0	1.0	.5	10.5	6.0
9	14.0	8.5	9.5	4.5	6.0	3.0	.5	.0	1.0	.5	10.0	5.5
10	12.0	10.0	9.0	4.5	6.5	3.0	.5	.0	1.0	.5	9.5	6.0
11	10.5	8.0	9.5	5.0	4.5	2.0	.5	.0	2.0	.5	9.0	6.0
12	9.5	7.0	8.5	7.0	3.0	1.5	1.5	.0	3.5	.5	8.5	3.0
13	11.5	7.0	9.5	8.0	6.0	3.0	2.0	.0	2.5	1.0	10.0	3.5
14	10.0	5.5	9.0	6.5	6.0	4.5	2.0	.0	2.5	1.0	9.0	9.0
15	12.0	5.0	9.5	6.0	6.5	3.5	2.0	.0	2.0	1.0	---	---
16	13.0	5.0	11.5	8.5	5.0	1.5	2.5	.0	6.5	1.0	---	---
17	14.0	6.0	10.5	7.0	4.0	1.0	2.0	.0	5.5	2.5	---	---
18	15.0	6.5	9.0	5.0	3.0	2.0	2.5	.0	5.5	2.5	---	---
19	15.0	6.5	7.0	4.5	6.5	3.5	2.0	.0	8.5	4.0	---	---
20	14.5	6.0	7.5	5.0	7.0	5.5	1.0	.0	10.5	4.5	---	---
21	13.5	6.5	8.0	6.5	5.5	2.5	1.0	.0	9.0	7.0	---	---
22	13.0	5.0	8.5	7.0	2.5	1.0	1.0	.0	8.5	5.0	---	---
23	12.5	5.0	8.0	7.5	1.5	1.0	1.5	.0	6.0	2.5	---	---
24	13.0	6.0	7.5	5.0	1.5	.5	3.0	.5	6.5	2.0	---	---
25	12.5	5.0	6.5	3.5	2.5	1.0	4.0	.5	7.0	2.0	---	---
26	12.0	7.0	4.5	2.5	2.0	.5	3.5	.5	7.0	3.0	---	---
27	12.0	6.0	5.0	3.0	2.0	.5	2.5	.5	9.5	3.5	---	---
28	9.5	7.0	3.5	2.0	1.0	.5	2.0	.5	8.5	3.0	---	---
29	8.5	5.5	3.0	1.5	2.0	.5	3.5	.5	---	---	---	---
30	10.0	4.5	4.5	2.0	2.0	.5	3.5	.5	---	---	---	---
31	11.0	4.5	---	---	.5	.5	4.0	.5	---	---	---	---
MONTH	16.5	4.5	12.0	1.5	9.5	.5	4.0	.0	10.5	.5	10.5	2.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	18.0	15.0			---	---	23.0	13.5
2			---	---	20.5	13.5			---	---	24.0	16.0
3			---	---		---			---	---	20.5	16.0
4			---	---		---			---	---	22.5	13.5
5			---	---		---			---	---	22.0	14.0
6			---	---		---			---	---	20.0	14.5
7			19.5	13.5		---			---	---	22.5	13.0
8			17.0	11.0		---			---	---	22.5	14.5
9			13.0	9.0		---			---	---	21.5	14.0
10			11.5	8.5		---			---	---	19.0	13.5
11			15.0	8.0		---			23.0	15.5	17.5	9.0
12			16.5	10.0		---			24.0	13.0	15.5	13.5
13			19.0	11.0		---			24.0	14.5	17.0	10.5
14			17.0	13.0		---			24.0	14.5	17.5	10.0
15			19.5	13.0		---			22.0	14.5	12.0	10.0
16			20.0	13.0		---			23.0	13.5	16.0	9.5
17			19.0	15.0		---			24.0	15.0	13.5	10.5
18			17.0	12.0		---			20.0	16.0	16.0	12.0
19			18.5	11.5		---			25.5	14.0	15.5	12.0
20			19.5	13.0		---			26.5	17.0	17.5	9.0
21			19.5	15.0		---			26.5	18.0	19.0	10.5
22			20.0	15.0		---			27.0	18.5	19.5	11.5
23			19.5	15.0		---			23.5	17.5	19.5	11.5
24			19.0	14.0		---			24.5	15.5	17.5	14.5
25			21.5	15.0		---			23.0	16.5	16.0	12.5
26			21.0	17.0		---			23.5	16.0	17.0	13.0
27			18.5	13.5		---			21.0	15.0	13.5	11.0
28			18.0	12.0		---			21.0	15.0	15.5	10.0
29			18.0	12.5		---			21.0	16.5	11.0	8.0
30			19.5	12.5		---			22.5	14.0	11.5	6.0
31			20.5	14.0		---			22.0	13.5	---	---
MONTH			21.5	8.0	20.5	13.5			27.0	13.0	24.0	6.0
YEAR	27.0	.0										

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	793	741	872	833	743	727	398	381	537	527	448	433
2	778	749	877	838	736	---	410	399	533	527	453	447
3	763	753	878	839	699	680	423	410	534	524	452	447
4	769	743	879	843	703	689	446	425	532	529	451	446
5	769	729	877	847	707	696	459	447	532	529	455	442
6	758	726	882	865	711	697	471	459	537	531	459	448
7	742	726	893	855	711	694	495	472	544	538	461	452
8	743	720	895	856	724	704	517	496	549	544	465	448
9	732	708	893	851	714	701	533	518	553	549	460	434
10	724	715	886	847	712	695	548	535	560	553	459	451
11	723	713	869	831	723	711	558	549	566	559	459	453
12	717	699	847	830	728	720	560	536	566	553	461	439
13	713	693	830	812	723	713	573	549	566	555	446	436
14	722	698	819	805	716	676	585	571	562	556	437	437
15	726	693	811	784	673	624	584	572	559	545	---	---
16	732	694	787	763	623	587	585	573	542	371	---	---
17	734	694	783	762	596	557	584	573	378	304	---	---
18	732	694	788	759	554	527	578	563	397	333	---	---
19	732	693	782	763	526	508	568	550	408	392	---	---
20	733	695	770	752	507	487	554	541	397	359	---	---
21	731	702	756	746	487	458	543	536	397	375	---	---
22	742	706	749	739	457	418	540	536	377	253	---	---
23	746	713	748	744	419	401	543	536	300	262	---	---
24	752	720	765	747	400	386	543	533	353	301	---	---
25	762	730	769	744	386	375	549	532	395	347	---	---
26	776	749	764	748	380	372	554	538	399	381	---	---
27	792	766	758	741	375	366	554	543	417	399	---	---
28	817	791	759	745	374	370	552	545	431	419	---	---
29	831	813	755	741	375	371	549	534	---	---	---	---
30	846	815	749	731	376	369	544	529	---	---	---	---
31	859	823	---	---	381	373	539	524	---	---	---	---
MONTH	859	693	895	731	743	366	585	381	566	253	465	433
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	580	571			---	---	698	692
2			---	---	586	572			---	---	700	695
3			---	---	---	---			---	---	698	690
4			---	---	---	---			---	---	698	692
5			---	---	---	---			---	---	702	694
6			---	---	---	---			---	---	697	692
7			447	430	---	---			---	---	699	693
8			454	431	---	---			---	---	700	696
9			465	454	---	---			---	---	699	695
10			465	459	---	---			---	---	703	692
11			471	452	---	---			680	672	703	695
12			475	455	---	---			677	673	701	681
13			489	464	---	---			678	672	703	689
14			504	476	---	---			680	677	700	687
15			508	492	---	---			681	676	700	689
16			516	494	---	---			685	678	698	690
17			530	496	---	---			690	679	694	690
18			533	514	---	---			691	672	648	640
19			529	507	---	---			693	666	643	615
20			531	508	---	---			697	675	640	627
21			533	509	---	---			697	683	645	639
22			538	522	---	---			697	673	647	643
23			541	523	---	---			697	691	649	644
24			546	532	---	---			698	691	648	637
25			546	534	---	---			697	692	645	634
26			554	535	---	---			696	692	645	639
27			585	555	---	---			696	690	643	640
28			573	564	---	---			695	688	644	638
29			582	567	---	---			695	686	639	633
30			582	567	---	---			693	687	643	634
31			580	565	---	---			694	688	---	---
MONTH			585	430	586	571			698	666	703	615
YEAR	895	253										

BLACK ROCK DESERT

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW¼SE¼ sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank 2.8 mi (4.5 km) downstream from Little Creek, 5 mi (8.0 km) upstream from Kings River Ranch, and 36 mi (57.9 km) northwest of Orovada.

DRAINAGE AREA.--20.5 mi² (53.1 km²).

PERIOD OF RECORD.--October 1962 to September 1968, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (1,430 m) from topographic map.

REMARKS.--Records good except those for winter months and period of no gage height record June 6 to July 13, 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.--12 years (1962-68, 1978-82), 4.96 ft³/s (0.140 m³/s), 3,590 acre-ft/yr (4.43 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft³/s (21.8 m³/s) Feb. 1, 1963, gage height 4.00 ft (1.219 m) from rating curve extended above 24 ft³/s (0.680 m³/s) on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 39 ft³/s (1.10 m³/s) Apr. 24, minimum 0.58 ft³/s (0.016 m³/s) Aug. 24, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.1	2.9	6.0	3.3	17	14	34	12	7.2	1.1	1.0
2	1.2	2.0	2.9	5.0	3.2	17	13	34	13	7.8	1.2	.97
3	1.5	2.0	2.9	4.0	3.0	16	12	31	12	6.6	1.2	.89
4	1.5	1.9	2.7	4.7	2.7	15	12	30	12	6.2	1.1	1.0
5	1.5	2.0	2.7	4.0	2.1	14	12	30	11	5.7	1.1	1.0
6	1.4	2.0	2.7	3.2	2.6	13	11	29	11	5.2	1.0	.97
7	1.5	1.9	3.0	2.2	3.0	12	13	29	10	4.8	.97	.97
8	1.5	1.9	2.8	2.4	3.2	12	12	28	9.0	4.5	1.0	.89
9	1.6	1.9	3.0	2.8	3.2	12	11	25	9.0	4.1	1.1	.89
10	2.1	1.9	2.7	3.2	3.0	13	11	23	8.4	3.7	1.0	.97
11	2.5	2.0	2.7	3.3	3.0	14	19	22	8.3	3.5	1.0	1.2
12	2.0	2.9	2.8	3.4	2.7	17	30	20	8.8	3.3	1.1	1.5
13	2.1	4.0	2.8	3.5	2.7	16	35	19	10	3.1	1.0	1.7
14	1.9	4.9	3.0	3.0	3.8	16	36	19	11	2.9	.97	1.6
15	1.7	3.0	4.0	2.9	11	16	33	18	10	2.7	.97	2.0
16	1.9	3.0	3.0	2.9	31	15	31	19	10	2.5	.97	2.1
17	1.9	2.9	3.3	3.0	17	15	32	19	9.8	2.4	.89	1.8
18	1.7	2.4	3.4	3.0	15	15	31	21	9.6	2.1	.89	1.6
19	1.7	2.2	8.1	3.3	20	14	29	21	9.4	2.0	1.1	2.5
20	1.6	2.7	9.6	2.9	23	13	25	21	8.8	1.9	.97	2.3
21	1.6	2.5	7.8	2.9	29	12	23	21	8.4	1.6	.89	1.7
22	1.6	3.0	7.8	2.7	31	12	24	22	8.0	1.6	.82	1.5
23	1.6	4.4	7.5	2.9	27	11	31	24	7.3	1.6	.82	1.4
24	1.6	5.9	5.9	3.2	23	12	39	23	7.1	1.7	.75	1.8
25	1.7	4.0	5.9	3.2	20	14	37	27	6.8	1.6	.82	2.6
26	1.7	3.4	7.5	3.2	20	14	35	25	6.2	1.4	.82	3.2
27	1.7	3.0	5.7	3.8	18	15	33	22	5.8	1.9	.82	2.2
28	2.0	2.7	5.6	3.2	17	15	31	18	5.8	1.9	.89	2.3
29	2.1	2.5	5.7	3.5	---	15	29	15	8.0	1.6	1.2	2.6
30	2.0	2.7	4.9	3.3	---	16	32	14	7.0	1.4	1.2	2.4
31	2.0	---	5.7	3.5	---	16	---	12	---	1.2	1.0	---
TOTAL	53.6	83.7	141.0	104.1	343.5	444	736	715	273.5	99.7	30.66	49.55
MEAN	1.73	2.79	4.55	3.36	12.3	14.3	24.5	23.1	9.12	3.22	.99	1.65
MAX	2.5	5.9	9.6	6.0	31	17	39	34	13	7.8	1.2	3.2
MIN	1.2	1.9	2.7	2.2	2.1	11	11	12	5.8	1.2	.75	.89
AC-FT	106	166	280	206	681	881	1460	1420	542	198	61	98

CAL YR 1981 TOTAL 1355.42 MEAN 3.71 MAX 21 MIN .49 AC-FT 2690
WTR YR 1982 TOTAL 3074.31 MEAN 8.42 MAX 39 MIN .75 AC-FT 6100

HUALAPAI FLAT

295

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 (50 m) east of State Highway 34 and 25 mi (40 km) north of Gerlach.

DRAINAGE AREA.--31 mi² (80 km²), approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft (0.305 m) lower.

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

AVERAGE DISCHARGE.--9 years (1974-82) 0.52 ft³/s (0.0147 m³/s), 377 acre-ft/yr (464,800 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft³/s (11.3 m³/s), Feb. 18, 1980, gage height, 3.98 ft (1.213 m), from rating curve extended above 50 ft³/s (1.42 m³/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 (2.87 m), present datum, from floodmarks, estimated discharge, 3,100 ft³/s (8.78 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s (1.50 m³/s) Feb. 16, gage height, 1.61 ft (0.491 m); no flow Oct. 1 to Nov. 22, June 17 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.07	.19	.16	.32	.12	.23	.04	.00	.00	.00
2	.00	.00	.09	.21	.12	.37	.11	.23	.04	.00	.00	.00
3	.00	.00	.15	.26	.15	.29	.16	.22	.04	.00	.00	.00
4	.00	.00	.15	.24	.15	.19	.13	.18	.04	.00	.00	.00
5	.00	.00	.15	.18	.15	.13	.16	.18	.04	.00	.00	.00
6	.00	.00	.15	.08	.18	.12	.13	.18	.03	.00	.00	.00
7	.00	.00	.12	.10	.20	.14	.10	.18	.03	.00	.00	.00
8	.00	.00	.12	.14	.20	.13	.11	.20	.03	.00	.00	.00
9	.00	.00	.12	.16	.20	.12	.07	.22	.02	.00	.00	.00
10	.00	.00	.12	.20	.20	.40	.09	.25	.02	.00	.00	.00
11	.00	.00	.12	.22	.20	.39	5.1	.24	.02	.00	.00	.00
12	.00	.00	.12	.23	.20	.26	2.3	.23	.02	.00	.00	.00
13	.00	.00	.12	.24	.25	.23	.99	.23	.02	.00	.00	.00
14	.00	.00	.12	.27	12	.56	1.0	.24	.02	.00	.00	.00
15	.00	.00	.15	.28	8.5	.45	.97	.24	.02	.00	.00	.00
16	.00	.00	.20	.33	14	.44	.51	.18	.01	.00	.00	.00
17	.00	.00	.20	.36	4.6	.48	.28	.17	.00	.00	.00	.00
18	.00	.00	.26	.28	2.5	.78	.12	.19	.00	.00	.00	.00
19	.00	.00	.32	.26	3.1	.67	.10	.17	.00	.00	.00	.00
20	.00	.00	12	.26	3.5	.36	.11	.15	.00	.00	.00	.00
21	.00	.00	1.5	.25	2.5	.25	.08	.12	.00	.00	.00	.00
22	.00	.00	.41	.24	1.7	.20	.11	.09	.00	.00	.00	.00
23	.00	1.7	.15	.27	.54	.15	.13	.08	.00	.00	.00	.00
24	.00	8.1	.12	.25	.35	.14	.13	.07	.00	.00	.00	.00
25	.00	.12	.12	.31	.34	.16	.12	.06	.00	.00	.00	.00
26	.00	.05	.12	.28	.43	.18	.14	.06	.00	.00	.00	.00
27	.00	.05	.17	.22	.34	.14	.15	.05	.00	.00	.00	.00
28	.00	.05	.18	.20	.34	.13	.20	.04	.00	.00	.00	.00
29	.00	.05	.24	.18	---	.13	.23	.04	.00	.00	.00	.00
30	.00	.07	.24	.20	---	.07	.23	.04	.00	.00	.00	.00
31	.00	---	.25	.21	---	.12	---	.04	---	.00	.00	---
TOTAL	.00	10.19	18.35	7.10	57.10	8.50	14.18	4.80	.44	.00	.00	.00
MEAN	.000	.34	.59	.23	2.04	.27	.47	.15	.015	.000	.000	.000
MAX	.00	8.1	12	.36	14	.78	5.1	.25	.04	.00	.00	.00
MIN	.00	.00	.07	.08	.12	.07	.07	.04	.00	.00	.00	.00
AC-FT	.00	20	36	14	113	17	28	9.5	.9	.00	.00	.00

CAL YR 1981 TOTAL 72.06 MEAN .20 MAX 12 MIN .00 AC-FT 143
WTR YR 1982 TOTAL 120.66 MEAN .33 MAX 14 MIN .00 AC-FT 239

SNAKE RIVER BASIN

GOOSE CREEK BASIN

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi (0.3 km) upstream from maximum flow line of Oakley Reservoir, 5 mi (8 km) upstream from Trapper Creek, 5 mi (8 km) south of Oakley Dam, and 9 mi (14.5 km) southwest of Oakley, and at river mile 35.1 (km 56.5).

DRAINAGE AREA.--633 mi² (1,640 km²). Mean altitude, 6,030 ft (1,840 m).

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 (1,454 m) by barometer. Prior to Aug. 29, 1912, at site 200 ft (61.0 m) downstream at different datum.

REMARKS.--Records good. Deeded water rights are reported to apply to about 2,700 acres (1,090 hm²) 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.--68 years, 46.8 ft³/s (1.32 m³/s), 33,910 acre-ft/yr (41.80 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) Feb. 11, 1962, gage height, 9.3 ft (2.83 m), from rating curve extended above 200 ft³/s (5.66 m³/s) on basis of slope-area measurement of peak flow; no flow July 22 to Aug. 10, 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, 681 ft³/s (19.3 m³/s) Feb. 17, gage height, 5.30 ft (1.616 m); maximum gage height, 6.00 ft (1.829 m) Feb. 17 (ice jam); minimum 4.8 ft³/s (0.136 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	19	30	32	26	93	81	207	150	32	24	9.8
2	5.1	19	29	25	27	96	78	204	150	31	22	9.1
3	5.3	19	29	22	27	102	77	219	146	31	18	8.8
4	6.2	20	31	23	20	81	75	242	130	35	16	8.2
5	7.9	19	27	21	16	72	73	269	119	46	15	9.5
6	8.5	19	33	19	15	64	72	290	115	41	14	9.5
7	9.5	19	31	17	16	63	69	270	100	43	13	9.8
8	11	19	29	18	17	62	65	253	100	41	13	9.8
9	12	19	28	21	19	63	64	255	93	38	13	9.8
10	12	19	28	21	19	64	66	255	84	39	13	9.8
11	13	19	26	22	19	65	77	253	78	35	12	10
12	16	19	23	22	19	65	95	240	72	29	12	11
13	17	21	27	24	21	62	118	214	66	26	11	14
14	18	21	29	25	32	66	139	194	73	26	12	15
15	18	22	34	25	83	73	139	184	85	24	13	18
16	17	21	37	26	159	79	139	201	72	22	13	24
17	16	21	29	27	519	76	136	211	66	22	12	24
18	15	22	26	27	376	73	129	240	61	20	12	22
19	15	20	33	26	255	76	121	272	56	18	11	22
20	15	20	34	25	172	72	115	272	54	22	11	33
21	14	21	48	26	164	67	112	251	48	19	11	28
22	14	24	43	26	175	64	110	231	51	19	9.8	24
23	15	26	28	27	132	64	110	221	51	22	8.5	21
24	16	31	29	30	92	67	107	211	53	24	8.2	19
25	16	35	29	30	81	70	125	201	54	43	7.9	21
26	17	31	26	32	80	72	153	197	58	40	7.9	35
27	17	25	24	29	91	74	169	189	49	35	7.6	39
28	17	23	19	28	79	77	178	191	41	33	8.8	36
29	19	27	23	28	---	94	199	184	35	33	13	30
30	19	28	38	29	---	87	211	173	34	30	14	29
31	21	---	29	29	---	85	---	161	---	28	12	---
TOTAL	427.4	668	928	782	2740	2278	3402	6955	2344	947	388.7	569.1
MEAN	13.8	22.3	29.9	25.2	97.9	73.5	113	224	78.1	30.5	12.5	19.0
MAX	21	35	48	32	519	102	211	290	150	46	24	39
MIN	4.9	19	19	17	15	62	64	161	34	18	7.6	8.2
AC-FT	848	1320	1940	1550	5430	4520	6750	13800	4650	1880	771	1130

CAL YR 1981 TOTAL 8277.7 MEAN 22.7 MAX 94 MIN 1.0 AC-FT 16420
WTR YR 1982 TOTAL 22429.2 MEAN 61.4 MAX 519 MIN 4.9 AC-FT 44490

SALMON FALLS CREEK BASIN

297

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 (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately. Mean altitude, 6,350 ft (1,935 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

REVISED RECORDS.--WSP 1934: 1943 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m), by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft (11 m) upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 hm²) 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi (24 km) downstream (see station 13106500).

AVERAGE DISCHARGE.--70 years (1911-16, 1919-82), 140 ft³/s (3.964 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,430 ft³/s (68.8 m³/s) May 18, 1975, gage height, 10.83 ft (3.301 m); maximum gage height, 12.65 ft (3.856 m) Feb. 12, 1962; minimum discharge, 2.6 ft³/s (0.074 m³/s) Sept. 4, 1961, gage height, 3.37 ft (1.027 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) May 5, gage height, 8.46 ft (2.579 m) minimum discharge, 22 ft³/s (0.623 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	50	50	68	56	168	238	723	498	236	57	35
2	37	50	52	51	67	176	232	757	509	217	50	32
3	38	50	53	44	67	187	213	867	509	217	49	34
4	39	50	53	41	51	180	217	962	481	217	47	37
5	40	50	52	55	37	163	211	1010	467	219	44	38
6	41	50	51	44	31	153	195	913	467	199	44	37
7	43	49	52	34	40	143	195	771	433	176	45	37
8	44	48	52	37	50	142	180	710	386	169	45	38
9	43	48	52	45	50	143	171	723	352	168	45	38
10	43	48	52	50	49	147	166	720	340	153	41	38
11	44	49	51	53	47	163	197	686	350	148	38	38
12	45	49	51	54	48	178	394	601	373	139	36	40
13	47	50	53	57	54	180	611	495	394	130	35	44
14	47	50	56	54	78	193	601	453	439	130	39	46
15	47	50	60	59	91	223	659	456	425	125	37	50
16	45	50	62	62	148	221	633	501	442	114	37	53
17	44	50	54	64	249	203	551	582	447	104	37	56
18	44	49	50	64	187	207	495	703	439	93	40	53
19	44	49	60	60	166	193	458	845	408	88	44	53
20	47	48	68	53	178	175	422	771	397	81	44	57
21	46	50	92	57	227	166	397	636	360	78	40	60
22	45	52	84	55	278	158	376	611	378	81	37	56
23	45	57	55	52	278	155	394	649	394	77	33	52
24	46	64	56	59	242	155	458	689	416	77	28	53
25	47	65	69	67	211	163	551	672	414	78	26	57
26	46	53	60	73	199	184	620	676	389	76	25	74
27	46	51	64	70	182	209	662	706	330	68	22	105
28	48	48	40	64	163	234	706	740	293	72	23	87
29	48	47	56	62	---	271	771	727	267	74	26	77
30	49	50	76	64	---	264	768	646	256	67	32	80
31	49	---	59	63	---	240	---	557	---	63	39	---
TOTAL	1374	1524	1795	1735	3524	5737	12742	21558	12053	3934	1185	1555
MEAN	44.3	50.8	57.9	56.0	126	185	425	695	402	127	38.2	51.8
MAX	49	65	92	73	278	271	771	1010	509	236	57	105
MIN	37	47	40	34	31	142	166	453	256	63	22	32
AC-FT	2730	3020	3560	3440	6990	11380	25270	42760	23910	7800	2350	3080
CAL YR 1981	TOTAL	22139	MEAN	60.7	MAX	239	MIN	10	AC-FT	43910		
WTR YR 1982	TOTAL	68716	MEAN	188	MAX	1010	MIN	22	AC-FT	136300		

SALMON FALLS CREEK BASIN

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1953 to September 1962, October 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD (MG/L AS HCO3)
NOV 05...	1335	51	278	--	9.5	--	--	--	--	--
DEC 18...	1200	32	--	--	3.5	--	--	--	--	--
JAN 05...	1200	80	--	--	1.5	--	--	--	--	--
FEB 16...	1530	145	174	--	3.5	--	--	--	--	--
MAR 18...	1115	209	139	--	5.0	--	--	--	--	--
APR 23...	1120	378	122	--	11.0	--	--	--	--	--
MAY 05...	1407	1010	122	--	12.0	--	--	--	--	--
JUN 21...	1430	363	145	8.7	20.0	17	3.5	7.1	4.0	81
AUG 02...	1130	52	284	--	17.0	--	--	--	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

SALMON FALLS CREEK BASIN

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 (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) 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 (225 hm³) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 hm³). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures 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 (205 hm³) June 24, 1975 gage height, 75.00 ft (22.860 m); minimum observed, 125 acre-ft (0.154 hm³) Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft (0.03 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 81,600 acre-ft (101 hm³) June 9, gage height, 45.05 ft (13.731 m); minimum observed, 7,430 acre-ft (9.16 hm³) Oct. 1, gage height, 5.60 ft (1.707 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

4.0	5,200	16.0	23,200	40.0	69,800
8.0	10,900	20.0	30,000	50.0	93,000
12.0	16,800	30.0	48,800	60.0	120,600

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7430	9390	11600	14400	17000	24000	34300	56800	80400	79400	57700	34400
2	---	9460	11600	14600	17200	24400	34700	58200	80500	78900	56800	33900
3	---	9530	11700	14600	17200	24700	35000	59500	80700	78500	55900	33500
4	7500	9600	11800	14700	17300	25200	35600	60900	80800	78100	55000	32900
5	7580	9680	11900	14800	17500	25600	36000	62600	81100	77800	54200	32300
6	---	9750	11900	14800	---	25900	36300	64200	81200	77400	53400	31900
7	7650	9820	12100	14900	---	26200	36700	65800	81300	77100	52700	31400
8	7860	9900	12100	15000	---	26400	37000	67300	81400	76800	52000	30900
9	7940	9970	12200	15100	17600	26700	37300	68800	81600	76300	51200	30400
10	8010	10000	12300	---	---	26900	37700	70100	81400	75800	50300	29900
11	8080	10100	12400	---	17600	27200	38000	71200	81300	75400	49500	---
12	8160	10200	12400	15200	17700	27500	38300	71800	81200	74900	48700	---
13	8230	10300	12500	15200	17800	27800	38900	72400	81100	74200	47900	---
14	8300	10300	12600	15300	17800	28200	39800	73100	81000	73500	47000	---
15	8370	10400	12600	15400	18100	28600	41100	73200	81000	72700	46200	29700
16	8440	10500	12800	15400	18400	29000	42400	73500	80800	71900	45400	29800
17	8520	10500	12800	15500	18800	29300	43500	73900	80800	71100	44500	---
18	---	10600	12900	15600	19300	29700	44700	74100	80700	70300	43600	29900
19	8590	10700	13100	15800	19800	30100	45400	74600	80700	69400	42800	30000
20	8660	10800	13200	---	20100	30400	46200	75100	80600	68500	42100	---
21	---	10900	13400	15900	20500	30800	47000	75800	80400	67400	41400	30100
22	8740	10900	13500	16000	21000	30900	47800	76400	80400	66500	40800	30200
23	8810	11100	13600	16000	21500	31200	48300	76800	80200	65500	40100	30300
24	8880	11100	13700	16100	22000	31400	49200	77100	80200	64600	39500	---
25	8950	11200	13700	16200	22500	31700	49900	77700	80200	63700	38800	30300
26	9020	11300	13900	16400	22900	32000	50800	78200	80400	62800	38200	30500
27	---	11300	14000	16600	23400	32200	51900	78600	80400	62000	37500	30600
28	9100	11300	14000	16700	23700	32500	53100	78900	80200	61100	36900	30700
29	9170	11400	14100	16800	---	33000	54200	79400	80000	60200	36200	30800
30	9240	11500	14200	16900	---	33500	55400	79900	79800	59400	35600	30800
31	9320	---	14200	17000	---	33800	---	80200	---	58500	34900	---
MAX	9320	11500	14200	17000	23700	33800	55400	80200	81600	79400	57700	34400
MIN	7430	9390	11600	14400	17000	24000	34300	56800	79800	78500	54900	29700
+	6.90	8.40	10.30	12.10	16.30	22.15	33.30	44.50	44.30	34.80	22.75	20.50
±	+1920	+2180	+2700	+2800	+6700	+10100	+21600	+24800	-400	+21300	-23600	-4100

CAL YR 1981 ± -41900
WTR YR 1982 ± +23400

+ Altitude, in feet, at end of month.
± Change in contents, in acre-feet.

BRUNEAU RIVER BASIN

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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 (3 km) upstream from McDonald Creek and 0.5 mi (0.8 km) south of Rowland.

DRAINAGE AREA.--382 mi² (989 km²). Area at crest-stage site, 380 mi² (984 km²).

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good. Minor diversions for irrigation above station. Monthly measurements of specific conductance and water temperature "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--21 years, 117 ft³/s (3.313 m³/s), 84,770 acre-ft/yr (105 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s (60.0 m³/s) Feb. 11, 1962, gage height, 13.0 ft (3.96 m) site and datum then in use; minimum daily, 2.5 ft³/s (0.07 m³/s) Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.60 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 21	2300	290 8.21	4.37 1.332	Apr. 13	0300	*1,140 32.3	7.36 2.243
Mar. 28	1900	273 7.73	4.28 1.305	June 14	0300	401 11.4	4.89 1.490

Minimum discharge, 6.0 ft³/s (0.17 m³/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	12	26	52	33	143	207	800	371	190	38	17
2	6.4	12	22	41	40	164	190	900	356	175	35	16
3	6.8	13	21	44	37	160	186	970	343	173	33	15
4	7.1	13	21	54	28	153	186	860	335	182	31	14
5	7.5	13	19	54	17	143	166	750	326	175	29	13
6	6.8	13	21	40	19	129	173	660	312	153	28	13
7	6.4	12	22	27	23	129	155	650	285	142	27	12
8	6.8	14	22	19	33	134	145	620	262	143	26	12
9	7.1	14	21	20	38	130	143	560	257	134	26	12
10	7.1	13	23	20	40	137	148	530	242	127	25	11
11	8.3	13	23	61	44	153	316	480	240	121	21	12
12	9.7	12	19	64	53	164	891	440	255	109	21	14
13	10	15	24	64	64	166	940	420	294	104	20	22
14	9.7	18	24	56	75	190	900	420	333	91	19	23
15	9.7	18	50	57	95	188	880	440	296	87	18	22
16	9.7	18	40	51	203	180	770	500	292	82	16	24
17	9.7	18	24	50	193	169	560	580	294	75	16	23
18	9.7	18	28	46	153	164	550	700	283	72	16	20
19	9.7	18	47	42	160	153	530	620	273	66	16	22
20	9.6	17	143	38	186	142	500	560	257	62	16	28
21	9.6	18	150	42	244	135	420	540	251	58	18	27
22	9.6	26	106	42	281	129	470	610	248	53	16	22
23	9.6	32	73	43	233	127	540	650	248	49	15	20
24	10	51	70	48	193	130	600	640	233	54	13	19
25	10	41	66	54	175	137	620	660	244	64	12	22
26	11	23	61	42	164	159	650	690	225	53	12	80
27	11	23	52	41	155	195	700	664	211	53	12	58
28	11	19	39	37	138	248	760	568	201	54	12	44
29	12	30	61	44	---	242	720	489	197	53	16	44
30	12	24	65	36	---	221	710	422	186	47	21	46
31	12	---	46	42	---	205	---	377	---	42	21	---
TOTAL	282.4	581	1434	1371	3117	5019	14726	18770	8150	3043	645	727
MEAN	9.11	19.4	46.3	44.2	111	162	491	605	272	98.2	20.8	24.2
MAX	12	51	150	64	281	248	940	970	371	190	38	80
MIN	6.4	12	19	19	17	127	143	377	186	42	12	11
AC-FT	560	1150	2840	2720	6180	9960	29210	37230	16170	6040	1280	1440
CAL YR 1981 TOTAL	13631.0			37.3	MAX 157	MIN 2.5	AC-FT 27040					
WTR YR 1982 TOTAL	57865.4			MEAN 159	MAX 970	MIN 6.4	AC-FT 114800					

OWYHEE RIVER BASIN

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 (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--109 mi² (541 km²).

PERIOD OF RECORD.--March 1938 to current year. Monthend 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 (88.2 hm³) between altitudes 6,138.50 ft (1,871.015 m), sill of outlet gate, and 6,205 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed 77,780 acre-ft (95.9 hm³) May 18, 1975, altitude 6,207.0 ft (1,891.89 m); minimum observed, no contents at times in each year (1938-41), 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 74,340 acre-ft (91.7 hm³) May 19, altitude 6,205.92 ft (1,891.56 m); minimum observed, 20,760 acre-ft (25.6 hm³) Oct. 1, altitude 6,181.54 ft (1,844.13 m).

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

6,181	20,010	6,191	36,760
6,182	21,410	6,192	38,780
6,183	22,870	6,193	40,860
6,184	24,390	6,194	43,010
6,185	25,980	6,195	45,230
6,186	27,630	6,197	49,880
6,187	29,340	6,200	57,390
6,188	31,110	6,203	65,600
6,189	32,940	6,206	74,590
6,190	34,820		

MONTHEND ALTITUDES AND TOTAL CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Altitude (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	6,181.68	20,960	--
Oct. 31.	6,181.62	20,870	- 90
Nov. 30.	6,182.02	21,440	+ 570
Dec. 31.	6,183.26	23,260	+ 1,820
CAL YR 1981			-25,150
Jan. 31.	6,184.21	24,730	+ 1,470
Feb. 28.	6,187.13	29,570	+ 4,840
Mar. 31.	6,191.36	37,490	+ 7,920
Apr. 30.	6,202.66	64,640	+27,150
May 31.	6,205.63	73,450	+ 8,810
June 30.	6,205.24	72,240	- 1,210
July 31.	g	67,700	- 4,540
Aug. 31.	g	60,300	- 7,400
Sep. 30.	6,198.58	53,760	- 6,540
WTR YR 1981-82.	--	--	+32,800

g Interpolated.

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 (150 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

EXTREMES FOR CURRENT YEAR.--maximum discharge, 240 ft³/s (6.80 m³/s) May 19, gage height, 2.63 ft (0.802 m); minimum daily, 0.25 ft³/s (0.007 m³/s) Dec. 2 to May 8.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	1.6	.30	.25	.25	.25	.25	.25	128	99	100	120
2	50	1.8	.25	.25	.25	.25	.25	.25	120	101	101	123
3	37	1.9	.25	.25	.25	.25	.25	.25	113	106	101	128
4	37	2.1	.25	.25	.25	.25	.25	.25	107	99	103	154
5	38	2.1	.25	.25	.25	.25	.25	.25	103	93	104	140
6	38	2.1	.25	.25	.25	.25	.25	.25	104	88	106	130
7	38	2.1	.25	.25	.25	.25	.25	.25	101	84	109	125
8	37	2.0	.25	.25	.25	.25	.25	.25	96	81	123	125
9	37	2.0	.25	.25	.25	.25	.25	30	94	79	125	123
10	35	2.0	.25	.25	.25	.25	.25	68	88	77	125	109
11	34	2.1	.25	.25	.25	.25	.25	103	85	75	126	84
12	33	2.1	.25	.25	.25	.25	.25	123	110	75	130	84
13	22	2.1	.25	.25	.25	.25	.25	138	121	74	130	85
14	17	2.0	.25	.25	.25	.25	.25	151	131	74	130	84
15	10	2.0	.25	.25	.25	.25	.25	168	133	71	130	71
16	5.7	2.0	.25	.25	.25	.25	.25	174	133	71	130	59
17	5.4	2.0	.25	.25	.25	.25	.25	182	130	71	130	50
18	5.2	2.1	.25	.25	.25	.25	.25	215	126	71	130	38
19	5.0	2.0	.25	.25	.25	.25	.25	237	125	71	130	38
20	4.8	.65	.25	.25	.25	.25	.25	232	120	71	128	37
21	5.0	.60	.25	.25	.25	.25	.25	230	97	84	128	36
22	3.3	.60	.25	.25	.25	.25	.25	220	79	101	128	28
23	2.1	.55	.25	.25	.25	.25	.25	220	75	101	128	9.7
24	2.0	.50	.25	.25	.25	.25	.25	213	74	101	126	9.7
25	1.9	.50	.25	.25	.25	.25	.25	193	76	103	138	9.3
26	1.8	.45	.25	.25	.25	.25	.25	184	75	103	151	9.0
27	1.8	.40	.25	.25	.25	.25	.25	166	69	103	149	9.0
28	1.6	.40	.25	.25	.25	.25	.25	158	64	101	151	8.7
29	1.4	.35	.25	.25	---	.25	.25	149	59	100	149	8.7
30	1.4	.30	.25	.25	---	.25	.25	143	82	101	140	6.4
31	1.5	---	.25	.25	---	.25	---	135	---	100	121	---
TOTAL	687.9	43.40	7.80	7.75	7.00	7.75	7.50	3834.00	3018	2729	3900	2041.5
MEAN	22.2	1.45	.25	.25	.25	.25	.25	124	101	88.0	126	68.1
MAX	175	2.1	.30	.25	.25	.25	.25	237	133	106	151	154
MIN	1.4	.30	.25	.25	.25	.25	.25	59	71	71	100	6.4
AC-FT	1360	86	15	15	14	15	15	7600	5990	5410	7740	4050
CAL YR 1981	TOTAL	15314.45	MEAN	42.0	MAX	175	MIN	1.03	AC-FT	30380		
WTR YR 1982	TOTAL	16291.60	MEAN	44.6	MAX	237	MIN	.25	AC-FT	32310		

OWYHEE RIVER BASIN

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW 1/4 sec. 6, T. 46 N., R. 53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft (300 m) downstream from Skull Creek, 1 mi (2 km) upstream from China diversion dam, and 2 mi (3 km) southeast of Owyhee.

DRAINAGE AREA.--458 mi² (1,186 km²).

PERIOD OF RECORD.--March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft (1,654 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1939, at datum 1.48 ft (0.451 m) higher.

REMARKS.--Records fair except for period of no gage-height record, Dec. 28 to Feb. 14, which are poor. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--43 years, 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (129 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft³/s (79.0 m³/s) about May 18, 1975, gage height, 10.84 ft (3.304 m), from inside high-water marks; minimum, 1.8 ft³/s (0.051 m³/s) Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,120 ft³/s (31.7 m³/s) Feb. 17, gage height, 8.77 ft (2.673 m), minimum daily, 16 ft³/s (0.45 m³/s) Oct. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	18	27	81	38	228	251	769	387	181	142	114
2	96	18	29	75	44	291	215	850	364	183	140	114
3	56	18	27	56	44	266	213	935	335	185	140	115
4	48	18	25	78	32	238	227	941	320	191	139	118
5	46	18	30	75	23	215	194	822	316	195	139	121
6	45	17	27	52	27	195	212	721	317	175	130	128
7	46	17	25	27	35	198	191	693	286	159	123	130
8	48	17	25	28	38	195	186	669	256	177	136	132
9	46	17	25	40	38	197	190	632	236	168	146	127
10	48	17	24	52	36	204	195	591	224	155	137	130
11	54	17	23	54	35	225	450	562	216	144	135	102
12	54	17	23	56	38	274	933	538	213	137	137	95
13	52	19	25	54	38	238	770	516	216	131	120	101
14	39	20	26	52	83	260	710	528	264	132	118	101
15	34	19	57	49	237	306	725	593	247	126	115	105
16	29	19	63	52	848	263	602	618	234	125	112	91
17	21	18	47	55	1040	238	528	649	224	122	108	82
18	20	20	52	54	553	232	505	785	217	121	103	69
19	19	19	180	50	430	225	442	793	210	116	102	62
20	18	19	508	39	538	207	402	727	200	112	110	63
21	18	21	348	54	721	198	381	685	199	114	108	59
22	20	27	196	47	869	195	396	676	196	136	107	57
23	18	39	180	47	593	190	463	693	207	146	108	51
24	17	96	171	47	422	190	559	661	193	150	107	38
25	16	67	128	50	331	195	640	638	192	161	110	37
26	16	42	110	52	283	215	684	625	185	152	117	50
27	16	41	100	45	245	227	712	606	174	162	118	48
28	16	37	68	47	223	250	773	553	164	162	119	43
29	18	38	107	44	---	232	777	490	158	156	117	46
30	18	30	113	39	---	210	731	433	150	154	117	45
31	18	---	70	44	---	214	---	399	---	150	117	---
TOTAL	1177	800	2859	1595	7882	7011	14257	20391	7100	4678	3777	2574
MEAN	38.0	26.7	92.2	51.5	282	226	475	658	237	151	122	85.8
MAX	167	96	508	81	1040	306	933	941	387	195	146	132
MIN	16	17	23	27	23	190	186	399	150	112	102	37
AC-FT	2330	1590	5670	3160	15630	13910	28280	40450	14080	9280	7490	5110
CAL YR 1981	TOTAL	30299	MEAN	83.0	MAX	508	MIN	16	AC-FT	60100		
WTR YR 1982	TOTAL	74101	MEAN	203	MAX	1040	MIN	16	AC-FT	147000		

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 (0.8 km) downstream from Jordan Creek, 2.6 mi (4.2 km) north of Rome, and at mile 122.4 (196.9 km).

DRAINAGE AREA.--About 8,000 mi² (20,700 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft (1,019.312 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1960, at datum 0.24 ft (0.073 m) lower.

REMARKS.--Records good. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft (86.3 hm³), increased in 1970; Wild Horse Reservoir, capacity, 32,690 acre-ft (40.3 hm³); and numerous small reservoirs. Diversions above station for irrigation.

AVERAGE DISCHARGE.--33 years, 916 ft³/s (25.94 m³/s), 663,600 acre-ft/yr (818 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft³/s (949 m³/s) Dec. 24, 1964, gage height, 16.7 ft (5.09 m), from floodmark; minimum, 42 ft³/s (1.19 m³/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 (153 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 21	0530	10,000 283	10.23 3.118	Mar. 12	2030	5,430 154	7.39 2.252
Feb. 17	1130	*21,300 603	14.78 4.505	Mar. 15	2200	5,940 168	7.74 2.359
Feb. 22	1500	19,100 541	14.07 4.289	Apr. 12	1730	12,300 348	11.36 3.463
Mar. 2	2200	7,560 214	8.84 2.694				

Minimum, 117 ft³/s (3.31 m³/s) Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	126	279	475	500	3080	2370	4160	1420	809	303	187
2	132	127	254	548	473	4930	2590	4070	1290	1250	317	186
3	126	129	259	494	492	5750	2600	4040	1240	1230	299	208
4	120	131	256	415	449	4200	2810	4100	1230	1030	271	219
5	120	132	263	460	376	3500	3950	4110	1160	870	254	212
6	120	132	266	546	358	3090	3320	3900	1120	774	231	203
7	120	132	268	482	324	2910	2920	3500	1050	754	212	205
8	141	135	300	418	372	2730	2550	3240	1080	771	208	206
9	153	131	296	355	413	2750	2200	3070	1060	746	210	193
10	160	129	347	387	422	3040	2230	2940	965	665	202	187
11	166	131	423	475	407	3510	3020	2820	859	673	194	180
12	163	139	385	580	414	4630	10400	2670	743	564	188	198
13	169	145	332	624	411	4080	9510	2510	689	478	183	200
14	166	154	309	586	549	3350	7570	2290	638	441	180	204
15	163	180	284	556	1980	4360	6900	2100	615	379	188	220
16	163	161	1610	536	7630	4980	5940	2010	660	336	196	227
17	166	158	1660	514	18600	4040	5240	2050	730	319	176	232
18	173	172	795	510	14200	3460	4740	2050	754	328	176	241
19	169	173	878	506	11900	3170	4460	2100	705	304	180	247
20	163	175	5650	478	14400	2790	3910	2280	645	279	188	273
21	153	168	9210	450	17000	2570	3480	2310	605	265	187	273
22	145	182	8200	440	18100	2390	3280	2090	562	241	187	255
23	143	253	5280	440	13700	2300	3300	1940	565	257	181	231
24	138	403	1340	444	8840	2280	3580	1880	580	275	197	231
25	135	2050	930	455	5930	2370	3900	1890	631	276	195	230
26	135	1620	828	499	4550	2710	4120	1840	758	253	186	233
27	134	761	703	536	3800	3120	4250	1750	736	244	176	214
28	131	530	581	565	3220	3520	4310	1700	687	243	172	210
29	128	400	539	569	---	3380	4370	1680	673	251	166	214
30	128	298	541	539	---	2900	4340	1610	673	259	164	217
31	126	---	492	507	---	2550	---	1520	---	253	170	---
TOTAL	4487	9557	43758	15389	149810	104440	128160	80220	25123	15817	6337	6536
MEAN	145	319	1412	496	5350	3369	4272	2588	837	510	204	218
MAX	173	2050	9210	624	18600	5750	10400	4160	1420	1250	317	273
MIN	120	126	254	355	324	2280	2200	1520	562	241	164	180
AC-FT	8900	18960	86790	30520	297100	207200	254200	159100	49830	31370	12570	12960

CAL YR 1981 TOTAL 161370 MEAN 442 MAX 9210 MIN 83 AC-FT 320100
WTR YR 1982 TOTAL 589634 MEAN 1615 MAX 18600 MIN 120 AC-FT 1170000

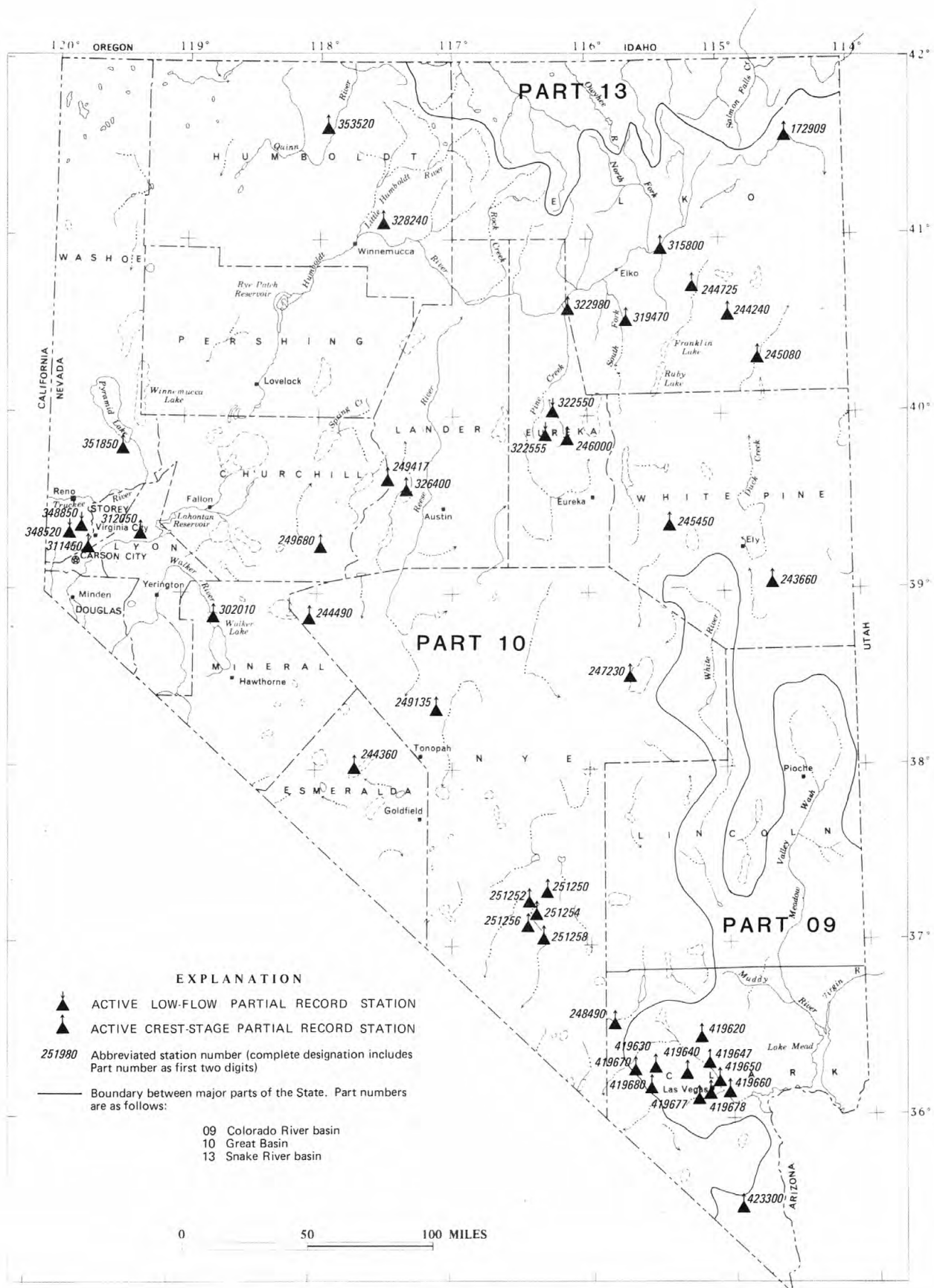


FIGURE 8.—Streamflow partial-record stations listed in this report.

Because the number of sites for which streamflow information would be useful far exceeds the number of stream-gaging stations that can feasibly be operated at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited data are collected systematically at a site over a period of years for use in hydrologic analysis, the site is called a partial-record station. Data collected at these stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. Discharge measurements also are made at additional locations, termed miscellaneous sites, that are not included in the partial-record program.

Data collected at partial-record stations are presented in two tables. The first lists discharge measurements at low-flow partial-record stations, and the second tabulates annual maximum stages and discharges at crest-stage partial-record stations. Discharge measurements made at miscellaneous sites are given in a third table.

Low-Flow Partial-Record Stations

The following table contains streamflow data for partial-record stations during water year 1982. 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 NW¼ sec.2, T.31 N., R.59 E., Elko County, 0.8 mile west of McCrea Ranch and 13.5 miles northeast of Ruby Valley Post Office.	7.56	1965-82	11-12-81 3-04-82 5-19-82 9-09-82	1.84 4.45 40.4 3.01
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE¼ sec.20, T.25 N., R.51 E., Eureka County, 1.5 miles upstream from Pete Hanson Creek, 11 miles from mouth, and 42 miles south of Palisade.	150	1972-82	12-02-81 3-02-82 5-20-82 7-12-82 9-17-82	0 0 0 0 0
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 miles upstream from mouth and 33 miles northwest of Eureka.	5.0	1972-82	12-02-81 5-20-82 7-12-82 9-17-82	0 1.52 .63 .10
Pyramid and Winnemucca Lakes basin						
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE¼ sec.34, T.17 N., R.19 E., Washoe County, at base of hill 8.0 miles southwest of Steamboat.	4.2	1972-82	7-08-82	40.6
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE¼ 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	1972-82	7-08-82	8.92

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)	Discharge (ft ³ /s)
Virgin River basin							
09413560	White River tributary near Sunnyside, Nev.	Lat 38°19'30", long 115°02'50", Nye County, about 0.4 mile downstream from culvert on State Highway 318, 8 miles south of Sunnyside, and 37 miles south of Lund.	A20	1966-78, 1981-82	10-10-81	2.27	E130
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	1962-82	1982	--	0
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	1962-82	1982	--	0
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	1961-82	1982	--	0
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 mile southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	A62	1963-82	8-24-82	--	E1.0
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	8-24-82	--	E15
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	1961-82	1982	--	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	1962-82	8-23-82	7.3	930
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	1969-82	8-25-82	2.15	144
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	1969-82	2-11-82	--	100

E: ESTIMATED.
A: APPROXIMATE.

Crest-Stage Partial-Record Stations--continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	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 NE¼NW¼ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road, 3 miles southwest of Blue Diamond.	18.3	1961-82	8-13-82	6.31	98
Piute Valley							
09423300	Piute Wash tributary at Searchlight, Nev.	Lat 35°28'00", long 114°56'20", in SE¼NE¼ sec.33, T.28 S., R.63 E., Clark County, at culvert on State Highway 164, 1 mile west of Searchlight.	A3.4	1967-82	8-13-82	13.56	E400
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, 1981-82	2-14-82	3.99	E35
Spring Valley							
10243660	Connors Pass Creek near Shoshone, Nev.	Lat 39°02'35", long 114°38'00", in SW¼SW¼ sec.25, T.14 N., R.65 E., White Pine County, at culvert on U.S. Highway 6, 50, and 93, 18.5 miles northwest of Shoshone.	0.45	1962-82	1982	--	0
Clover and Independence Valleys							
10244240	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE¼SW¼ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93, 21 miles southeast of Arthur.	A3	1968-82	9-26-82	3.64	16
Dixie Valley basin							
10244360	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'30", long 117°59'00", in SE¼ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50, 6 miles west of Eastgate.	A11	1961-82	6-82	4.17	25
Gabbs Valley							
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW¼NW¼ sec.31, T.10 N., R.36 E., Mineral County, 3.9 miles upstream from State Highway 361 and about 12 miles south of Gabbs.	207	1974-78, 1981-82	9-82	6.74	280
Steptoe and Goshute Valleys							
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T. 28 N., R. 64 E., Elko County, at culvert on former U.S. Highway 93, 2.5 miles northwest of Currie.	A0.7	1961-82	1982	--	0

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)
Jakes Valley							
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 feet up-stream from Illipah Creek and 10.5 miles northeast of Hamilton.	5.47	1962-82	9-82	--	E0.2
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	1962-82	9-82	--	E0.2
Hot Creek and Northern Railroad Valleys							
10247230	Railroad Valley tributary near Currant, Nev.	Lat 38°32'34", long 115°47'52", in NW¼NW¼ sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6, 22.5 miles southwest of Currant.	0.37	1962-82	1982	--	0
Indian Springs Valley							
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW¼NW¼ sec.16, or SW¼SW¼ sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95, 8 miles west of Indian Springs.	A29	1964-82	8-24-82	3.64	E110
Stone Cabin and Ralston Valleys							
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec. 33, T.6 N., R.43 E., Nye County, at culvert on State Highway 376, 19 miles north of Tonopah.	A3.42	1965-82	1982	--	0
Smith Creek Valley							
10249417	Smith Creek Valley tributary near Austin, Nev.	Lat 39°32'21", long 117°28'26", in NE¼SE¼ sec.4, T.19 N., R.40 E., Lander County, at culvert on U.S. Highway 50, 22 miles west of Austin.	0.62	1968-79, 1981-82	1982	--	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	1961-82	1982	--	0
Amargosa Desert							
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	1982	--	0
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	1982	--	0
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	1982	1982	--	0.2

E: ESTIMATED.
A: APPROXIMATE.

Crest-Stage Partial-Record Stations--continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Amargosa Desert basin--continued							
10251256	Busted Butte Wash, Nevada Test Site, Nev.	Lat 36°47'20", long 116°24'10", Nye County, about 30 miles west of Mercury.	6.6	1982	1982	--	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	1982	--	0
Walker Lake basin							
10302010	Reese River Canyon near Schurz, Nev.	Lat 36°51'00", long 118°46'55", in NE1/4 sec.6, T.11 N., R.29 E., Mineral County, at abandoned culvert on former U.S. Highway 95, 6 miles south of Schurz.	A14	1963-82	7-82	6.47	50
Carson River basin							
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW1/4 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, 1980-82	2-23-82 7-27-82	2.00 2.15	30 30
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE1/4 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, 1981-82	1982	--	0
Humboldt River basin							
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58'10", long 115°26'50", in NW1/4 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, 1981-82	1982	--	E0.05
10319470	Willow Creek tributary near Jiggs, Nev.	Lat 40°30'47", long 115°39'42", in SW1/4 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	1982	--	0
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE1/4 sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-82	8-82	5.51	E90
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE1/4 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, 1980-82	2-82	--	E1.0
10326400	Reese River tributary near Austin, Nev.	Lat 39°28'29", long 117°19'10", in NE1/4 sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50, 14 miles west of Austin.	8.27	1968-79, 1981-82	1982	--	0
Pyramid and Winnemucca Lakes basin							
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW1/4 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, 1981-82	1982	--	0

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)
Black Rock Desert basin							
10353520	Eagle Creek near Orovada, Nev.	Lat 41°39'05", long 117°46'40", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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, 1982 1980-82		--	E0.2

E: ESTIMATED.

Miscellaneous Sites

The following table lists measurements of streamflow at miscellaneous sites. Data for the Carson River and Walker Lake basins are for water year 1982 only. Data for Las Vegas Valley include previously unpublished measurements made during water years 1979-81 as well as data for water year 1982.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
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	10-26-81 5-26-82 6-17-82 7-23-82 8-24-82	1.75 11.5 13.9 8.25 5.58
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 north-west of Fredricksburg, Calif., at split box.	4.42	1976-77, 1981	5-27-82 6-17-82 7-22-82 8-19-82 9-24-82	12.8 9.57 7.51 6.09 5.79
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 north-west of Fredricksburg, Calif.	--	1981	10-26-81 1-28-82 3-05-82 4-28-82 5-21-82 6-18-82 7-22-82 8-23-82 9-23-82	1.30 1.37 1.68 1.57 1.25 1.44 1.83 2.03 1.76
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	5-26-82 6-26-82 7-22-82 8-24-82 9-23-82	2.24 2.67 6.75 5.45 4.69
Barber Creek	West Fork Carson River	Lat 38°53'40", long 119°50'23", in NW¼NW¼ sec.22, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.6 miles southwest of Centerville.	.39	1981	5-26-82 6-26-82 7-22-82 8-24-82 9-23-82	.38 .36 .51 1.35 .91
Sheridan Creek	West Fork Carson River	Lat 38°53'46", long 119°50'43", in SE¼SE¼ sec.16, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.8 miles west of Centerville.	.23	1981	5-26-82 6-26-82 7-22-82 8-24-82 9-23-82	.66 .85 1.59 2.67 1.73
Stutler Canyon Creek	West Fork Carson River	Lat 38°54'35", long 119°50'31", in NW¼NW¼ sec.13, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.5 miles west of Centerville.	1.90	--	10-26-81 5-27-82 6-17-82 7-22-82 8-23-82 9-30-82	.35 .93 .70 .58 .43 .57
Monument Creek	West Fork Carson River	Lat 38°55'03", long 119°50'45", in NE¼SE¼ sec.9, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.7 miles north-west of Centerville.	2.26	1981	5-21-82 6-17-82	4.44 3.45
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	10-26-81 11-16-81 5-21-82 6-17-82 7-26-82 8-23-82	1.93 2.23 4.79 4.11 2.68 2.91

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Carson River basin--Continued						
Genoa Canyon Creek	Carson River	Lat 39°00'02", long 119°51'04", in NW¼SE¼ sec.19, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 0.3 mile south-west of Genoa.	2.20	1969, 1972, 1976-77, 1981	11-16-81	1.15
					4-29-82	3.48
					5-21-82	2.52
					6-23-82	1.28
					7-22-82	.97
					8-23-82	.66
	9-30-82	1.13				
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	10-26-81	.67
					11-16-81	1.29
					1-28-82	1.15
					3-09-82	3.94
					5-27-82	6.46
					6-18-82	3.74
Las Vegas Valley						
Las Vegas Wash	Lake Mead	Lat 36°11'44", long 115°05'51", in NW¼SW¼ sec.19, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, at intersection of Pecos Road and Lake Mead Boulevard.	--	--	3-10-80	.04
					2-27-81	.05
Washington Street drain	Las Vegas Wash	Lat 36°10'52", long 115°07'53", in NW¼SW¼ sec.26, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, east of Las Vegas Blvd.	--	--	11-12-80	.24
					2-27-81	.17
					3-05-82	.33
Washington Street drain	Las Vegas Wash	Lat 36°10'52", long 115°07'22", in NW¼SE¼ sec.26, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, at 18th Avenue.	--	--	3-02-80	.57
					11-12-80	.12
Washington Street drain	Las Vegas Wash	Lat 36°10'52", long 115°06'54", in NW¼SW¼ sec.25, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, downstream from Eastern Avenue.	--	--	3-02-80	.12
					3-05-82	.09
Washington Street drain	Las Vegas Wash	Lat 36°10'52", long 115°06'23", in NW¼SE¼ sec.25, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, downstream from Mojave Avenue.	--	--	3-02-80	.02
Las Vegas Wash	Lake Mead	Lat 36°09'59", long 115°03'49", in NE¼SE¼ sec.32, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, at downstream side of Stewart Avenue.	--	--	2-27-81	.07
					3-05-82	.04
Cedar Avenue drain	Las Vegas Wash	Lat 36°10'11", long 115°05'44", in SW¼NW¼ sec.31, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, 500 feet east of Pecos Drive.	--	--	3-01-80	.79
					11-12-80	.67
					2-27-81	.51
					3-05-82	.91
Cedar Avenue drain	Las Vegas Wash	Lat 36°10'12", long 115°04'47", in SE¼NE¼ sec.31, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Marion Avenue.	--	--	3-01-80	.35
					11-12-80	.10
Cedar Avenue drain	Las Vegas Wash	Lat 36°10'12", long 115°03'59", in NW¼NE¼ sec.32, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, upstream from Las Vegas Wash.	--	--	2-27-81	.06
					3-05-82	.19

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Las Vegas Valley--Continued						
Cedar Avenue drain	Las Vegas Wash	Lat 36°10'11", long 115°03'42", in NW¼NE¼ sec.32, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, at upstream side of Lamb Boulevard.	--	--	3-01-80	0.61
					11-12-80	.44
Las Vegas Wash	Lake Mead	Lat 36°09'32", long 115°03'50", in NW¼NW¼ sec.4, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Charleston Avenue storm drain.	--	--	11-12-80	.13
Tropicana Wash	Las Vegas Wash	Lat 36°07'00", long 115°08'30", in SW¼SE¼ sec.15, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at confluence with Flamingo Wash.	--	--	2-26-81	.02
					3-05-82	.01
Flamingo Wash	Las Vegas Wash	Lat 36°07'00", long 115°08'29", in SW¼SE¼ sec.15, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, 50 feet downstream from confluence with Tropicana Wash.	--	--	3-10-80	.06
					11-12-80	.31
					2-26-81	.31
					3-05-82	.22
Flamingo Wash	Las Vegas Wash	Lat 36°07'03", long 115°07'43", in SE¼SE¼ sec.15, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at upstream side of Maryland Parkway near old USGS gage.	--	--	3-10-80	.08
					11-12-80	.18
					2-26-81	.12
					3-05-82	.21
Flamingo Wash	Las Vegas Wash	Lat 36°07'11", long 115°07'37", in NW¼SE¼ sec.14, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at upstream side of Spencer Avenue.	--	--	6-06-79	.10
					3-10-80	.27
					11-12-80	.23
					2-26-81	.20
3-05-82	.30					
Flamingo Wash	Las Vegas Wash	Lat 36°07'23", long 115°07'04", in SW¼NW¼ sec.13, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at downstream side of Eastern Avenue.	--	--	6-06-79	.67
					3-10-80	.83
					11-12-80	1.07
					2-26-81	.77
3-05-82	.92					
Flamingo Wash	Las Vegas Wash	Lat 36°07'47", long 115°06'22", in SW¼SE¼ sec.12, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at Desert Inn Road drain.	--	--	3-10-82	.12
Flamingo Wash	Las Vegas Wash	Lat 36°07'47", long 115°06'22", in SW¼SE¼ sec.12, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at Desert Inn Road.	--	--	6-06-79	.87
					3-10-80	1.50
					11-12-80	1.60
					2-26-81	1.35
Flamingo Wash	Las Vegas Wash	Lat 36°07'58", long 115°06'13", in SE¼SE¼ sec.12, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at downstream side of Mojave Avenue.	--	--	6-06-79	.91
					3-10-80	1.90
					11-12-80	1.62
					2-26-81	1.43
3-05-82	1.57					
Flamingo Wash	Las Vegas Wash	Lat 36°07'58", long 115°06'15", in SE¼SE¼ sec.12, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, downstream from Mojave Avenue.	--	--	3-10-80	.04

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Las Vegas Valley--Continued						
Flamingo Wash	Las Vegas Wash	Lat 36°08'28", long 115°05'45", in NW¼NW¼ sec.7, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at upstream side of Boulder Highway.	--	--	6-07-79	1.30
					3-10-80	2.17
					11-12-80	1.79
					2-26-81	1.66
					3-05-82	1.70
Flamingo Wash	Las Vegas Wash	Lat 36°08'34", long 115°04'55", in NW¼NW¼ sec.8, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Lamb Avenue.	--	--	3-07-79	1.28
					11-12-80	2.04
					2-26-81	1.17
					3-05-82	1.76
Flamingo Wash	Las Vegas Wash	Lat 36°08'32", long 115°03'52", in NW¼NW¼ sec.9, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Nellis Boulevard (below foot bridge on golf course).	--	--	6-07-79	1.40
					11-12-80	2.13
					2-26-81	1.54
					3-05-82	2.16
Flamingo Wash	Las Vegas Wash	Lat 36°08'28", long 115°03'10", in NW¼NE¼ sec.9, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on Winterwood Golf Course near east end of driving range.	--	--	6-07-79	.70
					11-12-80	2.10
					2-26-81	1.22
Las Vegas Wash	Lake Mead	Lat 36°08'22", long 115°02'53", in SE¼NE¼ sec.9, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, downstream from Flamingo Wash.	--	--	11-12-80	1.56
					2-27-81	1.33
					3-05-82	1.71
Monson Avenue drain	Las Vegas Wash	Lat 36°06'53", long 115°03'46", in NW¼NW¼ sec.21, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, 300 feet east of Nellis Boulevard.	--	--	3-02-80	.79
					11-12-80	.17
					2-27-81	.34
					3-05-82	.81
Monson Avenue drain	Las Vegas Wash	Lat 36°06'53", long 115°03'35", in NW¼NW¼ sec.21, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, upstream from Cape Street.	--	--	3-02-80	.52
Monson Avenue drain	Las Vegas Wash	Lat 36°06'52", long 115°02'48", in NE¼NE¼ sec.21, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at upstream side of intersection of Monson Avenue and Powerline Road.	--	--	3-02-80	1.06
					11-12-80	.64
Monson Avenue drain	Las Vegas Wash	Lat 36°06'28", long 115°02'47", in SE¼NE¼ sec.21, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, 0.5 mile south of Monson Avenue.	--	--	11-12-80	.33
					2-27-81	.52
					3-05-82	1.13
Rawhide Street drain	Las Vegas Wash	Lat 36°05'21", long 115°04'08", in SW¼SE¼ sec.29, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Duck Creek.	--	--	2-02-80	.31
					11-12-80	.25
Duck Creek	Las Vegas Wash	Lat 36°05'20", long 115°04'09", in SW¼SE¼ sec.29, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, upstream from Rawhide Street drain.	--	--	3-02-80	.07

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Las Vegas Valley--Continued						
Duck Creek	Las Vegas Wash	Lat 36°05'20", long 115°04'09", in SW½SE½ sec.29, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, downstream from Rawhide Street drain.	--	--	3-02-80	0.38
					11-12-80	.32
					2-27-81	.28
					3-05-82	.21
Duck Creek	Las Vegas Wash	Lat 36°05'25", long 115°02'43", in NW½SW½ sec.28, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Nellis Boulevard.	--	--	11-12-80	.41
					2-27-81	.29
					3-05-82	.30
Duck Creek	Las Vegas Wash	Lat 36°05'28", long 115°02'43", in NE½SE½ sec.28, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Stephanie Avenue adjacent to power plant.	--	--	3-02-80	.23
					11-12-80	.10
					2-27-81	.13
					3-05-82	.01
Duck Creek	Las Vegas Wash	Lat 36°05'08", long 115°02'01", in SW½SE½ sec.27, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Boulder Highway.	--	--	3-02-80	1.06
					11-12-80	.96
					2-27-81	1.31
Duck Creek	Las Vegas Wash	Lat 36°05'31", long 115°01'12", in NE½SW½ sec.26, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Stadium Road.	--	--	3-02-80	.42
					11-12-80	.35
					2-27-81	.52
					3-05-82	.01
Walker Lake basin						
Walker River	Walker Lake	Lat 39°02'42", long 118°51'31", in NE½SW½ sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 50 feet downstream from Weber Dam and 8.5 miles northwest of Schurz.	--	1977-81	1-04-82	E10
					2-01-82	E10
					3-01-82	E5
					4-06-82	E10
					5-06-82	44.7
					6-03-82	121
Walker River	Walker Lake	Lat 39°00'51", long 118°51'37", in SE½SW½ sec.4, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 2 miles from Weber Reservoir and 6 miles northwest of Schurz.	--	1977-81	1-04-82	0
					2-01-82	0
					3-01-82	0
					4-06-82	166
					5-06-82	61.1
					6-03-82	76
					7-06-82	63.2
					7-13-82	78.5
					8-03-82	93.4
					8-18-82	109
9-01-82	96.6					

E: ESTIMATED

SPRING DISCHARGE

DISCHARGE	MEASURE- MENT ² METHOD ²	DATE	SPRNG P3/S	LAND SURFACE ALTITUDE (FEET)	US ¹	OWNER	SPRING NAME	SITE IDENTIFICATION	SPRING NUMBER	SPRING NUMBER
V	0.08	10/03/81		5840.	I	T M THOMPSON	THOMPSON RANCH SP	395415115524301	N23 E54 03DBD 1	153
E	.3	03/10/82								173B N08 E55 15ACBBI
C	a1.5	05/25/82								173B N08 E55 15ADDBI
C	a1.7	06/04/82								173B N08 E57 11DBI 1
C	a1.4	07/02/82								173B N08 E57 27DACI
C	a1.1	07/29/82								173B N12 E56 05ABCB1
C	a .50	08/09/82								173B N13 E56 32BACD1
C	5.73	10/03/81		5812.	I	GUY WEATHERLY	SHIPLEY HOT SPRING	395628116042801	N24 E52 23DAC 1	153
C	1.01	01/17/82		4770.	I	FISH CREEK RANCH	HAY CORRAL	383256115453301	N08 E55 14BCBBI	173B
C	.29	01/18/82		4805.	I	FISH CREEK RANCH	NORTH SPRING	383323115454401	N08 E55 15AABAI	173B
C	1.24	01/17/82		4820.	I	FISH CREEK RANCH	BIG SPRING	383311115461501	N08 E55 15ACBBI	173B
C	.94	01/18/82		4770.	I	HOWARD SHARP	REYNOLDS SPRINGS	383259115460301	N08 E55 15ADDBI	173B
C	4.15	01/14/82		4765.	I	CARL HANKS	BLUE EAGLE SPRINGS	383346115313801	N08 E57 11DBI 1	173B
C	.97	01/15/82		4750.	I		BUTTERFIELD SPRING	383103115325301	N08 E57 27DACI	173B
C	.61	01/13/82		5590.	I		LITTLE WARM SPRING	38552115421001	N12 E56 05ABCB1	173B
C	12.1	01/13/82		5605.	I		BIG WARM SPRINGS	385650115421301	N13 E56 32BACD1	173B
P	6600.	01/11/82		6600.	P	CITY OF BLY	MURRY SPRINGS	391344511435501	N16 E63 29AABAI	179
C	9.86	01/12/82		6100.	I	KENNECOTT COPPER	MCGILL SPRINGS	392502114464901	N18 E64 21BDDCI	179
C	5.95	01/10/82		6100.	I	WILLIAM G DAVISON	CAMBELLS EMBAYMENT	3929171144542301	N19 E63 05DCI 1	179
C	1.58	07/27/82		8235.	I		NORTH CREEK SPRING	384422114424001	N10 E65 19CCCI	183
C	1.41	07/27/82		6480.	I		GEYSER SPRING	3839531144005801	N10 E65 34CADAI	183
C	3.66	07/25/82		5220.	I	DON HUTCHINGS	MOON RIVER SPRINGS	382105115104801	N06 E60 25BBDAI	207
C	10.8	07/26/82		5225.	I	NV DPT FISH & WILD	HOT CREEK SPRING	382259115090801	N06 E61 18AADAI	207
C	2.51	07/25/82		5320.	I	SUNNYSIDE RANCH	BUTTERFIELD SPRINGS	382624115004001	N07 E62 28ABDCI	207
C	2.24	07/25/82		5290.	I	NV DPT FISH & WILD	FLAG SPRING NO. 1	382526115011401	N07 E62 33BCAB1	207
C	2.57	07/24/82		5280.	I	NV DPT FISH & WILD	FLAG SPRING NO. 2	382522115012001	N07 E62 33BCCB1	207
C	2.33	07/24/82		5290.	I	NV DPT FISH & WILD	FLAG SPRING NO. 3	382517115012001	N07 E62 33BCCCI	207
C	.59	07/23/82		5295.	I	DON ELDRIDGE	MORMON SPRING	383540115081801	N09 E61 32DBAC1	207
C	2.30	07/24/82		5480.	I		EMIGRANT SPRINGS	383726115025101	N09 E62 19DB 1	207
C	6.99	01/18/82		5500.	I	LUND IRRIG CO	LUND SPRINGS	385158115000401	N11 E62 04ABAB1	207
C	7.21	01/19/82		5700.	I	PRESTON & LUND IR CO	PRESTON BIG SPRING	385440115045701	N12 E61 02ACAB1	207
C	.64	01/20/82		5720.	I	PRESTON & LUND IR CO	INDIAN RANCH SPRING	385542115045801	N12 E61 02DBCB1	207
C	1.71	01/19/82		6020.	I	PRESTON & LUND IR CO	COLD SPRINGS	385507114474801	N12 E61 12BDAB1	207
C	2.38	01/19/82		5700.	I	PRESTON & LUND IR CO	NICHOLAS SPRINGS	385530115044601	N12 E61 12DBDI	207
C	.02	01/20/82		5620.	I	PRESTON & LUND IR CO	UNKNOWN	38439115033701	N12 E61 12DCAD1	207
C	4.02	01/19/82		5700.	I	PRESTON & LUND IR CO	ARNOLDSON SPRING	385539115045702	N12 E61 12DCDI	207
C	6.54	07/29/82		3875.	I		HICO SPRING	373554115125201	E60 14DBAB1	209
C	12.1	07/29/82		3810.	I		CRYSTAL SPRINGS	37155115135801	E60 10ABBI	209
C	16.4	07/30/82		3615.	I		ASH SPRINGS	372749115113001	E61 06BBBI	209
C	1.55	08/03/82		1590.	R	U S NATL PARK SERV	ROGERS SPRING	362238114263601	E67 12DDAD1	215
C	3.52	08/01/82		1791.	I		MUDDY RIVER MAIN	364329114431101	E65 16AB 1	219
C	1.70	08/01/82		1794.	I	LDS FARM	MUDDY RIVER WEST	364316114431901	E65 16BD 1	219
C	7.98	08/01/82		1770.	I	WARM SPGS LEISURE PK	MUDDY SPRING	364319114425501	E65 16ABDI	219
C	2.73	08/02/82		1790.	R	WARM SPGS LEISURE PK	WARM SPRINGS E	364236114424301	E65 21AABAI	219
C	3.65	07/31/82		1790.	I	U S FISH & WILDLIFE	WARM SPRINGS W	364234114425201	E65 21AABAI	219
F	1.30	08/06/82		2280.	I	CALVADA CORP	ROGERS SPRING	362846116193201	E50 15ABDA1	230
F	1.89	08/06/82		2310.	I	CALVADA CORP	LONGSTREET SPRING	362802116193101	E50 22ABAI	230
F	5.97	08/06/82		2195.	I	CALVADA CORP	CRYSTAL POOL	362513116192001	E50 03ABAI	230

¹ Uses: I, irrigation; P, public supply; R, recreation.

² Measurement methods: C, current meter; E, estimated; F, flume; V, volumetric (bucket and stopwatch); Z, totalizing pipeflow meters and current meter.

a Data from Nevada Division of Water Resources.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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COLORADO RIVER MAIN STEM

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	DEPTH (FT)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA- LINITY, TOTAL (MG/L AS CAO ₃)
09420600 LAKE MEAD AT ICEBERG CANYON AZ-NV (RIVER MILE 295.0; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 18 FT)*						
OCT						
06...	0	970	8.6	25.0	8.8	97
06...	10	990	8.6	25.0	8.1	97
06...	25	1000	8.6	24.5	7.6	97
06...	50	960	8.5	22.0	7.9	97
06...	68	930	8.3	19.0	7.7	110

09420650 LAKE MEAD AT SANDY POINT, AZ (RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 25 FT)*						
OCT						
05...	0	940	8.5	26.0	7.8	98
05...	10	950	8.5	25.0	7.5	100
05...	25	980	8.5	24.0	7.5	100
05...	50	960	8.4	23.0	7.0	100
05...	75	900	8.2	21.0	6.7	100
05...	100	900	8.1	19.5	6.7	100
05...	150	960	7.9	14.5	3.2	105
05...	200	920	7.8	14.0	3.8	110
05...	224	950	7.8	14.0	3.2	110

09420700 LAKE MEAD AT VIRGIN CANYON, AZ-NV (RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 34 FT)*						
OCT						
06...	0	1000	8.4	25.0	8.3	98
06...	10	1020	8.4	24.5	7.2	98
06...	25	1020	8.4	24.5	7.5	98
06...	50	1020	8.4	24.0	7.1	98
06...	75	960	8.1	21.0	6.4	100
06...	100	910	8.0	19.0	5.8	110
06...	150	930	8.0	15.0	5.2	110
06...	200	940	7.9	14.0	5.4	110
06...	250	940	7.9	14.0	5.0	110
06...	300	950	7.8	13.5	4.2	110
06...	310	950	7.8	13.0	4.2	110

09420750 LAKE MEAD NEAR OVERTON BEACH, NV (RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 5 FT)*						
OCT						
07...	0	1180	8.5	24.0	7.3	93
07...	5	1200	8.4	24.0	7.3	93
07...	10	1190	8.5	23.5	7.3	90
07...	20	1220	8.3	23.5	6.0	98

09420800 LAKE MEAD AT OVERTON ISLANDS, NV (RIVER MILE 9.5; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 21 FT)*						
OCT						
07...	0	1060	8.4	24.0	7.4	98
07...	10	--	--	--	--	--
07...	25	1080	8.4	24.0	7.2	98
07...	75	1000	8.2	22.0	5.3	98
07...	100	960	8.1	19.0	4.3	98
07...	125	970	8.0	16.0	5.1	98
07...	175	1000	8.0	14.0	4.8	110
07...	225	1000	8.0	14.0	5.1	110
07...	275	1000	8.0	14.0	5.7	110
07...	300	1010	8.0	14.0	5.7	--

* 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 1981 TO SEPTEMBER 1982

DATE	DEPTH (FT)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA- LINITY, 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 27 FT)*						
OCT						
08...	0	1120	8.4	24.0	7.0	92
08...	5	--	--	--	--	--
08...	10	1100	8.4	24.0	7.0	92
08...	15	--	--	--	--	--
08...	20	--	--	--	--	--
08...	25	1100	8.4	24.0	6.6	92
08...	30	--	--	--	--	--
08...	40	--	--	--	--	--
08...	50	--	--	--	--	--
08...	60	--	--	--	--	--
08...	70	--	--	--	--	--
08...	75	1100	8.3	23.5	6.0	110
08...	80	--	--	--	--	--
08...	90	--	--	--	--	--
08...	100	960	8.1	17.0	5.0	100
08...	125	990	8.0	17.0	5.1	100
08...	150	--	--	--	--	--
08...	175	920	8.0	16.0	5.1	100
08...	200	--	--	--	--	--
08...	225	980	7.9	14.5	5.7	110
08...	250	--	--	--	--	--
08...	275	1120	7.9	14.0	5.7	110
08...	300	--	--	--	--	--
08...	325	1040	7.9	13.5	5.1	110
08...	350	--	--	--	--	--
08...	375	1050	7.8	15.0	5.0	110
08...	400	--	--	--	--	--
08...	425	1060	7.8	13.5	4.4	110

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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COLORADO RIVER MAIN STEM

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NV (LAT 36°06'30", LONG 114°49'10")

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982*

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC									
14...	1000	10.0	1100	8.0	16.0	8.3	340	84	32
14...	1030	279	1070	7.3	15.0	4.1	350	85	33
FEB									
25...	1015	10.0	1020	8.1	15.5	10.1	360	89	33
25...	1140	279	1080	7.8	13.5	8.2	440	110	39
JUN									
28...	0855	10.0	1000	8.3	30.0	9.6	330	81	32
28...	0900	270	1030	8.2	15.5	8.3	340	84	31

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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)
DEC									
14...	98	2.3	5.0	120	310	98	.3	8.4	709
14...	100	2.3	5.2	130	290	88	.3	9.0	691
FEB									
25...	100	2.3	4.7	130	300	100	.4	8.7	715
25...	120	2.5	6.8	130	380	130	.4	10	877
JUN									
28...	110	2.9	5.2	111	310	94	.3	8.5	708
28...	110	2.8	5.1	126	350	88	.3	9.4	755

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, 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									
14...	--	<.020	.22	.23	<.070	--	.45	.67	<.010
14...	--	<.020	.42	.42	<.070	--	.47	.89	.020
FEB									
25...	--	<.020	.26	.26	<.060	--	.47	.73	<.010
25...	.89	.050	.94	.57	.400	.33	.73	1.7	.020
JUN									
28...	--	--	--	--	--	--	--	--	--
28...	--	<.020	--	.43	<.070	--	1.20	--	.060

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
DEC	
14...	42
FEB	
25...	44
JUNE	
28...	25

* 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 1981 TO SEPTEMBER 1982*

DATE	TIME	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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								
14...	1210	10.0	1040	8.2	19.5	7.6	--	--
14...	1235	146	1060	7.9	18.0	7.8	--	--
14...	1300	308	1040	7.8	13.5	5.6	340	86
FEB								
25...	1310	10.0	990	8.1	17.0	10.1	320	80
25...	1317	152	1050	7.9	14.0	8.2	--	--
25...	1325	330	1070	8.0	13.0	8.8	360	89
JUN								
28...	0955	10.0	1080	8.5	25.5	9.6	330	80
28...	1005	146	1040	8.1	18.5	9.2	--	--
28...	1015	360	1020	8.1	14.5	9.1	330	82

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									
14...	--	--	--	--	120	290	92	.3	8.8
14...	--	--	--	--	--	--	--	--	--
14...	31	91	2.1	4.5	130	280	85	.3	8.7
FEB									
25...	30	100	2.6	4.8	130	300	91	.4	8.6
25...	--	--	--	--	--	--	--	--	--
25...	33	100	2.3	4.6	130	300	99	.4	8.7
JUN									
28...	31	110	2.9	5.1	130	280	84	.3	8.9
28...	--	--	--	--	--	--	--	--	--
28...	30	110	2.9	4.8	116	310	94	.3	9.2

DATE	SOLIDS, SUM OF CONSTITUENTS, 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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC								
14...	--	<.020	.22	.26	<.070	.40	.62	<.010
14...	--	--	--	--	--	--	--	--
14...	666	<.020	.40	.40	<.070	.64	1.0	.010
FEB								
25...	694	<.020	.22	.25	<.060	.37	.59	<.010
25...	--	--	--	--	--	--	--	--
25...	714	<.020	.28	.29	<.060	.46	.74	<.010
JUN								
28...	679	<.020	--	.29	<.070	.90	--	.050
28...	--	--	--	--	--	--	--	--
28...	710	<.020	.30	.10	<.070	1.00	1.3	.050

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
DEC	
14...	48
FEB	
25...	43
JUNE	
28...	24

* 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 RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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 14...	1045	1080	8.8	17.5	320	77	31	110

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 14...	2.9	5.4	120	290	100	5.6	693	.31	

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (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 14...	0945	1080	7.8	16.5	320	79	30	110

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 14...	2.9	4.9	130	290	94	9.2	696	.17	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CA

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982*

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
SEP 22...	1125	E120	103	8.0	12.0	<1.0	8.8	35

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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
SEP 22...	9.0	3.0	7.0	.5	1.5	40	3.0	66

* 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 (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV (LAT 37 33 20 LONG 114 33 50)									
FEB, 1982					JUN, 1982				
24...	1115	9.2	1020	7.0	23...	1245	2.0	842	22.5
MAR					JUL				
24...	1145	11	1110	16.5	28...	0830	1.5	920	20.0
APR					SEP				
26...	1345	5.9	624	18.5	28...	1000	23	598	11.0
MAY									
25...	0930	4.4	952	17.0					
09419000 MUDDY RIVER NEAR GLENDALE, NV (LAT 36 38 35 LONG 114 32 20)									
OCT, 1981					JUN, 1982				
06...	1100	38	1520	22.5	03...	1145	40	1530	24.5
NOV					JUL				
30...	1315	41	1660	17.5	06...	0815	33	1470	23.0
JAN, 1982					AUG				
08...	1145	43	1610	13.5	04...	0805	26	1460	23.5
FEB					SEP				
09...	1145	44	1500	16.0	03...	0730	28	1430	18.0
MAR									
03...	0900	41	1650	17.5					
10244720 FRANKLIN RIVER NEAR ARTHUR, NV (LAT 40 49 25 LONG 115 08 10)									
NOV, 1981					JUL, 1982				
12...	1100	.95	214	5.0	15...	1200	19	76	12.0
DEC					SEP				
22...	1300	2.9	183	.0	09...	1105	1.7	195	11.5
MAY, 1982									
19...	1230	35	66	4.5					
10245900 PINE CREEK NEAR BELMONT, NV (LAT 38 47 40 LONG 116 51 13)									
OCT, 1981					JUL, 1982				
27...	0840	1.7	74	4.0	28...	0930	6.1	52	10.0
MAR, 1982					SEP				
09...	1120	1.2	69	1.0	21...	1542	2.2	64	9.5
MAY									
18...	1135	10	61	4.5					
10245910 MOSQUITO CREEK NEAR BELMONT, NV (LAT 38 48 22 LONG 116 40 43)									
OCT, 1981					JUL, 1982				
27...	1348	.72	109	6.0	28...	1415	1.7	94	13.5
MAR, 1982					SEP				
09...	0930	.46	98	.0	21...	1117	.73	92	8.0
MAY									
18...	0920	4.4	86	5.5					
10245925 STONEBERGER CREEK NEAR AUSTIN, NV (LAT 39 08 24 LONG 116 36 05)									
OCT, 1981					MAY, 1982				
26...	1530	.18	473	8.5	17...	1545	3.5	257	11.0
JAN, 1982					JUL				
12...	1005	.19	460	3.0	27...	1700	1.1	346	14.0
MAR					SEP				
08...	1525	.20	478	6.5	20...	1350	.42	420	12.0
10249190 WILLOW CREEK NEAR WARM SPRINGS, NV (LAT 38 34 35 LONG 116 35 05)									
MAY, 1982									
18...	1330	1.6	149	12.0					
10249280 KINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV (LAT 39 12 45 LONG 117 06 45)									
OCT, 1981					MAY, 1982				
28...	0915	3.6	422	6.5	19...	1045	6.2	360	7.5
JAN, 1982					JUL				
11...	1530	3.2	400	4.0	29...	1205	6.9	397	10.5
MAR					SEP				
10...	1200	3.2	380	5.5	23...	1010	4.4	390	9.5

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)		
10288500 WALKER LAKE NEAR HAWTHORNE, NV (LAT 38 35 05 LONG 118 42 15)											
NOV, 1981					MAY, 1982						
16...	0845	3953.57	15300	13.0	17...	0915	3954.18	15200	15.5		
JAN, 1982					JUL						
25...	0915	3952.92	16100	5.0	19...	0915	3955.91	14600	23.0		
MAR					SEP						
15...	0850	3953.09	15800	7.5	23...	1535	3955.62	--	22.5		
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)		
10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA (LAT 38 21 39 LONG 119 26 38)											
OCT, 1981					MAR, 1982						
01...	1040	12	296	5.5	03...	1135	57	187	.0		
27...	1150	E13	288	6.5	APR						
NOV					12...	1530	215	118	6.5		
30...	1235	E23	210	.0	MAY						
DEC					26...	1930	323	62	4.5		
03...	1440	25	210	4.0	JUL						
JAN, 1982					07...	1245	190	65	9.5		
08...	1150	29	200	.0	26...	1400	179	61	13.5		
FEB					SEP						
03...	1240	20	234	1.0	07...	1200	47	119	10.0		
10296500 WEST WALKER RIVER NEAR COLEVILLE, CA (LAT 38 30 55 LONG 119 27 15)											
OCT, 1981					APR, 1982						
01...	0940	38	178	6.0	05...	1040	152	143	2.5		
27...	1040	50	159	6.5	29...	1450	771	74	6.5		
NOV					MAY						
30...	1055	93	110	.0	26...	1110	1840	42	8.0		
DEC					JUL						
28...	1130	133	104	2.5	07...	1035	1070	41	7.5		
JAN, 1982					26...	1000	997	37	10.5		
28...	1550	96	124	4.0	SEP						
MAR					07...	1400	176	83	12.5		
03...	1025	158	129	.0							
10297500 WEST WALKER RIVER AT HOYE BRIDGE NEAR WELLINGTON, NV (LAT 38 43 40 LONG 119 25 40)											
JUL, 1982					SEP, 1982						
07...	1010	667	104	10.0	14...	1300	279	122	8.0		
AUG											
10...	1000	457	95	14.0							
10300000 WEST WALKER RIVER NEAR HUDSON, NV (LAT 38 48 35 LONG 119 13 35)											
AUG, 1982											
14...	1230	287	165	20.0							
10300600 WALKER RIVER NEAR MASON, NV (LAT 38 55 11 LONG 119 11 20)											
OCT, 1981					AUG, 1982						
23...	1055	83	391	7.0	19...	1300	355	200	15.0		
JUL, 1982					SEP						
14...	0940	812	137	18.5	13...	1030	309	230	9.0		
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)
10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV (LAT 38 50 50 LONG 119 42 10)											
OCT, 1981					APR, 1982						
01...	1105	50	239	--	29...	1450	1470	88	6.5	8.0	
30...	1115	84	211	--	MAY						
DEC					25...	1215	2240	56	--	8.0	
01...	1345	217	140	7.0	4.5	JUN					
30...	1420	377	125	7.7	5.0	29...	1535	1710	55	7.2	
JAN, 1982					9.0	JUL					
27...	1447	223	166	7.2	3.5	28...	1000	638	71	7.8	
MAR					14.0	SEP					
01...	1250	557	133	7.3	5.5	01...	1215	175	125	7.6	
25...	1350	302	153	7.5	11.0						

E: ESTIMATED.

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 (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
10309100 EAST FORK CARSON RIVER AT MINDEN, NV (LAT 38 56 48 LONG 119 46 45)									
OCT, 1981					APR, 1982				
02...	1540	2.6	229	17.0	16...	1300	1120	128	9.0
JAN, 1982					JUL				
25...	1545	192	166	4.0	19...	1200	385	76	20.0
FEB					AUG				
15...	1550	354	212	6.5	18...	1145	8.0	185	21.0
10311000 CARSON RIVER NEAR CARSON CITY, NV (LAT 39 06 30 LONG 119 42 40)									
OCT, 1981					APR, 1982				
06...	1020	13	540	9.0	06...	1320	566	224	3.0
NOV					JUL				
02...	1155	123	309	9.0	12...	1210	792	120	18.0
DEC					AUG				
03...	1510	342	190	4.5	02...	1130	311	219	18.5
JAN, 1982					SEP				
21...	1145	382	234	1.0	07...	1100	146	308	18.0
FEB									
09...	1500	325	229	5.0					
10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV (LAT 39 09 14 LONG 119 48 24)									
NOV, 1981					MAY, 1982				
10...	1450	.97	76	4.5	05...	1615	2.0	103	9.5
DEC					JUN				
09...	0945	.96	94	5.0	08...	1150	2.3	83	9.5
FEB, 1982					JUL				
09...	1000	.87	125	--	12...	1300	4.1	65	12.5
MAR					29...	1130	3.8	66	13.0
09...	1055	1.9	133	5.5	AUG				
APR					30...	0925	3.4	68	8.0
06...	1200	2.6	173	4.5					
10311200 ASH CANYON CREEK NEAR CARSON CITY, NV (LAT 39 10 35 LONG 119 48 16)									
DEC, 1981					MAY, 1982				
08...	1420	2.0	88	2.0	05...	1445	7.3	69	8.0
22...	1100	5.0	90	2.0	26...	1100	13	52	8.5
JAN, 1982					JUN				
12...	1045	2.4	91	2.0	08...	1345	9.7	58	9.0
FEB					JUL				
09...	1130	2.1	90	--	09...	1315	7.6	59	11.0
MAR					29...	0950	6.0	67	11.5
09...	1140	3.4	90	5.0	AUG				
APR					30...	1235	4.5	70	10.0
06...	0935	3.8	92	3.0					
23...	1000	5.9	84	7.0					
10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV (LAT 39 10 52 LONG 119 41 40)									
OCT, 1981					MAR, 1982				
08...	1000	15	688	9.5	25...	1200	451	214	10.5
DEC					JUL				
02...	1320	353	205	3.0	14...	1000	698	134	12.5
JAN, 1982									
14...	1255	507	222	2.0					
10312280 CARSON RIVER BELOW FALLON, NV (LAT 39 40 10 LONG 118 39 20)									
APR, 1982					AUG, 1982				
15...	1155	345	275	9.0	02...	1020	5.0	479	--
JUL					SEP				
16...	1030	43	400	17.0	02...	1005	6.3	573	17.0
10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK NEAR DEETH, NV (LAT 41 15 10 LONG 115 15 20)									
DEC, 1981					JUN, 1982				
30...	1215	30	221	2.5	30...	1240	167	184	13.5
FEB, 1982					AUG				
23...	1435	139	190	2.0	17...	1510	5.6	351	21.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)
10316500 LAMOILLE CREEK NEAR LAMOILLE, NV (LAT 40 41 30 LONG 115 28 30)											
OCT, 1981						MAY, 1982					
28...	1025	4.0	187	--	4.5	21...	1320	154	142	7.2	6.5
NOV						JUL					
09...	0905	9.3	--	--	4.5	12...	1305	143	88	--	10.0
FEB, 1982						SEP					
11...	1445	4.4	123	8.4	1.0	23...	1515	13	151	--	10.5
APR											
14...	1330	20	182	--	10.5						
10317420 MAHALA CREEK NEAR TUSCARORA, NV (LAT 41 20 16 LONG 115 54 32)											
MAR, 1982						JUL, 1982					
25...	1030	3.0	493	--	7.0	22...	1500	.41	416	7.7	14.5
MAY											
20...	1435	15	331	8.4	10.0						
10317450 GANCE CREEK NEAR TUSCARORA, NV (LAT 41 17 45 LONG 115 57 16)											
OCT, 1981						MAR, 1982					
01...	1150	1.5	372	8.5	12.0	25...	0930	6.1	313	--	5.5
NOV						MAY					
05...	1230	1.8	391	8.3	10.0	20...	1230	21	243	8.2	8.0
DEC						JUL					
22...	1255	5.7	384	8.5	3.0	22...	1305	2.3	345	--	19.0
10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE NEAR HALLECK, NV (LAT 41 10 50 LONG 115 29 35)											
OCT, 1981						JUN, 1982					
21...	1230	8.5	357	8.9	14.0	17...	1150	240	258	8.2	15.0
FEB, 1982						AUG					
23...	1055	488	226	8.5	.5	17...	1215	15	317	--	22.0
MAR											
23...	1145	173	260	--	7.0						
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)
10318500 HUMBOLDT RIVER NEAR ELKO, NV (LAT 40 56 00 LONG 115 38 00)											
OCT, 1981						APR, 1982					
15...	1140	1.7	502		10.5	22...	1300	968	364	9.0	
DEC						JUN					
03...	1150	12	626		6.5	18...	1330	1020	410	21.0	
FEB, 1982						AUG					
25...	1335	600	380		5.0	11...	1350	41	464	20.0	
10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK NEAR ELKO, NV (LAT 40 41 05 LONG 115 48 45)											
OCT, 1981						JUL, 1982					
27...	1425	17	535		8.0	14...	1145	211	245	16.0	
DEC						SEP					
17...	1235	20	600		1.0	22...	1105	25	423	13.0	
MAY, 1982											
17...	1400	176	289		14.5						
10322500 HUMBOLDT RIVER AT PALISADE, NV (LAT 40 36 25 LONG 116 12 05)											
OCT, 1981						APR, 1982					
29...	1130	32	571		7.0	29...	1150	1610	337	10.0	
NOV						JUN					
24...	1145	46	598		7.0	29...	1345	1470	366	16.5	
DEC						AUG					
30...	1225	131	507		4.5	30...	1120	77	540	21.0	
FEB, 1982						SEP					
25...	1530	1270	376		5.0	29...	1145	455	372	6.5	
MAR											
30...	1650	1100	388		5.5						
10323400 HUMBOLDT RIVER NEAR DUNPHY, NV (LAT 40 41 53 LONG 116 30 25)											
OCT, 1981						JUN, 1982					
28...	1505	19	648		8.0	28...	1430	1360	376	20.5	
DEC						AUG					
08...	1405	27	659		6.5	12...	1445	69	550	22.5	
APR, 1982											
28...	1255	1590	346		12.5						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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10323500 HUMBOLDT RIVER NEAR ARGENTA, NV (LAT 40 40 45 LONG 116 38 45)					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 (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)		
NOV, 1981					JUN, 1982						
12...	1445	.31	607	10.0	24...	1520	1360	366	21.5		
DEC					AUG						
18...	1420	19	666	1.0	17...	1425	13	532	25.5		
APR, 1982											
20...	1410	1650	385	10.5							
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)
10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 49 30 LONG 116 34 45)											
NOV, 1981					JUN, 1982						
12...	1245	2.6	432	8.6	7.0	24...	1130	22	428	--	20.0
DEC					AUG						
29...	1230	29	335	8.2	.5	17...	1205	3.2	370	8.7	22.0
APR, 1982											
22...	1520	286	190	--	13.5						
10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 10 16 LONG 117 12 23)											
OCT, 1981					MAY, 1982						
14...	1215	.34	589	8.7	13.5	27...	1215	6.1	345	8.5	18.0
DEC					JUL						
29...	1615	.73	603	8.1	8.0	15...	1145	.87	552	7.4	23.5
FEB, 1982					SEP						
24...	1230	.86	605	8.4	11.0	21...	1315	.72	551	--	20.0
MAR											
23...	1305	.56	607	--	17.5						
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)		
10327500 HUMBOLDT RIVER AT COMUS, NV (LAT 40 59 33 LONG 117 19 00)											
NOV, 1981					APR, 1982						
18...	1520	.15	2960	7.0	23...	1450	1700	515	15.5		
DEC					JUN						
18...	1120	.11	2990	5.0	24...	1355	1080	483	18.0		
FEB, 1982					AUG						
11...	1200	58	690	1.0	10...	1405	97	616	21.5		
10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 29 30 LONG 117 07 30)											
APR, 1982					JUL, 1982						
07...	1245	33	150	3.0	14...	1030	4.6	203	17.0		
MAY					SEP						
05...	1225	103	96	8.0	15...	1035	1.5	291	11.0		
10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 27 00 LONG 117 06 00)											
MAR, 1982					JUL, 1982						
11...	1140	22	232	6.5	14...	1245	2.1	588	24.0		
MAY											
05...	1350	161	165	11.0							

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM NEAR PARADISE VALLEY, NV (LAT 41 23 25 LONG 117 11 00)									
MAR, 1982					JUL, 1982				
11...	1245	.82	211	8.5	14...	1530	59	235	17.0
MAY					SEP				
05...	1350	40	203	9.5	15...	1435	2.3	288	15.5
10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 24 55 LONG 117 22 22)									
JAN, 1982					JUL, 1982				
13...	1100	7.6	414	7.5	15...	0850	50	300	18.5
MAR					SEP				
11...	0830	8.5	430	12.0	15...	1725	9.2	374	16.0
MAY									
06...	0945	37	250	12.0					
10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV (LAT 41 32 00 LONG 117 25 40)									
NOV, 1981					MAY, 1982				
18...	1220	12	224	--	06...	1315	182	92	11.0
JAN, 1982					JUL				
13...	1100	8.5	180	4.5	15...	1220	17	173	21.5
MAR					SEP				
11...	1630	63	129	9.5	16...	0930	7.4	247	16.0
10336715 MARLETTE CREEK NEAR CARSON CITY, NV (LAT 39 10 20 LONG 119 54 25)									
OCT, 1981					JUL, 1982				
09...	0930	.03	59	9.0	15...	1215	3.5	40	16.0
DEC					AUG				
17...	1205	.04	54	3.0	19...	1240	.75	42	18.0
MAY, 1982					SEP				
19...	1230	9.5	41	3.5	14...	1200	.17	46	13.5
JUN									
22...	1050	7.4	37	15.0					
10348000 TRUCKEE RIVER AT RENO, NV (LAT 39 31 55 LONG 119 47 05)									
OCT, 1981					APR, 1982				
07...	1600	487	113	12.0	08...	1140	789	116	7.0
NOV					22...	1530	3470	83	8.5
05...	1100	248	134	9.0	JUN				
DEC					07...	0910	3110	78	9.5
08...	1300	388	114	4.0	JUL				
JAN, 1982					08...	1145	719	104	14.0
07...	1500	637	119	.5	AUG				
FEB					03...	0912	216	118	14.5
03...	1100	408	131	3.0	SEP				
MAR					07...	1446	279	134	18.5
08...	1000	916	106	5.0					
10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV (LAT 39 12 12 LONG 119 52 17)									
OCT, 1981					JUN, 1982				
09...	1050	.91	60	7.0	07...	1005	10	37	9.0
DEC					JUL				
18...	1100	E2.1	52	2.0	15...	1330	5.3	43	18.0
FEB, 1982					AUG				
25...	1445	4.4	44	3.0	19...	1440	3.3	52	16.0
MAY					SEP				
06...	1645	15	35	4.5	14...	1300	2.8	51	14.0
DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
10348700 WASHOE LAKE NEAR CARSON CITY, NV (LAT 39 16 30 LONG 119 47 35)									
NOV, 1981					MAY, 1982				
03...	0925	5023.60	1170	9.0	05...	0915	5030.24	452	14.5
DEC					JUN				
10...	0920	5024.31	670	3.5	03...	0910	5030.33	412	17.5
FEB, 1982					JUL				
09...	0925	5027.10	312	1.0	07...	0815	5030.36	420	17.5
MAR					AUG				
10...	0840	5029.19	478	7.0	04...	0850	5029.81	469	19.5
APR					SEP				
05...	0845	5029.66	468	4.5	01...	1510	5029.28	499	27.5

E: ESTIMATED.

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV (LAT 39 19 45 LONG 119 48 00)									
DEC, 1981					MAY, 1982				
10...	1015	5025.50	240	5.5	05...	0930	5030.25	284	14.5
JAN, 1982					JUN				
20...	1430	5026.54	209	.5	03...	0950	5030.26	340	17.0
FEB					JUL				
09...	1015	5027.16	185	.0	07...	0845	5030.41	350	19.0
MAR					AUG				
10...	0940	5029.17	175	8.0	04...	0925	5029.71	387	20.0
APR					SEP				
05...	0945	5029.83	183	3.5	01...	1455	5029.24	426	27.0
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
10348900 GALENA CREEK NEAR STEAMBOAT, NV (LAT 39 21 43 LONG 119 49 37)									
OCT, 1981					APR, 1982				
07...	1230	4.5	73	8.0	12...	1200	6.5	118	5.0
NOV					MAY				
03...	1407	5.3	73	3.0	05...	1120	24	65	6.0
DEC					JUN				
08...	1035	1.0	88	2.0	03...	1400	39	59	15.0
JAN, 1982					JUL				
19...	1120	.46	143	.5	07...	1300	51	50	19.0
FEB					AUG				
09...	1411	.37	152	1.0	04...	1230	26	57	12.5
MAR					SEP				
10...	1300	1.4	213	6.5	02...	1130	15	62	12.0
APR									
05...	1116	.40	189	2.0					
10349300 STEAMBOAT CREEK AT STEAMBOAT, NV (LAT 39 22 40 LONG 119 44 33)									
JAN, 1982					AUG, 1982				
07...	1430	9.3	300	1.0	04...	0950	37	245	19.0
JUN					SEP				
03...	1225	94	235	15.5	02...	1040	8.1	281	15.0
JUL									
07...	0925	100	215	14.0					
10351650 TRUCKEE RIVER AT WADSWORTH, NV (LAT 39 38 19 LONG 119 16 09)									
OCT, 1981					APR, 1982				
07...	1235	55	255	13.0	21...	1250	2910	110	9.0
DEC					JUN				
03...	1030	182	185	5.0	02...	1655	2970	99	12.5
JAN, 1982					JUL				
13...	1220	511	234	1.5	06...	1215	987	160	18.0
FEB					AUG				
08...	1450	497	239	1.5	05...	0845	60	275	16.5
MAR					SEP				
08...	1245	1100	177	7.0	03...	1315	77	308	19.5
10352500 McDERMITT CREEK NEAR McDERMITT, NV (LAT 41 58 00 LONG 117 50 01)									
OCT, 1981					APR, 1982				
27...	1500	1.3	482	13.0	20...	1230	116	237	4.0
DEC					JUL				
09...	1140	13	297	4.0	15...	1840	15	464	24.0
JAN, 1982					SEP				
14...	0815	16	269	.0	16...	1525	1.4	386	16.5
MAR									
12...	1530	66	221	7.5					
10353600 KINGS RIVER NEAR OROVADA, NV (LAT 41 54 25 LONG 118 18 30)									
MAR, 1982					SEP, 1982				
12...	1050	18	140	1.0	14...	1300	1.8	157	13.0
JUL									
13...	1315	3.2	130	25.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
13082500 GOOSE CREEK ABOVE TRAPPER CREEK NEAR OAKLEY, ID (LAT 42 07 30 LONG 113 56 20)									
DEC, 1981					MAY, 1982				
04...	1015	32	340	.0	27...	1200	191	226	13.5
JAN, 1982					JUL				
27...	1330	28	--	.0	08...	1445	40	--	15.0
FEB					AUG				
18...	1300	350	224	.5	13...	1000	11	475	15.0
APR									
15...	1430	139	259	11.0					
13161500 BRUNEAU RIVER AT ROWLAND, NV (LAT 41 56 00 LONG 115 40 25)									
OCT, 1981					JUL, 1982				
20...	1200	9.3	222	10.0	14...	1610	92	156	21.0
APR, 1982									
13...	1550	884	131	6.0					
13174500 OWYHEE RIVER NEAR GOLD CREEK, NV (LAT 41 41 15 LONG 115 50 38)									
OCT, 1981					SEP, 1982				
01...	1025	118	237	13.0	07...	1700	129	189	15.5
05...	1415	39	237	12.0					
13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM NEAR OWYHEE, NV (LAT 41 55 20 LONG 116 04 10)									
OCT, 1981					SEP, 1982				
05...	1220	46	252	7.5	08...	1005	132	213	13.0
APR, 1982									
14...	1520	711	119	5.0					

HYDROGRAPHIC AREAS, STATE OF NEVADA

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
(A) Rio King Subarea
(B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
(A) Orovada Subarea
(B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamaille 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. Huntton V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
(A) Eastern Part
(B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
(A) Tonopah Flat
(B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
(A) Northern Part
(B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
(A) Northern Part
(B) Central Park
(C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
(A) Groom Lake V.
(B) Papoose Lake V.

159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahrump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
(A) Northern Part
(B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
(A) Northern Part
(B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
(A) Southern Part
(B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
(A) Northern Part (Round V.)
(B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. 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. Pahrangat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
(A) Jackass Flats
(B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

* Noncontributing part of the Colorado River Basin

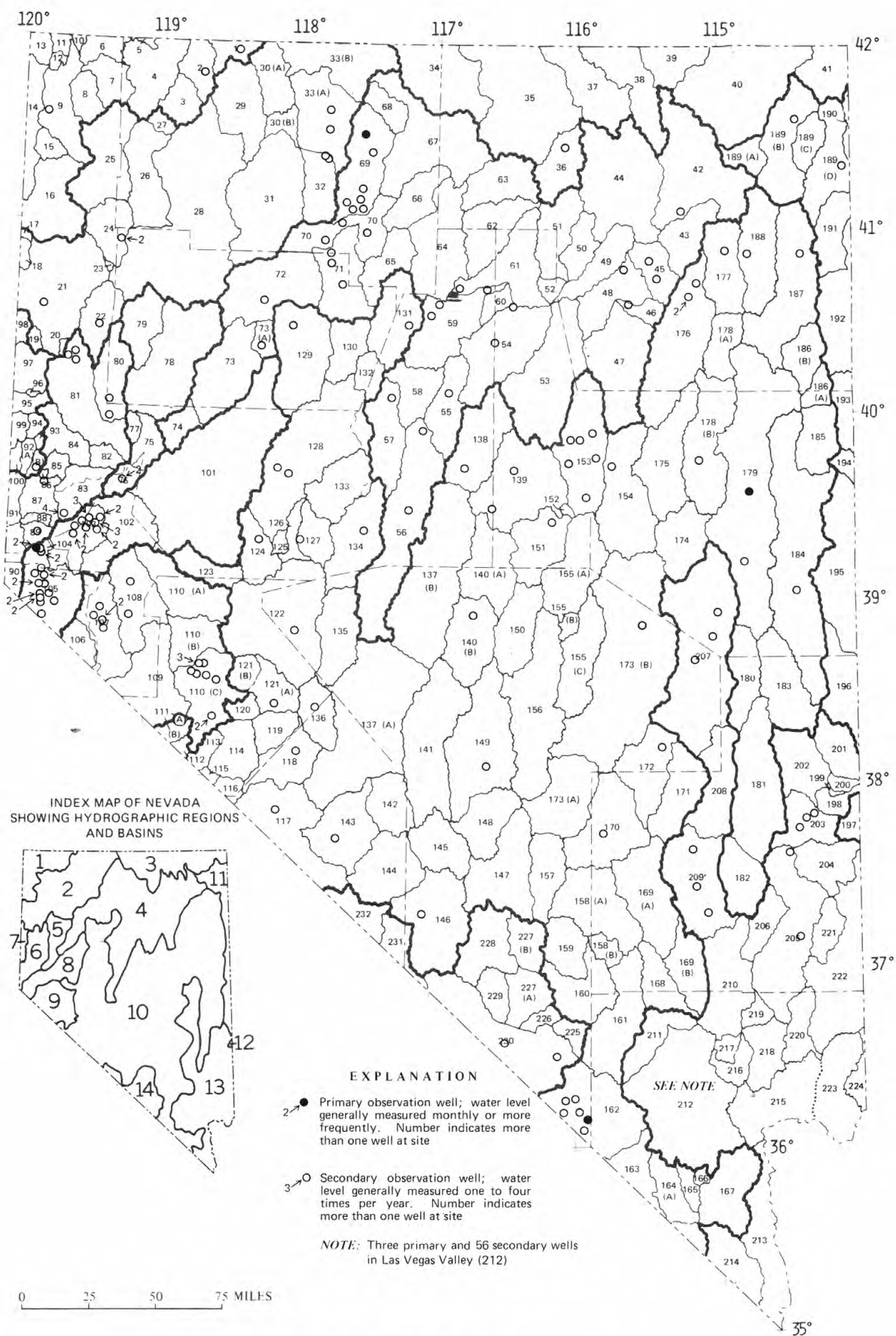


FIGURE 9.—Observation wells listed in this report.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10ACCL.

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. (0.36 m), depth 800 ft (243.8 m), cased to 472 ft (143.9 m), perforated 100 to 450 ft (30.5 to 137.2 m).

DATUM.--Altitude of land-surface datum is 2,885 ft (879.3 m). Measuring point: Edge of recorder shelf, 1.2 ft (0.37 m) 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 (8.64 m) below land-surface datum, Oct. 13, 1944; lowest measured, 112.70 ft (34.35 m) below land-surface datum, Nov. 7, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	110.22	104.14	101.28	99.58	--	102.40	--	101.94	106.41	--	109.30	--
10	109.00	104.11	100.85	99.16	--	101.47	104.68	--	--	108.27	108.43	107.45
15	107.66	103.12	101.50	99.45	--	101.46	104.02	--	--	108.53	--	107.15
20	107.28	102.53	101.08	98.54	--	--	104.02	--	--	108.82	--	106.63
25	106.74	102.30	100.65	98.41	--	--	104.02	--	--	108.99	108.32	106.19
EOM	105.06	101.87	100.58	98.97	--	--	104.02	--	--	108.88	108.04	105.73

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 (1.8 m), depth 17.4 ft (5.30 m), cased with iron.

DATUM.--Altitude of land-surface datum is 4,523 ft (1,378.6 m). Measuring point: Top of concrete floor, 5.2 ft (1.58 m) 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 (0.52 m) below land-surface datum, June 24, 1975; lowest measured, 11.03 ft (3.36 m) below land-surface datum, Nov. 16, 1961.

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. 27	8.98	Jan. 28	7.85	Apr. 30	3.94	July 21	4.84
Nov. 24	8.49	Feb. 24	3.17	May 28	3.74	Sept. 28	7.20
Dec. 27	8.42	Mar. 30	4.39				

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. (0.25 m), depth 110 ft (33.5 m), cased to 122 ft (37.2 m), perforated 20 to 120 ft (6.1 to 36.6 m).

DATUM.--Altitude of land-surface datum is 6,070 ft (1,850.1 m). Measuring point: Top of casing, 1.0 ft (0.30 m) 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, 10.39 ft (3.17 m) below land-surface datum, June 17, 1981; lowest measured, 17.87 ft (5.45 m) 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. 20	11.72	Jan. 27	10.94	Apr. 20	10.49	July 21	11.29
Nov. 16	11.42	Feb. 23	10.79	May 19	10.39	Aug. 18	11.64
		Mar. 24	10.61	June 16	10.64	Sept. 29	11.54

EAGLE VALLEY

391046119465902. Local number, 104 N15 E20 07BCDD2.

LOCATION.--Lat 39°10'46", long 119°46'59", Hydrologic Unit 16050201, in Carson City.

Owner: U.S. Geological Survey.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in. (0.05 m), depth 85 ft (25.9 m), cased to 85 ft (25.9 m), perforated 83 to 85 ft (25.3 to 25.9 m).

DATUM.--Altitude of land-surface datum is 4,802 ft (1,463.6 m). Measuring point: Hole in plastic cap, at land-surface datum.

REMARKS.--Eagle Valley; drilled as replacement well for well 391046119465901.

PERIOD OF RECORD.--1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.40 ft (10.01 m) below land-surface datum, Aug. 1, 1977; lowest measured, 84.22 ft (25.67 m) below land-surface datum, Nov. 3, 1980.

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. 6	dry	Mar. 11	dry	Apr. 6	dry	July 29	dry
Nov. 10	dry			May 5	dry		

391044119470201. Local number, 104 N15 E20 07CBAA1.

LOCATION.--Lat 39°10'44", long 119°47'02", Hydrologic Unit 16050201, in Carson City.

Owner: James Harkenrider; former owner, Dr. Evan Allred.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 8 in. (0.20 m), depth 105 ft (32.0 m), cased to 105 ft (32.0 m) perforated 85 to 105 ft (25.9 to 32.0 m).

DATUM.--Altitude of land-surface datum is 4,802 ft (1,463.6 m). Measuring point: Top of casing, through center hole, 1.0 ft (0.30 m) above land-surface datum.

REMARKS.--In Eagle Valley.

PERIOD OF RECORD.--1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.68 ft (17.88 m) below land-surface datum, Dec. 27, 1976; lowest measured, 88.05 ft (26.84 m) below land-surface datum, July 29, 1982.

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. 6	87.82	Nov. 10	86.85	Mar. 11	84.77	July 29	88.05

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. (0.25 m), depth 830 ft (253.0 m), cased to 140 ft (42.7 m).

DATUM.--Altitude of land-surface datum is 2,510 ft (765.0 m). Measuring point: Top of casing, 0.5 ft (0.15 m) 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 (13.30 m) below land-surface datum, June 3, 1946; lowest measured, 161.70 ft (49.29 m) below land-surface datum, Sept. 10, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	151.80	149.47	--	146.31	--	147.24	147.35	147.82	149.52	150.96	--	--
10	151.06	148.98	147.51	146.20	146.13	147.46	147.44	148.72	149.90	--	--	--
15	150.33	148.57	147.41	146.18	145.45	146.16	147.47	148.44	150.04	--	--	--
20	149.87	148.55	147.29	146.44	146.10	145.98	147.96	148.60	150.16	--	--	--
25	150.61	148.20	147.07	146.35	146.90	146.38	147.91	149.20	150.80	152.99	--	--
EOB	149.49	148.11	146.72	146.86	146.60	146.81	148.61	149.26	150.53	--	--	--

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

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. (0.15 m), depth 905 ft (275.8 m), cased to 84 ft (25.6 m).

DATUM.--Altitude of land-surface datum is 2,360.80 ft (719.57 m). Measuring point: Hole on west side of casing, 1.2 ft (0.37 m) 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 (14.29 m) above land-surface datum, June 3, 1946; lowest measured, 86.80 ft (26.46 m) below land-surface datum, June 25, 1979.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 2	76.64	Nov. 2	72.83	Dec. 7	72.31	Jan. 4	70.75	Feb. 1	69.80	Mar. 1	70.22
12	76.28	9	74.56	14	71.98	11	70.40	8	69.63	8	69.73
19	76.20	16	73.80	21	71.33	18	69.82	16	69.22	15	70.46
26	76.01	23	73.42	28	71.00	25	70.01	22	69.70	22	70.07
		30	72.92							29	70.56

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 5	71.08	May 3	73.33	June 1	75.47	July 6	78.43	Aug. 9	80.10	Sept. 7	79.42
12	71.40	10	73.25	7	76.07	12	78.92	16	80.15	13	78.87
19	72.65	17	74.10	14	76.55	19	79.81	23	80.18	21	78.60
26	73.00	24	74.70	23	77.41	26	79.30	30	78.83	27	78.35
				28	77.68						

360349115100001. Local number, 212 S22 E61 04BCB1.

LOCATION.--Lat 36°03'49", long 115°10'00", Hydrologic Unit 15010015, in Clark County.

Owner: Fitzpatrick.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in. (0.20 m), depth 355 ft (108.2 m).

DATUM.--Altitude of land-surface datum is 2,224.91 ft (678.15 m). Measuring point: Top of casing, 0.8 ft (0.24 m) above land-surface datum.

REMARKS.--State Engineer well no. 189, measurements supplied by Office of Nevada State Engineer.

PERIOD OF RECORD.--1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft (22.67 m) below land-surface datum, Jan. 25, 1939; lowest measured, 158.22 ft (48.23 m) below land-surface datum, Oct. 1, 1979.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 5	155.46	Nov. 2	155.19	Dec. 7	154.14	Jan. 4	153.74	Feb. 1	153.00	Mar. 1	153.30
12	155.40	9	155.16	14	154.04	11	153.99	8	152.78	8	152.30
19	155.57	16	154.82	21	153.67	18	153.10	16	152.80	15	153.44
26	155.37	23	154.74	28	153.55	25	153.27	22	152.88	22	153.60
										29	153.76

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 5	154.09	May 3	155.25	June 1	156.11	July 6	157.26	Aug. 9	157.65	Sept. 7	157.77
12	154.17	10	154.99	7	156.34	12	157.43	16	158.03	13	157.55
19	154.71	17	155.50	14	156.40	19	157.67	23	158.03	21	157.43
26	154.85	29	155.85	23	156.90	26	157.66	30	157.34	27	157.18
				28	156.90						

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: H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.

Geologic-unit codes: 110LSVG, Quaternary Las Vegas Formation; 110VLFL, Quaternary valley fill, undifferentiated; 111FLDP, Holocene flood-plain deposits; 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 (FEET)
1 N47 E30 15CDCD1	415800118370001	PINE FOREST FRM	13	I	110VLFL	U	200.
2 N45 E28 10CAB 1	415000118440001	ALDER CREEK RNCH	13	S	110VLFL	U	48.
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 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	114.
42 N37 E59 25BCBC1	410400115164001	MARBLE RANCH	7	H	110VLFL	U	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	BEOVAWE FARMS	11	I	110VLFL	U	300.
54 N31 E49 05CACC1	403500116284501	WILLIAM CONNELLY	11	H	110VLFL	W	10.
55 N26 E45 28CBAC1	400540116550001	FILIPPINI	15	S	110VLFL	U	16.
56 N18 E43 06DD 1	392700117110001	DARRELL BLANTON	15	I	110VLFL	U	241.
56 N24 E43 35CC 1	395335117062401	STIENEN RANCH	15	I	110VLFL	U	202.
57 N25 E41 12BCC 1	400320117190101	USGS MR-2	15	U	110VLFL	W	68.
59 N30 E44 18ADB1	402831117034201	COPPER CANYON MINE	15	I	110VLFL	U	300.
59 N31 E44 01DACA1	403520117181101	USGS	15	U	110VLFL	W	52.
59 N32 E47 03DAAC1	404032116391101	USGS	15	U	110VLFL	W	16.
61 N32 E45 11DACD1	403920116520001	USGS	15	U	110VLFL	U	171.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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 (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
16.	4380.	1968-	45.58	03/20/68	56.80	05/01/69
8.	4228.	1968-	4.17	04/14/71	13.76	03/22/77
6.	5200.	1968-	10.22	03/13/72	14.66	04/10/79
6.	4000.	1966-	37.91	09/15/66	54.97	04/17/79
6.	4013.	1966-	45.20	04/09/69	50.60	04/26/82
2.	4031.	1967-	3.77	04/16/73	14.60	04/26/82
2.	4031.	1967-	-2.25	06/14/67	10.62	04/26/82
16.	4200.	1971-	50.96	04/30/73	78.11	04/29/71
18.	4220.	1948-	36.54	04/21/48	116.58	03/23/77
16.	4235.	1973-	88.02	03/18/74	108.39	03/23/77
16.	4280.	1972-	95.69	04/06/78	144.57	04/06/82
2.	5700.	1970-	46.59	04/16/71	47.78	04/16/81
48.	5350.	1938-	0.32	04/28/69	20.80	02/26/45
48.	5950.	1934-	0.09	04/28/46	18.00	11/01/40
8.	5550.	1944-	-1.48	02/26/53	7.10	12/26/52
6.	5650.	1964-	77.48	04/05/79	90.92	03/17/70
42.	5500.	1944-	4.30	06/28/58	11.48	09/12/60
14.	4800.	1958-	54.66	04/10/78	69.28	09/28/66
48.	4698.	1948-	5.48	04/30/69	8.33	09/22/54
10.	5100.	1965-	3.64	04/29/82	10.45	03/23/76
16.	5750.	1969-	6.87	04/07/80	10.90	03/08/68
12.	6000.	1961-	-1.33	03/19/76	2.78	03/20/68
2.	4948.	1964-	38.83	04/15/70	58.54	08/05/64
4609.	1947-	5.25	04/30/69	6.91	03/29/82	6.91
4557.	1964-	29.81	04/13/71	32.48	05/28/64	31.13
4582.	1960-	2.32	04/30/69	8.30	08/16/60	3.84
6.	4520.	1949-	4.08	07/10/52	10.88	10/04/61
6.	4334.	1945-	26.07	03/18/53	47.25	04/12/82
1.	4317.	1960-	19.20	11/14/72	28.22	11/19/75
29.18	4326.	1968-	22.77	04/18/72	29.18	11/03/81
28. - 30.						
29.18						
26.49						
11/16/81						
26.63						
03/29/82						
26.62						
04/02/82						
26.63						
04/08/82						
26.38						
06/14/82						
26.42						
08/05/82						
26.68						
09/01/82						

WATER LEVELS (FEET BELOW LAND SURFACE)

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
69	N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	58.
69	N38 E39 28CDDD1	410806117353501	W G LONG	13	I	110VLFL	U	256.
69	N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
70	N35 E37 08DDCA2	405521117503301	G MCNINCH	13	I		U	77.
70	N36 E38 05DDCD1	410111117431801	USGS	13	U	110VLFL	W	24.
70	N36 E40 30AACAL	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71	N33 E38 32BABB1	404138117441501	USBLM GUTHRIE WELL	27	U		W	55.
71	N34 E37 22ACAA1	404940117475001	J BALLARD	27	U	110VLFL	U	50.
71	N35 E37 34AACA2	405130117480002	M HEUBACH	13	U		U	83.
72	N32 E33 33AAAA1	403620118153001	C&C CAMPBELL	27	I	110VLFL	U	288.
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 33ABCD1	392320119375301	CARLSBURG DEVEL CORP	29	U	121KTPK	U	300.
87	N20 E20 30DA 1	393415119462101	RASQUE CLUB	31	H	110VLFL	U	12.
89	N16 E19 10BBDA1	391617119502101	FLYING MF RANCH	31	U	110VLFL	U	94.
92B	N21 E19 33BBCD1	393850119514901	YORK	31	U	110VLFL	U	165.
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	280.
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 10BARD1	392132119232501	TERRY WEATHERMAN	19	I	110VLFL	U	300.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
10.	20.- 75.	4317.	1968-	8.10	11/08/71	29.80	09/03/81	28.93 28.66 25.39 25.20 24.85 22.00 26.00	11/10/81 11/19/81 03/29/82 04/02/82 04/06/82 06/14/82 08/05/82
16.		4317.	1968-	9.86	04/18/72	26.44	11/21/81	25.20 26.44 25.94 26.10 25.80	11/10/81 11/21/81 03/29/82 04/02/82 04/07/82
8.		4414.	1970-	0.69	04/23/71	9.01	11/12/81	9.01 2.16	11/12/81 04/06/82
16.		4300.	1947-	50.74	03/17/53	74.54	04/13/82	74.54	04/13/82
1.		4400.	1960-	4.86	04/25/69	13.49	09/20/66	7.15	04/13/82
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	36.31	04/13/82
6.		4432.	1939-	28.40	07/24/46	39.36	05/03/82	39.36	05/03/82
6.		4329.	1946-	9.31	03/21/56	14.16	04/12/82	14.16	04/12/82
		4301.	1946-	17.68	05/16/46	28.65	05/03/82	28.65	05/03/82
14.		4150.	1954-	28.44	03/31/81	45.85	03/25/70	30.23	04/05/82
12.	100.- 395.	4300.	1968-	119.10	04/23/69	125.11	04/05/82	125.11	04/05/82
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	7.29	04/21/82
10.		4135.	1953-	3.33	09/02/53	21.18	03/27/78	20.34	04/21/82
6.		3845.	1969-	23.65	07/31/69	27.14	07/14/70	26.23	04/21/82
48.		3800.	1968-	2.47	04/18/73	4.18	04/26/82	4.18	04/26/82
2.	45.- 47.	3845.	1967-	5.90	07/28/67	11.09	04/14/82	11.09	04/14/82
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	18.73	04/14/82
2.	58.- 60.	3865.	1967-	15.31	07/28/67	19.61	04/14/82	19.61	04/14/82
6.	60.- 290.	6355.	1977-	73.34	05/20/77	74.93	04/09/82	74.93	04/09/82
6.	265.- 295.	5980.	1977-	82.61	06/09/78	92.58	04/04/79	90.73	04/09/82
6.	160.- 180.	6242.	1977-	95.71	04/28/80	98.77	04/04/79	97.14	04/09/82
8.	83.- 300.	5785.	1977-	13.47	04/28/80	23.22	12/06/77	15.79	04/09/82
48.		4600.	1948-	1.41	03/25/82	15.02	10/06/60	1.41	03/25/82
12.		5065.	1968-	5.18	03/09/72	7.91	03/07/80	5.32	03/25/82
8.	100.- 165.	4965.	1957-	8.30	03/10/70	22.00	06/13/57	11.51	03/25/82
2.	66.- 86.	4335.	1977-	61.33	06/16/80	66.24	09/22/77	61.53	04/09/82
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	55.90 55.53	04/09/82 05/14/82
2.		4339.	1977-	51.69	03/11/81	54.30	09/22/77	52.21	04/09/82
8.	240.- 276.	4455.	1972-	224.19	07/14/72	228.40	04/14/82	228.16 228.40	12/28/81 04/14/82
2.	83.- 86.	4286.	1977-	56.01	07/26/77	64.34	03/31/82	64.34	03/31/82
12.	287.- 395.	4322.	1977-	90.12	04/11/78	96.06	12/20/79	92.55	03/30/82
12.	12.-	4324.	1970-	73.99	08/05/70	87.01	10/16/80	85.82	03/29/82
2.	52.- 82.	4271.	1977-	33.42	09/22/77	39.56	11/11/81	39.56 39.55	11/11/81 03/29/82
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	56.29	03/30/82
2.		4277.	1977-	48.51	04/11/78	52.79	11/17/81	52.79 52.54	11/17/81 03/30/82
12.	234.- 300.	4286.	1969-	48.00	04/01/69	64.09	08/20/80	50.38	03/30/82

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
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 E20 08BAAD1	391709119511201	JOE SAMMIT	510	H	110VLFL	U	35.
104 N15 E20 17CACD1	391418119513501	CHILDRENS HOME	510	P	110VLFL	U	595.
104 N15 E20 20CCBB1	391235119521501	PHILIP HARPER	510	I	110VLFL	W	38.
105 N11 E20 06ABB 1	385051119464101	USGS	5	U	110VLFL	U	16.
105 N12 E20 04BAA 2	385620119453101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06ABC 1	385612119464101	USGS	5	U	110VLFL	U	21.
105 N12 E20 07DBC 1	385452119464101	USGS	5	U	110VLFL	U	15.
105 N12 E20 14BAC 1	385430119422401	USGS	5	U	110VLFL	U	21.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

WATER LEVELS (FEET BELOW LAND SURFACE)

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
6.	338.- 378.	4297.	1976-	04/29/76	70.32	04/17/81
17.	137.- 265.	4286.	1970-	08/05/70	46.36	09/10/80
10.	175.- 255.	4279.	1980-	05/02/80	32.35	03/29/82
7.	156.- 176.	4299.	1978-	04/06/82	64.23	12/20/79
9.	180.- 220.	4286.	1970-	06/05/70	56.15	07/18/80
60.		4720.	1952-	03/13/52	28.84	04/07/80
18.		4650.	1952-	03/13/52	23.80	09/16/64
48.		4685.	1962-	03/29/71	28.63	03/24/82
2.	13.- 16.	4845.	1977-	05/06/78	6.01	09/28/77
2.	11.- 21.	4759.	1977-	06/18/81	9.07	03/28/79
2.	18.- 21.	4716.	1977-	06/10/80	6.21	10/11/77
2.	13.- 15.	4718.	1977-	03/28/79	3.52	10/11/77
2.	11.- 21.	4839.	1977-	09/18/80	10.27	04/02/78
3.98						09/22/82
4.37						08/17/82
5.06						07/19/82
3.96						06/21/82
5.98						05/19/82
7.60						04/20/82
7.26						03/18/82
6.77						02/18/82
6.15						01/22/82
6.17						12/16/81
5.65						11/19/81
5.68						10/19/81
1.66						09/22/82
2.02						08/17/82
2.05						07/19/82
1.98						06/22/82
2.37						05/19/82
2.25						04/20/82
1.93						03/18/82
1.61						02/18/82
1.77						01/24/82
2.03						12/16/81
1.81						11/19/81
3.11						10/20/81
2.45						08/17/82
2.32						07/20/82
3.15						06/22/82
2.46						05/19/82
4.03						04/20/82
3.98						03/18/82
1.97						02/18/82
3.77						01/24/82
4.52						12/16/81
4.21						11/19/81
5.45						10/20/81
5.24						08/17/82
5.09						07/19/82
4.84						06/21/82
5.82						05/19/82
7.44						04/20/82
7.31						03/18/82
7.00						02/18/82
7.01						01/24/82
6.72						12/16/81
6.85						11/17/81
7.25						10/19/81
1.62						08/17/82
1.70						07/19/82
1.89						06/21/82
1.28						05/19/82
3.68						04/20/82
3.68						03/18/82
3.15						02/18/82
3.77						01/21/82
4.29						12/17/81
4.35						11/19/81
4.34						10/20/81

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
105 N12 E20 17BA 1	385430119455001	JOHN HELWINKEL	5	I		U	365.
105 N13 E19 23DAA 1	385816119482401	USGS	5	U	110VLFL	U	21.
105 N13 E20 18BAB 1	385948119464401	USGS	5	U	110VLFL	U	21.
105 N13 E20 19ACC 1	385834119464101	USGS	5	U	110VLFL	U	11.
105 N13 E20 21BDD 1	385834119443201	USGS	5	U	110VLFL	U	22.
105 N13 E20 30DBB 1	385730119464101	USGS	5	U	110VLFL	U	21.

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
18.	4775.	1955-	9.26	07/11/67	26.81	09/18/81
						20.45 11/19/81 20.13 12/16/81 20.46 01/24/82 20.49 02/18/82 21.31 03/18/82 21.77 04/20/82 18.93 05/19/82 11.39 06/21/82 11.49 07/19/82 11.07 08/16/82 12.55 09/22/82
2.	4681.	1977-	0.79	06/22/82	5.03	09/20/81
						4.17 10/21/81 3.30 11/19/81 3.11 12/16/81 2.01 01/24/82 0.82 02/19/82 1.83 03/18/82 1.52 04/20/82 1.07 05/19/82 0.79 06/22/82 1.90 07/20/82 2.95 08/18/82 2.89 09/22/82
2.	4682.	1977-	1.62	05/19/82	4.43	09/29/77
						3.85 10/20/81 2.99 11/20/81 3.10 12/16/81 3.24 01/24/82 2.59 02/19/82 3.05 03/18/82 3.10 04/20/82 1.62 05/19/82 2.54 06/22/82 2.63 07/20/82 3.32 08/18/82 3.26 09/22/82
2.	4694.	1977-	1.03	05/07/80	5.61	09/29/77
						4.77 10/19/81 4.22 11/19/81 3.90 12/16/81 2.78 01/24/82 1.58 02/18/82 2.45 03/18/82 2.68 04/20/82 1.74 05/19/82 1.38 06/22/82 2.18 07/20/82 2.24 08/17/82 3.20 09/22/82
2.	4742.	1977-	10.09	05/02/81	13.02	10/02/77
						12.43 10/19/81 12.07 11/19/81 12.04 12/16/81 11.98 01/24/82 11.80 02/18/82 12.10 03/19/82 12.15 04/20/82 10.59 05/19/82 10.25 06/22/82 10.48 07/20/82 11.49 08/17/82 11.64 09/22/82
2.	4702.	1977-	1.88	09/28/77	8.45	10/20/81
						8.45 10/20/81 8.23 11/19/81 8.15 12/16/81 7.68 01/24/82 7.75 02/18/82 7.63 03/18/82 7.73 04/20/82 6.75 05/19/82 6.09 06/21/82 5.65 07/19/82 6.19 08/17/82 6.68 09/22/82

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
105 N13 E20 32CAA 1	385630119452001	MACK LAND & CATTLE CO	5	I	110VLFL	U	420.
105 N14 E19 25BA 1	390230119480001	CARSON INDIAN COL	5	I	110VLFL	U	239.
105 N14 E20 19ABB 1	390410119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 30DCB 1	390205119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 32DCC 1	390137119453601	USGS	5	U	110VLFL	U	21.
107 N10 E24 04CD 1	384500119182001	WALTER STRAUB	19	U	110VLFL	U	250.
107 N11 E23 03DC 1	385030119232001	V BRYAN	19	I	110VLFL	U	242.
107 N11 E24 32CBAD1	384619119192301		19	U		U	140.
107 N11 E24 32DC 1	384610119190001	A NUTTI	19	I	110VLFL	U	390.
107 N12 E23 24CB 1	385314119205901	THREE DBL BAR RANCH	19	U	110VLFL	U	287.
108 N12 E25 35DC 1	385110119090001	JOHN C BAKER	19	I	110VLFL	U	253.
108 N13 E25 01DBDC1	390059119075301	BILL BARTELS	19	I		U	505.
110C N06 E31 33BAB 1	382031118315901	SWEETWATER RANCH CO	21	U		U	86.
110C N06 E31 33BAR 2	382033118315501	SWEETWATER RANCH CO	21	U		U	126.

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DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
18.	4733.	1951-	7.22	07/11/67	16.39	10/20/81 13.59 11/19/81 12/30/81 12/16/81 01/24/82 11.69 02/19/82 11.39 03/18/82 11.61 04/20/82 11.82 05/19/82 12.41 06/22/82 8.62 07/19/82 8.98 08/17/82 9.91 09/22/82 9.39
12.	4680.	1951-	6.09	04/04/76	23.00	10/21/81 17.10 10/21/81 11/27/81 13.01 01/24/82 10.73 02/19/82 10.02 03/19/82 9.20 04/20/82 8.70 05/19/82 8.46 06/22/82 8.88 07/20/82 8.96 08/17/82 9.31 09/22/82 10.22
2.	4648.	1977-	5.90	04/08/80	9.46	10/19/81 8.32 10/19/81 8.44 11/19/81 8.45 01/22/82 8.12 02/18/82 7.73 03/18/82 7.33 04/20/82 6.94 05/19/82 6.70 06/21/82 6.73 07/19/82 6.93 08/17/82 7.23 09/22/82 7.52
2.	4654.	1977-	2.26	03/06/80	6.43	10/19/81 6.01 10/19/81 5.36 12/16/81 5.14 01/22/82 4.31 02/18/82 3.00 03/18/82 3.77 04/20/82 3.44 05/19/82 3.33 06/21/82 2.98 07/19/82 4.01 08/17/82 4.28 09/22/82 4.55
2.	4679.	1977-	2.59	06/21/82	9.54	10/19/81 8.32 11/19/81 7.93 12/16/81 7.21 01/22/82 6.20 02/18/82 5.56 03/18/82 5.71 04/20/82 5.35 05/19/82 3.53 06/21/82 2.59 07/19/82 2.66 08/17/82 3.95 09/22/82 3.53
14.	4900.	1948-	60.86	11/30/48	100.64	04/07/78
12.	4830.	1951-	45.21	06/17/57	76.16	04/07/78
16.	4855.	1980-	22.71	03/31/81	29.18	03/24/82
16.	4865.	1948-	23.62	03/03/48	89.21	06/22/61
16.	4745.	1972-	4.50	06/23/72	8.35	04/07/78
16.	4500.	1953-	3.39	08/18/58	20.44	04/07/78
16.	4360.	1977-	6.26	03/10/80	11.14	03/24/82
10.	5566.	1976-	40.38	06/30/76	55.29	05/12/82
	5566.	1966-	36.43	02/15/66	55.03	05/12/82

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
110C N08 E30 03DA 1	383440118365001	U S ARMY AMTN PLANT	21	N	110VLFL	U	514.
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.
122 N11 E36 18DB 1	384850117581001		23	U	110VLFL	U	
124 N16 E33 02DC 1	391620118143001	C B STARK	1	S	110VLFL	U	441.
127 N17 E35 36ADAA1	391749117585101	ANGUS DANGBERG	1	U	110VLFL	U	502.
128 N21 E34 27DC 1	393920118084001	GREGORY HOMESTEAD	1	U	110VLFL	U	114.
128 N21 E35 31D 1	393840118050001	USBLM	1	S	110VLFL	U	50.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
131 N30 E42 24CCAD1	402710117124001	USBLM	15	S	110VLFL	U	54.
134 N17 E40 08CBA 1	392100117310001	SMITH CREEK RCH	15	S	110VLFL	W	55.
136 N06 E37 21D 1	382200117510001		21	U	110VLFL	U	300.
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RCH	15	H	110VLFL	U	
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.
140B N12 E47 18C 1	385300116440001	PINE CREEK RANCH	23	S	110VLFL	U	
143 S03 E39 16CA 1	374036117392901		9	S	110VLFL	U	60.
146 S08 E44 08AA 2	371553117034302	DON TERREL	23	U	110VLFL	U	250.
149 N03 E48 32B 1	380400116380001	JOHN J CASEY	23	S	110VLFL	U	150.
151 N18 E51 34D 1	392310116125001	BARTHOLEMA CORP	11	S	110VLFL	U	134.
153 N19 E53 12C 1	393143115572701	IRENE ANDERSON	11	H	111FLDP	W	8.
153 N21E52 01BC 1	394342114385401	USRLM	11	S	110VLFL	W	70.
153 N22 E54 27CA 1	394520115524001	ROBERT STUCKI	11	H	110VLFL	W	94.
153 N23 E53 27BB 1	395100115593001	USGS	11	U	110VLFL	W	22.
153 N23 E53 30DD 1	395020116030001	USGS	11	U	110VLFL	W	22.
153 N23 E54 18DB 1	395220115561001	USGS	11	U	110VLFL	U	32.
154 N21 E55 09B 1	394200115461001	R W HOOPER	33	H	110VLFL	U	34.
162 S19 E53 33DAA 1	361523116005101	R S HARMER	23	U	110VLFL	W	775.
162 S20 E52 23BBA 1	361204116060301	W M TURNER	23	U	110VLFL	W	500.
162 S20 E53 06CDA 1	361405116033201	ROOKRIDGE &CARRADO	23	U	110VLFL	U	200.
162 S20 E53 14DCB 1	361225115590301	WILLIAMS&CRE	23	H	110VLFL	U	254.
162 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
18.	441.- 696.	4125.	1954-	40.28	05/12/82	117.86	09/27/65	40.28	05/12/82
2.	60.- 62.	4056.	1968-	31.69	03/18/68	35.39	05/12/82	35.39	05/12/82
18.	328.- 345.	4140.	1952-	95.10	11/21/52	108.76	06/30/76	107.90	05/12/82
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	212.66	05/12/82
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	258.37	05/12/82
18.	264.- 436.	4372.	1952-	242.60	11/21/52	257.29	04/13/70	248.44	05/12/82
2.	16.- 18.	4010.	1968-	8.54	04/23/73	9.93	05/12/82	9.93	05/12/82
2.	39.- 41.	4039.	1968-	18.75	03/18/68	22.02	05/12/82	22.02	05/12/82
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	33.88	03/15/82
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	42.11	03/19/82
6.		4545.	1968-	95.47	04/13/71	100.60	03/15/82	100.60	03/15/82
10.		4570.	1961-	36.68	12/13/61	40.01	03/15/82	40.01	03/15/82
8.		4160.	1955-	216.68	01/13/55	224.94	03/23/64	219.09	11/16/81
8.		5250.	1950-	27.00	02/01/50	127.50	05/08/75	107.53	11/17/81
11.		3500.	1955-	28.04	06/07/56	33.22	04/22/81	32.82	11/18/81
8.		3480.	1955-	32.33	03/23/64	35.93	03/17/66	35.29	11/18/81
16.		4240.	1963-	12.97	04/12/78	21.57	03/21/65	15.24	04/05/82
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	12.48	04/13/82
6.		6054.	1966-	6.96	03/21/77	13.36	12/02/81	13.36	12/02/81
8.		5312.	1968-	72.14	04/23/73	73.64	03/06/75	73.49	03/15/82
48.		6000.	1968-	23.41	05/01/73	36.92	03/19/68	25.81	03/08/82
8.		6260.	1964-	47.31	04/28/73	56.70	03/16/74	50.86	03/16/82
6.		6230.	1953-	39.15	03/02/53	46.35	03/24/64	43.18	03/16/82
24.		6820.	1968-	0.85	03/20/79	5.12	03/24/81	4.64	03/08/82
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69	46.36	03/15/82
14.		4001.	1968-	34.84	04/15/68	36.45	03/18/82	36.45	03/18/82
6.		5500.	1962-	108.77	03/19/82	113.42	05/04/72	108.77	03/19/82
6.		6330.	1951-	93.69	03/16/66	96.11	04/19/71	94.72	03/16/82
30.		6500.	1962-	3.94	03/20/79	7.41	03/24/64	6.36	03/17/82
8.		5888.	1965-	48.78	04/08/66	65.28	03/16/82	65.28	03/16/82
12.		5858.	1949-	5.49	08/11/49	44.27	03/16/82	44.27	03/16/82
2.	20.- 22.	5820.	1964-	11.60	04/22/69	13.36	03/16/82	13.36	03/16/82
2.	20.- 22.	5821.	1964-	14.05	04/22/70	16.16	04/22/69	14.72	03/16/82
2.	30.- 32.	5800.	1964-	16.45	11/18/66	18.24	03/16/82	18.24	03/16/82
60.		5950.	1951-	10.67	03/26/56	20.80	10/12/62	15.67	03/17/82
12.		2607.	1947-	-56.65	06/17/48	46.58	03/19/82	46.58	03/19/82
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58	45.50	03/19/82
14.	30.- 168.	2558.	1952-	15.43	02/02/59	29.94	03/06/81	24.80	03/19/82
8.		2679.	1945-	-23.20	03/06/45	90.61	02/27/75	83.10	03/19/82
10.		2684.	1947-	32.20	05/28/53	47.41	03/06/79	45.18	03/19/82

WATER LEVELS (FEET BELOW LAND SURFACE)

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
170 S03 E55 05BDD 1	374256115485501		17	S	110VLFL	U	20.
172 N04 E58 36A 1	381000115240001	USBLM	23	S	110VLFL	U	
173B N11 E57 09CD 1	384920115343001	USBLM	23	S	110VLFL	U	354.
176 N32 E60 29C 1	403639115133001	USGS	7	U	110VLFL	U	202.
176 N32 E60 29C 2	403730115134002	USGS	7	U	110VLFL	W	15.
176 N33 E60 35AD 1	404140115095701		7	S	110VLFL	U	12.
177 N35 E62 27B 1	405310114574001	USGS	7	U	110VLFL	U	286.
178B N22 E60 26A 1	394600115120001	PARIS WELL	33	U	110VLFL	U	130.
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	33	I	110VLFL	U	200.
184 N13 E67 08D 1	390000114282001	A SCHAURMAN	33	S	110VLFL	W	45.
187 N34 E67 06A 2	405110114262002	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	ECCLES RANCH	7	U	110VLFL	W	28.
189D N40 E69 13D 1	412100114060001	GAMBLE RANCH	7	S	110VLFL	U	
203 S01 E68 33B 1	374910114231001	LAVON PHILLIPS	17	I	110VLFL	U	120.
203 S02 E68 08B 5	374750114242001	USGS	17	U	110VLFL	U	110.
203 S03 E67 02A 1	374317114265801	GRANT LEE	17	I	110VLFL	U	225.
205 S04 E67 18B 1	373627114315301	EMORY CONAWAY	17	I	110VLFL	U	165.
205 S09 E67 14BDBA2	371012114280302		17	I		U	55.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.
207 N11 E61 35A 1	384640115045001	PUBLIC DOMAIN	33	S	110VLFL	U	44.
207 N12 E62 18D 1	385400115024001	USGS	33	U	110VLFL	U	108.
209 S04 E60 02A 2	373806115125102	NEIL STEWART	17	U	110VLFL	U	255.
209 S06 E61 18DC 2	372500115104002	KENT WHIPPLE	17	U	110VLFL	W	41.
209 S08 E61 02C 1	371640115072001	LAMB	17	I	110VLFL	U	92.
212 S19 E57 28ADA 1	361622115350501	PAUL KINGSTON	3	H		U	
212 S19 E60 04DAB 1	361939115154801	NEV DIV FORESTRY	3	I	110VLFL	A	780.
212 S19 E61 31ADCD1	361514115112901	WILLIAM STYRES	3	H		U	300.
212 S19 E62 32BBA 1	361542115042901	USGS	3	U	110LSVG	U	95.
212 S20 E60 01ADC 1	361416115123701	ANN JONES	3	U	110VLFL	U	148.
212 S20 E61 01ACC 1	361425115061901	USGS	3	U	110LSVG	U	84.
212 S20 E61 02DBB 1	361419115072201	HARTWELL & LOWE	3	U	110VLFL	A	785.
212 S20 E61 04BDC 1	361426115095001		3	U	110VLFL	U	270.
212 S20 E61 07CCB 1	361301115115401	ROGERS	3	U	110VLFL	U	300.
212 S20 E61 11CDD 1	361305115073201	USGS	3	U	121MDCK	U	62.
212 S20 E61 12DBC 1	361329115062301	USGS	3	U		U	77.
212 S20 E61 14CCCC1	361212115065901	USGS	3	U		U	46.
212 S20 E61 17CDB 1	361222115105601	LTVWD	3	U	110VLFL	U	655.
212 S20 E61 21BAAB1	361209115091301		3	U		U	102.
212 S20 E61 27BDA 1	361102115083601	USGS	3	U	110VLFL	U	15.
212 S20 E61 29DAB 2	361046115101901		3	H	110VLFL	U	105.
212 S20 E61 30ABB 1	361117115114101	USGS	3	U		U	29.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIA- ETER PERFORATED	(INCH)	PERIOD OF RECORD	ALTIUDE (FEET)	WATER LEVELS (FEET BELOW LAND SURFACE)				DATE	CURRENT DATE	DATE	DATE
				HIGHEST	LOWEST	DATE	DATE				
8.		1968-	5080.	18.73	22.82	01/18/77	03/15/80	21.54	03/23/82		
10.		1963-	5200.	24.30	26.62	05/09/63	04/22/71	24.95	03/18/82		
6.		1948-	5072.	168.62	177.61	03/19/82	09/16/49	168.62	03/19/82		
6.		1949-	6000.	1.08	3.85	04/10/78	03/07/77	2.58	03/15/82		
2.		1960-	6000.	0.75	7.48	03/31/70	09/21/61	4.52	03/15/82		
14.		1948-	6000.	4.80	12.53	06/10/49	09/21/61	9.09	03/15/82		
6.		1941-	5650.	6.38	11.07	04/04/72	05/03/55	10.07	03/30/82		
6.		1967-	6190.	59.85	65.39	04/21/69	03/19/81	65.27	03/17/82		
16.		1951-	6500.	31.76	41.83	04/23/70	03/10/61	35.92	03/18/82		
36.		1951-	5800.	11.23	18.60	04/21/69	09/23/61	14.31	03/18/82		
16.		1948-	5550.	26.85	30.72	03/27/51	09/17/64	29.60	03/30/82		
12.		1968-	5610.	12.56	15.14	04/13/79	03/28/68	14.15	03/30/82		
60.		1950-	5250.	8.36	15.21	04/29/69	02/28/68	11.24	03/30/82		
6.		1968-	4800.	5.69	17.28	03/13/74	03/19/81	7.46	03/30/82		
10.	60. - 80.	1946-	4850.	30.32	41.63	04/25/46	03/11/81	38.57	03/24/82		
8.		1949-	4720.	10.72	22.82	03/20/50	08/27/64	18.50	03/24/82		
10.		1962-	4605.	20.74	24.10	02/24/62	03/11/81	23.29	03/24/82		
14.		1963-	4360.	13.67	26.26	03/15/80	11/18/65	14.53	03/24/82		
2670.		1977-	2670.	26.40	33.00	03/15/80	01/21/77	28.37	03/24/82		
48.		1965-	5400.	30.00	32.87	03/12/68	03/20/80	31.07	03/18/82		
6.		1953-	5400.	3.20	13.66	03/16/76	10/13/62	8.66	03/18/82		
6.		1962-	5600.	44.97	53.51	04/24/70	04/13/78	52.84	03/18/82		
12.		1973-	4200.	88.60	183.41	03/23/73	03/23/82	183.41	03/23/82		
6.		1960-	3550.	5.85	11.76	02/23/63	01/18/77	10.36	03/23/82		
10.		1952-	3020.	14.93	28.06	03/23/82	02/24/76	14.93	03/23/82		
8.		1978-	5660.	379.70	518.90	07/25/80	03/11/79	493.26	04/07/82		
16.		1946-	2454.	-30.40	73.42	04/05/46	06/04/79	64.63	03/02/82		
9.	180. - 300.	1980-	2200.	123.74	127.24	02/24/81	06/19/81	126.12	03/02/82		
4.	91. - 95.	1979-	1958.	90.62	91.45	05/01/81	03/02/81	90.82	03/02/82		
2125.		1974-	2125.	97.30	116.94	03/04/74	06/10/80	112.24	03/02/82		
4.	80. - 84.	1979-	1919.	60.94	62.48	05/01/81	09/29/80	62.27	03/02/82		
8.	90. - 430.	1949-	1900.	-17.00	60.85	03/27/50	11/16/70	31.02	03/02/82		
2103.		1976-	2103.	75.70	84.92	03/04/76	03/02/82	84.92	03/02/82		
10.		1970-	2228.	51.40	78.88	02/01/70	11/07/79	67.40	03/02/82		
4.	58. - 62.	1979-	1920.	37.64	38.91	02/26/80	09/29/80	38.33	03/02/82		
4.	73. - 77.	1981-	1870.	52.79	54.02	06/19/81	03/02/81	53.57	03/02/82		
4.	43. - 46.	1981-	1910.	27.55	28.14	03/02/81	06/19/81	28.07	03/02/82		
10.	550. - 640.	1974-	2146.	124.39	204.12	03/04/74	09/29/80	185.85	03/02/82		
2065.		1981-	2065.	76.02	77.68	03/02/82	06/15/81	76.02	03/02/82		
4.	11. - 15.	1979-	2010.	8.97	11.00	06/10/80	03/03/82	11.00	03/03/82		
8.		1978-	2079.	22.17	28.35	02/29/80	10/25/78	24.80	03/03/82		
4.	25. - 29.	1981-	2170.	6.67	8.03	03/03/82	03/02/81	6.67	03/03/82		

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
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 E61 36BCC 1	361004115065301	NV HWY DPT	3	U		U	15.
212	S20 E62 20ADA 1	361156115034801		3	U	110VLFL	W	155.
212	S20 E62 21AAC 1	361204115024901	USGS	3	U		U	95.
212	S20 E62 29DCA 1	361036115040401		3	U	110VLFL	W	98.
212	S20 E62 31BCC 1	360958115054901	NV HWY DPT	3	U		U	30.
212	S21 E61 01ACC 1	360908115062901	USGS	3	U		U	24.
212	S21 E61 03AAA 1	360924115081101	USGS	3	U	110VLFL	U	15.
212	S21 E61 03ABA 1	360930115083401	USGS	3	U	110VLFL	U	25.
212	S21 E61 04AAD 1	360910115092001	HOME LUMRER	3	U	110VLFL	A	793.
212	S21 E61 04ABC 1	360921115093601	USGS	3	U		U	17.
212	S21 E61 04DDB 1	360846115091401	BOULDER DAM INC	3	U		U	500.
212	S21 E61 04DDB 2	360846115091402	USGS	3	U	110VLFL	U	20.
212	S21 E61 09BBB 1	360838115101801	USGS	3	U	110VLFL	U	25.
212	S21 E61 15DDDD1	360701115081301	USGS	3	U		U	24.
212	S21 E61 17BAD 1	360735115105201	USGS	3	U	110LSVG	U	45.
212	S21 E61 22BBA 1	360649115090001	LTVWD	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 26DDB1	360522115072101	USGS	3	U		U	30.
212	S21 E61 29AAC 1	360543115101301	MORRIS WOLLMAN	3	U	110VLFL	A	540.
212	S21 E61 36ADC 3	360449115061201	USGS	3	U	110VLFL	U	26.
212	S21 E62 06DBB 1	360905115052701	NV HWY DPT	3	U		U	30.
212	S21 E62 06DCC 1	360846115052601	NV HWY DPT	3	U		U	50.
212	S21 E62 09ABR 1	360833115031901	USGS	3	U	110VLFL	U	37.
212	S21 E62 10ACA 1	360826115020001	NEVADA POWER CO	3	U	110VLFL	A	715.
212	S21 E62 10ACD 1	360817115020301	NEVADA POWER CO	3	U	110VLFL	W	30.
212	S21 E62 17DAB 1	360744115050801	USGS	3	U		U	11.
212	S21 E62 19AAB 1	360651115050501	LTVWD	3	U	110VLFL	U	23.
212	S21 E62 19BAC 1	360644115054801	USGS	3	U		U	34.
212	S21 E62 20DDD 1	360601115034401	L BILLMAN	3			U	500.
212	S21 E62 28AAC 1	360548115024601	USGS	3	U		U	27.
212	S21 E63 29BBB 1	360832115060201	USGS	3	U		U	80.
212	S22 E60 01DDD 1	360318115123501	LTVWD	3	U	110VLFL	W	1071.
212	S22 E61 01BAB 1	360415115064101	USGS	3	U		U	24.
212	S22 E61 01CCC 1	360328115065501	USGS	3	U		U	55.
230	S16 E49 18DC 1	363310116294001	USBLM	23	U	110VLFL	U	348.
230	S17 E52 08CDB 1	362929116085701	HERSHEL & ETAL CLARK	23	I	110VLFL	U	246.

DIAM- ETER	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	27.- 31.	2000.	1981-	8.47	06/19/81	11.92	03/02/81	9.24	03/03/82
4.	14.- 18.	2155.	1981-	10.82	06/19/81	13.21	03/02/81	11.21	03/03/82
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	58.31	03/03/82
4.	18.- 22.	2010.	1981-	6.40	03/03/82	8.01	06/19/81	6.40	03/03/82
2.	12.- 15.	1838.	1979-	8.30	03/02/80	9.36	09/30/80	9.33	03/01/82
8.		1790.	1970-	70.00	03/04/70	86.39	10/12/77	70.43	03/02/82
4.	91.- 95.	1795.	1981-	79.79	03/02/82	84.96	06/25/81	79.79	03/02/82
8.		1766.	1971-	44.95	03/02/82	75.06	10/12/77	44.95	03/02/82
2.	26.- 30.	1790.	1980-	8.39	03/01/82	10.28	09/30/80	8.39	03/01/82
4.	20.- 24.	1840.	1979-	7.02	02/26/80	7.94	06/19/81	7.84	03/02/82
4.	11.- 15.	1990.	1979-	7.17	02/26/80	8.42	06/09/80	7.38	03/03/82
4.	21.- 25.	2008.	1979-	9.97	02/26/80	11.26	06/17/81	10.89	03/03/82
10.	642.- 770.	2039.	1944-	-46.70	02/08/50	82.38	09/29/80	69.40	03/03/82
4.	13.- 14.	2047.	1981-	9.08	03/03/82	9.54	03/02/81	9.08	03/03/82
8.		2042.	1970-	15.58	03/02/79	28.95	02/20/73	18.61	03/03/82
4.	16.- 20.	2042.	1979-	7.46	03/03/82	9.23	10/22/79	7.46	03/03/82
4.	21.- 25.	2075.	1979-	10.60	06/12/80	17.15	09/14/79	13.42	03/03/82
4.	21.- 24.	2000.	1981-	15.47	03/01/82	15.74	07/02/81	15.60	10/19/81
4.	41.- 45.	2120.	1979-	22.60	09/30/80	26.69	02/26/80	24.90	03/03/82
16.	318.- 786.	2041.	1963-	48.53	03/10/78	127.03	09/30/80	58.59	03/01/82
6.		2072.	1940-	-35.65	01/24/43	93.72	07/10/78	46.38	03/01/82
4.	20.- 24.	1950.	1981-	12.87	06/23/81	14.30	03/02/81	13.01	03/01/82
4.	26.- 30.	2010.	1981-	14.09	06/25/81	15.53	03/01/82	15.53	03/01/82
8.		2140.	1970-	62.36	02/12/73	113.95	07/12/78	84.30	03/01/82
2.	23.- 26.	1948.	1977-	17.00	08/03/77	22.17	09/30/80	20.73	03/01/82
2.	26.- 30.	1778.	1980-	12.91	06/11/80	13.32	02/26/81	13.15	03/02/82
2.	46.- 50.	1785.	1980-	8.28	03/02/82	9.87	09/30/80	8.28	03/02/82
2.	34.- 37.	1715.	1977-	13.41	02/23/81	17.00	08/03/77	14.06	03/02/82
13.	50.- 80.	1705.	1972-	12.06	02/27/79	19.97	02/22/72	14.72	03/02/82
14.		1695.	1973-	5.73	01/23/79	10.33	02/23/81	9.59	03/02/82
4.	7.- 11.	1730.	1981-	3.80	06/25/81	6.89	03/02/82	6.89	03/02/82
2.		1840.	1979-	11.15	06/05/79	12.29	02/26/81	11.95	03/01/82
4.	30.- 34.	1890.	1981-	15.93	03/01/82	23.86	03/02/81	15.93	03/01/82
4.		1720.	1973-	-50.80	03/05/82	-42.00	07/14/77	-50.80	03/05/82
4.	23.- 27.	1665.	1981-	17.28	03/17/81	19.85	03/02/81	19.36	03/02/82
4.	76.- 80.	1590.	1980-	18.01	06/19/81	31.06	06/26/80	22.15	03/02/82
20.	250.-1055.	2363.	1969-	253.50	02/25/72	285.02	03/01/82	285.02	03/01/82
4.	20.- 24.	2005.	1981-	23.52	03/01/82	23.66	03/09/81	23.52	03/01/82
4.	51.- 55.	2032.	1981-	46.69	06/25/81	47.41	03/01/82	47.41	03/01/82
12.		2375.	1955-	103.10	02/12/55	113.82	03/18/82	113.82	03/18/82
12.		2395.	1960-	33.24	02/16/65	57.28	03/08/77	35.24	03/18/82

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

STATION NUMBER	STATION NAME	DATE OF SAMPLE	COUNTY	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350726114375501	213 S32 E66 33BBB 1 CROMER WELL	81-10-14	003	111FLDP	96	511.00
350910114344001	213 S32 E66 24BBA 1 SUNDANCE SHORES WELL	81-10-14	003	110VLFL	480	727.00

STATION NUMBER	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (UNITS)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)
350726114375501	81-10-14	1015	1260	7.9	390	100	35	120	2.8	3.2	310
350910114344001	81-10-14	1200	1330	7.8	290	83	20	160	4.3	3.4	210

STATION NUMBER	DATE OF SAMPLE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
350726114375501	81-10-14	120	20	828	<.10
350910114344001	81-10-14	200	30	790	1.3

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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