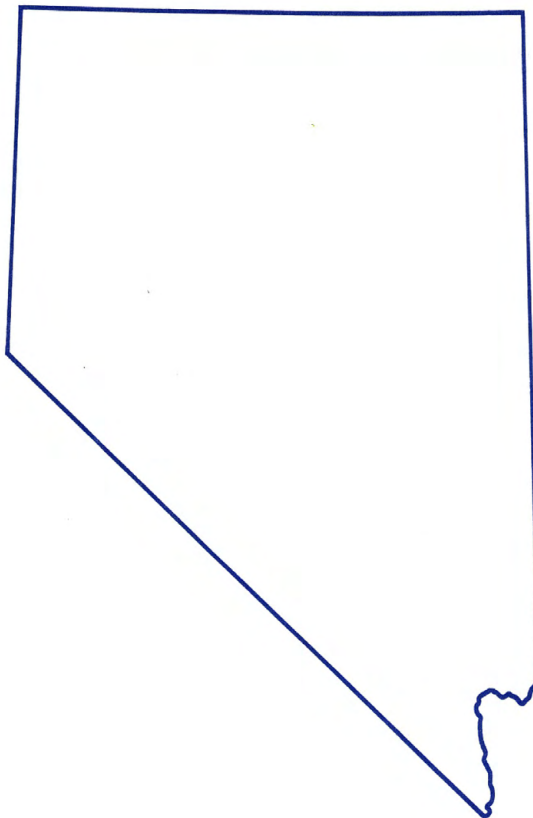
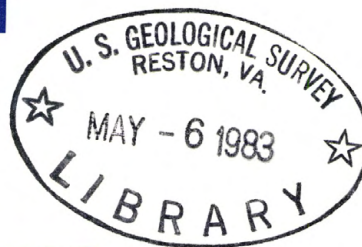


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Water Resources Data Nevada

Water Year 1981



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-81-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1981

1980

OCTOBER

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AUGUST

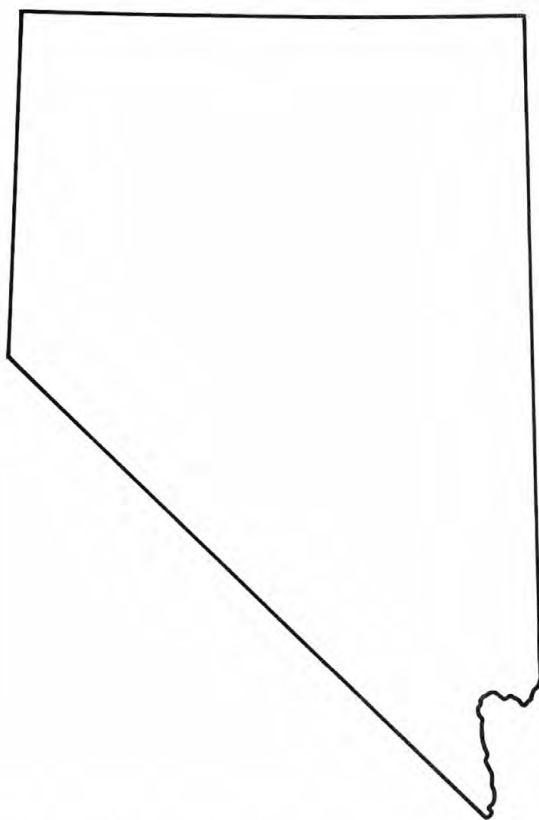
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Water Resources Data Nevada Water Year 1981



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-81-1
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

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705 North Plaza Street
Carson City, Nevada 89701

REPORT DOCUMENTATION PAGE		1. REPORT NO. USGS/WRD/HD-82/024	2.	3. Recipient's Accession No. 1430804
4. Title and Subtitle Water Resources Data, Nevada, Water Year 1981			5. Report Date December 1982	6.
7. Author(s)			8. Performing Organization Rept. No. USGS-WDR-NV-81-1	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division Room 227, Federal Building 705 North Plaza Street Carson City, Nevada 89701			10. Project/Task/Work Unit No.	
			11. Contract(C) or Grant(G) No. (C) (G)	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division Room 227, Federal Building 705 North Plaza Street Carson City, Nevada 89701			13. Type of Report & Period Covered Annual - Oct. 1, 1980 to Sept. 30, 1981	
15. Supplementary Notes Prepared in cooperation with several Federal, State, and local agencies.			14.	
16. Abstract (Limit: 200 words) Water-resources data published herein for the 1981 water year comprise the following records: • Water discharge for 132 gaging stations on streams, canals, and drains. • Discharge data for 82 peak-flow stations and 7 low-flow stations on streams. • Stage and contents for 21 lakes and reservoirs. • Water levels for 235 observation wells. • Water-quality data for 106 stream, canal, and drain sites, 13 lake and reservoir sites, and 4 wells. Additional water data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.				
17. Document Analysis a. Descriptors *Nevada, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoir, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses. b. Identifiers/Open-Ended Terms c. COSATI Field/Group				
18. Availability Statement No restriction on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161		19. Security Class (This Report) UNCLASSIFIED		21. No. of Pages 414
		20. Security Class (This Page) UNCLASSIFIED		22. Price

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

VII

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

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WATER RESOURCES DATA FOR NEVADA, 1981

INTRODUCTION

Water-resources data published herein for the 1981 water year comprise the following records:

- Water discharge for 132 gaging stations on streams, canals, and drains.
- Discharge data for 82 peak-flow stations and 7 low-flow stations on streams.
- Stage and contents for 21 lakes and reservoirs.
- Water levels for 235 observation wells.
- Water-quality data for 106 stream, canal, and drain sites, 13 lake and reservoir sites, and 4 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 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." 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 water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published as an official Geological Survey report on a State-boundary basis. These official 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-81-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These 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.

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 1981 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.

ACKNOWLEDGMENTS

This report was compiled principally by Howard R. Frisbie, Richard J. LaCamera, Margaret M. Riek, and David B. Wood. Other U.S. Geological Survey personnel in Nevada who contributed significantly to the collection and preparation of the data in this report were: Cassandra E. Berrum, Robert E. Bostic, Sherwood B. Browning, Rodney L. Carson, Nanette K. Dory, Kerry T. Garcia, Darla J. Chiselli, Ray J. Hoffman, Otto Moosburner, Carol A. Myers, Larry J. Neff, William D. Nichols, Robert N. Pennington, Jacob Sarkin, Valerie L. Schacher, Robert R. Squires, Thomas B. Tucker, A. S. Van Denburgh, Stephen J. Walmsley, and Richard J. Young.

HYDROLOGIC CONDITIONS DURING 1981

Surface Water

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

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

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

Surface-Water Conditions

On the Humboldt River in northern Nevada, streamflow for the early part of water year 1981 was slightly above average. As the winter months passed and the usual precipitation and snowpack failed to develop, river discharge dropped below average in February. During the normally highest runoff months of May and June, flow in the Humboldt River at Palisade (station 10322500, a representative mainstem site) was only 20 percent of normal. For the entire water year, the total discharge at Palisade was about 34 percent of normal. Monthly and annual mean discharges during water year 1981 and during the period 1903-76 for the Humboldt River at Palisade are shown in figure 1.

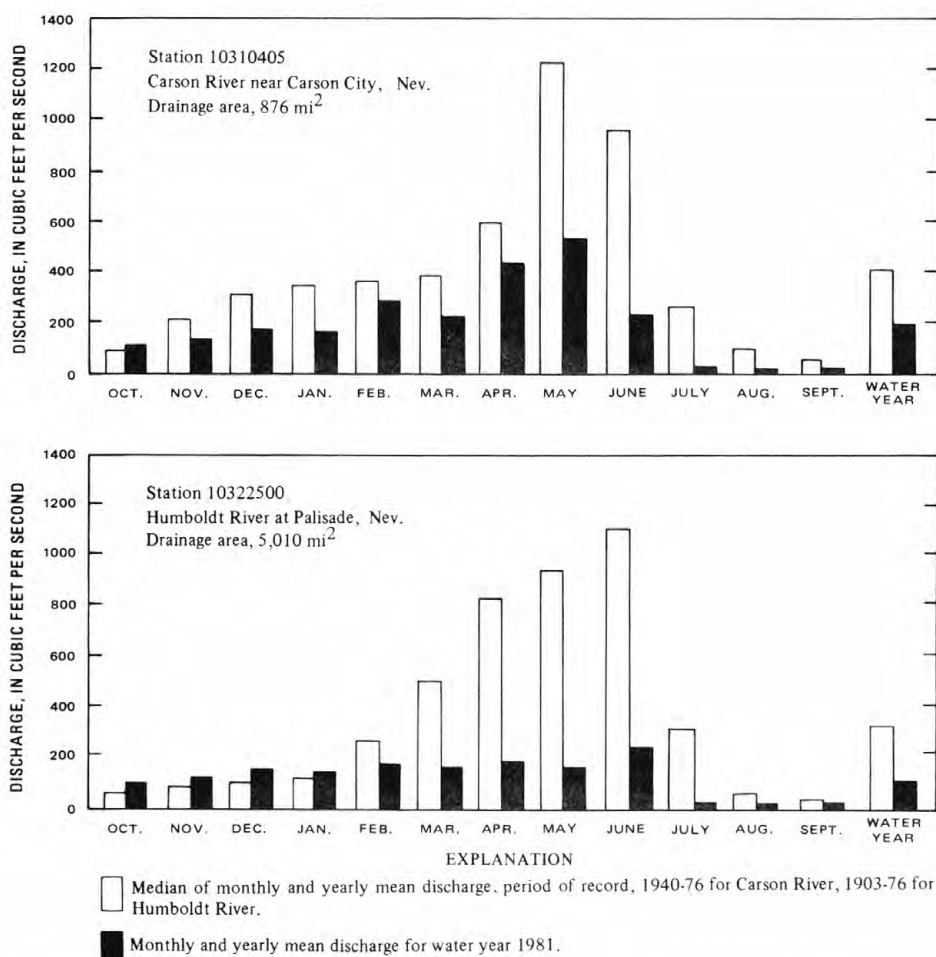


FIGURE 1.—Comparison of discharge during water year 1981 with the long term median discharge at two representative gaging stations.

The three rivers of far western Nevada--the Carson, Walker, and Truckee--also experienced lower-than-average flows during 1981. The Carson River lies mostly in Nevada, with its headwaters in the Sierra Nevada of California. Characteristically, base flow is in late summer, and flow then increases slightly through the autumn and winter until the snowmelt season in early spring. Maximum annual flows 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. Surface-water runoff on the Carson for water year 1981 was less than 50 percent of the 1940-76 average. Monthly and annual mean discharges at Carson City (station 10311000) 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 river terminates at 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 rose slightly at the end of water year 1980 and remained fairly constant through early 1981. By the close of the water year, however, the lake surface was again falling. The flow of Walker River at Wabuska (station 10301500) was only 60 percent of its 56-year average during water year 1981.

The Truckee River, another major western Nevada stream whose discharge is significantly controlled by reservoirs and regulated lakes in the Sierras, also flowed below normal. At Reno (station 10348000), the mean daily discharge for water year 1981 was 60 percent of the 55-year mean. The Truckee River feeds Pyramid Lake near Nixon, 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, as shown in figure 3.

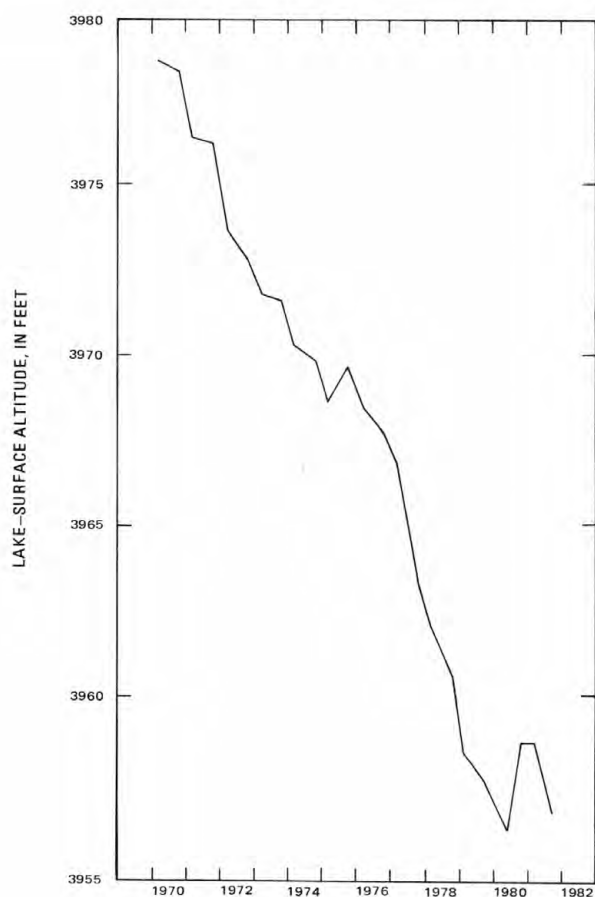


FIGURE 2.—Water-surface altitude at Walker Lake (station 10288500), 1970–81.

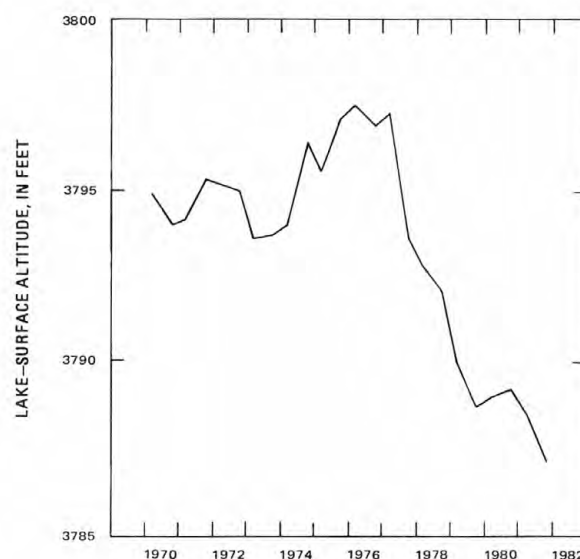


FIGURE 3.—Water-surface altitude at Pyramid Lake (station 10336500), 1970–81.

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 13,200 ft³/s. Mean annual discharge there fluctuates on the basis of upstream supply and downstream power and irrigation requirements. During water year 1981, the flow averaged 13,600 ft³/s. In the Virgin River (one of the major inflows to Lake Mead on the Colorado), flow during 1981 was comparable to the long-term average.

Most streams in Nevada, especially those at low altitudes with small drainage areas, are ephemeral and flow only in response to intense precipitation. Typically, such streams and washes will flow only a few times a year. In some years, they exhibit no flow, and even in relatively wet years, total flow duration may be measured in hours.

The 1981 water year was significant in terms of flash flooding on ephemeral streams. On May 26, an afternoon thunderstorm closed Alternate U.S. Highway 95 between Yerington and Schurz as a result of flood and debris flows. The peak discharge at a culvert 10 miles east of Yerington was computed as 2,100 ft³/s, yet the contributing drainage area was only 5.6 mi².

Flash flooding occurred on many southern Nevada streams as a result of thunderstorms on the afternoon of August 10. Flooding in the Moapa Valley area on that day was the highest of record, and extensive damage resulted. In fact, a Presidential Disaster Declaration was made to provide Federal assistance to individuals located in that area. Indirect measurements revealed that peak flow on California Wash, upstream from Moapa Valley, exceeded 50,000 ft³/s. The contributing drainage area for this flow was only 52 mi². Flow in Overton Wash breached protective dikes erected in 1937 and caused considerable damage in the town of Overton. Peak discharge at a site 1½ miles above the town was 11,000 ft³/s. The peak flow exceeded twice that value at a site 4 miles farther upstream on the wash above the bedrock flow restriction of Overton Ridge. Northshore Road between Overton and Hoover Dam was washed out by a 20,800-ft³/s peak discharge on Valley of Fire Wash during that same afternoon.

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 4 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 remained relatively constant 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. This change reflects the dilution of saline ground-water inflow between the two gages by the increasing quantities of treated sewage effluent.

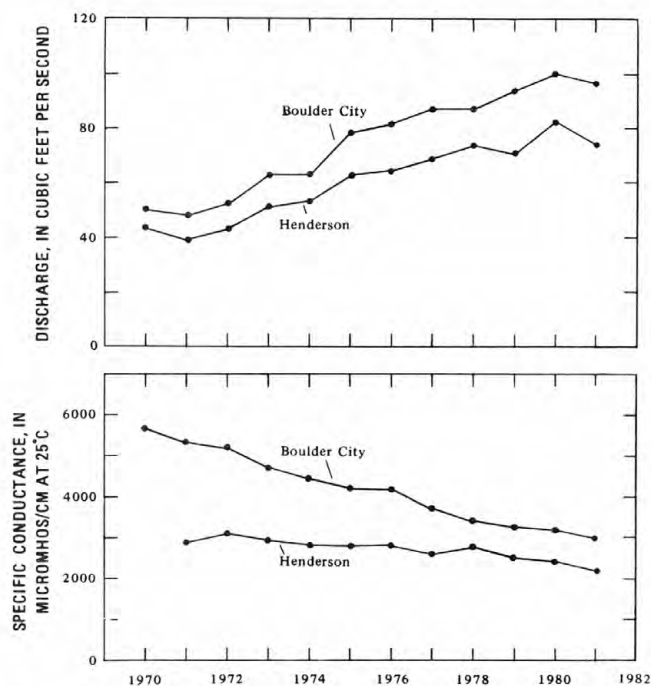


FIGURE 4.—Average annual discharge and specific conductance of Las Vegas Wash at the Henderson and Boulder City gages (stations 09419700 and 09419800, respectively), 1970–81.

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.

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

The tabulation on the following page summarizes discharge and selected water-quality characteristics at 18 stream sites in and immediately adjacent to Nevada during water year 1981, 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 1981 compared with prior periods of record. For the Quinn River near McDermitt (10353500), (less new record highs and lows are not of great significance because of the relatively short period of water-quality record than 4½ years) at that site.

Ground Water

Increased demand for ground water since 1979 has led the Nevada State Engineer to designate 22 additional basins as critical ground-water areas. By the end of 1981, a total of 72 basins had been so designated. These basins are no longer open to uncontrolled ground-water development.

Areas in the State that have experienced ground-water problems over the past several years continue to experience such problems. Increased pumping for agriculture, together with significantly below-normal winter precipitation, combined to accentuate the problem. These areas include Antelope, Diamond, Pahrump, Paradise, and Silver State Valleys, and the Quinn River area. Lowering ground-water levels in Diamond Valley have caused significant decreases in the flow of major springs there.

A special round of measurements in Mason Valley during 1981 demonstrated that ground-water levels over much of the valley have changed little since 1965. However, a small area near the south end has experienced net water-level declines of as much as 6 feet.

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 (micromhos)		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	2,260 (35,200)	72 (38)	3,520 (4,650)	1,360 (685)	32.0 (33.5)	10.5 (2.0)	-- --	-- --	-- --	-- --
Virgin R nr Riverside 09415230	5,400 (16,000)	0 (0)	4,900 (5,260)	1,550 (900)	35.5 (35.5)	10.0 (3.5)	1,600 (15,000)	740 (100)	2,520 (11,700)	1,540 (166)
Muddy R nr Overton 09419515	5,110 (436)	0.65 (0.32)	3,880 (4,120)	2,350 (1,880)	28.0 (28.0)	13.0 (7.0)	3,400 (6,800)	500 (820)	446 (1,520)	252 (121)
Las Vegas Wash nr Henderson 09419700	214 (6,510)	60 (4.8)	2,600 (6,960)	2,190 (1,660)	26.5 (28.0)	14.0 (2.0)	-- --	-- --	58 ^b (347)	3 (3)
Las Vegas Wash nr Boulder City 09419800	830 (2,430)	77 (14)	3,610 (9,120)	2,080 (2,380)	28.5 (27.0)	10.0 (3.0)	-- --	-- --	1,980 (69,600)	220 (111)
Colorado R blw Hoover Dam 09421500	24,200 (36,000)	1,800 (152)	1,150 (1,230)	1,000 (1,000)	13.5 (18.5)	11.0 (9.0)	1 (45)	<1 (<1)	3 (6)	<1 (<1)
Colorado R blw Davis Dam 09423000	26,800 (31,200)	2,730 (285)	1,240 (1,290)	1,080 (900)	20.5 (21.5)	10.0 (8.0)	-- --	-- --	-- --	-- --
Steptoe Ck nr Ely 10244950	12 (37)	4.1 (2.0)	329 (403)	284 (218)	10.5 (11.0)	3.5 (2.5)	330 (1,400)	<1 (<2)	17 (810)	4 (3)
S Twin R nr Round Mtn. 10249300	16 (128)	0.74 (0.11)	138 (158)	99 (75)	17.5 (18.0)	0.0 (0.0)	60 (1,500)	2 (<2)	6 (1,970)	1 (<1)
Chiatovich Ck nr Dyer 10249900	20 (527)	5.9 (1.0)	60 (82)	51 (48)	15.0 (36.5)	2.0 (0.0)	310 (600)	6 (2)	75 (195)	18 (13)
Walker R nr Wabuska 10301500	258 (3,280)	13 (0)	630 (792)	314 (183)	23.0 (36.5)	5.0 (0.0)	360 (1,700)	50 (16)	108 (1,720)	22 (10)
Carson R nr Fort Churchill 10312000	970 (15,300)	0.05 (0)	611 (840)	128 (81)	22.0 (29.0)	0.0 (0.0)	280 (36,000)	9 (4)	98 (1,950)	9 (4)
Humboldt R nr Carlin 10321000	484 (6,160)	0.24 (0.1)	625 (677)	316 (209)	25.5 (29.0)	3.5 (0.0)	400 (830)	18 (9)	78 (862)	30 (17)
Humboldt R nr Imlay 10333000	194 (6,080)	2.0 (0)	800 (896)	702 (377)	27.0 (30.5)	2.0 (0.0)	-- --	-- --	166 (2,200)	18 (9)
Humboldt R nr Rye Patch 10335000	775 (4,420)	0.15 (0)	1,130 (4,010)	835 (384)	22.0 (29.5)	3.0 (0.0)	200 (2,400)	<3 (<2)	93 (107)	14 (14)
Truckee R at Farad 10346000	2,530 (17,500)	221 (28)	133 (377)	84 (39)	12.5 (21.0)	0.0 (0.0)	-- --	-- --	-- --	-- --
Truckee R nr Nixon 10351700	2,000 (14,400)	18 (8.1)	941 (1,110)	179 (96)	28.5 (26.5)	0.0 (0.0)	480 (5,300)	4 (2)	63 (2,530)	2 (2)
Quinn R nr McDermitt 10353500	2.9 (1,580)	0.30 (0)	832 (763)	593 (313)	31.0 (28.0)	0.0 (0.0)	>1,000 (3,000)	45 (10)	32 (476)	4 (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.

Algal growth potential (ACP) is the maximum algal dry-weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

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 ± 0.5°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 ± 0.2°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 ± 0.5°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.

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

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

Ash mass is the mass, or amount of residue, present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash-mass values are expressed in grams per cubic meter (g/m³) for zooplankton and phytoplankton, and in grams per square meter (g/m²) for periphyton and benthic organisms.

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

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.

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

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

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.

Diversity index is a numerical expression of evenness of distribution organisms in an aquatic community. The formula for diversity index ($\bar{d}$) is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

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

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 specified 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 tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a 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 that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline-earth ions (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO₃).

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.

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

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first-order 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/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of habitat, usually a square meter (m^2), acre, or hectare. The abundances of periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per 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 sieve or sedimentation methods. 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 is the plant part of the plankton. Phytoplankton are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon 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 is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers 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.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Milligrams of carbon per area or volume, per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are units for expressing primary productivity. They define the amount of carbon dioxide consumed, as measured by using radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either an hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume, per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements within 24 hours. Unit time may be either an hour or day, depending on the incubation period.

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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) 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 recoverable concentrations of the constituent.

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

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

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

KingdomAnimal
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, totalling 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.

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, totalling 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 to refer 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 reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in the list of stations in the front of the report. 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 3 times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. Lettered quadrants are read from left to right, with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. As an example, a well in Mason Valley (hydrographic area 108) located within NE¼NE¼SW¼SW¼ section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCAA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCAA2.

Prior to January 1976, published local site numbers in Nevada followed the general format exemplified by 13/26-16ab1, where 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.

¹Rush, 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 (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to 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.

At some stream-gaging stations, the stage-discharge relation is 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 gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of 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 given 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 given under "REMARKS"; for reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given, first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage 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 published in a separate paragraph following the table of peaks.

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

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

Data collected at partial-record stations 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

Water-supply papers that contain compilations of annual information on surface-water quantity in and immediately adjacent to Nevada are listed below:

Water year	Water-supply paper		
	Part 9	Part 10	Part 13
Through 1950	1313	1314	1317
1951-60	1733	1734	1737
1961-65	1926	1927	1934
1966-70	2126	2127	2134

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.

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 Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Nevada at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, 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 and Examination of Data

Surface-water samples for analyses 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 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.

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

Water Analysis

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

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

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 State Office.

Water Temperature

Water temperatures are measured at all water-quality stations. In addition, water temperatures are measured at 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

Water-supply papers (WSP) that contain annual information on the quality of surface water in and immediately adjacent to Nevada are listed below:

Water year	WSP No.	Water year	WSP No.	Water year	WSP No.
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

EXPLANATION OF DATA ON GROUND-WATER LEVELS

Collection of the Data

Data from the basic State-wide 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 of the Nevada State Engineer. Subsequent data for Nevada and adjacent areas through 1974 appear in the following water-supply papers (WSP):

Calendar year	WSP No.	Calendar year	WSP No.
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

WATER-RELATED REPORTS FOR NEVADA COMPLETED BY THE GEOLOGICAL SURVEY DURING 1981

Carson City area, west-central Nevada: "Flood and related debris flow hazards, Carson City quadrangle," by Terry Katzer and C. V. Schroer; Nevada Bureau of Mines and Geology Urban Map 1A1.

Cold Spring Valley, Washoe Co.: "Water resources of Cold Spring Valley, a growing urban area northwest of Reno, Nevada," by A. S. Van Denburgh; U.S. Geological Survey Open-File Report 80-1287, 77 p.

Cottonwood Cove, Clark Co.: "Potential flood and debris hazards at Cottonwood Cove, Lake Mead National Recreation Area, Clark County, Nevada," by Otto Moosburner; U.S. Geological Survey Open-File Report 80-1216, 11 p.

Fallon area, Churchill Co.: "Evaluation of the Pallmann [temperature-measurement] technique in two geothermal areas of west-central Nevada," by F. H. Olmsted, Irving Friedman, and D. R. Norton; part II of U.S. Geological Survey Professional Paper 1203, p. 13-21.

Fallon area, Churchill Co.: "Geohydrology of the basalt and unconsolidated sedimentary aquifers in the Fallon area, Churchill County, Nevada," by P. A. Glancy; U.S. Geological Survey Open-File Report 80-2042, 93 p.

Grass Valley, Pershing Co.: "The hydrothermal system in southern Grass Valley, Pershing County, Nevada," by A. H. Welch, M. L. Sorey, and F. H. Olmsted; U.S. Geological Survey Open-File Report 81-915, 193 p.

Incline Village area, Lake Tahoe: "Streamflow, sediment transport, and nutrient transport at Incline Village, Lake Tahoe, Nevada, 1970-73," by P. A. Glancy; U.S. Geological Survey Open-File Report 80-2045, 89 p.

Las Vegas area, Clark Co.: "Flood and related debris flow hazards, Las Vegas SE quadrangle," by Terry Katzer; Nevada Bureau of Mines and Geology Urban Map 3A1.

Lemmon Valley, Washoe Co.: "Geophysical reconnaissance of Lemmon Valley, Washoe County, Nevada," by D. H. Schaefer and D. K. Maurer; U.S. Geological Survey Water-Resources Investigations Open-File Report 80-1123, 29 p.

Nevada Test Site, Nye Co.: "Radioactive waste disposal in thick unsaturated zones," by I. J. Winograd; Science Magazine, v. 212, no. 4502, p. 1457-1464.

Schurz area, west-central Nevada: "Water resources of the Walker River Indian Reservation, west-central Nevada," by D. H. Schaefer; U.S. Geological Survey Open-File Report 80-427, 61 p.

Yucca Mountain, Nye Co.: "Interpretation of geophysical well-log measurements in drill holes UE25a-4, -5, -6, and -7, Yucca Mountain, Nevada Test Site," by J. J. Daniels; U.S. Geological Survey Open-File Report 81-615, 29 p.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The Geological Survey has published 35 manuals to date 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: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A11. 1982. 44 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed test for self-instruction*, by G. D. Bennett: USGS--TWRI 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: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by P. E. Greason and others, editors: USGS--TWRI Book 5, Chapter A4. 1977. 322 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

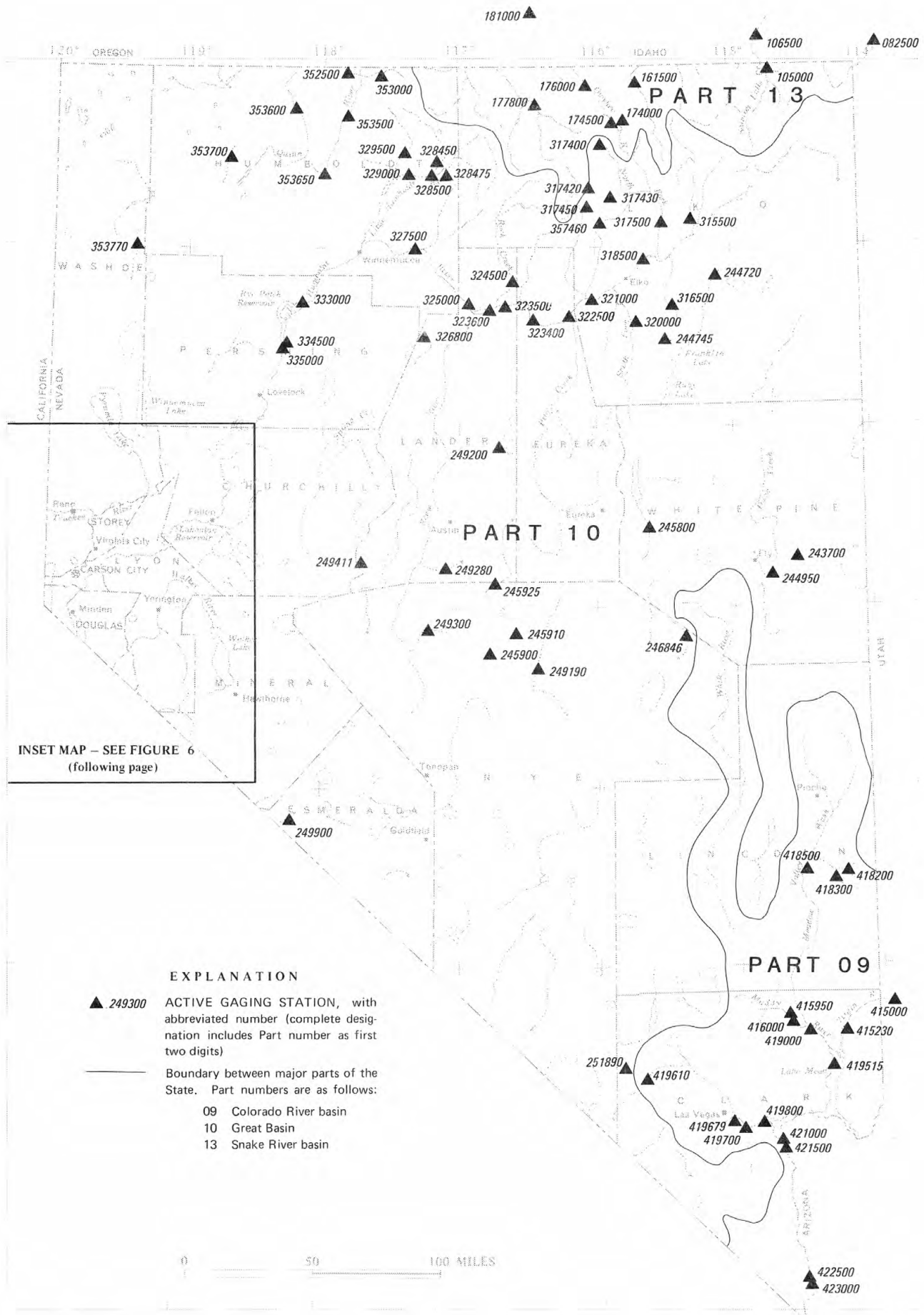


FIGURE 5.—Gaging stations listed in this report.

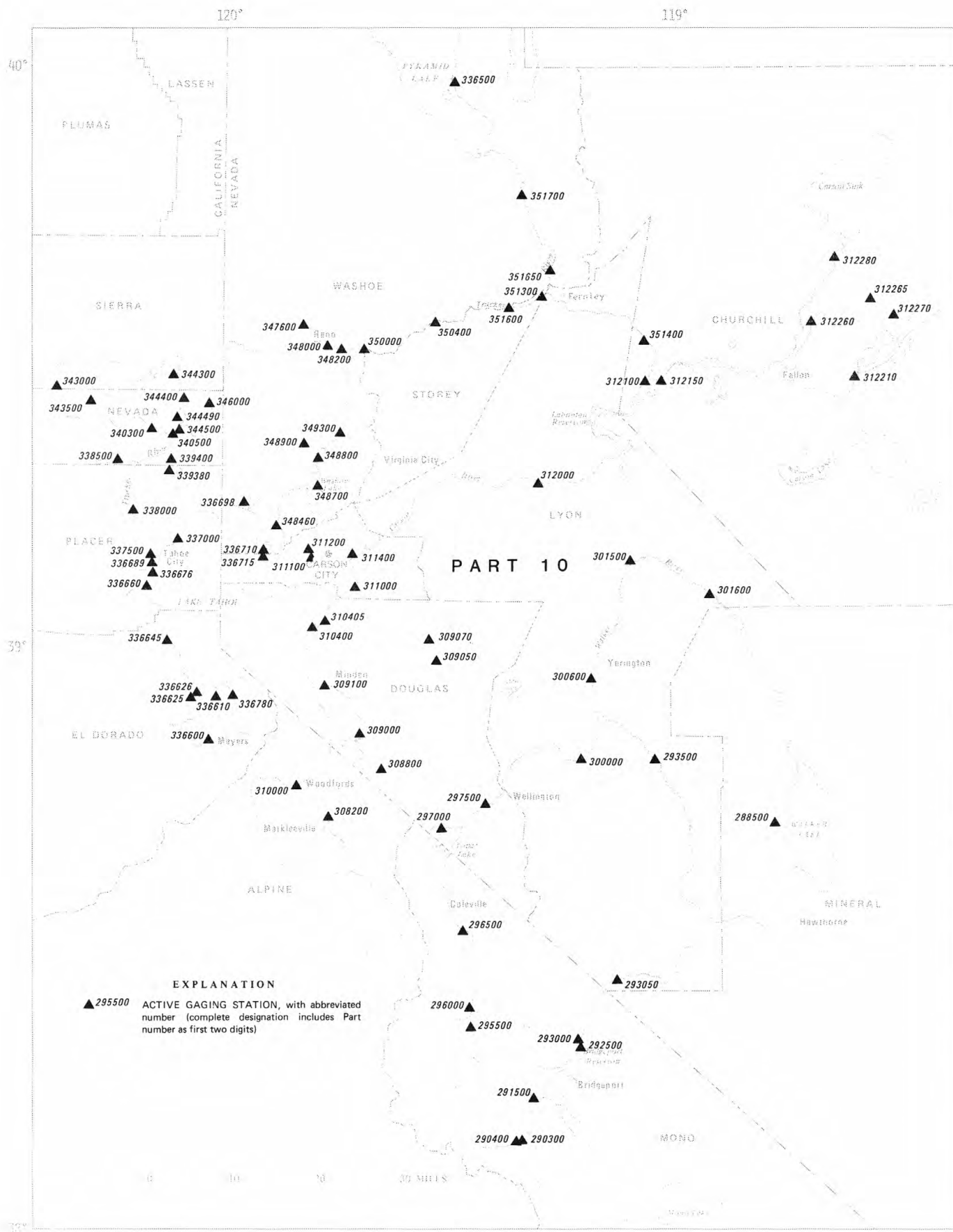


FIGURE 6.—Gaging stations in west-central Nevada.

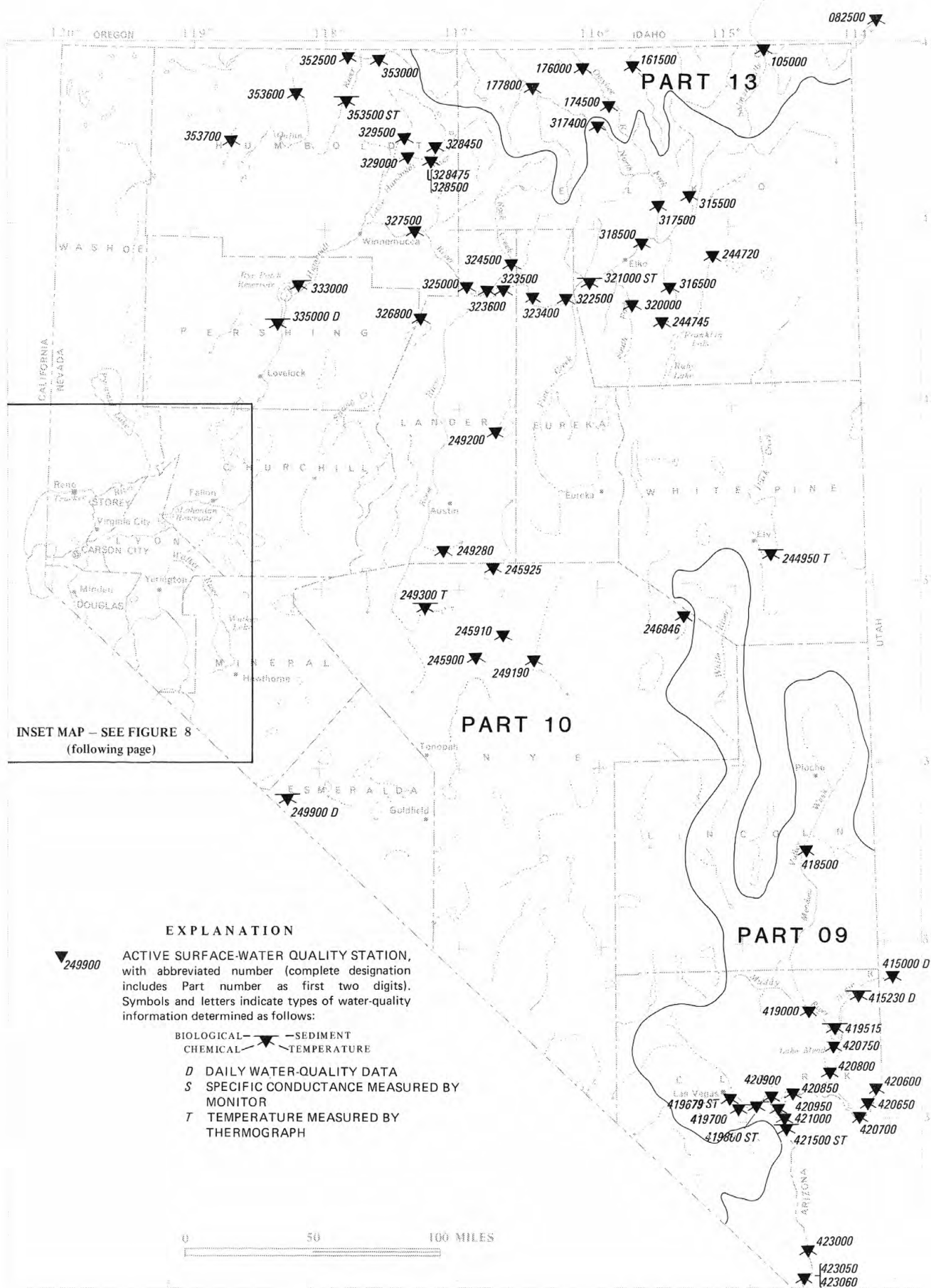


FIGURE 7.—Surface-water quality stations listed in this report.

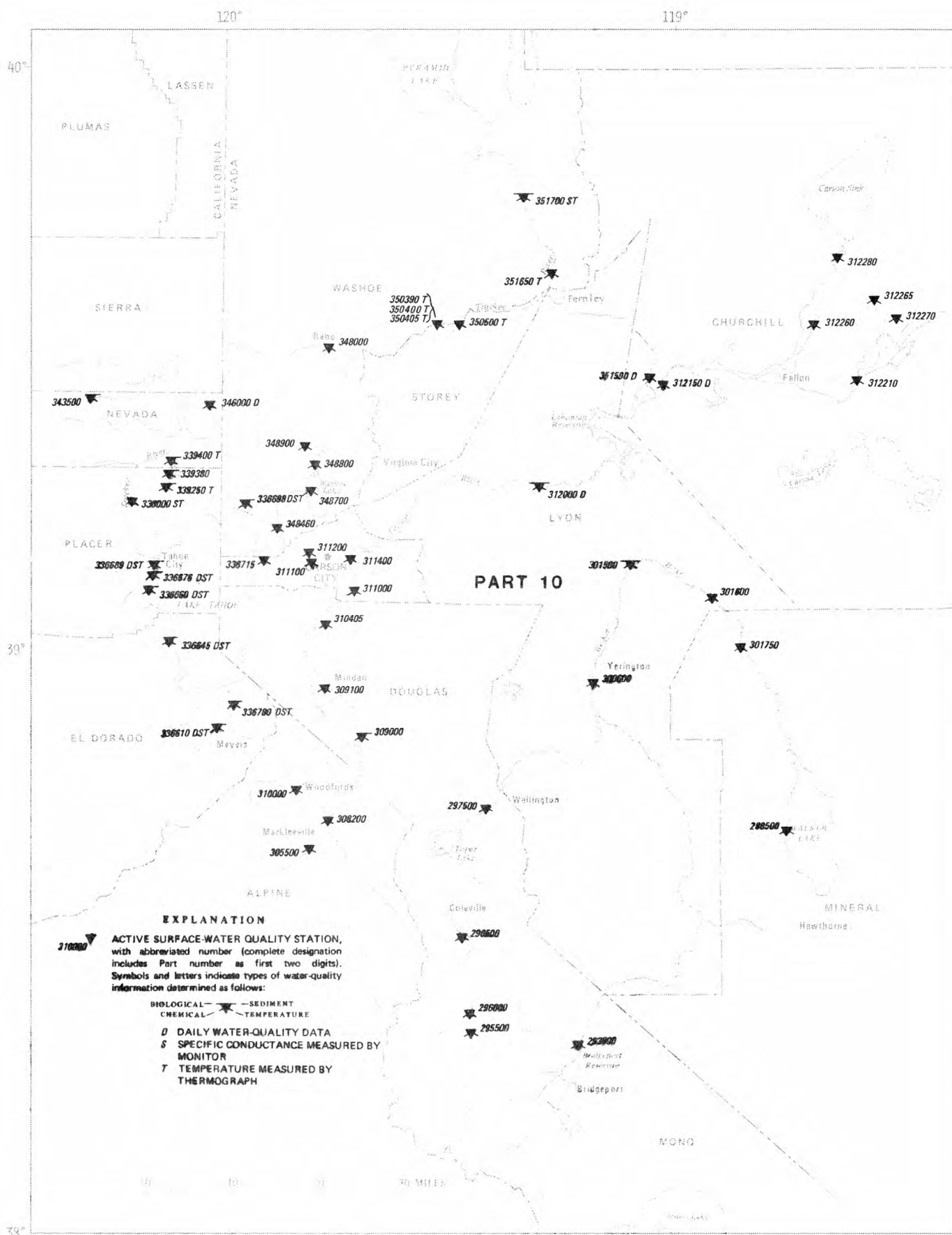


FIGURE 8.—Surface-water quality stations in west-central Nevada.

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VIRGIN RIVER BASIN

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 elevation 1,221 ft (372.2 m) National Geodetic Vertical Datum of 1929.

WATER-DISCHARGE RECORDS

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 except for periods of no gage height record, Oct. 25 to Nov. 20, Apr. 13-27, May 16-31 and Aug. 22 to Sept. 18, which are poor. Diversion above station for irrigation of about 23,200 acres (93.9 km²).

AVERAGE DISCHARGE.--52 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), 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, 2,260 ft³/s (64.0 m³/s) July 16, gage height 6.70 ft (2.042 m), no peak above base of 3,000 ft³/s (85 m³/s); minimum daily, 72 ft³/s (2.04 m³/s), Aug. 28.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	260	253	262	245	241	297	362	230	81	82	80
2	120	250	245	262	245	301	270	343	197	81	82	80
3	120	240	245	266	241	419	283	324	170	85	82	90
4	120	240	249	257	241	330	297	306	160	83	82	90
5	120	240	283	257	245	279	249	262	133	83	84	90
6	120	240	297	257	245	297	241	234	128	81	84	180
7	120	243	301	253	257	365	229	208	117	81	84	140
8	120	253	301	249	262	349	237	194	102	79	84	100
9	120	256	297	229	283	325	210	173	99	79	86	100
10	120	263	270	207	279	306	210	148	104	79	90	100
11	130	285	253	199	266	310	229	142	109	79	1240	100
12	180	310	257	210	257	370	249	136	104	79	365	150
13	250	400	262	203	253	330	250	120	83	233	183	250
14	450	270	274	203	241	535	250	107	83	154	150	200
15	350	270	274	207	253	419	250	104	83	97	143	350
16	380	273	274	207	257	360	250	170	83	837	167	100
17	400	280	274	207	249	334	450	250	81	408	244	96
18	330	285	274	207	245	315	700	200	79	237	192	90
19	300	280	274	210	233	297	1400	180	79	153	112	86
20	310	295	270	210	233	306	1000	250	81	104	93	88
21	270	310	266	203	245	334	800	300	81	90	88	88
22	257	280	266	203	237	310	500	250	81	84	85	80
23	241	278	262	214	237	301	500	180	81	86	83	78
24	241	274	266	237	222	292	510	170	81	86	200	78
25	230	270	274	233	225	283	520	153	81	84	150	93
26	250	268	283	218	207	266	530	145	81	82	95	95
27	270	264	274	214	257	389	540	200	81	82	76	97
28	280	261	274	214	245	386	388	220	81	82	72	88
29	270	259	274	233	---	334	382	270	81	84	74	90
30	250	256	274	257	---	334	362	240	81	84	76	86
31	270	---	262	262	---	330	---	250	---	84	78	---
TOTAL	7109	8153	8402	7050	6905	10347	12583	6591	3115	4121	4806	3433
MEAN	229	272	271	227	247	334	419	213	104	133	155	114
MAX	450	400	301	266	283	535	1400	362	230	837	1240	350
MIN	120	240	245	199	207	241	210	104	79	79	72	78
AC-FT	14100	16170	16670	13980	13700	20520	24960	13070	6180	8170	9530	6810
CAL YR 1980	TOTAL	236665	MEAN	647	MAX	8780	MIN	75	AC-FT	469400		
WTR YR 1981	TOTAL	82615	MEAN	226	MAX	1400	MIN	72	AC-FT	163900		

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. Geol. Survey office, 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, 3,520 micromhos Sept. 25; minimum, 1,360 micromhos Apr. 20.

WATER TEMPERATURES: Maximum, 32.0°C Aug. 8; minimum, 10.5°C Nov. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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											
30...	1300	253	2540	8.1	16.5	9.6	103	960	260	75	230
NOV											
25...	1030	272	2450	8.0	10.5	--	--	900	240	74	210
DEC											
29...	1015	274	2380	8.2	13.0	--	--	890	240	71	210
JAN											
30...	0900	218	2380	8.1	12.0	--	--	880	240	69	210
FEB											
25...	1000	238	2630	8.1	14.0	--	--	940	250	77	220
MAR											
27...	0915	339	2070	8.1	14.0	9.3	96	800	210	66	190
APR											
29...	0845	339	1810	8.0	18.0	8.4	94	640	180	47	130
MAY											
28...	1045	212	2660	8.1	22.5	8.0	99	940	250	76	230
JUN											
26...	0915	83	3320	7.9	25.0	--	--	1400	370	110	270
JUL											
29...	0900	82	3440	7.9	24.0	7.6	96	1500	400	120	270
AUG											
28...	1245	72	3350	7.9	28.5	6.6	92	1300	350	110	260
SEP											
25...	0930	95	3520	7.8	22.0	7.4	90	1400	380	120	300

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	20.0	12.0	14.0	13.0	17.0	19.0	25.0	27.0	29.0	27.0	28.5
2	26.0	17.0	13.0	14.0	13.0	15.0	17.0	25.0	25.0	29.0	27.0	28.5
3	26.0	18.5	14.0	14.0	13.0	15.0	18.0	25.0	25.0	29.0	29.0	29.0
4	25.0	19.0	14.0	15.0	14.5	15.0	19.0	24.0	28.0	30.0	29.5	26.0
5	25.0	20.0	14.0	15.0	13.0	15.0	21.0	23.0	30.0	31.0	30.0	29.0
6	25.0	20.0	14.0	13.0	13.5	15.0	22.0	22.0	27.0	28.0	30.0	26.0
7	25.0	20.0	12.0	13.0	14.5	16.5	22.0	24.0	27.0	29.0	31.0	26.0
8	25.0	19.0	12.0	13.0	13.0	17.0	23.0	23.0	30.0	30.5	32.0	27.5
9	25.0	20.0	11.0	12.0	15.0	17.0	24.0	24.0	29.0	30.0	30.0	28.0
10	24.0	18.0	12.0	14.0	15.0	17.0	22.0	24.0	29.5	29.5	27.0	29.0
11	23.0	18.0	12.0	14.0	15.0	18.0	22.0	25.0	28.0	30.5	24.0	28.5
12	23.0	18.0	12.0	14.0	15.0	18.0	20.5	25.0	25.0	28.0	26.0	29.0
13	20.0	16.0	12.0	16.0	15.5	16.0	22.0	28.0	26.0	30.0	29.0	28.0
14	19.0	14.0	12.0	15.5	16.0	16.0	21.0	26.0	24.0	31.0	27.0	23.0
15	18.0	13.0	13.0	15.5	16.0	17.0	24.0	23.0	26.0	27.0	30.0	24.0
16	18.0	12.0	14.0	15.5	17.0	18.0	24.0	21.5	28.0	28.0	30.0	26.0
17	17.5	13.0	14.0	17.0	18.0	18.0	25.0	24.0	27.0	29.0	28.0	27.0
18	18.5	13.0	14.0	16.0	18.0	17.0	22.0	24.0	27.0	27.5	27.0	28.0
19	19.0	13.0	14.0	15.0	18.0	16.0	15.0	21.0	27.0	29.0	29.0	28.0
20	19.0	14.0	14.0	15.0	16.0	16.0	19.0	23.0	29.0	29.0	28.5	27.0
21	19.0	13.0	14.0	15.0	15.0	17.0	20.5	23.0	30.0	30.0	28.5	26.0
22	20.0	14.0	14.0	15.0	16.0	19.0	22.5	25.0	29.0	30.5	30.0	27.0
23	19.0	13.0	13.0	15.0	15.0	20.0	23.0	27.5	30.0	30.0	30.0	25.0
24	18.0	13.0	13.0	15.0	14.0	21.0	24.0	28.0	30.0	28.0	28.0	25.0
25	18.0	13.0	13.0	15.0	15.5	20.0	23.5	25.5	30.0	27.5	30.5	26.0
26	17.0	13.0	13.0	13.0	15.0	18.0	21.5	23.0	29.0	28.5	31.0	27.0
27	15.0	13.0	14.0	13.0	16.0	17.0	23.0	23.5	30.0	31.0	30.5	26.0
28	17.0	13.0	14.5	14.0	16.0	17.0	24.0	27.0	28.0	31.0	27.0	26.0
29	17.0	12.5	15.0	14.0	---	19.0	25.5	26.5	26.0	29.0	28.0	25.0
30	17.0	12.0	13.5	14.0	---	19.0	25.5	27.0	31.0	30.0	26.0	25.0
31	17.0	---	13.0	12.5	---	19.0	---	26.5	---	30.0	28.0	---
MEAN	20.5	15.5	13.0	14.5	15.0	17.5	22.0	24.5	28.0	29.5	28.5	27.0
MAX	26.0	20.0	15.0	17.0	18.0	21.0	25.5	28.0	31.0	31.0	32.0	29.0
MIN	15.0	12.0	11.0	12.0	13.0	15.0	15.0	21.0	24.0	27.0	24.0	23.0
WTR YR 1981	MEAN	21.5	MAX	32.0	MIN	11.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3310	2440	2360	2360	2390	2390	2080	1850	2080	3060	3160	3250
2	3250	2550	2420	2330	2390	1940	2320	1870	2580	3160	3160	3250
3	3250	2600	2390	2280	2450	1890	2120	1960	2680	3120	3160	3250
4	3200	2440	2390	2360	2480	2290	1850	1920	2870	3160	3220	3290
5	3250	2580	2360	2380	2420	2210	2260	2090	3000	3160	3220	3180
6	3250	2630	2210	2310	2480	2170	2400	2250	2910	3260	3120	3290
7	3200	2580	2190	2380	2360	2080	2340	2510	3040	3160	3120	3290
8	3150	2580	2210	2410	2360	2000	2430	2650	3180	3160	3160	3180
9	3150	2550	2190	2500	2310	2100	2490	2720	3140	3260	3160	3180
10	3150	2600	2450	2590	2310	2100	2610	2920	3140	3160	3160	3100
11	3150	2550	2390	2560	2360	2170	2490	2800	3140	3160	2690	3120
12	3060	2490	2360	2620	2390	2080	2430	2800	3090	3060	2730	3290
13	2760	2440	2420	2590	2310	2000	2320	3060	3180	2200	3060	2630
14	2400	2340	2340	2590	2450	1820	2320	3160	3230	3160	2810	2550
15	2690	2490	2280	2590	2360	1870	2320	3110	3230	3220	3060	2890
16	2520	2490	2280	2590	2480	2020	2370	3060	3180	3120	2890	2760
17	2520	2490	2330	2650	2480	2000	2170	3140	3140	3360	2850	3180
18	2520	2470	2330	2690	2480	2140	1960	3140	3140	3060	2770	3180
19	2590	2490	2330	2590	2450	2210	1890	3180	3180	3220	3120	3290
20	2460	2520	2280	2650	2450	2190	1360	3180	3180	3320	3120	3400
21	2520	2440	2390	2760	2360	2040	1590	3180	3180	3320	3260	3400
22	2590	2340	2330	2720	2420	2080	1790	3230	3230	3160	3260	3290
23	2690	2440	2330	2530	2540	2120	1820	3230	3230	3160	3220	3290
24	2660	2440	2330	2560	2540	2170	1730	3180	3180	3260	3420	3290
25	2690	2340	2260	2590	2510	2170	1590	2880	3140	3320	3360	3400
26	2490	2470	2260	2590	2510	1980	1540	2880	3230	3260	3320	3290
27	2490	2470	2260	2650	2420	1980	1640	2800	3230	3260	3220	3290
28	2400	2470	2330	2650	2420	1860	1820	2450	3180	3260	3220	3290
29	2460	2490	2330	2590	---	2000	1920	2360	3230	3260	3220	3290
30	2490	2440	2280	2470	---	2080	2000	2360	3180	3260	3260	3290
31	2460	---	2330	2410	---	2080	---	2230	---	3260	3260	---
MEAN	2800	2490	2320	2530	2420	2070	2070	2710	3080	3170	3120	3190
MAX	3310	2630	2450	2760	2540	2390	2610	3230	3230	3360	3420	3400
MIN	2400	2340	2190	2280	2310	1820	1360	1850	2080	2200	2690	2550
WTR YR 1981	MEAN	2670	MAX	3420	MIN	1360						

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 NE1/4SW1/4NE1/4 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 and 6.1 mi (9.8 km) southeast of Riverside, and 7.5 mi (12.1 km) upstream from waterline of Lake Mead at elevation 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 Oct. 24 to Feb. 23, Mar. 27 to May 29, and July 3 to Aug. 27.

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); no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 5,400 ft³/s (153 m³/s) Aug. 11, gage height, 6.10 ft (1.859 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	270	255	300	275	269	400	370	56	7.8	.00	16
2	45	270	250	300	270	289	390	350	47	67	.00	16
3	34	270	250	300	265	299	380	320	47	30	.00	28
4	43	270	280	300	263	241	370	310	43	20	.00	25
5	70	270	290	300	260	259	360	280	35	10	.00	73
6	70	270	310	300	255	331	350	260	16	1.5	.00	98
7	80	270	315	300	250	353	340	245	37	.00	.00	126
8	73	270	320	300	247	331	330	230	18	.00	.00	116
9	70	270	310	300	243	279	320	210	13	.00	5.0	76
10	73	270	300	300	240	259	310	195	12	.00	50	64
11	98	290	300	295	235	250	320	180	12	.00	800	64
12	94	350	290	295	230	289	340	170	9.6	30	200	30
13	179	420	290	295	227	269	360	155	5.3	230	100	43
14	200	340	290	295	223	342	390	140	29	25	84	107
15	179	290	290	295	220	279	395	180	6.6	7.4	100	147
16	250	280	292	290	218	259	400	220	.00	500	110	166
17	224	280	294	290	216	241	590	270	2.6	90	150	98
18	216	280	296	290	214	208	700	240	9.1	25	100	98
19	232	270	298	290	212	208	1500	260	7.2	10	92	98
20	299	270	300	290	210	216	1100	280	.00	5.0	86	102
21	224	270	300	285	208	269	820	310	10	3.0	82	116
22	279	270	300	285	204	279	690	270	.00	1.5	80	51
23	224	270	300	285	200	279	540	230	1.2	1.0	80	35
24	224	265	310	285	195	241	520	200	10	.00	120	37
25	225	265	310	285	200	320	530	175	9.6	.00	50	29
26	230	269	310	280	208	331	540	170	.00	.00	25	59
27	245	265	310	280	259	310	580	160	.00	.00	10	83
28	250	260	310	280	289	450	500	160	56	.00	7.8	90
29	260	260	310	280	---	430	450	240	87	.00	19	80
30	265	260	310	280	---	420	400	87	45	.00	51	45
31	270	---	310	275	---	410	---	64	---	.00	26	---
TOTAL	5284	8424	9200	9025	6536	9210	15215	6931	624.20	1064.20	2427.80	2216
MEAN	170	281	297	291	233	297	507	224	20.8	34.3	78.3	73.9
MAX	299	420	320	300	289	450	1500	370	87	500	800	166
MIN	34	260	250	275	195	208	310	64	.00	.00	.00	16
AC-FT	10480	16710	18250	17900	12960	18270	30180	13750	1240	2110	4820	4400
CAL YR 1980	TOTAL	207618.00	MEAN	567	MAX	7580	MIN	25	AC-FT	411800		
WTR YR 1981	TOTAL	76157.20	MEAN	209	MAX	1500	MIN	.00	AC-FT	151100		

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 two months.

SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: December 1977 to April 1978, monthly; May 1978 to current year, once daily.

BIOLOGICAL DATA: March 1978 to September 1980, monthly (seasonal); October 1980 to September 1981, every two months.

REMARKS.--Listed frequencies of measurement apply except during summer periods of no flow. Daily specific-conductance and temperature data are 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, 15,000 colonies/100 mL Aug. 26, 1980; minimum, 100 colonies/100 mL (non-ideal colony count) June 28, 1979.

WATER TEMPERATURES: Maximum, 35.5°C July 21, 27, 1980, and July 14, 1981; minimum, 3.5°C Jan. 1, 1979.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 11,700 mg/L Aug. 26, 1980; minimum, 166 mg/L Sept. 27, 1978.

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

SPECIFIC CONDUCTANCES: Maximum, 4,900 micromhos July 27; minimum, 1,550 micromhos Apr. 19.

WATER TEMPERATURES: Maximum, 35.5°C July 14; minimum, 10.0°C Dec. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 (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 25...	1230	260	2650	8.2	12.0	410	--	--	20	--	--
JAN 30...	1230	279	2850	8.4	12.0	140	--	--	22	K67	1600
MAR 27...	1200	287	2660	8.2	19.0	170	8.9	100	22	K220	780
MAY 28...	1345	159	3210	8.0	31.5	220	7.5	106	17	1200	740
SEP 25...	1200	32	3970	8.3	23.0	300	7.6	93	70	980	860

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 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 25...	970	250	83	240	3.4	22	320	0	260	770	320
JAN 30...	1000	270	90	270	3.6	21	310	10	270	850	370
MAR 27...	960	240	88	240	3.4	20	330	0	270	820	310
MAY 28...	1100	270	110	280	3.6	24	310	0	250	1000	420
SEP 25...	1500	360	150	360	4.0	34	330	0	270	1500	500

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE 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)
NOV 25...	.7	19	1890	1870	1330	530	.73	.010	.77	.050	.080
JAN 30...	.6	19	1900	2030	1430	330	.74	.010	.74	.130	.160
MAR 27...	.6	19	--	1870	--	428	.60	.010	.62	.120	.100
MAY 28...	.7	18	2350	2230	1010	392	.50	.010	.47	.080	.060
SEP 25...	1.0	21	3060	3010	264	614	.39	.060	.46	.110	.100

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (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- PENDE TOTAL (MG/L AS C)
NOV 25...	.39	.16	1.2	1.0	.030	.040	--	--	--	--
JAN 30...	.87	.33	1.8	1.2	.350	.020	--	19	--	--
MAR 27...	1.3	1.0	2.0	1.7	.380	.340	--	--	7.7	1.1
MAY 28...	.78	.72	1.4	1.3	.510	.010	.010	--	2.5	--
SEP 25...	1.2	.53	1.8	1.1	.470	.020	--	--	2.6	2.0

VIRGIN RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)		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)	
NOV 25...	1230	15		7		300		100		4		0		30		0		7	
MAR 27...	1200	4		2		200		100		0		0		20		0		8	
MAY 28...	1345	10		5		200		100		2		0		10		10		2	
SEP 25...	1200	10		6		200		0		0		0		30		20		8	

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 25...	1	18	1	9700	40	18	1	490	20	.2
MAR 27...	0	14	2	5700	50	3	0	360	10	.3
MAY 28...	1	14	2	5300	100	6	0	310	20	.4
SEP 25...	0	24	2	12000	250	12	0	420	30	.2

DATE	TIME	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 25...		.0		14		1		0		1		0		0		70		10	
MAR 27...		.1		12		3		1		1		0		0		60		30	
MAY 28...		.1		8		0		2		2		0		0		50		20	
SEP 25...		.1		13		2		0		1		0		0		70		20	

DATE	TIME	SEDI- MENT, DIS- SUS- PENDED (MG/L)		SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)		SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
NOV 25...	1230	2300		1620		45	
JAN 30...	1230	2270		1710		26	
MAR 27...	1200	1750		1360		35	
MAY 28...	1345	1540		661		51	
SEP 25...	1200	2520		218		50	

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES

DATE	NOV 25		MAR 27		MAY 28	
TIME	1230		1200		1345	
TOTAL CELLS/ML	1700		2600		8200	
DIVERSITY: DIVISION	1.1		0.8		0.0	
..CLASS	1.1		0.8		0.0	
..ORDER	1.7		2.1		1.8	
...FAMILY	2.1		2.4		2.4	
....GENUS	2.1		2.5		3.0	

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
.BACILLARIOPHYCEAE						
..ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	14	1	17	1	--	-
....COCCONEIS	--	-	17	1	280	3
....RHOICOSPHEA	14	1	--	-	480	6
.BACILLARIALES						
...NITZSCHIA						
....NITZSCHIA	180	10	450#	17	--	-
..EPITHEMIALES						
...EPITHEMIACEAE						
....EPITHEMIA	14	1	--	-	410	5
..EUPODISCALES						
...COSCIDISCAEAE						
....CYCLOTELLA	14	1	34	1	69	1
.FRAGILARIALES						
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	170	7	--	-
....DIATOMA	14	1	17	1	1900#	23
....SYNEDRA	--	-	17	1	1000	13
.NAVICULALES						
...CYMBELLACEAE						
....CYMBELLA	82	5	100	4	1200	14
...ENTOMONEIDACEAE						
....ENTOMONEIS	14	1	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	120	7	34	1	480	6
...NAVICULACEAE						
....CALONEIS	--	-	--	-	140	2
....NAVICULA	190	11	1100#	44	2000#	24
....PINNULARIA	--	-	--	-	69	1
.SURIPELLALES						
...SURIPELLACEAE						
....SURIPELLA	14	1	86	3	210	3
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...MICRACINIACEAE						
....GOLENKINIA	14	1	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONAS	--	-	17	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	1000#	60	460#	18	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	17	1	--	-
....TRACHELOMONAS	14	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

VIRGIN RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	18.5	12.5	12.0	15.0	16.5	19.0	25.5	30.0	29.5	---	29.5
2	---	18.0	12.0	12.5	12.0	17.0	17.0	26.0	24.5	32.0	---	29.0
3	29.5	20.0	15.5	13.0	15.5	17.0	19.0	26.5	30.5	34.5	---	29.0
4	27.0	20.5	13.5	13.0	13.5	17.0	22.0	25.5	30.5	---	28.0	29.5
5	28.0	21.5	13.5	14.0	13.0	14.5	24.0	23.0	33.5	---	32.0	28.0
6	27.5	20.0	13.5	13.0	13.5	17.0	20.0	24.0	30.5	---	31.5	28.5
7	29.0	20.5	10.5	12.0	13.0	13.0	20.0	25.5	27.5	---	30.0	27.5
8	27.0	19.0	11.5	14.0	13.0	14.0	21.0	26.5	27.0	---	31.0	29.5
9	27.0	18.5	10.0	14.5	12.5	19.5	21.0	26.5	31.0	---	31.5	28.5
10	25.0	18.5	11.0	13.0	17.0	17.0	21.5	27.0	30.0	---	30.0	27.0
11	22.0	17.0	12.5	13.5	16.5	17.0	21.0	26.5	28.0	---	26.0	28.5
12	23.0	17.0	12.0	12.5	16.5	17.5	20.0	27.0	27.5	---	27.0	30.5
13	19.0	16.0	12.0	12.0	17.0	17.0	22.0	27.5	27.0	32.5	28.5	31.0
14	17.0	14.5	12.5	13.0	17.0	19.5	23.0	26.5	26.0	35.5	29.5	30.0
15	16.5	12.0	12.0	14.0	19.0	21.0	23.0	21.0	30.5	28.0	31.5	29.5
16	17.5	11.5	14.0	15.5	19.5	20.5	24.0	20.5	31.0	29.0	32.5	28.0
17	19.0	11.0	14.0	14.0	21.0	20.5	25.0	24.0	30.0	32.0	34.0	29.0
18	19.5	12.5	13.5	13.0	15.5	21.0	23.5	23.0	31.0	30.0	28.0	30.5
19	19.5	13.0	14.0	12.0	19.0	---	21.5	18.0	34.0	29.5	29.5	28.0
20	20.0	13.0	13.5	13.0	16.0	20.0	23.0	23.0	32.0	31.0	26.0	26.5
21	20.0	13.5	13.5	13.0	19.0	21.0	24.5	25.5	32.5	32.0	26.0	25.5
22	19.5	13.0	14.0	13.0	19.0	22.5	24.5	22.5	30.0	32.5	28.5	24.0
23	18.5	13.0	14.0	13.0	20.5	23.0	25.5	30.0	---	30.0	29.0	25.0
24	19.0	13.5	13.5	12.0	16.5	23.0	27.0	31.0	---	28.5	30.0	23.5
25	18.0	13.0	13.0	14.0	---	20.0	25.0	24.5	---	28.0	30.5	22.0
26	15.0	12.0	13.5	15.0	19.0	15.5	25.5	21.5	---	29.0	32.0	23.5
27	15.0	13.0	14.0	16.0	18.0	20.0	25.5	23.0	---	28.5	32.0	24.0
28	16.0	13.5	15.0	13.0	17.0	20.5	27.0	29.0	---	---	31.5	23.5
29	17.0	---	14.0	13.0	---	21.0	30.0	32.0	---	---	33.0	21.0
30	18.0	13.0	13.5	13.0	---	21.0	30.0	29.0	---	---	28.5	24.0
31	18.0	---	13.5	14.0	---	21.5	---	29.5	---	---	30.0	---
MEAN	21.0	15.5	13.0	13.5	16.5	19.0	23.0	25.5	30.0	30.5	30.0	27.0
MAX	30.0	21.5	15.5	16.0	21.0	23.0	30.0	32.0	34.0	35.5	34.0	31.0
MIN	15.0	11.0	10.0	12.0	12.0	13.0	10.0	18.0	24.5	28.0	26.0	21.0
WTR YR 1981 MEAN		21.5	MAX	35.5	MIN	10.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3450	2490	2500	2490	2420	---	2360	1960	2260	4120	---	3920
2	3640	2580	2500	2460	2480	2540	2360	2000	2610	4120	---	4030
3	3570	2580	2500	2460	2480	2240	2480	2040	2830	4210	---	4030
4	3570	2550	2470	2460	2510	2260	2360	2110	3000	---	---	4030
5	3450	2580	2470	2460	2480	2390	2360	2200	3140	---	4280	3560
6	3500	2680	2360	2490	2480	2240	2600	2390	3450	---	4280	3500
7	3450	2680	2310	2460	2480	2190	2600	2480	3400	---	3870	3400
8	3390	2680	2280	2490	2340	2190	2600	2680	3580	---	4180	3400
9	3390	2650	2310	2610	2340	2290	2740	2840	3700	---	4380	3610
10	3450	2650	2360	2680	2390	2290	2890	2880	3850	---	3770	3560
11	3450	2680	2470	2740	2390	2140	2700	3110	3920	---	4280	3500
12	3030	2750	2470	---	2390	---	2700	3210	4000	---	3020	3710
13	2470	2610	2500	2640	2480	2210	2630	3210	4580	4410	2850	3610
14	2530	2520	2470	2710	2450	2140	2740	3630	3640	2780	3160	2720
15	2860	2580	2410	2680	2480	2000	2600	3500	4000	3630	3260	3140
16	2780	2550	2470	2710	2480	2080	2540	3560	4000	3330	3060	2890
17	2740	2580	2470	2710	2480	2260	2480	3270	4160	3330	3160	3180
18	2630	2550	2470	2710	2480	2260	2170	2760	4200	3290	2770	3400
19	2630	2550	2440	2740	2540	2310	1550	3110	4160	3390	3160	3500
20	2630	2610	2500	2780	2600	2310	1940	3320	3700	3330	3460	3500
21	2630	2550	2470	2740	2630	2310	1730	2880	3700	3330	3970	3500
22	2860	2430	2530	2780	2540	2290	1840	2450	4000	3490	3970	3820
23	2860	2400	2470	2640	2700	2310	1840	2840	---	3720	3970	4030
24	2860	2550	2500	2610	2700	2310	1890	3060	---	4410	3970	3990
25	2900	2490	2530	2610	2740	2420	1700	3110	---	4510	3970	3820
26	2820	2460	2410	2640	2670	2540	1730	3060	---	4800	3870	3710
27	2600	2550	2470	2640	2600	2210	1700	3160	---	4900	3870	3710
28	2600	2520	2440	2710	2740	2080	1860	2970	---	---	3870	3710
29	2630	2550	2470	2680	---	2190	1930	2680	---	---	3670	3610
30	2600	2550	2470	2520	---	2260	1960	2610	---	---	3670	3920
31	2630	---	2530	2610	---	2260	---	2580	---	---	3870	---
MEAN	2990	2570	2450	2620	2520	2260	2250	2830	3630	3840	3690	3600
MAX	3640	2750	2530	2780	2740	2540	2890	3630	4580	4900	4380	4030
MIN	2470	2400	2280	2460	2340	2000	1550	1960	2260	2780	2770	2720
WTR YR 1981 MEAN		2890	MAX	4900	MIN	1550						

VIRGIN RIVER BASIN

33

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. Flow estimated Sept. 3 - 30.

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 13 ft³/s (0.37 m³/s) Nov. 10; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

1981	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	167.9	147.8	176.1	215.3	145.2	112.80	148.8	73.60	56.50	60.00	42.30	67.90
MEAN	5.42	4.93	5.68	6.95	5.19	3.64	4.96	2.37	1.88	1.94	1.36	2.26
MAX	9.9	13.	8.4	8.4	9.9	9.0	5.1	6.6	3.9	4.2	7.1	6.6
MIN	1.4	1.9	3.6	3.4	2.7	.00	3.7	.40	.20	.40	.00	.00
AC-FT	333	293.	349.	427.	288.	224.	295.	146.	112.	119.	84.	135.
CAL YR 1980	TOTAL	1324.18	MEAN	3.62	MAX	13	MIN	.00	AC-FT	2630		
WTR YR 1981	TOTAL	1414.20	MEAN	3.87	MAX	13	MIN	.00	AC-FT	2810		

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash and 26 mi (42 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.--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, Oct. 31 to Dec. 4, which are fair. 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, 361 ft³/s (10.2 m³/s) Aug. 10, gage height, 3.68 ft (1.122 m); minimum, 25 ft³/s (0.71 m³/s) Aug. 30, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	37	39	47	35	46	37	37	33	34	32	29
2	33	37	39	47	35	45	32	36	31	32	31	32
3	33	36	39	45	35	45	29	36	31	33	29	32
4	32	36	41	45	40	48	30	35	32	35	29	35
5	35	36	43	45	35	54	35	34	33	36	30	49
6	37	36	41	44	35	56	34	35	33	34	31	61
7	37	36	44	44	37	53	34	37	32	33	31	42
8	37	36	42	44	40	50	30	37	32	35	31	38
9	37	36	43	44	40	48	32	38	33	34	31	34
10	35	37	39	45	34	48	30	40	33	34	74	28
11	33	37	40	43	38	43	33	40	35	34	82	31
12	31	37	42	44	41	45	32	40	35	35	44	34
13	32	37	44	42	44	48	35	38	35	35	38	35
14	32	37	45	44	46	48	38	38	35	35	38	35
15	32	37	45	44	44	46	39	39	36	35	38	34
16	32	37	43	42	42	45	37	38	36	34	29	30
17	32	37	46	42	44	47	38	39	33	34	37	30
18	36	37	48	44	36	43	54	39	31	35	37	30
19	38	37	46	43	37	45	63	38	32	35	37	30
20	33	38	46	43	38	44	44	38	32	35	37	30
21	33	38	45	42	35	44	43	38	31	32	37	30
22	36	38	48	42	46	45	39	36	31	29	37	32
23	33	38	46	41	47	44	37	37	31	29	37	33
24	33	38	44	40	47	43	40	39	31	29	37	34
25	34	38	45	39	47	42	37	38	32	29	35	34
26	35	38	45	38	46	41	39	37	34	29	36	35
27	37	38	45	38	46	40	38	38	34	30	34	35
28	35	39	45	37	46	39	37	37	34	30	31	35
29	37	39	46	37	---	38	37	37	33	30	31	35
30	37	39	46	36	---	37	37	36	33	31	30	35
31	37	---	46	36	---	37	---	36	---	31	28	---
TOTAL	1067	1117	1356	1307	1136	1397	1120	1161	987	1016	1139	1037
MEAN	34.4	37.2	43.7	42.2	40.6	45.1	37.3	37.5	32.9	32.8	36.7	34.6
MAX	38	39	48	47	47	56	63	40	36	36	82	61
MIN	31	36	39	36	34	37	29	34	31	29	28	28
AC-FT	2120	2220	2690	2590	2250	2770	2220	2300	1960	2020	2260	2060
CAL YR 1980	TOTAL	14472	MEAN 39.5	MAX 85	MIN 30	AC-FT 28710						
WTR YR 1981	TOTAL	13840	MEAN 37.9	MAX 82	MIN 28	AC-FT 27450						

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.--No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Floods that occur in the drainage above station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft (1.07 m) diameter uncontrolled conduit through dam. Flow over dam spillway will bypass station.

AVERAGE DISCHARGE.--23 years, 0.745 ft³/s (0.0211 m³/s), 540 acre-ft/yr (665,800 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.--No flow for entire year.

VIRGIN RIVER BASIN

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 m) (by Corps of Engineers dams site topography).

REMARKS.--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.--23 years, 1.86 ft³/s (0.0527 m³/s), 1,350 acre-ft/yr (1.66 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.--No flow for entire year.

VIRGIN RIVER BASIN

37

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 fair except for period of no gage height record, Mar. 29 to May 27, which are poor. Several diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--25 years (1951-60, 1965-81), 12.0 ft³/s (0.340 m³/s), 8,690 acre-ft/yr (10.7 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.--Maximum discharge, 34 ft³/s (0.96 m³/s) Mar. 6, gage height 5.37 ft (1.637 m), no peak above base of 300 ft³/s (8.50 m³/s); minimum daily 1.7 ft³/s (0.048 m³/s) July 19 to Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.1	4.2	5.9	10	19	12	5.5	5.8	1.9	1.7	1.9
2	2.6	4.1	5.1	6.5	11	24	11	5.5	5.3	1.9	1.7	1.9
3	2.5	3.4	6.7	7.0	11	27	11	5.5	4.5	1.9	1.7	1.9
4	2.5	2.5	6.0	7.6	11	28	11	5.5	2.5	1.9	1.7	1.9
5	2.2	2.8	6.5	7.7	11	31	11	6.0	2.4	1.9	1.7	1.9
6	2.5	3.8	6.7	7.3	10	31	10	6.0	2.4	1.9	1.7	2.4
7	2.5	5.8	7.1	7.4	10	24	10	6.0	2.4	1.8	1.7	1.9
8	2.8	5.8	6.3	7.6	9.9	23	10	6.0	2.3	1.8	1.7	1.9
9	3.1	5.8	6.3	7.4	11	20	10	6.0	2.3	1.8	1.7	1.9
10	3.1	6.2	6.9	7.1	9.8	16	9.0	6.0	2.3	1.8	1.7	1.9
11	2.8	5.8	7.2	7.0	10	14	9.0	6.0	2.2	1.8	1.7	2.0
12	2.2	8.7	7.3	7.3	11	13	9.0	6.5	2.2	1.8	1.7	2.0
13	2.8	9.8	6.9	7.2	11	14	9.0	6.5	2.2	1.8	1.8	2.0
14	3.8	7.7	7.3	7.6	10	14	9.0	6.5	2.1	1.8	1.8	2.2
15	4.5	6.8	7.2	8.0	10	14	8.0	6.5	2.1	1.8	2.0	2.0
16	4.5	5.8	7.2	7.9	11	10	8.0	6.5	2.1	1.8	1.8	2.0
17	3.1	5.2	7.0	8.0	11	7.7	8.0	6.5	2.1	2.0	1.8	2.0
18	3.1	5.0	6.9	7.8	11	9.3	8.0	6.5	2.0	1.8	1.8	2.0
19	2.8	4.6	6.9	7.5	10	9.3	7.0	8.0	2.0	1.7	1.8	2.0
20	3.1	4.3	6.7	8.7	9.5	16	7.0	7.0	2.0	1.7	1.8	2.0
21	3.4	4.2	6.6	11	8.8	12	7.0	7.0	2.0	1.7	1.8	2.0
22	3.1	4.3	6.4	9.8	8.7	12	7.0	7.0	1.9	1.7	1.8	2.0
23	2.8	4.2	6.5	9.8	9.0	11	6.0	7.0	1.9	1.7	1.8	2.0
24	2.8	3.7	6.4	10	9.7	9.3	6.0	7.0	1.9	1.7	1.8	2.0
25	3.4	4.0	6.2	10	11	9.0	6.0	7.0	1.9	1.7	1.8	2.0
26	4.5	3.9	6.1	10	13	12	6.0	7.1	1.9	1.7	1.8	2.0
27	4.1	4.0	6.6	9.5	14	14	6.0	7.2	1.9	1.7	1.8	2.0
28	3.1	4.0	8.2	9.4	16	13	5.5	7.7	1.9	1.7	1.9	2.0
29	3.4	4.4	6.9	9.7	---	12	5.5	8.2	1.9	1.7	1.9	2.0
30	3.1	4.3	5.1	12	---	12	5.5	8.7	1.9	1.7	1.9	2.0
31	3.8	---	5.1	11	---	12	---	8.2	---	1.7	1.9	---
TOTAL	96.7	149.0	202.5	260.7	299.4	492.6	247.5	206.6	72.3	55.3	55.2	59.7
MEAN	3.12	4.97	6.53	8.41	10.7	15.9	8.25	6.66	2.41	1.78	1.78	1.99
MAX	4.5	9.8	8.2	12	16	31	12	8.7	5.8	2.0	2.0	2.4
MIN	2.2	2.5	4.2	5.9	8.7	7.7	5.5	5.5	1.9	1.7	1.7	1.9
AC-FT	192	296	402	517	594	977	491	410	143	110	109	118
CAL YR 1980	TOTAL	8435.54	MEAN	23.0	MAX	1200	MIN	.84	AC-FT	16730		
WTR YR 1981	TOTAL	2197.50	MEAN	6.02	MAX	31	MIN	1.7	AC-FT	4360		

VIRGIN RIVER BASIN

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 elevation 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 poor, no gage height record, May 5 to June 4, and Aug 8-12. 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.--31 years (1950-81), 45.5 ft³/s (1.289 m³/s), 32,960 acre-ft/yr (40.6 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.--Peak discharges above base of 210 ft³/s (5.95 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 19	0545	392 11.1	8.94 2.725
Aug. 10	unknown	*16,400 464	27.10 8.260
Sept. 7	0130	1,060 30.0	9.33 2.844

Minimum discharge, 22 ft³/s (0.62 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	34	35	37	38	38	35	31	33	31	28	26
2	27	34	35	37	38	44	31	32	33	30	29	30
3	26	34	35	37	38	44	31	32	33	29	29	29
4	26	34	35	38	36	42	30	32	32	29	28	94
5	26	34	36	38	36	50	34	32	31	32	28	102
6	26	34	37	37	34	50	35	32	31	29	28	223
7	26	35	38	36	36	48	32	32	30	27	28	347
8	26	35	37	36	39	47	32	32	29	28	28	47
9	26	34	38	36	40	46	32	32	30	31	28	41
10	26	35	36	37	37	44	32	32	32	31	1550	36
11	26	34	36	38	35	43	29	32	30	28	1630	33
12	26	35	35	36	39	40	31	32	31	29	90	37
13	26	35	36	38	38	39	31	32	31	27	47	37
14	26	32	38	37	39	39	35	32	32	28	41	38
15	26	34	38	38	40	40	34	32	32	29	42	38
16	26	32	37	37	40	40	34	32	33	28	40	34
17	26	34	38	38	40	39	34	32	31	29	40	29
18	33	35	39	36	40	39	35	32	30	29	41	29
19	36	34	39	35	36	39	155	33	29	30	41	28
20	35	36	39	36	37	39	42	33	30	30	41	29
21	35	34	40	36	39	38	39	33	31	29	38	31
22	35	34	39	36	37	38	36	33	31	30	35	30
23	35	36	39	36	39	38	35	33	31	29	34	31
24	35	35	37	36	38	38	35	33	30	28	33	30
25	35	36	37	37	39	35	33	33	30	27	32	31
26	35	36	37	37	40	36	34	33	29	28	31	32
27	35	36	37	37	40	36	35	33	29	27	34	33
28	35	36	37	37	40	36	32	33	31	28	28	33
29	34	36	37	37	---	39	32	33	30	27	25	38
30	34	36	36	38	---	35	31	33	32	28	29	38
31	34	---	36	38	---	34	---	33	---	28	25	---
TOTAL	930	1039	1149	1143	1068	1253	1126	1004	927	893	4201	1634
MEAN	30.0	34.6	37.1	36.9	38.1	40.4	37.5	32.4	30.9	28.8	136	54.5
MAX	36	36	40	38	40	50	155	33	33	32	1630	347
MIN	26	32	35	35	34	34	29	31	29	27	25	26
AC-FT	1840	2060	2280	2270	2120	2490	2230	1990	1840	1770	8330	3240
CAL YR 1980	TOTAL	16465	MEAN 45.0	MAX 698	MIN 26	AC-FT 32660						
WTR YR 1981	TOTAL	16367	MEAN 44.8	MAX 1630	MIN 25	AC-FT 32460						

VIRGIN RIVER BASIN

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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, 5,110 ft³/s (145 m³/s) Aug. 11, gage height, 16.54 ft (5.041 m); minimum daily, 0.65 ft³/s (0.018 m³/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.3	3.1	4.0	8.1	3.0	16	1.0	12	1.7	1.0	11
2	5.6	11	1.8	3.9	5.0	7.1	17	1.0	11	1.7	.94	8.6
3	6.1	8.9	1.6	3.4	2.8	10	5.3	1.0	4.5	1.8	.85	8.2
4	5.8	5.7	1.9	4.4	1.8	8.5	3.0	1.1	2.8	1.8	.94	63
5	7.3	6.4	2.4	5.2	2.7	9.6	4.0	1.1	3.6	1.8	.90	113
6	6.5	8.0	2.3	6.5	4.6	25	4.2	1.1	2.6	1.6	.90	54
7	8.9	19	2.1	7.3	5.0	44	5.3	1.0	2.3	1.5	.90	39
8	12	13	1.8	4.9	5.0	28	4.5	1.1	2.6	1.5	1.2	26
9	11	7.6	1.7	5.1	5.0	12	3.9	1.1	1.9	1.6	1.2	25
10	5.9	7.1	2.2	6.8	5.0	22	2.8	1.1	2.4	1.7	1.1	19
11	4.5	4.8	2.1	8.8	5.0	21	2.4	1.0	2.8	1.7	1310	19
12	5.9	3.4	2.2	7.0	5.0	12	1.6	1.3	2.6	1.6	74	19
13	5.9	3.5	3.2	6.5	7.0	12	1.7	1.7	2.3	1.6	68	20
14	6.4	3.3	3.2	6.5	7.2	11	1.9	1.9	2.0	1.5	24	24
15	6.1	3.9	2.7	5.9	7.6	11	2.8	1.3	2.9	1.5	13	20
16	5.2	5.8	4.4	6.5	7.8	10	1.7	1.8	2.1	1.1	14	20
17	6.4	3.6	6.7	6.4	4.3	10	1.8	1.6	2.2	1.0	12	18
18	9.9	5.3	8.4	7.8	3.1	13	2.1	1.6	2.0	1.0	15	17
19	11	5.4	9.3	12	3.2	8.6	80	1.4	2.0	.99	13	16
20	9.3	3.0	8.8	9.8	5.8	11	20	2.2	1.8	1.0	15	22
21	5.0	1.6	8.6	4.8	7.0	10	10	2.7	1.8	.90	17	12
22	6.0	1.7	7.2	5.3	4.8	13	7.0	2.6	1.8	.73	17	8.1
23	6.5	1.8	6.5	5.3	3.2	12	3.1	2.6	1.8	.85	16	11
24	8.0	2.5	6.7	6.2	3.2	17	2.4	4.2	1.6	.65	21	7.4
25	4.7	1.1	7.0	5.0	3.1	10	2.0	4.4	1.7	.73	13	8.0
26	8.0	1.5	5.7	4.5	2.9	9.6	1.4	1.1	1.6	.77	12	5.6
27	5.3	2.0	5.0	4.6	2.9	11	2.0	12	1.5	.90	11	12
28	5.0	3.5	4.4	4.6	2.8	7.1	1.6	32	1.5	1.0	11	10
29	6.1	2.3	4.6	4.6	---	11	1.5	9.6	1.8	1.2	12	8.4
30	3.8	4.1	3.9	5.1	---	14	1.1	4.7	1.6	1.3	10	14
31	5.2	---	4.4	7.6	---	19	---	5.3	---	1.1	9.2	---
TOTAL	210.9	160.1	135.9	186.3	130.9	422.5	214.1	107.6	85.1	39.82	1717.13	658.3
MEAN	6.80	5.34	4.38	6.01	4.68	13.6	7.14	3.47	2.84	1.28	55.4	21.9
MAX	12	19	9.3	12	8.1	44	80	32	12	1.8	1310	113
MIN	3.8	1.1	1.6	3.4	1.8	3.0	1.1	1.0	1.5	.65	.85	5.6
AC-FT	418	318	270	370	260	838	425	213	169	79	3410	1310
CAL YR 1980	TOTAL	4454.73	MEAN	12.2	MAX	385	MIN	.79	AC-FT	8840		
WTR YR 1981	TOTAL	4068.65	MEAN	11.1	MAX	1310	MIN	.65	AC-FT	8070		

VIRGIN RIVER BASIN

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 two months.

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

MICROBIOLOGICAL AND SEDIMENT DATA: April 1979 to September 1980, monthly; October 1980 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,120 micromhos Dec. 11, 1979; 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, 6,800 colonies/100 mL June 19, 1979; 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, 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 1980 TO SEPTEMBER 1981

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 (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 14...	1110	3.9	3665	8.4	13.0	3.0	10.8	105	17	930	1100
JAN 13...	1330	6.3	3430	--	14.0	27	--	--	18	K210	K500
MAR 17...	1245	15	2640	8.2	15.5	69	9.8	102	28	K300	3100
MAY 16...	1015	2.2	3750	8.2	18.5	50	8.2	92	18	1200	3400
JUL 15...	1030	1.7	3880	8.4	28.0	9.0	10.0	135	41	K200	K520
SEP 14...	1145	26	2350	8.2	22.5	84	7.3	88	85	1800	2100

K: NON-IDEAL COLONY COUNT.

VIRGIN RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 14...	1200	220	150	490	6.2	--	--	--	310	1400	390
JAN 13...	960	170	130	420	5.9	26	--	--	--	1100	290
MAR 17...	810	170	94	300	4.6	24	410	0	340	860	230
MAY 16...	1100	210	130	420	5.6	30	410	0	340	1200	320
JUL 15...	1300	240	160	480	5.9	38	--	--	340	1400	390
SEP 14...	740	160	82	250	4.0	26	340	0	280	670	200

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV 14...	3.9	45	3040	--	32.0	30	.31	.020	.34	.180
JAN 13...	--	44	2480	--	42.2	78	.40	.030	.43	.160
MAR 17...	3.9	40	2050	1930	83.0	88	.38	.030	.39	.140
MAY 16...	2.9	37	2690	2550	16.0	96	.19	.020	.22	.150
JUL 15...	2.9	42	--	2960	13.6	19	.01	.010	.01	.110
SEP 14...	2.8	38	1750	1600	123	24	.29	.080	.36	.150

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 14...	.190	.82	.59	1.3	1.1	.340	.290	--	--	--
JAN 13...	.140	.63	.56	1.2	1.1	.220	.170	--	13	.2
MAR 17...	.090	.74	.44	1.3	.92	.170	.130	7.3	--	--
MAY 16...	.100	.77	.56	1.1	.88	.290	.170	--	9.4	.7
JUL 15...	.090	.81	.83	.94	.93	.330	.320	--	5.8	--
SEP 14...	.150	1.3	.85	1.8	1.4	.200	.060	5.2	--	--

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)	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)
JAN 13...	1330	62	63	100	100	0	0	0	0	3
MAY 16...	1015	90	70	100	100	1	0	10	10	1
JUL 15...	1030	140	140	100	0	0	0	10	10	2

VIRGIN RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN 13...	0	4	0	870	70	21	0	210	220	.2
MAY 16...	0	6	2	1300	60	6	0	290	200	.3
JUL 15...	1	3	3	420	50	1	0	200	130	.2

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (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)
JAN 13...	.1	2	--	1	1	0	0	20	20
MAY 16...	.1	8	1	1	1	0	0	20	20
JUL 15...	.1	5	2	1	0	0	0	40	10

DATE	TIME	SEDI- MENT, CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 14...	1110	287	3.0	--
JAN 13...	1330	278	4.7	--
MAR 17...	1245	310	13	56
MAY 16...	1015	320	1.9	52
JUL 15...	1030	252	1.2	--
SEP 14...	1145	446	31	75

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 14,80	MAR 17,81	MAY 16,81	JUL 15,81	SEP 14,81
TIME	1110	1245	1015	1030	1145
TOTAL CELLS/ML	760	310	2200	2200	12000
DIVERSITY: DIVISION	1.2	0.5	1.2	1.0	1.3
..CLASS	1.2	0.5	1.2	1.0	1.3
..ORDER	1.7	2.2	2.5	1.7	1.9
...FAMILY	1.8	2.2	2.5	1.7	2.0
....GENUS	1.8	2.2	2.5	1.7	2.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
...ACHNANTHACEAE										
....RHOICOSPHENIA	--	-	--	-	13	1	--	-	--	-
..BACILLARIALES										
...NITZSCHIAEAE										
...NITZSCHIA	39	5	100#	33	910#	41	630#	28	920	8
..BIDDULPHIALES										
...BIDDULPHIACEAE										
....BIDDULPHIA	--	-	100#	33	--	-	--	-	--	-
..EUPODISCALES										
...COSCIDINACEAE										
....CYCLOTELLA	--	-	--	-	26	1	130	6	110	1
...STEPHANODISCUS	--	-	--	-	52	2	--	-	--	-
..FRAGILARIALES										
...FRAGILARIACEAE										
....SYNEDRA	13	2	--	-	130	6	26	1	*	0
..NAVICULALES										
...CYMBELLACEAE										
....CYMBELLA	13	2	--	-	--	-	52	2	--	-
..NAVICULACEAE										
....MASTOGLIOIA	--	-	--	-	--	-	--	-	*	0
....NAVICULA	120#	15	52#	17	220	10	170	7	300	3
..SURIPELLALES										
...SURIPELLACEAE										
....SURIPELLA	--	-	26	8	130	6	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	26	3	--	-	--	-	--	-	140	1
....OOCYSTIS	--	-	--	-	--	-	--	-	2500#	21
...SELENASTRUM	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE										
....SCENEDESMUS	26	3	--	-	--	-	--	-	110	1
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	13	2	13	4	91	4	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	26	3	--	-	91	4	--	-	5900#	50
...NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	540#	24	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIAEAE										
....OSCILLATORIA	490#	64	--	-	--	-	1200#	55	1500	13
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	13	4	26	1	13	1	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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.--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.--18 years, 0.028 ft³/s (0.0008 m³/s), 22 acre-ft/yr (24,700 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.--No flow for entire year.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 349 ft³/s (9.88 m³/s) Mar. 5, gage height, 3.98 ft. (1.213 m); minimum daily, 65 ft³/s (1.84 m³/s) June 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	96	87	100	84	114	82	78	82	66	83	90
2	84	95	85	99	86	153	79	81	78	68	82	81
3	90	95	86	100	85	97	80	81	76	70	88	80
4	96	91	84	98	82	93	84	80	76	71	84	84
5	93	89	87	94	83	159	84	82	72	72	78	87
6	92	88	89	95	85	166	83	80	65	73	79	114
7	89	87	88	97	98	80	78	74	78	74	88	89
8	91	90	88	98	96	77	79	78	78	75	81	89
9	91	88	89	95	101	76	81	81	78	76	83	98
10	92	84	80	100	96	75	83	75	78	77	87	89
11	95	84	88	99	92	74	89	77	78	85	89	87
12	94	88	90	95	96	73	87	77	78	83	91	87
13	89	88	97	99	93	72	87	75	77	84	91	90
14	86	90	97	96	94	75	85	77	77	89	91	94
15	90	88	95	97	91	74	83	71	77	88	91	90
16	94	90	96	96	94	72	78	69	77	88	90	88
17	88	90	93	101	92	72	78	81	77	85	90	88
18	92	93	93	102	94	79	86	81	76	86	91	87
19	100	94	94	99	103	85	82	73	77	86	88	84
20	95	91	95	96	103	82	79	76	76	85	82	81
21	97	95	95	88	106	84	80	77	78	82	94	82
22	99	98	89	91	103	84	79	84	81	89	89	81
23	100	95	87	90	97	81	78	81	75	86	88	78
24	98	93	97	97	97	84	79	81	75	86	93	81
25	97	94	93	98	97	84	77	83	75	82	90	99
26	98	93	99	91	100	84	77	81	74	78	92	83
27	98	99	102	89	99	82	78	94	75	77	90	82
28	96	98	103	86	104	82	76	84	74	82	93	93
29	97	95	105	86	---	81	77	81	76	79	90	78
30	96	89	103	89	---	80	77	81	70	85	81	85
31	95	---	101	85	---	80	---	78	---	84	86	---
TOTAL	2906	2748	2875	2946	2651	2754	2425	2452	2284	2491	2713	2619
MEAN	93.7	91.6	92.7	95.0	94.7	88.8	80.8	79.1	76.1	80.4	87.5	87.3
MAX	100	99	105	102	106	166	89	94	82	89	94	114
MIN	84	84	80	85	82	72	76	69	65	66	78	78
AC-FT	5760	5450	5700	5840	5260	5460	4810	4860	4530	4940	5380	5190
CAL YR 1980	TOTAL	33096	MEAN 90.4	MAX 301	MIN 66	AC-FT 65650						
WTR YR 1981	TOTAL	31864	MEAN 87.3	MAX 166	MIN 65	AC-FT 63200						

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, 10.5°C Mar. 6, 1981.

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

SPECIFIC CONDUCTANCES: Maximum, 2,880 micromhos Feb. 1; minimum, 940 micromhos Mar. 6.

WATER TEMPERATURES: Maximum, 30.5°C July 14; minimum, 10.5°C Mar. 6.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	24.5	21.0	21.5	18.0	21.0	19.0	19.5	13.5	20.5	14.5
2	---	---	24.5	21.5	22.0	18.0	20.5	19.0	18.5	15.0	19.0	12.5
3	---	---	24.5	21.5	21.5	19.0	20.5	18.0	19.5	13.5	20.5	17.5
4	---	---	25.0	21.5	22.0	20.0	21.0	18.5	19.5	14.5	20.0	18.0
5	---	---	25.0	22.0	21.0	18.5	20.0	18.5	19.5	14.5	19.0	12.0
6	---	---	25.0	21.5	21.5	18.0	19.5	17.5	19.0	16.0	17.5	10.5
7	28.0	23.5	24.5	21.0	20.5	18.0	20.0	17.5	20.0	16.5	20.5	17.5
8	28.0	23.5	24.5	21.5	20.0	16.5	20.0	17.0	19.0	17.5	21.0	18.0
9	27.5	23.0	24.0	20.5	20.5	17.0	20.0	17.0	19.5	17.0	21.5	18.5
10	27.5	23.0	24.5	21.0	20.5	17.0	20.5	17.0	20.0	17.5	21.5	18.5
11	26.5	23.5	23.5	21.5	20.0	16.5	20.0	17.5	20.0	18.0	21.5	18.5
12	26.0	24.5	23.5	21.5	20.0	17.5	20.5	19.0	20.0	17.5	21.5	19.0
13	26.0	22.5	23.5	19.5	21.0	18.0	21.0	19.5	20.5	15.5	20.5	18.5
14	24.5	21.5	23.0	19.0	21.0	18.0	20.0	18.0	20.0	16.0	21.5	18.5
15	24.5	22.0	21.5	20.0	21.0	17.5	20.0	17.5	21.0	16.0	22.0	19.0
16	24.5	21.5	21.5	19.0	21.5	19.0	20.0	17.5	21.0	17.5	22.0	19.0
17	25.0	21.5	22.0	19.0	21.0	19.0	20.5	18.0	21.0	18.0	21.0	18.5
18	25.0	21.0	21.5	17.5	21.0	18.0	21.0	18.5	21.5	18.0	21.5	18.5
19	25.0	22.0	21.0	17.5	21.0	18.0	20.5	18.5	21.0	18.5	21.0	19.0
20	25.5	22.5	22.0	18.0	21.0	18.0	20.5	18.0	20.0	18.0	20.5	16.5
21	25.5	22.0	21.5	17.5	21.0	18.5	20.5	17.5	19.5	17.0	22.5	16.5
22	25.5	22.0	22.0	20.0	20.5	18.5	20.5	17.0	20.5	17.5	23.0	17.0
23	24.5	22.5	21.5	19.5	20.0	16.0	20.5	18.5	21.0	17.5	23.0	19.5
24	25.0	21.5	21.0	19.0	20.5	16.0	20.5	17.5	20.5	15.5	23.0	19.5
25	24.5	20.0	21.5	18.0	20.0	17.5	20.0	17.0	20.5	16.0	22.5	19.5
26	23.0	21.0	21.5	18.5	21.0	17.5	19.5	17.0	20.0	16.5	20.5	18.5
27	23.5	21.0	22.0	18.5	21.0	18.0	19.5	17.5	20.5	18.0	21.5	18.0
28	23.5	21.0	22.0	18.5	21.5	19.0	19.5	18.0	21.0	17.5	22.5	19.0
29	24.0	21.0	22.0	19.0	21.0	18.5	18.0	16.5	---	---	22.5	19.0
30	24.5	21.0	21.0	18.0	21.0	18.5	19.0	16.0	---	---	21.0	18.0
31	24.5	21.0	---	---	21.0	18.0	18.0	14.5	---	---	22.5	18.5
MONTH	28.0	20.0	25.0	17.5	22.0	16.0	21.0	14.5	21.5	13.5	23.0	10.5

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX APRIL	MIN	MAX	MIN MAY	MAX	MIN JUNE	MAX	MIN JULY	MAX	MIN AUGUST	MAX	MIN SEPTEMBER
1	22.5	18.5	26.0	23.0	27.0	24.0	---	---	---	---	29.5	26.0
2	21.0	18.5	25.5	22.5	25.0	23.5	---	---	---	---	28.5	26.0
3	21.0	18.0	26.0	20.0	26.0	23.0	29.0	24.0	---	---	28.5	25.0
4	22.5	19.0	26.0	21.5	26.0	23.5	29.0	25.0	---	---	29.0	25.5
5	22.5	19.0	25.0	22.5	27.5	23.5	29.0	26.0	---	---	29.0	26.5
6	23.0	19.5	25.5	21.5	26.5	24.0	28.5	26.0	---	---	27.0	24.0
7	24.0	20.0	25.0	21.5	26.0	24.0	27.5	25.5	---	---	28.0	26.0
8	24.0	19.0	25.0	20.5	28.0	24.0	28.5	25.5	---	---	28.5	25.5
9	23.5	19.0	25.0	21.0	27.5	24.5	29.5	26.5	---	---	28.5	26.0
10	23.0	20.0	26.0	22.0	27.5	24.5	29.0	26.0	---	---	29.0	26.5
11	22.5	20.0	26.0	22.5	27.0	24.0	29.0	25.5	---	---	29.0	26.0
12	23.0	21.0	26.5	22.5	25.5	23.0	28.5	26.5	---	---	29.0	26.5
13	24.5	20.5	26.0	22.5	26.0	22.0	29.0	27.0	---	---	29.0	26.5
14	24.5	21.0	25.5	23.0	25.0	23.0	30.5	27.0	---	---	29.0	26.5
15	25.0	22.0	25.0	22.0	25.5	22.5	29.0	27.0	---	---	27.0	26.5
16	25.0	21.5	23.0	21.5	---	---	---	---	---	---	28.5	26.0
17	24.5	22.0	25.5	21.5	---	---	---	---	---	---	28.5	26.0
18	24.0	20.5	25.5	22.5	---	---	---	---	28.5	27.5	29.0	26.0
19	22.5	18.5	23.0	21.5	---	---	---	---	28.5	26.5	28.5	26.0
20	24.5	20.5	24.5	20.0	---	---	---	---	29.5	26.5	28.0	26.0
21	25.0	21.0	26.0	21.0	---	---	---	---	28.5	26.0	28.5	25.5
22	24.5	22.0	26.0	22.5	---	---	---	---	29.5	27.0	28.0	25.5
23	25.5	22.0	26.5	23.0	---	---	---	---	29.5	27.0	28.0	25.5
24	25.5	22.0	26.5	23.5	---	---	---	---	29.5	26.5	27.5	25.5
25	25.0	22.0	25.5	23.5	---	---	---	---	29.5	26.5	27.0	23.5
26	24.5	21.5	24.5	23.5	---	---	---	---	30.0	27.0	27.5	24.5
27	25.5	22.0	24.5	22.0	---	---	---	---	30.0	27.5	27.5	24.5
28	25.0	22.0	27.0	23.0	---	---	---	---	30.0	27.0	27.5	23.5
29	26.0	22.0	27.0	23.5	---	---	---	---	29.5	27.0	26.5	25.0
30	26.5	22.5	27.0	24.5	---	---	---	---	29.0	27.0	26.5	25.0
31	---	---	26.5	24.0	---	---	---	---	29.5	26.0	---	---
MONTH	26.5	18.0	27.0	20.0	28.0	22.0	30.5	24.0	30.0	26.0	29.5	23.5
YEAR	30.5	10.5										

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	2540	2020	2470	1970	2530	2040	2880	2000	2440	1220
2	---	---	2460	2000	2530	2040	2540	2060	2530	1980	2340	1710
3	---	---	2380	1970	2490	2050	2560	2020	2730	2050	2500	2160
4	---	---	2380	1930	2570	2040	2560	2010	2770	2040	2640	2110
5	---	---	2420	1960	2590	2040	2470	2030	2530	2030	2550	1110
6	---	---	2470	1930	2660	2000	2430	2110	2540	2010	2120	940
7	2510	1990	2410	1970	2490	2010	2490	2120	2510	1970	2600	2110
8	2580	2020	2390	1870	2470	1990	2510	2120	2380	1970	2590	2130
9	2540	2020	2450	1800	2480	2070	2480	2150	2460	1960	2640	2180
10	2430	1980	2570	1780	2520	2100	2700	2090	2340	1950	2650	2240
11	2430	1900	2620	1890	2520	2080	2590	2110	2370	2020	2620	2210
12	2270	1900	2430	1890	2490	2080	2530	2140	2300	2010	2600	2200
13	2290	2110	2330	1890	2540	1970	2460	2200	2370	1990	2650	2170
14	2360	2290	2340	1930	2450	1980	2650	2210	2560	1900	2650	2110
15	---	---	2520	1860	2370	1990	2500	2160	2310	1920	2580	2070
16	---	---	2360	1860	2400	2050	2450	2160	2460	1970	2490	2000
17	---	---	2320	1860	2420	2090	2620	2050	2360	2010	2400	2080
18	---	---	2350	1970	2400	2110	2430	2040	2470	2100	2600	2070
19	---	---	2380	1960	2390	2060	2480	1990	2450	2080	2470	2100
20	---	---	2540	1950	2580	2000	2400	2100	2410	2070	2530	2150
21	---	---	2400	1960	2450	2010	2440	2100	2550	1990	2770	2050
22	---	---	2450	1900	2570	2030	2500	2070	2400	1970	2800	2030
23	2320	1980	2400	1850	2520	2130	2570	2100	2600	1960	2860	2060
24	2310	1960	2320	1850	2410	2040	2650	1980	2490	2060	2630	2080
25	2540	1940	2420	2030	2450	2000	2580	2010	2540	2060	2560	2030
26	2370	1880	2440	2060	2540	1990	2500	2020	2400	2060	2660	2050
27	2300	1860	2450	1930	2500	2030	2390	2050	2440	2080	2570	2090
28	2380	1980	2400	1950	2410	2010	2650	2060	2510	2010	2610	2010
29	2390	2050	2720	2000	2400	2030	2560	2040	---	---	2530	2010
30	2480	2010	2570	1920	2410	2120	2550	2060	---	---	2560	1990
31	2440	2030	---	---	2520	2040	2540	2010	---	---	2580	2100
MONTH	2580	1860	2720	1780	2660	1970	2700	1980	2880	1900	2860	940

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

LAS VEGAS VALLEY

49

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

AVERAGE DISCHARGE.--24 years, 42.1 ft³/s (1.192 m³/s), 30,500 acre-ft/yr (37.6 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, 214 ft³/s (6.06 m³/s) Mar. 6, gage height, 9.17 ft (2.795 m); minimum daily, 60 ft³/s (1.70 m³/s) June 13, July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	72	72	81	66	80	67	72	72	60	70	72
2	73	73	68	77	68	130	66	72	72	61	73	67
3	72	72	70	79	68	91	65	72	70	61	75	66
4	76	70	70	77	65	77	68	72	70	65	73	67
5	76	70	70	77	66	80	71	72	66	65	70	71
6	76	70	70	75	65	184	72	72	68	65	72	94
7	73	71	70	76	75	92	69	72	69	66	74	108
8	74	73	70	79	80	74	66	72	69	66	74	85
9	74	73	70	77	86	76	68	72	70	69	74	86
10	74	73	70	77	83	81	71	72	64	62	75	85
11	75	67	70	81	80	80	77	72	62	64	77	83
12	75	73	70	78	80	80	79	72	62	67	81	79
13	72	70	70	80	80	78	81	72	60	66	86	82
14	69	73	70	79	79	78	80	72	63	69	85	88
15	71	70	70	80	79	81	79	72	65	68	78	89
16	74	72	70	78	78	80	70	72	66	69	79	84
17	71	73	70	79	81	78	68	72	68	69	77	86
18	69	74	70	81	77	78	71	72	66	70	76	83
19	76	74	70	80	72	78	90	72	67	72	78	81
20	76	73	70	77	74	74	80	72	67	72	74	80
21	75	75	70	69	90	70	80	72	69	70	77	80
22	76	76	69	68	87	72	77	76	71	71	76	80
23	78	77	68	70	80	69	76	74	69	71	77	78
24	77	75	71	72	80	70	76	72	66	72	76	78
25	73	76	75	76	80	71	75	72	66	70	75	84
26	75	76	73	75	80	71	73	72	66	69	74	83
27	77	77	79	71	80	71	74	72	65	67	75	82
28	74	78	81	70	80	68	73	72	67	68	77	85
29	75	77	82	67	---	68	73	72	68	68	75	80
30	75	73	83	72	---	67	72	72	67	70	69	82
31	73	---	78	68	---	66	---	72	---	72	69	---
TOTAL	2297	2196	2229	2346	2159	2513	2207	2238	2010	2094	2341	2448
MEAN	74.1	73.2	71.9	75.7	77.1	81.1	73.6	72.2	67.0	67.5	75.5	81.6
MAX	78	78	83	81	90	184	90	76	72	72	86	108
MIN	69	67	68	67	65	66	65	72	60	60	69	66
AC-FT	4560	4360	4420	4650	4280	4980	4380	4440	3990	4150	4640	4860
CAL YR 1980	TOTAL	29974	MEAN	81.9	MAX	362	MIN	64	AC-FT	59450		
WTR YR 1981	TOTAL	27078	MEAN	74.2	MAX	184	MIN	60	AC-FT	53710		

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, 3 mg/L July 16, 1979, and June 16, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
NOV 30...	1100	54	2220	7.6	16.5	600	130	66	220	3.9
DEC 22...	1245	54	2250	7.6	15.0	--	--	--	--	--
JAN 14...	0910	71	2360	7.5	14.0	620	130	71	250	4.4
FEB 12...	1000	68	2580	--	14.5	--	--	--	--	--
MAR 16...	0930	68	2550	--	16.5	--	--	--	--	--
APR 14...	0915	75	2600	7.5	18.5	740	160	82	260	4.2
MAY 18...	1145	E72	2200	--	20.0	--	--	--	--	--
JUN 16...	0800	64	2290	--	20.5	--	--	--	--	--
JUL 16...	0945	60	2190	7.4	26.0	610	140	64	230	4.0
AUG 18...	0930	71	2400	--	26.5	--	--	--	--	--
SEP 15...	0900	93	2500	--	24.0	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO ₃)	CAR- BONATE FET-FLD (MG/L AS CO ₃)	ALKA- LINITY FIELD (MG/L AS CACO ₃)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 30...	18	--	--	--	600	240	.7	22	1450
DEC 22...	--	--	--	--	--	--	--	--	--
JAN 14...	16	240	0	200	570	290	1.2	19	1510
FEB 12...	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--
APR 14...	19	--	--	--	670	320	1.1	24	1680
MAY 18...	--	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--
JUL 16...	18	210	0	170	530	300	.7	21	1490
AUG 18...	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--

E: ESTIMATED

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
NOV 30...	1360	211	.00	.010	1.20	18	19	3.10	2.90
DEC 22	--	--	.04	.030	14.0	--	--	3.10	--
JAN 14...	1470	289	.01	.010	17.0	.00	17	3.20	2.20
FEB 12...	--	--	.00	.050	16.0	1.0	17	3.30	--
MAR 16...	--	--	.05	.000	.500	16	16	4.50	--
APR 14...	1630	340	.05	.020	.000	--	--	4.40	4.30
MAY 18...	--	--	.09	.010	14.0	1.0	15	5.60	--
JUN 16...	--	--	.04	.020	.000	17	17	3.10	--
JUL 16...	1410	241	.01	.040	<.010	--	11	.490	.450
AUG 18...	--	--	--	<.010	<.070	--	--	.340	--
SEP 15...	--	--	.16	.050	.120	14	14	.430	--

DATE	TIME	SEDI- MENT, DIS- SOLVED (MG/L)	SEDI- MENT, CHARGE, SUS- PENDED (T/DAY)
NOV 30...	1100	21	3.1
DEC 22...	1245	8	1.2
JAN 14...	0910	58	11
FEB 12...	1000	9	1.7
MAR 16...	0930	14	2.6
APR 14...	0915	11	2.2
MAY 18...	1145	12	1.8
JUN 16...	0800	3	.52
JUL 16...	0945	47	7.6
AUG 18...	0930	8	1.5
SEP 15...	0900	6	1.5

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead 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.--12 years, 75.1 ft³/s (2.127 m³/s), 54,410 acre-ft (67.1 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, 830 ft³/s (23.5 m³/s) Mar. 6, gage height, 5.14 ft (1.567 m); minimum daily, 77 ft³/s (2.18 m³/s) Apr. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	93	93	99	87	103	94	83	114	82	97	94
2	87	94	87	96	89	178	94	82	108	81	96	90
3	87	97	90	96	90	106	90	85	97	80	96	83
4	97	95	90	96	87	100	93	86	94	86	96	82
5	102	94	87	94	86	163	99	86	89	86	96	90
6	102	94	90	92	86	513	102	86	90	86	94	118
7	99	93	92	92	92	144	102	83	94	85	90	130
8	99	93	92	96	100	100	97	80	95	87	92	117
9	99	93	92	94	105	98	99	81	96	92	90	120
10	102	94	90	93	105	100	102	83	93	89	90	112
11	100	85	90	97	103	98	94	90	93	79	93	106
12	103	90	89	97	102	96	96	95	96	86	103	97
13	99	87	92	97	102	94	90	90	94	87	106	104
14	99	90	96	97	100	94	86	92	94	90	109	115
15	96	87	96	97	99	97	87	100	92	87	103	112
16	102	90	97	97	97	99	82	87	95	92	99	103
17	99	94	94	97	100	95	80	90	92	92	100	103
18	94	93	93	99	99	97	81	104	87	91	96	99
19	103	94	92	99	100	100	90	97	90	94	94	96
20	109	96	92	97	102	96	83	93	87	94	94	92
21	103	96	92	90	100	89	82	97	90	92	93	94
22	104	97	92	86	100	89	83	103	94	92	97	96
23	104	100	85	89	100	89	82	100	92	94	99	90
24	97	100	85	89	97	85	83	104	87	95	97	89
25	97	96	93	93	97	90	82	103	87	93	99	89
26	100	97	89	94	97	89	77	109	89	100	96	96
27	99	97	96	92	97	92	77	104	87	104	102	94
28	97	100	99	92	97	90	78	139	92	100	99	96
29	99	102	102	87	---	92	78	120	90	99	100	97
30	97	97	102	92	---	89	82	117	92	98	93	92
31	94	---	97	90	---	90	---	122	---	97	89	---
TOTAL	3059	2828	2866	2916	2716	3555	2645	2991	2790	2810	2998	2996
MEAN	98.7	94.3	92.5	94.1	97.0	115	88.2	96.5	93.0	90.6	96.7	99.9
MAX	109	102	102	99	105	513	102	139	114	104	109	130
MIN	87	85	85	86	86	85	77	80	87	79	89	82
AC-FT	6070	5610	5680	5780	5390	7050	5250	5930	5530	5570	5950	5940
CAL YR 1980	TOTAL	36691	MEAN	100	MAX	310	MIN	76	AC-FT	72780		
WTR YR 1981	TOTAL	35170	MEAN	96.4	MAX	513	MIN	77	AC-FT	69760		

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1964 to January 1965, September 1966 to current year.

CHEMICAL ANALYSES: January 1964 to January 1965, twice monthly; September 1966 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to September 1980, twice monthly; October 1980 to current year, monthly.

SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice monthly; September 1966 to December 1967 and May 1968 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to May 1975, twice monthly; June 1975 to March 1976, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; April to October 1976, twice monthly; November 1976 to September 1977, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; October 1977 to May 1978, 2-4 times per month; June 1978 to January 1979, 3-5 times per week; February to August 1979, twice monthly; September and October 1979, 4 times per hour; November 1979 to current year, hourly.

MICROBIOLOGICAL DATA: October 1977 to September 1980, twice monthly (data prior to October 1977 unpublished); October 1980 to current year, monthly.

WATER TEMPERATURES: January to December 1968, weekly; August 1969 to July 1974, monthly; August 1974 to May 1978, twice monthly; June 1978 to January 1979, 3-5 times per week; February to October 1979, twice monthly; November 1979 to current year, hourly.

SEDIMENT DATA: January 1974 to December 1976, monthly; January 1977 to August 1979, twice monthly; September 1979 to December 1980, monthly; January 1981 to current year, twice monthly.

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

REMARKS.--Discharge includes sewage effluent and wastewater from industrial plants. City and county sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981. Periods of no record for specific conductance and temperature were caused by the loss of recorder probes due to high flow in March 1981, and burial of the probes by sediment deposits in August and September 1981.

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 9,120 micromhos Sept. 8, 1964; minimum, 2,080 micromhos July 8, 1981.

FECAL STREPTOCOCCI: Maximum, 16,000 colonies/100 mL (non-ideal colony count) Aug. 14, 1978; minimum, 55 colonies/100 mL Jan. 10, 1977.

WATER TEMPERATURES: Maximum, 28.5°C on several days in July 1981; minimum, 3.0°C Jan. 7, 1970.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 69,600 mg/L Feb. 15, 1980 (hand-dipped sample; not depth integrated); minimum, 111 mg/L Jan. 28, 1975.

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

SPECIFIC CONDUCTANCES: Maximum, 3,610 micromhos May 12; minimum, 2,080 micromhos July 8.

WATER TEMPERATURES: Maximum, 28.5°C on several days in July; minimum, 10.0°C Dec. 11, Feb. 3-5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 (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 30...	1245	94	2980	7.9	14.5	46	--	--	37	--	--	--
DEC 22...	1145	96	3000	8.0	13.5	24	--	--	26	--	--	--
JAN 14...	1100	103	3040	7.9	14.0	--	--	--	--	30	--	960
FEB 12...	1120	106	3100	7.9	14.5	--	--	--	20	20	120	--
MAR 16...	1045	E99	--	8.0	17.0	--	--	--	51	60	--	--
APR 14...	1100	102	3350	8.0	19.5	--	7.6	85	49	60	--	1100
MAY 18...	1015	78	3000	8.0	19.5	--	8.4	94	34	K10	--	--
JUN 16...	1045	100	2830	7.9	21.0	--	8.2	95	32	K170	--	--
JUL 16...	1045	100	2870	7.9	26.0	--	6.4	82	47	120	--	920
AUG 18...	1200	100	2870	8.0	24.5	--	7.9	100	85	K270	--	--
SEP 15...	1015	175	2840	7.9	23.0	--	7.4	89	110	190	--	--

K: NON-IDEAL COLONY COUNT.

E: ESTIMATED.

LAS VEGAS VALLEY

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
NOV 30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	220	100	290	4.1	23	--	--	--	810	390	1.1	29
FEB 12...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	290	100	330	4.3	26	300	0	250	1100	390	.9	30
MAY 18...	--	--	--	--	--	270	0	220	--	--	--	--
JUN 16...	--	--	--	--	--	210	0	170	--	--	--	--
JUL 16...	230	83	270	3.9	25	200	0	160	850	390	.7	27
AUG 18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	--

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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEd (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, 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)
NOV 30...	2070	--	525	126	1.6	.800	1.20	13	16	2.40	--
DEC 22...	2050	--	531	--	1.6	.680	11.0	--	--	2.30	--
JAN 14...	2090	1980	581	--	1.6	.640	12.0	.00	14	2.50	1.80
FEB 12...	2100	--	601	--	1.7	.740	10.0	3.0	15	2.50	--
MAR 16...	2510	--	678	--	--	--	.440	11	12	3.70	--
APR 14...	2460	2390	677	--	1.2	.770	.000	14	16	3.50	3.00
MAY 18...	2110	--	444	--	.80	.800	10.0	2.0	14	3.40	--
JUN 16...	1970	--	532	--	--	--	--	--	13	2.20	--
JUL 16...	2030	1960	548	--	1.1	2.10	5.60	1.2	10	.660	.420
AUG 18...	2050	--	553	--	.50	2.10	6.20	1.8	11	.500	--
SEP 15...	2140	--	1010	--	.90	1.70	5.20	3.0	11	.730	--

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
30...	1245	94	375	95	43
DEC					
22...	1145	96	300	78	45
JAN					
14...	1100	103	440	122	56
21...	1115	97	270	71	54
FEB					
12...	1120	106	246	70	48
MAR					
02...	0845	126	1280	435	60
16...	1045	E99	1920	518	40
APR					
01...	1330	92	1980	492	50
14...	1100	102	470	129	52
MAY					
01...	0815	88	283	67	50
18...	1015	78	900	190	40
JUN					
02...	1000	122	650	214	50
16...	1045	100	350	94	42
JUL					
02...	0925	89	220	53	35
08...	0845	96	360	93	46
16...	1045	100	438	118	59
AUG					
04...	115	102	460	127	52
18...	1200	100	581	157	46
SEP					
04...	1130	87	250	59	43
15...	1015	175	1000	472	43

E: ESTIMATED.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY									
	MAX APRIL	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX MIN AUGUST SEPTEMBER
1	---	---	25.0	20.0	25.5	21.5	27.5	22.5	
2	19.0	16.0	24.5	20.0	23.5	21.0	---	---	
3	19.0	15.5	24.0	19.5	25.0	20.5	27.5	22.0	
4	19.5	14.5	23.5	19.0	25.5	20.5	28.0	22.0	
5	20.0	15.0	23.0	18.5	26.5	21.0	28.5	23.5	
6	20.0	15.5	22.5	18.0	26.5	21.5	27.5	24.5	
7	21.0	16.5	22.5	17.5	26.0	21.5	27.5	24.0	
8	21.5	17.0	22.5	17.0	27.0	21.5	24.5	23.5	
9	21.5	17.0	22.5	17.0	27.0	22.0	28.5	24.0	
10	21.0	17.0	22.5	17.5	27.0	22.0	28.0	24.0	
11	21.0	17.0	23.5	19.0	26.5	22.0	27.5	23.5	
12	19.5	16.5	24.5	19.0	25.5	20.5	27.5	24.0	
13	21.0	16.0	24.5	19.0	24.5	20.0	28.5	23.5	
14	21.0	16.0	24.0	19.5	23.0	18.5	28.5	24.0	
15	22.0	17.5	21.0	19.0	23.5	18.0	26.5	24.5	
16	22.5	18.0	20.0	18.0	24.0	19.0	---	---	
17	21.5	18.0	22.0	17.0	25.5	19.5	---	---	
18	21.5	18.0	22.0	17.5	25.5	20.0	---	---	
19	19.0	17.0	19.5	18.5	26.5	20.5	---	---	
20	20.5	16.0	22.0	16.5	27.0	21.5	---	---	
21	21.5	16.5	23.0	17.5	27.5	22.5	---	---	
22	22.0	17.5	22.5	18.0	28.0	23.0	---	---	
23	23.0	18.0	24.0	18.5	28.0	23.0	---	---	
24	23.5	18.5	24.0	19.5	28.0	23.0	---	---	
25	24.0	19.0	23.5	19.5	28.0	23.0	---	---	
26	22.0	19.5	22.0	20.5	28.0	23.0	---	---	
27	23.0	19.0	22.5	20.0	25.5	24.0	---	---	
28	23.0	19.0	24.5	19.5	28.0	23.5	---	---	
29	23.5	18.5	25.5	19.5	28.0	24.0	---	---	
30	24.5	19.0	25.0	21.0	27.5	23.5	---	---	
31	---	---	25.0	21.0	---	---	---	---	
MONTH	24.5	14.5	25.5	16.5	28.0	18.0	28.5	22.0	
YEAR	28.5	10.0							

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'58", long 114°44'13", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010005, 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, 23,638,000 acre-ft (29,100 hm³) Oct. 1, gage height, 1,204.93 ft (367.263 m); minimum, 21,839,000 acre-ft (26,900 hm³) Sept. 11, gage height, 1,192.45 ft (363.459 m).

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

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23638	23390	23436	23338	23457	23563	23204	22665	22358	21991	21917	21872
2	23635	23398	23420	23335	23458	23550	23172	22658	22353	21974	21935	21873
3	23612	23393	23402	23330	23477	23538	23150	22661	22350	21960	21931	21867
4	23607	23386	23392	23332	23490	23524	23150	22642	22334	21956	21929	21869
5	23609	23382	23380	23316	23498	23513	23156	22619	22329	21952	21931	21890
6	23595	23368	23387	23308	23505	23514	23133	22615	22330	21929	21924	21886
7	23578	23358	23402	23301	23521	23514	23104	22610	22338	21910	21921	21886
8	23572	23368	23402	23298	23538	23521	23074	22606	22330	21900	21929	21866
9	23570	23387	23396	23295	23541	23518	23044	22596	22319	21895	21943	21856
10	23561	23380	23390	23314	23544	23513	23009	22585	22307	21886	21933	21841
11	23573	23373	23385	23338	23547	23511	22999	22567	22299	21891	21941	21839
12	23589	23362	23392	23340	23557	23598	22996	22543	22292	21903	21941	21848
13	23585	23355	23414	23339	23564	23488	22968	22533	22292	21900	21932	21870
14	23561	23352	23432	23339	23581	23490	22941	22520	22290	21888	21922	21866
15	23548	23364	23432	23333	23598	23501	22920	22509	22272	21894	21935	21859
16	23551	23398	23417	23329	23610	23498	22899	22513	22249	21900	21932	21853
17	23547	23398	23410	23336	23609	23476	22884	22513	22222	21891	21914	21849
18	23552	23392	23398	23354	23604	23454	22874	22487	22205	21895	21910	21848
19	23555	23390	23374	23364	23597	23424	22881	22467	22181	21905	21908	21855
20	23536	23387	23371	23370	23591	23415	22865	22454	22171	21895	21903	21873
21	23510	23383	23392	23376	23591	23412	22847	22444	22174	21895	21897	21877
22	23488	23399	23382	23382	23603	23412	22818	22446	22147	21898	21898	21873
23	23471	23411	23365	23392	23598	23395	22798	22448	22123	21898	21910	21874
24	23458	23415	23368	23401	23582	23379	22774	22446	22099	21895	21904	21879
25	23461	23417	23373	23418	23566	23349	22770	22443	22080	21903	21895	21884
26	23476	23414	23370	23427	23558	23329	22772	22424	22058	21914	21890	21895
27	23462	23435	23371	23427	23541	23304	22754	22406	22058	21917	21883	21900
28	23451	23449	23382	23427	23547	23292	22730	22391	22063	21901	21879	21895
29	23435	23454	23365	23427	---	22283	22711	22381	22045	21891	21884	21887
30	23412	23454	23349	23430	---	23263	22691	22387	22015	21895	21890	21870
31	23385	---	23336	23439	---	23229	---	22373	---	21900	21886	---
MAX	23638	23454	23436	23439	23610	23598	23204	22665	22358	21991	21943	21900
MIN	23385	23352	23336	23295	23457	22283	22691	22373	22015	21886	21879	21839
(*)	1203.21	1203.68	1202.88	1203.58	1204.31	1202.15	1198.44	1196.22	1193.70	1192.88	1192.78	1192.67
(+)	-252000	+62000	-118000	+103000	+108000	-318000	-538000	-318000	-358000	-115000	-14000	-16000
(‡)	12140	9710	8230	8470	8320	9550	11490	12740	14960	17070	14670	13470
(**)	7.9	6.0	3.5	3.5	2.9	3.2	5.0	4.1	6.9	9.6	6.9	7.7
(‡‡)	97200	73500	42800	42800	35700	39200	60400	48900	81700	112600	80800	90200
CAL YR 1980	MAX 23653	MIN 22576	† + 713000	‡‡ 124900	** 72.7	‡‡ 887600						
WTR YR 1981	MAX 23638	MIN 21839	† -1767000	‡‡ 141300	** 67.2	‡‡ 805800						

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

† Change in contents, in acre-feet.

‡ Diversions, in acre-feet.

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

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

NOTE.--Figures of gross evaporation are based on data obtained on Lake Mead by the U.S. Water and Power Resources Service (formerly 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" denoted the total evaporation from the lake without deduction for precipitation on the lake surface or for natural losses that would have occurred in the area now occupied by the lake. Starting February 1976 coefficient changed to 0.00179.

COLORADO RIVER MAIN STEM

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1940 to September 1962, October 1963 to current year.

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

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

EXTREMES MEASURED FOR PERIOD OF RECORD (at 5-ft depth to September 1962); at water surface from October 1963 to current year).--

SPECIFIC CONDUCTANCES: Maximum, 1,250 micromhos Oct. 4, Nov. 1, 1965; minimum, 688 micromhos Nov. 1, 1957.

WATER TEMPERATURES: Maximum, 31.5°C Aug. 30, 1967; minimum, 11.0°C Jan. 28, 1949.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	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							
03...	0915	.00	1140	8.3	19.5	7.9	330
03...	0920	5.00	1140	--	20.0	--	--
03...	0930	10.0	1120	8.4	20.0	7.7	330
03...	0935	15.0	1120	--	20.0	--	--
03...	0940	20.0	1120	--	20.0	--	--
03...	0945	25.0	1120	8.4	20.0	7.7	330
03...	0947	30.0	1120	--	20.0	--	--
03...	0949	40.0	1120	--	20.0	--	--
03...	0951	50.0	1120	--	20.5	--	--
03...	0954	60.0	1120	--	20.0	--	--
03...	0957	70.0	1120	--	20.0	--	--
03...	1000	75.0	1100	8.4	20.0	7.0	330
03...	1004	80.0	1060	--	19.5	--	--
03...	1008	90.0	1060	--	19.5	--	--
03...	1012	100	1080	--	19.0	--	--
03...	1015	125	1100	8.2	18.0	4.5	330
03...	1020	150	1110	--	18.0	--	--
03...	1030	175	1100	8.2	16.0	5.5	340
03...	1038	200	1100	--	15.0	--	--
03...	1045	225	1100	8.2	14.0	6.5	340
03...	1051	250	1100	--	14.0	--	--
03...	1100	275	1100	8.2	13.0	6.5	340
03...	1115	294	1100	8.1	13.0	6.5	340
03...	1122	300	1100	--	13.0	--	--
03...	1130	325	1100	8.0	13.0	6.3	340
03...	1142	350	1100	--	13.0	--	--
03...	1145	375	1100	8.0	12.0	5.8	340
03...	1153	400	1100	--	12.0	--	--
03...	1200	425	1100	8.0	12.0	5.2	340
03...	1210	450	1100	--	12.0	--	--
03...	1215	475	1100	7.9	12.0	3.7	340
03...	1230	490	1100	7.8	11.5	3.7	340

DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)
NOV								
03...	0930	10.0	80	31	110	2.6	4.8	--
03...	1015	125	82	31	110	2.6	4.6	150
03...	1100	275	86	30	100	2.4	4.5	160
03...	1215	475	85	31	100	2.4	4.5	160

DATE	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
NOV								
03...	--	--	310	91	.4	9.0	--	.11
03...	0	120	310	89	.4	8.5	711	.29
03...	0	130	300	88	.4	8.9	698	.27
03...	0	140	290	88	.4	9.4	688	.18

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	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)				
DEC											
03...	1015	.00	1090	8.2	20.0	6.9	330				
03...	1022	5.00	1110	--	19.5	--	--				
03...	1030	10.0	1120	8.2	16.5	6.7	330				
03...	1035	15.0	1120	--	17.0	--	--				
03...	1040	20.0	1120	--	16.5	--	--				
03...	1045	25.0	1120	8.2	16.5	6.7	330				
03...	1047	30.0	1120	--	16.5	--	--				
03...	1049	40.0	1120	--	16.5	--	--				
03...	1051	50.0	1120	--	16.5	--	--				
03...	1053	60.0	1120	--	16.0	--	--				
03...	1055	70.0	1120	--	16.0	--	--				
03...	1100	75.0	1120	8.2	16.0	6.9	340				
03...	1103	80.0	1120	--	16.5	--	--				
03...	1105	90.0	1120	--	16.5	--	--				
03...	1108	100	1120	--	16.5	--	--				
03...	1110	125	1120	8.2	16.5	6.8	340				
03...	1112	150	1120	--	16.0	--	--				
03...	1115	175	1120	8.0	16.0	5.9	340				
03...	1125	200	1100	--	15.0	--	--				
03...	1130	225	1090	8.1	14.5	6.3	340				
03...	1135	250	1090	--	14.0	--	--				
03...	1140	275	1090	8.0	13.5	6.6	340				
03...	1150	294	1090	8.0	13.0	6.4	340				
03...	1155	300	1100	--	13.0	--	--				
03...	1200	325	1100	8.0	13.0	6.4	340				
03...	1208	350	1100	--	13.0	--	--				
03...	1215	375	1100	7.9	12.5	5.9	340				
03...	1222	400	1100	--	13.0	--	--				
03...	1230	425	1100	7.8	12.5	5.4	340				
03...	1237	450	1100	--	12.0	--	--				
03...	1245	475	1100	7.8	12.0	5.2	340				
03...	1300	490	1100	7.8	12.0	4.0	340				
DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC											
03...	1015	.00	--	--	--	--	--	150	0	120	--
03...	1030	10.0	83	31	110	2.6	4.7	150	0	120	300
03...	1045	25.0	--	--	--	--	--	150	0	120	--
03...	1100	75.0	--	--	--	--	--	150	0	120	--
03...	1110	125	--	--	--	--	--	150	0	120	--
03...	1115	175	--	--	--	--	--	160	0	130	--
03...	1130	225	--	--	--	--	--	160	0	130	--
03...	1140	275	85	31	110	2.6	4.4	160	0	130	300
03...	1150	294	--	--	--	--	--	160	0	130	--
03...	1200	325	--	--	--	--	--	160	0	130	--
03...	1215	375	--	--	--	--	--	160	0	130	--
03...	1230	425	--	--	--	--	--	160	0	130	--
03...	1245	475	86	31	100	2.4	4.4	170	0	140	300
03...	1300	490	--	--	--	--	--	--	0	140	--
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 CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC											
03...	90	--	--	--	--	--	--	--	--	--	--
03...	90	.3	8.7	703	.30	.36	.000	.160	.43	.89	.010
03...	90	--	--	--	--	--	--	--	--	--	--
03...	93	--	--	--	--	--	--	--	--	--	--
03...	93	--	--	--	--	--	--	--	--	--	--
03...	93	--	--	--	--	--	--	--	--	--	--
03...	93	--	--	--	--	--	--	--	--	--	--
03...	90	.3	8.9	710	--	.29	--	--	--	--	--
03...	89	--	--	--	--	--	--	--	--	--	--
03...	88	--	--	--	--	--	--	--	--	--	--
03...	88	--	--	--	--	--	--	--	--	--	--
03...	88	--	--	--	--	--	--	--	--	--	--
03...	87	.3	12	706	--	.36	--	--	--	--	--
03...	87	--	--	--	--	.39	--	.000	.020	.51	.050

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		SAM- PLING DEPTH (FT)	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												
28...	0915	.00	1100	7.2	13.5	8.5	340					
28...	0918	5.00	1100	--	14.0	--	--					
28...	0920	10.0	1100	7.3	13.5	8.6	330					
28...	0921	15.0	1100	--	13.5	--	--					
28...	0923	20.0	1100	--	13.5	--	--					
28...	0925	25.0	1100	7.7	13.5	8.7	340					
28...	0926	30.0	1100	--	14.0	--	--					
28...	0927	40.0	1100	--	13.5	--	--					
28...	0928	50.0	1100	--	14.0	--	--					
28...	0929	70.0	1100	--	13.5	--	--					
28...	0930	75.0	1100	7.8	13.5	8.8	340					
28...	0933	80.0	1100	--	13.5	--	--					
28...	0936	90.0	1100	--	14.0	--	--					
28...	0938	100	1100	--	13.5	--	--					
28...	0940	125	1100	8.0	13.5	8.7	340					
28...	0945	150	1100	--	13.5	--	--					
28...	0950	175	1100	7.7	14.0	8.7	340					
28...	0955	200	1100	--	13.5	--	--					
28...	1000	225	1100	7.6	14.0	8.3	340					
28...	1002	250	1090	--	13.5	--	--					
28...	1005	275	1080	7.4	13.0	7.8	340					
28...	1010	294	1080	7.7	13.5	7.5	--					
28...	1015	300	1080	--	13.5	--	--					
28...	1020	325	1080	7.6	13.0	7.2	340					
28...	1025	350	1080	--	13.0	--	--					
28...	1030	375	1080	7.6	13.0	6.9	340					
28...	1035	400	1080	--	13.0	--	--					
28...	1040	425	1080	7.6	13.0	6.9	340					
28...	1045	450	1100	--	13.0	--	--					
28...	1050	475	1100	7.6	12.5	6.3	340					
28...	1105	490	1100	7.8	12.5	6.3	340					
DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	
FEB												
28...	0915	.00	--	--	--	--	--	160	0	130	--	
28...	0920	10.0	86	29	99	2.4	4.8	160	0	130	290	
28...	0925	25.0	--	--	--	--	--	160	0	130	--	
28...	0930	75.0	--	--	--	--	--	160	0	130	--	
28...	0940	125	--	--	--	--	--	160	0	130	--	
28...	0950	175	87	30	96	2.3	4.9	160	0	130	280	
28...	1000	225	--	--	--	--	--	160	0	130	--	
28...	1005	275	87	30	96	2.3	4.8	160	0	130	280	
28...	1020	325	--	--	--	--	--	170	0	140	--	
28...	1030	375	--	--	--	--	--	170	0	140	--	
28...	1040	425	--	--	--	--	--	170	0	140	--	
28...	1050	475	88	30	95	2.2	4.9	160	0	130	280	
28...	1105	490	--	--	--	--	--	160	0	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 TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
FEB												
28...	88	--	--	--	--	--	--	--	--	--	--	--
28...	88	.3	8.8	686	.31	.27	.000	.000	1.2	1.5	.070	--
28...	88	--	--	--	--	--	--	--	--	--	--	--
28...	88	--	--	--	--	--	--	--	--	--	--	--
28...	88	--	--	--	--	--	--	--	--	--	--	--
28...	--	.3	8.8	--	--	.27	--	--	--	--	--	--
28...	88	--	--	--	--	--	--	--	--	--	--	--
28...	85	.3	8.7	672	--	.36	--	--	--	--	--	--
28...	85	--	--	--	--	--	--	--	--	--	--	--
28...	85	--	--	--	--	--	--	--	--	--	--	--
28...	86	--	--	--	--	--	--	--	--	--	--	--
28...	88	.3	8.7	675	--	.29	--	--	--	--	--	--
28...	88	--	--	--	.31	--	.000	.000	.53	.84	.070	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	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)
MAR							
26...	0830	.00	1040	7.9	17.0	8.8	330
26...	0835	5.00	1080	--	15.5	--	--
26...	0840	10.0	1080	8.2	15.0	8.8	330
26...	0844	15.0	1090	--	15.0	--	--
26...	0848	20.0	1090	--	15.0	--	--
26...	0850	25.0	1090	8.2	15.5	8.8	330
26...	0852	30.0	1100	--	14.5	--	--
26...	0854	40.0	1100	--	14.5	--	--
26...	0856	50.0	1100	--	14.5	--	--
26...	0858	60.0	1100	--	14.5	--	--
26...	0859	70.0	1090	--	14.5	--	--
26...	0900	75.0	1100	7.9	14.0	8.6	330
26...	0902	80.0	1100	--	14.0	--	--
26...	0904	90.0	1100	--	14.0	--	--
26...	0908	100	1100	--	14.0	--	--
26...	0910	125	1090	8.0	13.5	8.5	330
26...	0915	150	1100	--	13.5	--	--
26...	0920	175	1090	8.0	13.5	8.0	--
26...	0925	200	1080	--	13.5	--	--
26...	0930	225	1060	7.9	13.0	7.4	320
26...	0935	250	1070	--	13.0	--	--
26...	0940	275	1080	7.8	13.0	6.7	330
26...	0950	294	1080	7.8	13.0	6.2	330
26...	0955	300	1090	--	13.0	--	--
26...	1000	325	1090	7.7	13.0	6.0	330
26...	1005	350	1100	--	13.0	--	--
26...	1010	375	1100	7.7	12.5	5.9	340
26...	1015	400	1100	--	12.5	--	--
26...	1020	425	1100	7.6	12.5	5.8	340
26...	1025	450	1100	--	12.5	--	--
26...	1030	475	1100	7.6	12.5	5.8	330
26...	1040	490	1100	7.5	12.5	5.3	340

DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)
MAR								
26...	0830	.00	--	--	--	--	--	160
26...	0840	10.0	82	31	100	2.4	4.6	160
26...	0850	25.0	--	--	--	--	--	160
26...	0900	75.0	--	--	--	--	--	160
26...	0910	125	--	--	--	--	--	160
26...	0930	225	81	30	98	2.4	4.4	160
26...	0940	275	--	--	--	--	--	160
26...	0950	294	--	--	--	--	--	160
26...	1000	325	--	--	--	--	--	160
26...	1010	375	--	--	--	--	--	170
26...	1020	425	--	--	--	--	--	170
26...	1030	475	84	--	99	--	4.5	170
26...	1040	490	--	--	--	--	--	170

DATE	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAR								
26...	0	130	--	87	--	--	--	--
26...	0	130	300	87	.3	8.5	693	.27
26...	0	130	--	87	--	--	--	--
26...	0	130	--	87	--	--	--	--
26...	0	130	--	87	--	--	--	--
26...	0	130	280	85	.3	9.0	668	.32
26...	0	130	--	86	--	--	--	--
26...	0	130	--	86	--	--	--	--
26...	0	130	--	87	--	--	--	--
26...	0	140	--	85	--	--	--	--
26...	0	140	--	86	--	--	--	--
26...	0	140	290	87	.3	8.9	--	.32
26...	0	140	--	87	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		SAM- PLING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)		
DATE	TIME								
MAY									
07...	0835	.00	1060	9.3	20.5	8.7	340		
07...	0843	5.00	1080	--	20.0	--	--		
07...	0850	10.0	1100	9.0	19.5	9.2	340		
07...	0855	15.0	1100	--	19.5	--	--		
07...	0900	20.0	1100	--	19.5	--	--		
07...	0905	25.0	1100	8.7	19.5	9.2	340		
07...	0908	30.0	1100	--	19.0	--	--		
07...	0911	40.0	1100	--	19.0	--	--		
07...	0913	50.0	1100	--	19.5	--	--		
07...	0916	60.0	1080	--	19.0	--	--		
07...	0918	70.0	1060	--	18.5	--	--		
07...	0920	75.0	1060	8.5	18.5	9.2	340		
07...	0923	80.0	1060	--	18.0	--	--		
07...	0926	90.0	1060	--	17.0	--	--		
07...	0931	100	1060	--	16.5	--	--		
07...	0935	125	1060	8.3	16.0	8.7	340		
07...	0940	150	1040	--	15.0	--	--		
07...	0945	175	1050	8.1	14.5	8.7	340		
07...	0950	200	1050	--	14.5	--	--		
07...	1000	225	1040	8.1	14.0	8.0	330		
07...	1005	250	1050	--	13.5	--	--		
07...	1015	275	1050	8.0	13.0	7.5	320		
07...	1030	288	1060	7.8	13.0	7.2	330		
07...	1040	300	1060	--	13.0	--	--		
07...	1045	325	1060	7.8	13.0	7.1	330		
07...	1053	350	1060	--	13.0	--	--		
07...	1100	375	1060	7.7	13.0	6.8	330		
07...	1115	400	1070	--	13.0	--	--		
07...	1130	425	1080	7.7	13.0	6.2	330		
07...	1145	450	1080	--	13.0	--	--		
07...	1200	475	1080	7.7	13.0	5.6	330		
07...	1230	484	1080	7.7	13.0	5.6	330		
DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)	
MAY									
07...	0835	.00	--	--	--	--	--	--	
07...	0850	10.0	84	31	110	2.6	4.5	--	
07...	0905	25.0	--	--	--	--	--	--	
07...	0920	75.0	--	--	--	--	--	--	
07...	0935	125	--	--	--	--	--	160	
07...	0945	175	--	--	--	--	--	160	
07...	1000	225	--	--	--	--	--	160	
07...	1015	275	82	29	99	2.4	4.2	160	
07...	1030	288	--	--	--	--	--	160	
07...	1045	325	--	--	--	--	--	160	
07...	1100	375	--	--	--	--	--	160	
07...	1130	425	--	--	--	--	--	160	
07...	1200	475	83	30	100	2.4	4.3	160	
07...	1230	484	--	--	--	--	--	160	
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
MAY									
07...	--	--	--	--	88	.4	--	--	--
07...	--	--	--	300	89	.4	8.9	--	.25
07...	--	--	--	--	88	.3	--	--	--
07...	--	--	--	--	89	.3	--	--	--
07...	0	130	--	--	87	.3	--	--	--
07...	0	130	--	--	87	.3	--	--	--
07...	0	130	--	--	86	.3	--	--	--
07...	0	130	280	--	84	.3	8.4	667	.25
07...	0	130	--	--	85	.3	--	--	--
07...	0	130	--	--	88	.3	--	--	--
07...	0	130	--	--	83	.3	--	--	--
07...	0	130	--	--	85	.3	--	--	--
07...	0	130	290	--	85	.3	9.3	682	.18
07...	0	130	--	--	85	.3	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	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							
28...	0930	10.0	--	--	22.0	--	--
28...	1050	483	--	--	13.0	--	--
29...	0900	.00	1100	8.4	22.0	9.7	330
29...	0910	5.00	1100	--	22.0	--	--
29...	0915	10.0	1100	8.4	21.5	9.9	330
29...	0920	15.0	1100	--	21.0	--	--
29...	0925	20.0	1100	--	21.5	--	--
29...	0930	25.0	1100	8.5	20.5	10.0	330
29...	0933	30.0	1100	--	21.0	--	--
29...	0936	40.0	1100	--	21.0	--	--
29...	0939	50.0	1095	--	20.5	--	--
29...	0942	60.0	1095	--	19.0	--	--
29...	0944	70.0	1090	--	17.0	--	--
29...	0945	75.0	1100	8.3	16.0	8.9	340
29...	0948	80.0	1100	--	16.0	--	--
29...	0951	90.0	1100	--	15.0	--	--
29...	0955	100	1100	--	14.5	--	--
29...	1000	125	1100	8.2	14.5	8.7	330
29...	1010	150	1100	--	14.0	--	--
29...	1015	175	1100	8.2	13.5	8.5	330
29...	1020	200	1090	--	13.5	--	--
29...	1030	225	1080	8.2	13.5	8.0	330
29...	1040	250	1080	--	13.5	--	--
29...	1045	275	1080	8.1	13.0	7.6	330
29...	1100	286	1080	8.1	13.0	7.4	330
29...	1110	300	1070	--	13.0	--	--
29...	1115	325	1070	7.9	12.0	7.2	330
29...	1120	350	1070	--	12.0	--	--
29...	1130	375	1070	7.9	13.0	6.5	330
29...	1140	400	1080	--	13.0	--	--
29...	1145	425	1080	8.0	13.0	6.3	330
29...	1155	450	1080	--	13.0	--	--
29...	1200	475	1080	8.0	13.0	5.2	330
29...	1215	483	1080	7.8	13.0	4.7	330

DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAY											
28...	0930	10.0	--	--	--	--	--	--	--	--	--
28...	1050	483	--	--	--	--	--	--	--	--	--
29...	0900	10.00	--	--	--	--	--	140	4	120	--
29...	0915	10.0	81	32	100	2.4	4.8	140	2	120	300
29...	0930	25.0	--	--	--	--	--	140	1	120	--
29...	0945	75.0	--	--	--	--	--	160	0	130	--
29...	1000	125	--	--	--	--	--	160	0	130	--
29...	1015	175	--	--	--	--	--	160	0	130	--
29...	1030	225	82	30	100	2.4	4.7	160	0	130	280
29...	1045	275	--	--	--	--	--	160	0	130	--
29...	1100	286	--	--	--	--	--	160	0	130	--
29...	1115	325	--	--	--	--	--	160	0	130	--
29...	1130	375	--	--	--	--	--	160	0	130	--
29...	1145	425	--	--	--	--	--	160	0	130	--
29...	1200	475	82	30	100	2.4	4.6	160	0	140	280
29...	1215	483	--	--	--	--	--	170	0	140	--

[illegible]

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	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							
29...	0830	.00	1100	8.4	27.0	8.5	320
29...	0835	5.00	1090	--	28.5	--	--
29...	0840	10.0	1090	8.5	28.0	9.0	320
29...	0845	15.0	1080	--	27.0	--	--
29...	0850	20.0	1090	--	26.5	--	--
29...	0855	25.0	1090	8.5	26.5	9.2	320
29...	0900	30.0	1090	--	26.0	--	--
29...	0905	40.0	1080	--	26.0	--	--
29...	0910	50.0	1070	--	25.5	--	--
29...	0915	60.0	1020	--	25.0	--	--
29...	0920	70.0	1010	--	22.0	--	--
29...	0925	75.0	1030	8.3	20.5	7.4	330
29...	0930	80.0	1060	--	19.5	--	--
29...	0935	90.0	1060	--	18.5	--	--
29...	0940	100	1060	--	18.0	--	--
29...	0945	125	1060	8.1	17.0	7.2	330
29...	0950	150	1050	--	16.0	--	--
29...	0955	175	1040	8.1	16.0	7.9	330
29...	1000	200	1040	--	15.0	--	--
29...	1005	225	1060	8.1	14.5	8.0	330
29...	1010	250	1060	--	14.0	--	--
29...	1015	275	1050	8.1	14.0	9.0	320
29...	1020	284	1050	8.0	13.0	7.3	330
29...	1026	300	1050	--	13.5	--	--
29...	1032	325	1050	8.0	13.0	6.6	320
29...	1038	350	1050	--	13.0	--	--
29...	1044	375	1060	7.8	13.0	4.7	320
29...	1100	400	1060	--	13.0	--	--
29...	1106	425	1060	7.8	13.0	5.2	330
29...	1112	450	1060	--	13.0	--	--
29...	1118	475	1070	7.8	13.0	4.1	330
29...	1130	480	1070	7.8	12.0	4.1	330

DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)
JUN								
29...	0830	.00	--	--	--	--	--	130
29...	0840	10.0	77	31	100	2.4	4.5	--
29...	0855	25.0	--	--	--	--	--	130
29...	0925	75.0	83	31	100	2.4	4.4	140
29...	0945	125	--	--	--	--	--	150
29...	0955	175	--	--	--	--	--	150
29...	1005	225	--	--	--	--	--	160
29...	1015	275	82	29	99	2.4	4.2	160
29...	1020	284	--	--	--	--	--	160
29...	1032	325	--	--	--	--	--	160
29...	1044	375	--	--	--	--	--	160
29...	1106	425	--	--	--	--	--	160
29...	1118	475	83	29	99	2.4	4.1	170
29...	1130	480	--	--	--	--	--	170

DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
JUN									
29...	1	110	--	90	--	--	--	--	--
29...	--	--	300	83	.3	8.8	--	--	.45
29...	1	110	--	84	--	--	--	--	--
29...	0	120	300	87	.3	9.8	686	.34	--
29...	0	120	--	88	--	--	--	--	--
29...	0	120	--	87	--	--	--	--	--
29...	0	130	--	86	--	--	--	--	--
29...	0	130	280	83	.3	9.4	667	.27	--
29...	0	130	--	82	--	--	--	--	--
29...	0	130	--	81	--	--	--	--	--
29...	0	130	--	83	--	--	--	--	--
29...	0	130	--	83	--	--	--	--	--
29...	0	140	280	83	.3	9.5	673	.25	--
29...	0	140	--	83	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		SAM- PLING DEPTH (FT)	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)		
JUL									
29...	0830	.00	1100	8.5	27.0	8.5	320		
29...	0835	5.00	1100	--	26.5	--	--		
29...	0840	10.0	1100	8.4	26.5	8.4	320		
29...	0845	15.0	1100	--	26.5	--	--		
29...	0850	20.0	1100	--	26.5	--	--		
29...	0855	25.0	1100	8.4	26.5	8.3	320		
29...	0900	30.0	1100	--	26.5	--	--		
29...	0905	40.0	1090	--	26.5	--	--		
29...	0910	50.0	1010	--	26.5	--	--		
29...	0915	60.0	990	--	26.5	--	--		
29...	0920	70.0	960	--	26.0	--	--		
29...	0925	75.0	960	8.1	26.0	7.0	330		
29...	0930	80.0	960	--	24.0	--	--		
29...	0935	90.0	960	--	23.0	--	--		
29...	0940	100	960	--	22.0	--	--		
29...	0945	125	970	8.0	21.0	7.2	330		
29...	0950	150	950	8.0	20.5	7.8	--		
29...	0955	175	950	--	19.0	--	330		
29...	1000	200	980	--	18.0	--	--		
29...	1005	225	980	7.9	16.5	7.8	330		
29...	1010	250	1000	--	16.0	--	--		
29...	1015	275	1000	7.9	15.0	7.2	330		
29...	1020	283	1020	7.9	15.0	7.5	330		
29...	1026	300	1020	--	14.5	--	--		
29...	1032	325	1030	7.9	14.0	6.8	330		
29...	1038	350	1030	--	14.0	--	--		
29...	1044	375	1040	7.8	13.5	6.4	330		
29...	1100	400	1040	--	13.5	--	--		
29...	1106	425	1050	7.8	13.5	5.8	330		
29...	1112	450	1050	--	13.5	--	--		
29...	1118	475	1050	7.5	13.0	4.0	330		
29...	1130	480	1060	--	13.0	--	330		
DATE	TIME	SAM- PLING DEPTH (FT)	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-FLD (MG/L AS HCO3)	
JUL									
29...	0830	.00	--	--	--	--	--	130	
29...	0840	10.0	--	--	--	--	--	130	
29...	0855	25.0	77	32	100	2.4	4.5	130	
29...	0925	75.0	--	--	--	--	--	150	
29...	0945	125	--	--	--	--	--	160	
29...	0955	175	82	30	100	2.4	4.2	160	
29...	1005	225	82	30	99	2.4	4.2	160	
29...	1015	275	--	--	--	--	--	160	
29...	1020	283	--	--	--	--	--	160	
29...	1032	325	--	--	--	--	--	150	
29...	1044	375	--	--	--	--	--	150	
29...	1106	425	81	30	100	2.4	4.3	150	
29...	1118	475	--	--	--	--	--	160	
29...	1130	480	--	--	--	--	--	160	
DATE	TIME	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
JUL									
29...	1	110	--	82	--	--	--	--	--
29...	1	110	--	90	--	--	--	--	--
29...	1	110	310	90	.4	8.9	689	.36	--
29...	0	120	--	87	--	--	--	--	--
29...	0	130	--	87	--	--	--	--	--
29...	0	130	290	86	.4	9.0	682	.29	--
29...	0	130	280	85	.4	9.5	669	.09	--
29...	0	130	--	84	--	--	--	--	--
29...	0	130	--	86	--	--	--	--	--
29...	0	120	--	87	--	--	--	--	--
29...	0	120	--	88	--	--	--	--	--
29...	0	120	290	87	.4	9.6	677	.14	--
29...	0	140	--	83	--	--	--	--	--
29...	0	140	--	82	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

				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 (FT)	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-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
AUG											
27...	0915	.00	--	--	--	--	--	120	0	95	--
27...	0928	10.0	76	32	110	2.7	4.8	--	--	97	310
27...	0945	25.0	--	--	--	--	--	--	--	99	--
27...	1045	125	82	31	100	2.4	4.0	150	0	120	300
27...	1057	175	--	--	--	--	--	150	0	120	--
27...	1109	225	--	--	--	--	--	150	0	130	--
27...	1121	275	82	30	99	2.4	4.2	160	0	130	280
27...	1127	283	--	--	--	--	--	150	0	130	--
27...	1139	325	--	--	--	--	--	150	0	130	--
27...	1151	375	--	--	--	--	--	150	0	130	--
27...	1203	425	--	--	--	--	--	160	0	130	--
27...	1215	475	82	29	98	2.4	4.2	160	0	130	280
27...	1230	481	--	--	--	--	--	160	0	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 CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG											
27...	92	--	--	--	--	--	--	--	--	--	--
27...	92	.5	8.8	693	.09	.05	.020	.100	.27	.48	.040
27...	92	--	--	--	--	--	--	--	--	--	--
27...	88	.5	8.9	690	--	.36	--	--	--	--	--
27...	83	--	--	--	--	--	--	--	--	--	--
27...	83	--	--	--	--	--	--	--	--	--	--
27...	84	.5	8.9	668	--	.23	--	--	--	--	--
27...	84	--	--	--	--	--	--	--	--	--	--
27...	84	--	--	--	--	--	--	--	--	--	--
27...	84	--	--	--	--	--	--	--	--	--	--
27...	84	--	--	--	--	--	--	--	--	--	--
27...	84	.5	9.3	666	--	.05	--	--	--	--	--
27...	84	--	--	--	.46	--	.020	.110	.32	.91	.080

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TRANSPARENCY, SECCHI DISK (FEET)
NOV	
03...	21
DEC	
03...	31
FEB	
28...	45
MAR	
26...	42
MAY	
07...	53
29...	22
JUN	
29...	34
JUL	
29...	24
AUG	
27...	20

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.--47 years (water years 1935-81), 13,160 ft³/s (372.7 m³/s), 9,534,000 acre-ft/yr (11,800 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, 24,200 ft³/s (685 m³/s) Oct. 31 minimum daily, 1,800 ft³/s (51.0 m³/s) Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14600	8660	18500	7830	4850	5590	20200	20400	15500	18800	9090	15700
2	16200	8430	18500	11000	11900	16200	21000	9380	9690	18100	8600	14600
3	18500	13600	19500	10100	10700	14000	23000	7790	11000	14800	14800	16100
4	13900	15100	19400	7900	11700	11200	6150	18200	14900	11100	15300	15000
5	8620	15600	19700	19900	12800	13100	7220	18500	12800	10900	15200	8240
6	16700	21300	10800	15000	11800	10100	18400	13300	8200	17000	17400	7600
7	20400	21600	7550	16600	3100	4500	19700	12900	6700	16800	16500	8330
8	19900	9520	18500	17100	6420	2790	19500	15500	11500	15900	11100	17400
9	17300	6780	18700	13700	11500	8050	21800	11200	12800	17200	10600	14500
10	18500	18700	19500	3270	12700	8290	22700	11800	12100	16700	16600	15100
11	9370	18300	18800	1800	13800	10500	11800	18200	11900	11000	17500	13700
12	8310	20800	17300	11900	10800	12700	10000	15500	10800	10300	18400	6730
13	15100	18600	7850	12200	11000	13700	20900	15600	7820	15400	18800	5310
14	17900	19500	7420	11600	3510	6960	20000	14700	8170	15300	17400	13400
15	18800	7470	14300	12500	2580	4930	18900	15300	15800	12800	12300	15500
16	16000	4750	17100	11300	6370	14400	17300	9340	17800	11600	9760	13400
17	19400	18300	16500	6370	10800	15600	18000	9720	17500	13900	19000	13300
18	8520	18100	15800	3080	12200	15700	9150	19400	16400	9020	15600	15400
19	9120	19100	20000	11100	12700	19800	6610	19800	20800	8860	14200	9930
20	17500	19400	10400	11000	10200	16700	18300	15600	11700	14400	17500	4300
21	19500	20700	9160	11000	4470	12700	18700	14300	8610	14700	17800	7320
22	18300	9440	18300	13000	3080	7840	20700	15300	19800	13300	13600	9470
23	20300	8350	14500	8250	11900	18200	20400	9050	19000	13600	10500	9640
24	18900	15900	7830	4230	12900	17900	21400	8200	20100	15300	16000	10000
25	7800	14700	8610	2980	13200	18800	10600	7480	19900	11700	18400	8980
26	7990	18000	11600	8170	13000	19600	10500	18200	21900	8790	17500	6070
27	18900	5880	6400	9210	14100	22200	19300	16300	9270	12200	18100	5470
28	17500	11200	6580	9750	6160	15200	20300	16900	7490	18900	16300	11000
29	18000	7260	15600	10100	---	9790	19600	14700	20700	16800	12500	9550
30	21500	6830	16900	11300	---	20700	19900	10100	20300	15500	9200	13000
31	24200	---	14700	8710	---	22900	---	9540	---	15000	15800	---
TOTAL	497530	421870	446300	311950	270240	410640	512030	432200	420950	435670	461350	334040
MEAN	16050	14060	14400	10060	9651	13250	17070	13940	14030	14050	14880	11130
MAX	24200	21600	20000	19900	14100	22900	23000	20400	21900	18900	19000	17400
MIN	7800	4750	6400	1800	2580	2790	6150	7480	6700	8790	8600	4300
AC-FT	986900	836800	885200	618800	536000	814500	1016000	857300	835000	864200	915100	662600
CAL YR 1980	TOTAL	5589913	MEAN	15270	MAX	28700	MIN	629	AC-FT	11090000		
WTR YR 1981	TOTAL	4954770	MEAN	13570	MAX	24200	MIN	1800	AC-FT	9828000		

COLORADO RIVER MAIN STEM

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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 current year, monthly. 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 current year, monthly (seasonal).

MICROBIOLOGICAL DATA: November 1974 to current year, monthly.

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 current year, monthly.

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 district office in Tucson, Ariz.

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, and Sept. 19, 1981.

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, 6 mg/L Mar. 7, 1978; minimum, <1 mg/L on several days in 1976, Oct. 16, 1979, several days in 1980, and Sept. 16, 1981.

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

SPECIFIC CONDUCTANCES: Maximum, 1,150 micromhos Nov. 4; minimum, 1,000 micromhos Sept. 19.

WATER TEMPERATURES: Maximum, 13.5°C on several days in April, May, June, Aug., and Sept.; minimum, 11.0°C on several days in Nov., Dec., and Aug.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)
OCT												
07...	0800	21800	1120	7.7	13.0	.20	7.8	<1	<1	330	82	30
NOV												
04...	0830	21800	1150	7.9	13.0	.20	6.9	<1	<1	320	82	28
DEC												
09...	0800	20600	1100	7.8	12.0	.50	7.4	K6	<1	340	86	30
JAN												
13...	0800	18100	1100	7.6	12.5	.50	6.7	--	--	320	82	29
FEB												
18...	0800	22200	1100	7.8	13.0	.50	7.2	K4	<1	330	83	29
MAR												
17...	0820	15400	1080	7.9	12.5	.50	7.9	K5	<1	320	82	29
APR												
09...	0800	25400	1100	7.6	12.5	.80	7.0	<1	<1	320	80	29
MAY												
13...	0730	19600	1050	8.2	13.0	.10	6.4	<1	<1	320	81	29
JUN												
10...	0800	9220	1120	7.6	13.5	.50	7.3	K1	K1	330	84	29
JUL												
15...	0730	13600	1090	7.8	14.0	.40	7.9	K1	K1	320	80	29
AUG												
12...	0800	18900	1100	7.9	13.5	.40	7.6	K1	K1	320	82	29
SEP												
16...	0830	13300	1060	7.5	13.5	.60	7.1	K8	K1	320	80	28

K: NON-IDEAL COLONY COUNT.

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	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 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT												
07...	100	2.4	5.4	300	95	.3	8.5	739	701	43500	.39	.37
NOV												
04...	100	2.4	5.0	300	92	.3	8.5	723	696	42600	.38	.34
DEC												
09...	110	2.6	6.9	310	93	.4	8.1	729	718	58900	.38	.38
JAN												
13...	100	2.4	4.7	270	100	.4	8.4	716	681	35000	.44	.47
FEB												
18...	100	2.4	4.6	300	87	.3	8.6	712	686	42700	.37	.29
MAR												
17...	110	2.7	4.4	290	87	.3	8.6	707	685	29400	.35	.35
APR												
09...	100	2.4	4.1	270	85	.3	8.7	699	657	47900	.36	.40
MAY												
13...	100	2.4	4.4	290	88	.3	8.8	700	682	37000	.41	.42
JUN												
10...	100	2.4	4.5	280	84	.3	8.7	722	671	18000	.41	.57
JUL												
15...	99	2.4	4.4	290	90	.3	9.2	708	676	26000	.40	.40
AUG												
12...	97	2.5	5.3	270	90	.3	8.9	699	662	35700	.32	.31
SEP												
16...	95	2.5	4.9	290	85	.3	8.9	702	672	25200	.32	.32

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT											
07...	.000	.000	.71	.69	1.1	1.1	.010	.020	9.0	--	--
NOV											
04...	.030	.050	.28	.38	.69	.77	.040	.020	--	3.5	.1
DEC											
09...	.050	.070	.40	.38	.83	.83	.020	.020	4.7	--	--
JAN											
13...	.060	.060	.35	.56	.85	1.1	.050	.050	4.9	--	--
FEB											
18...	.030	.020	.74	.74	1.1	1.1	.010	.030	--	32	.1
MAR											
17...	.090	.120	.47	.37	.91	.84	.020	.020	4.5	--	--
APR											
09...	.070	.080	.59	.57	1.0	1.1	.030	.040	6.5	--	--
MAY											
13...	.100	.130	.25	.09	.76	.64	.160	.150	--	3.0	.0
JUN											
10...	.070	.180	.68	.52	1.2	1.3	.020	.020	6.8	--	--
JUL											
15...	.070	.090	.63	.61	1.1	1.1	.040	.000	2.9	--	--
AUG											
12...	.150	.170	.62	.45	1.1	.93	.030	.020	--	3.6	.1
SEP											
16...	.130	.170	.59	.59	1.0	1.1	.010	.010	2.4	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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)
NOV 04...	0830	3	3	200	100	<1	<1	<10	<1	2
FEB 18...	0800	3	3	100	100	2	2	<10	<10	<3
MAY 13...	0730	3	3	100	100	<1	<1	10	10	<3
AUG 12...	0800	3	3	200	110	<1	<1	10	10	<3

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 04...	<3	4	3	40	<10	3	3	10	2	<.1
FEB 18...	<3	4	3	80	10	2	<1	10	3	.1
MAY 13...	<3	2	2	20	<10	1	1	10	<1	.1
AUG 12...	<3	4	2	80	<10	2	<1	10	1	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 04...	<.1	5	4	4	3	<1	<1	20	9
FEB 18...	.1	4	1	3	3	<1	<1	70	30
MAY 13...	<.1	1	<1	3	3	<1	<1	20	<3
AUG 12...	<.1	1	1	2	3	<1	<1	70	15

DATE	TIME	SEDI- MENT, DIS- SOLVED (MG/L)	SEDI- MENT, CHARGE, SUS- PENDEED (T/DAY)
OCT 07...	0800	1	59
NOV 04...	0830	0	.00
DEC 09...	0800	1	81
JAN 13...	0800	1	49
FEB 18...	0800	3	180
MAR 17...	0820	1	42
APR 09...	0800	2	137
MAY 13...	0730	1	53
JUN 10...	0800	2	50
JUL 15...	0730	1	37
AUG 12...	0800	1	51
SEP 16...	0830	0	.00

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAR 17,81	MAY 13,81	JUN 10,81	JUL 15,81	AUG 12,81	SEP 16,81
TIME	0820	0730	0800	0730	0600	0830
TOTAL CELLS/ML	350	1700	510	2900	2800	490
DIVERSITY: DIVISION	0.2	0.1	1.4	0.0	0.4	0.0
..CLASS	0.2	0.1	1.4	0.0	0.4	0.0
..ORDER	0.2	0.2	1.9	0.1	1.3	0.0
...FAMILY	0.2	0.2	1.9	0.1	1.3	0.0
....GENUS	0.2	0.2	2.1	0.1	1.8	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
....NITZSCHIA	--	-	13	1	13	2	--	-	--	-	--	-
...EUPODISCALES												
...COSCINODISCACEAE												
....CYCLOTELLA	13	4	--	-	140#	27	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	39	7	--	-	--	-	--	-
..FRAGILARIALES												
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	--	-	--	-	83	3	--	-
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...MICRACTINIACEAE												
....MICRACTINIUM	--	-	--	-	26	5	--	-	--	-	--	-
CHRYSTOPHYTA												
..CHRYSTOPHYCEAE												
...OCHROMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	--	-	41	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	13	2	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	26	2	51	10	52	2	1100#	39	--	-
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	330#	96	1700#	98	230#	45	2800#	98	650#	23	490#	100
....PHORMIDIUM	--	-	--	-	--	-	--	-	890#	32	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	---	---	12.5	12.0	13.0	12.5	12.5	12.0
2			---	---	---	---	12.5	12.0	13.0	12.5	12.0	11.5
3			---	---	---	---	12.5	12.0	13.0	12.5	12.0	11.5
4			12.5	12.0	---	---	13.0	12.5	13.0	12.5	12.5	11.5
5			12.0	12.0	---	---	13.0	12.5	13.0	12.0	12.0	11.5
6			12.0	12.0	---	---	13.0	12.5	13.0	12.5	12.0	12.0
7			12.0	11.5	---	---	13.0	12.5	13.0	12.5	12.0	11.5
8			12.0	11.5	---	---	13.0	12.5	12.5	12.0	12.0	12.0
9			12.5	11.5	---	---	13.0	12.5	12.5	12.0	12.5	12.0
10			12.5	11.5	---	---	13.0	12.5	12.5	12.0	12.5	12.0
11			12.0	11.5	---	---	12.5	12.5	13.0	12.5	12.5	11.5
12			12.0	11.5	11.5	11.0	13.0	12.5	12.5	12.5	12.0	11.5
13			12.0	11.0	11.5	11.0	13.0	12.5	12.5	12.5	12.5	12.0
14			12.5	11.0	12.5	11.0	13.0	12.5	12.5	12.5	12.5	12.0
15			---	---	12.0	11.0	13.0	12.5	12.5	12.5	12.0	12.0
16			---	---	12.5	11.5	13.0	12.5	12.5	12.5	12.5	12.0
17			---	---	12.0	11.5	13.0	12.5	12.5	12.5	12.5	12.0
18			---	---	12.0	11.5	13.0	12.5	13.0	12.0	12.0	11.5
19			---	---	11.5	11.5	13.0	12.5	12.5	12.0	12.0	11.5
20			---	---	12.0	11.5	13.0	12.5	13.0	12.0	12.0	11.5
21			---	---	12.0	11.5	13.0	12.5	13.0	12.5	12.5	11.5
22			---	---	12.0	11.5	13.0	12.5	12.5	12.0	12.5	11.5
23			---	---	12.0	11.5	13.0	12.5	12.5	12.0	12.5	11.5
24			---	---	12.0	11.5	12.5	12.5	12.5	12.0	12.0	11.5
25			---	---	12.0	11.5	13.0	12.5	12.5	12.0	12.0	11.5
26			---	---	12.0	11.5	13.0	12.5	12.5	12.0	12.0	11.5
27			---	---	12.5	12.0	13.0	12.5	12.5	12.0	12.0	11.5
28			---	---	12.5	12.0	13.0	12.5	12.5	12.0	12.0	11.5
29			---	---	12.5	12.0	12.5	12.0	---	---	12.0	11.5
30			---	---	12.5	12.0	13.0	12.0	---	---	12.0	11.5
31			---	---	12.5	12.0	13.0	12.5	---	---	12.0	11.5
MONTH			12.5	11.0	12.5	11.0	13.0	12.0	13.0	12.0	12.5	11.5

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

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1			---	---	1130	1120	1120	1100	1100	1090	1090	1090
2			---	---	1130	1120	1120	1110	1100	1090	1090	1080
3			---	---	1120	1110	1120	1110	1100	1090	1090	1090
4			1100	1090	1120	1100	1120	1110	1100	1090	1090	1080
5			1100	1090	1110	1090	1120	1110	1100	1090	1090	1080
6			1100	1090	1120	1090	1120	1110	1100	1090	1080	1070
7			1100	1090	1110	1100	1120	1110	1100	1090	1080	1070
8			1100	1090	1120	1100	1120	1110	1100	1090	1080	1070
9			1090	1080	1130	1110	1120	1110	1100	1090	1090	1070
10			1090	1070	1120	1110	1110	1100	1100	1090	1090	1070
11			1090	1090	1120	1110	1110	1110	1100	1100	1090	1080
12			1090	1080	1120	1110	1120	1100	1110	1100	1080	1060
13			1090	1090	1120	1110	1110	1100	1110	1100	1080	1060
14			1100	1090	1120	1100	1100	1090	1110	1100	1090	1060
15			1090	1080	1120	1100	1100	1100	1110	1100	1080	1060
16			1100	1090	1120	1110	1100	1100	1110	1100	1080	1060
17			1110	1090	1110	1080	1100	1100	1120	1090	1080	1060
18			1120	1110	1110	1030	1100	1070	1110	1100	1090	1070
19			1140	1130	1110	1070	1100	1100	1100	1100	1080	1060
20			1140	1130	1110	1080	1110	1100	1110	1100	1080	1070
21			1140	1130	1110	1090	1110	1100	1110	1100	1080	1070
22			1140	1130	1110	1090	1110	1100	1100	1090	1080	1070
23			1130	1130	1120	1100	1100	1100	1100	1090	1080	1060
24			1130	1130	1120	1110	1100	1090	1100	1080	1090	1060
25			1130	1120	1110	1100	1100	1090	1100	1090	1090	1080
26			1140	1120	1110	1110	1100	1090	1100	1090	1090	1080
27			1130	1120	1110	1100	1100	1100	1100	1090	1090	1080
28			1130	1120	1120	1100	1100	1100	1100	1090	1090	1080
29			1130	1120	1110	1100	1100	1090	---	---	1090	1080
30			1130	1120	1110	1090	1110	1100	---	---	1090	1080
31			---	---	1120	1100	1100	1100	---	---	1100	1080
MONTH			1140	1070	1130	1030	1120	1070	1120	1080	1100	1060

[illegible]

COLORADO RIVER MAIN STEM

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,778,000 acre-ft (2,190 hm³) May 31, elevation 645.88 ft (196.864 m); minimum contents, 1,384,000 acre-ft (1,710 hm³) Aug. 10, elevation 631.00 ft (192.329 m).

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

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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1444000	1497000	1511000	1589000	1696000	1698000	1709000	1731000	1772000	1651000	1452000	1433000
2	1446000	1489000	1519000	1588000	1704000	1720000	1717000	1723000	1767000	1658000	1434000	1438000
3	1453000	1489000	1527000	1584000	1710000	1733000	1730000	1714000	1765000	1655000	1429000	1449000
4	1453000	1489000	1538000	1576000	1712000	1741000	1716000	1720000	1771000	1644000	1421000	1458000
5	1443000	1489000	1544000	1590000	1720000	1752000	1702000	1732000	1771000	1631000	1417000	1448000
6	1443000	1499000	1540000	1596000	1724000	1757000	1704000	1737000	1759000	1631000	1419000	1442000
7	1455000	1514000	1532000	1604000	1712000	1750000	1708000	1740000	1743000	1631000	1416000	1431000
8	1463000	1508000	1540000	1616000	1709000	1740000	1715000	1743000	1737000	1630000	1401000	1442000
9	1468000	1499000	1553000	1624000	1712000	1735000	1724000	1734000	1732000	1631000	1390000	1453000
10	1475000	1506000	1565000	1611000	1725000	1730000	1727000	1726000	1721000	1629000	1390000	1464000
11	1465000	1514000	1578000	1596000	1737000	1728000	1713000	1733000	1709000	1614000	1390000	1475000
12	1455000	1527000	1585000	1601000	1745000	1727000	1696000	1734000	1696000	1601000	1408000	1467000
13	1454000	1537000	1578000	1613000	1752000	1727000	1702000	1744000	1680000	1596000	1423000	1454000
14	1459000	1548000	1571000	1629000	1746000	1715000	1702000	1744000	1666000	1592000	1425000	1455000
15	1466000	1538000	1573000	1644000	1739000	1701000	1702000	1744000	1665000	1585000	1425000	1462000
16	1468000	1519000	1577000	1657000	1732000	1699000	1702000	1734000	1668000	1575000	1417000	1471000
17	1478000	1524000	1584000	1658000	1733000	1699000	1700000	1723000	1670000	1567000	1428000	1475000
18	1466000	1533000	1591000	1648000	1740000	1697000	1687000	1730000	1672000	1552000	1431000	1480000
19	1455000	1541000	1604000	1659000	1748000	1702000	1669000	1744000	1676000	1533000	1435000	1478000
20	1455000	1550000	1601000	1666000	1752000	1704000	1671000	1740000	1664000	1528000	1442000	1465000
21	1463000	1560000	1596000	1674000	1740000	1694000	1682000	1760000	1647000	1527000	1446000	1482000
22	1467000	1553000	1607000	1688000	1726000	1677000	1692000	1764000	1647000	1525000	1440000	1452000
23	1475000	1543000	1612000	1693000	1717000	1679000	1702000	1753000	1644000	1523000	1431000	1457000
24	1479000	1548000	1601000	1691000	1717000	1678000	1710000	1741000	1648000	1519000	1426000	1462000
25	1466000	1545000	1595000	1685000	1714000	1678000	1701000	1732000	1652000	1507000	1431000	1459000
26	1456000	1553000	1592000	1684000	1715000	1682000	1692000	1747000	1658000	1487000	1437000	1452000
27	1463000	1537000	1583000	1686000	1719000	1690000	1698000	1762000	1644000	1474000	1447000	1443000
28	1464000	1530000	1574000	1689000	1706000	1691000	1704000	1771000	1626000	1480000	1446000	1445000
29	1468000	1514000	1580000	1691000	---	1680000	1712000	1777000	1629000	1485000	1442000	1453000
30	1483000	1503000	1589000	1698000	---	1692000	1724000	1773000	1636000	1484000	1430000	1464000
31	1502000	---	1596000	1699000	---	1705000	---	1768000	---	1473000	1434000	---
MAX	1502000	1560000	1612000	1699000	1752000	1757000	1730000	1777000	1772000	1658000	1452000	1482000
MIN	1443000	1489000	1511000	1576000	1696000	1677000	1669000	1714000	1626000	1473000	1390000	1431000
(†)	635.63	635.52	639.18	642.96	643.27	643.18	643.88	645.52	640.70	634.52	632.97	634.14
(‡)	+57000	+1000	+93000	+103000	+7000	-1000	+19000	+44000	-132000	-163000	-39000	+30000

CAL YR 1980 MAX 1765000 MIN 1429000 ± -42000
WTR YR 1981 MAX 1777000 MIN 1390000 ± +19000

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

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 elevations 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.--32 years (water years 1950-81), 12,480 ft³/s (353.4 m³/s), 9,042,000 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. 1949-80: Maximum discharge, 31,200 ft³/s (884 m³/s) Apr. 22, 1952, elevation, 513.91 ft (156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,800 ft³/s (759 m³/s) Aug. 3, elevation, 506.46 ft (154.369 m); minimum daily discharge, 2,730 ft³/s (77.3 m³/s) Jan. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15100	12400	12700	11600	6730	10300	17400	14800	12500	12700	20800	14000
2	15000	12500	15300	11600	7820	4670	16500	14300	12800	13800	18200	17500
3	14600	14400	14200	12800	5760	7520	16100	12600	11500	16900	17900	9950
4	14700	15300	14400	12700	9790	6940	15200	14900	11200	16700	20000	11000
5	14500	15400	14800	12700	8240	8500	14300	11800	13000	17900	18400	11800
6	15600	15400	15600	11400	9810	7330	16300	11800	14600	17200	16500	11600
7	15600	14400	13500	11700	9870	8520	17600	10800	15000	17000	18400	11500
8	15600	13500	13500	10800	8030	8400	16300	13800	15300	16700	18700	10800
9	15000	12400	12500	10600	9460	10700	17100	15500	15600	16300	17200	9220
10	15100	14300	12400	10400	6000	10800	20700	15100	17400	18000	18400	8970
11	15200	14400	12500	9570	7480	10900	20400	15000	18600	18300	16900	8150
12	14300	14300	12700	9530	7050	12800	17700	14900	18000	17800	9640	11500
13	15100	14200	12700	5620	7520	13500	19600	11300	16200	18100	10700	12000
14	15300	14400	11700	2730	6550	13500	19600	14400	16600	19800	16400	11800
15	15200	14500	13700	4200	6540	12400	18800	15600	15300	17000	13700	11600
16	15100	12800	13700	4660	9540	15300	18700	15400	15900	16800	13600	11600
17	14900	14600	13700	6150	9670	16300	18600	15100	16000	18000	13100	11600
18	15200	14600	12600	6620	8120	16300	18300	15100	15700	17300	14600	12200
19	14700	14400	12600	6670	7540	16300	16500	13200	18900	18300	12200	11400
20	16200	14500	12700	7940	9830	16300	16000	10400	19000	17800	14100	10800
21	16100	14600	11600	5560	9910	18800	14000	11500	17500	15300	16200	11700
22	16200	14800	12900	5660	10000	16900	15600	13000	19900	15100	16700	11700
23	16400	13500	12900	5600	15400	17200	14000	14900	20700	14600	15700	7520
24	15500	15300	12900	5190	12600	18200	17200	13600	18900	17500	19500	6930
25	13900	14400	12900	6470	14500	18300	17700	13300	17700	18700	15800	10600
26	14300	14500	12900	8550	12400	18200	14800	11300	18800	20300	15100	10000
27	16400	14500	11900	7770	12600	17200	17800	8730	18800	19200	13400	7590
28	16200	14500	11700	7950	12600	15400	16500	11600	17900	15800	16600	9490
29	15200	15200	12000	8760	---	15200	14600	11200	17800	14100	15300	6100
30	13600	13500	11800	8300	---	15200	14400	12500	14800	15900	15000	6630
31	13400	---	11800	8400	---	16300	---	12100	---	20800	14300	---
TOTAL	469200	427500	402800	258200	261360	414180	508300	409530	491900	529700	493040	317250
MEAN	15140	14250	12990	8329	9334	13360	16940	13210	16400	17090	15900	10580
MAX	16400	15400	15600	12800	15400	18800	20700	15600	20700	20800	20800	17500
MIN	13400	12400	11600	2730	5760	4670	14000	8730	11200	12700	9640	6100
AC-FT	930700	847900	799000	512100	518400	821500	1008000	812300	975700	1051000	977900	629300
CAL YR 1980	TOTAL	5671470	MEAN	15500	MAX	25300	MIN	1980	AC-FT	11250000		
WTR YR 1981	TOTAL	4982960	MEAN	13650	MAX	20800	MIN	2730	AC-FT	9884000		

COLORADO RIVER MAIN STEM

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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 1980 TO SEPTEMBER 1981

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 CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 02...	1230	19600	1130	7.7	19.0	320	78	30	110	2.7	5.3
NOV 03...	1500	19100	1120	7.8	18.0	320	79	30	110	2.7	5.1
DEC 01...	1315	19100	1110	7.9	14.0	350	88	31	120	2.8	4.9
JAN 05...	1300	15300	1240	8.0	10.0	330	82	31	110	2.6	4.7
FEB 02...	1245	5190	1110	7.9	11.0	340	86	30	110	2.6	5.0
MAR 02...	1300	2090	1100	7.9	10.0	340	86	30	110	2.6	4.4
APR 01...	1300	18900	1100	7.8	14.0	330	84	30	110	2.6	4.6
MAY 01...	1430	19300	1090	7.9	12.5	340	85	30	110	2.6	4.7
JUN 02...	1120	18700	1080	8.0	18.0	340	85	30	110	2.6	4.5
JUL 01...	0800	8520	1080	7.5	20.5	330	82	30	110	2.6	4.9
AUG 04...	1400	25200	1090	7.5	19.0	310	78	29	110	2.9	5.0
SEP 01...	1100	19200	1080	7.7	18.0	320	79	29	100	2.7	5.5

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO ₂)	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, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 02...	310	100	.3	8.2	725	715	38400	.10	160	<10
NOV 03...	310	92	.4	8.2	718	714	37000	.22	140	<10
DEC 01...	340	98	.4	8.3	728	770	37500	.22	170	20
JAN 05...	290	87	.4	8.6	722	699	29800	.32	130	<10
FEB 02...	300	94	.4	8.7	690	714	9670	.27	130	10
MAR 02...	320	97	.3	7.2	716	734	4040	.22	120	<10
APR 01...	290	93	.4	7.7	715	693	36500	.27	130	<10
MAY 01...	290	92	.3	8.4	714	706	37200	.25	130	<10
JUN 02...	290	92	.3	8.9	718	700	36300	.28	120	<10
JUL 01...	310	77	.3	9.4	653	698	15000	.51	140	20
AUG 04...	280	100	.3	9.1	717	685	48800	.20	130	<10
SEP 01...	290	88	.3	9.0	712	680	36900	.11	140	<10

THE GREAT BASIN

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, on right bank 2 mi (3.2 km) downstream from North Fork, 4 mi (6.4 km) southwest of Cleveland Ranch headquarters, and 18 mi (29.0 km) east of Ely.

DRAINAGE AREA.--31.8 mi² (82.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), approximately from topographic map. Oct. 1, 1967 to Sept. 30, 1967 crest-stage gage at same site and datum.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--15 years (1915-16, 1960-67, 1977-81), 9.44 ft³/s (0.267 m³/s), 6,840 acre-ft/yr (8.43 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125 ft³/s (3.54 m³/s) June 13, 1967; maximum gage height, 3.86 ft (1.177 m), Jan. 2, 1979 (backwater from ice); minimum discharge, 2.3 ft³/s (0.065 m³/s) Feb. 27, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge 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)
May 3	0900	20	0.57	2.65	0.808
June 2	1900	*23	0.65	2.71	0.826

Minimum daily discharge, 5.8 ft³/s (0.164 m³/s) Feb. 1 (result of freeze up)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	9.2	8.1	6.9	5.8	6.3	6.3	16	22	8.3	6.4	6.4
2	9.8	9.1	8.1	6.9	6.0	6.5	6.5	17	22	8.2	6.4	6.4
3	9.8	9.1	8.1	6.9	6.2	6.4	6.4	19	21	8.2	6.4	6.4
4	9.4	9.0	8.3	7.0	6.0	6.7	6.5	19	19	7.9	6.4	6.4
5	9.4	9.4	8.3	6.9	6.2	6.7	6.5	19	18	7.5	6.4	6.9
6	9.3	9.4	8.1	6.9	6.6	6.7	6.7	18	18	7.4	6.4	7.2
7	9.3	9.4	8.1	6.9	6.4	6.6	6.8	17	18	7.3	6.4	7.2
8	9.4	9.2	7.5	6.8	6.7	6.6	6.7	16	17	7.2	6.4	7.2
9	9.3	9.2	7.3	6.8	7.0	6.6	6.9	15	16	7.2	6.5	7.5
10	9.4	9.2	7.6	6.8	6.8	6.6	7.2	14	16	7.2	6.7	7.1
11	9.3	9.2	7.8	6.7	6.8	6.3	7.2	14	15	7.0	6.6	6.7
12	9.4	10	7.7	7.1	6.6	6.4	7.4	13	14	7.0	6.4	6.7
13	9.5	9.4	7.5	7.1	6.7	6.5	7.4	13	13	6.9	6.8	6.7
14	9.6	9.4	7.5	6.9	6.6	6.4	7.7	13	13	7.2	6.8	6.6
15	9.8	9.4	7.3	6.9	6.6	6.4	8.0	14	12	7.2	6.6	6.6
16	9.5	9.1	7.2	6.9	6.7	6.3	8.2	14	11	7.8	6.5	6.6
17	9.5	9.2	7.2	7.0	6.9	6.3	8.6	13	11	7.8	6.4	6.5
18	9.5	9.4	7.1	6.9	6.8	6.3	11	13	11	7.3	6.7	6.6
19	9.4	9.2	6.9	6.9	6.7	6.3	11	13	10	7.1	6.6	6.5
20	9.3	9.2	6.9	7.0	6.6	6.4	10	14	9.8	7.0	6.5	6.6
21	9.2	9.2	6.9	7.0	6.8	6.3	9.7	14	9.5	6.9	6.5	6.6
22	9.2	9.2	6.9	7.0	6.5	6.4	9.3	13	9.2	6.8	6.4	6.5
23	9.2	8.8	6.8	7.1	6.6	6.4	9.4	13	9.0	6.8	6.4	6.3
24	9.2	8.8	6.7	7.2	6.6	6.3	10	13	8.8	6.8	6.4	6.4
25	9.2	8.6	6.9	7.1	6.3	6.3	12	14	8.6	6.7	6.3	6.4
26	9.4	8.5	7.1	7.0	6.4	6.4	13	17	8.7	6.7	6.4	6.5
27	9.5	8.5	7.2	6.8	6.3	6.3	13	19	8.8	6.6	6.5	6.4
28	9.4	8.6	7.1	6.9	6.3	6.4	12	21	8.8	6.6	6.5	6.4
29	9.3	8.2	6.9	7.0	---	6.4	13	21	8.6	6.2	6.5	6.4
30	9.2	8.1	6.9	6.7	---	6.4	15	22	8.4	6.5	6.3	6.5
31	9.2	---	6.9	6.3	---	6.3	---	22	---	6.4	6.4	---
TOTAL	291.7	272.2	228.9	214.3	182.5	199.2	269.4	493	395.2	221.7	200.9	199.2
MEAN	9.41	9.07	7.38	6.91	6.52	6.43	8.98	15.9	13.2	7.15	6.48	6.64
MAX	9.8	10	8.3	7.2	7.0	6.7	15	22	22	8.3	6.8	7.5
MIN	9.2	8.1	6.7	6.3	5.8	6.3	6.3	13	8.4	6.2	6.3	6.3
AC-FT	579	540	454	425	362	395	534	978	784	440	398	395

CAL YR 1980	TOTAL	5275.8	MEAN	14.4	MAX	62	MIN	5.2	AC-FT	10460
WTR YR 1981	TOTAL	3168.2	MEAN	8.68	MAX	22	MIN	5.8	AC-FT	6280

RUBY VALLEY

81

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 winter months, 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.--17 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.--Maximum discharge 42 ft³/s (1.19 m³/s) May 1, gage height 1.95 ft (0.594 m), no peak above base of 60 ft³/s (1.70 m³/s); minimum daily 0.03 m³/s (0.0008 m³/s) Aug. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.2	1.6	1.7	1.4	2.0	2.5	25	16	3.4	.18	.20
2	2.1	2.1	1.6	1.7	1.3	2.0	2.7	22	15	3.4	.12	.18
3	2.3	2.2	1.6	1.8	1.3	2.0	2.3	16	14	3.4	.09	.20
4	2.6	2.0	1.5	1.9	1.4	2.0	2.3	13	13	2.8	.06	.20
5	2.5	2.0	1.5	2.0	1.4	2.1	2.7	12	14	2.6	.09	.15
6	2.3	2.0	1.5	2.1	1.5	2.0	3.1	9.7	15	2.3	.06	.24
7	2.3	1.9	1.4	2.2	1.5	2.0	2.7	8.3	13	2.2	.06	.39
8	2.6	1.9	1.4	2.3	1.5	1.9	2.8	7.2	15	2.1	.03	.67
9	2.8	1.9	1.4	2.4	1.5	1.9	3.3	6.9	13	1.8	.03	.66
10	2.8	1.8	1.4	2.4	1.5	1.9	3.8	7.6	9.6	1.7	.10	.50
11	3.3	1.8	1.4	2.4	1.6	2.0	3.8	7.5	8.1	1.5	.24	.37
12	3.3	1.7	1.4	2.5	1.6	2.0	3.6	7.0	7.0	1.4	.20	.24
13	3.3	1.7	1.4	2.5	1.5	2.0	3.8	7.3	6.7	1.2	.15	.28
14	3.3	1.6	1.4	2.4	1.6	2.0	4.3	7.8	5.9	1.2	.20	.28
15	2.9	1.6	1.4	2.4	2.4	1.9	5.1	8.5	5.7	1.0	.18	.20
16	2.8	1.6	1.4	2.0	2.0	2.0	5.5	7.5	5.5	.88	.12	.18
17	2.6	1.6	1.4	1.7	3.3	1.6	5.9	6.9	5.0	.95	.09	.15
18	2.5	1.6	1.4	1.6	2.8	2.4	6.5	6.9	4.6	.72	.12	.18
19	2.3	1.6	1.5	1.6	2.8	1.8	6.6	7.4	4.8	.61	.34	.18
20	2.5	1.6	1.5	1.7	2.6	1.6	6.0	8.0	4.8	.61	.40	.18
21	2.8	1.6	1.5	1.9	7.1	2.3	5.2	9.5	4.4	.45	.20	.20
22	2.6	1.6	1.5	1.8	6.9	2.1	4.9	9.5	4.2	.48	.15	.24
23	2.5	1.6	1.5	1.6	2.7	2.2	6.3	10	4.4	.36	.12	.28
24	2.5	1.6	1.6	1.5	2.4	2.2	10	12	5.5	.36	.15	.24
25	2.4	1.6	1.6	1.9	2.3	2.5	13	26	4.8	.36	.12	.36
26	2.3	1.6	1.6	3.7	2.2	2.4	12	28	4.6	.32	.18	.43
27	2.2	1.6	1.6	1.7	2.1	2.1	9.4	19	4.2	.32	.24	.41
28	2.1	1.6	1.6	1.5	2.1	2.5	10	18	3.6	.32	.18	.35
29	2.1	1.6	1.6	1.5	---	2.7	17	18	3.4	.18	.20	.37
30	2.2	1.6	1.7	1.4	---	2.5	21	17	3.4	.15	.09	.46
31	2.2	---	1.7	1.4	---	2.3	---	17	---	.18	.09	---
TOTAL	78.7	52.4	46.6	61.2	64.3	64.9	188.1	386.5	238.2	39.25	4.58	8.97
MEAN	2.54	1.75	1.50	1.97	2.30	2.09	6.27	12.5	7.94	1.27	.15	.30
MAX	3.3	2.2	1.7	3.7	7.1	2.7	21	28	16	3.4	.40	.67
MIN	1.7	1.6	1.4	1.4	1.3	1.6	2.3	6.9	3.4	.15	.03	.15
AC-FT	156	104	92	121	128	129	373	767	472	78	9.1	18

CAL YR 1980 TOTAL 5371.80 MEAN 14.7 MAX 90 MIN 1.4 AC-FT 10650
WTR YR 1981 TOTAL 1233.70 MEAN 3.38 MAX 28 MIN .03 AC-FT 2450

RUBY VALLEY

10244745 OVERLAND CREEK NEAR RUBY VALLEY, NV

LOCATION.--Lat 40°27'30", long 115°23'30", in SE¼SE¼ sec.23, T.30 N., R.58 E., Elko County, Hydrologic Unit 16060007, on left bank at mouth of canyon, 0.1 mi (0.2 km) upstream from Humboldt National Forest boundary, 2.2 mi (3.6 km) north of Ruby Valley Post Office, and 32 mi (51 km) southeast of Elko.

DRAINAGE AREA.--9 mi² (23 km²).

PERIOD OF RECORD.--April to November 1917, March to June 1918, September 1918 (fragmentary), August 1959 to September 1967, October 1967 to September 1976 (operated as a partial-record site), October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,970 m), from topographic map. Prior to Aug. 23, 1959, at site about 0.1 mi (0.2 km) downstream at different datum.

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

AVERAGE DISCHARGE.--13 years (1959-67, 1977-81), 11.3 ft³/s (0.320 m³/s), 8,190 acre-ft/yr (10.1 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152 ft³/s (4.30 m³/s) June 11, 1962, gage height, 2.23 ft (0.680 m); maximum gage height, 3.31 ft (1.009 m) Jan. 13, 1963 (backwater from ice); minimum discharge, 0.4 ft³/s (0.011 m³/s) Dec. 25, 1962, but may have been less during periods of ice effects.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/s (1.02 m³/s) May 1, gage height 1.43 ft (0.436 m); no peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 0.56 ft³/s (0.016 m³/s) Aug. 30, Sept. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.7	1.3	1.5	1.1	1.5	2.3	29	32	8.1	1.4	.58
2	1.6	1.7	1.4	1.4	1.1	1.5	2.4	29	32	7.7	1.3	.66
3	1.5	1.6	1.4	1.3	1.1	1.5	2.3	25	29	7.1	1.2	.63
4	1.5	1.6	1.4	1.3	1.1	1.5	2.3	23	28	6.2	1.2	.62
5	1.5	1.6	1.4	1.3	1.1	1.6	2.3	21	29	5.9	1.2	.62
6	1.5	1.6	1.2	1.3	1.1	1.6	2.6	19	30	5.6	1.2	.71
7	1.6	1.6	1.1	1.2	1.1	1.6	2.6	17	30	5.3	1.2	.81
8	1.6	1.6	1.1	1.2	1.1	1.6	2.6	16	33	5.3	1.1	1.8
9	1.6	1.6	1.1	1.3	1.2	1.6	2.8	15	33	4.8	.99	1.1
10	1.7	1.6	1.1	1.3	1.3	1.6	3.1	15	27	4.6	1.1	1.0
11	1.6	1.6	1.2	1.3	1.3	1.6	3.5	15	24	4.1	1.1	.86
12	1.6	1.9	1.2	1.3	1.4	1.6	3.5	15	22	3.9	1.0	.82
13	1.7	1.6	1.2	1.2	1.4	1.7	3.9	15	21	3.5	1.0	.78
14	1.7	1.6	1.1	1.2	1.6	1.7	4.3	16	18	3.7	.97	.73
15	1.8	1.5	1.2	1.2	1.6	1.6	5.6	16	16	3.6	.99	.68
16	1.8	1.4	1.3	1.3	1.7	1.7	6.9	15	15	3.4	.88	.65
17	1.8	1.3	1.4	1.3	2.5	1.7	7.8	14	14	3.3	.82	.65
18	1.8	1.2	1.4	1.3	2.3	1.7	8.8	14	13	2.9	.79	.65
19	1.8	1.2	1.4	1.2	2.2	1.7	8.7	14	13	2.7	.96	.61
20	1.8	1.2	1.4	1.2	2.1	1.7	7.5	15	13	2.5	1.2	.56
21	1.7	1.2	1.4	1.2	1.9	2.1	7.2	16	13	2.3	.92	.56
22	1.7	1.2	1.6	1.2	1.8	2.1	7.3	15	13	2.3	.84	.57
23	1.6	1.2	1.4	1.2	1.8	2.1	9.1	15	12	2.2	.77	.58
24	1.7	1.1	1.3	1.2	1.7	2.1	12	16	12	2.1	.73	.58
25	1.7	1.1	2.0	1.2	1.7	2.3	13	26	11	2.0	.66	.80
26	1.7	1.1	1.7	1.2	1.6	2.3	14	32	10	2.0	.65	.72
27	1.7	1.2	1.5	1.2	1.5	2.1	14	32	9.9	2.0	.63	.66
28	1.7	1.2	1.5	1.2	1.5	2.1	15	33	9.1	1.8	.64	.64
29	1.7	1.2	1.4	1.2	---	2.3	18	34	8.8	1.6	.65	.72
30	1.8	1.2	1.4	1.1	---	2.3	23	33	8.4	1.5	.56	.81
31	1.8	---	1.4	1.1	---	2.3	---	32	---	1.5	.61	---
TOTAL	51.9	42.4	41.9	38.6	42.9	56.4	218.4	642	579.2	115.5	29.26	22.16
MEAN	1.67	1.41	1.35	1.25	1.53	1.82	7.28	20.7	19.3	3.73	.94	.74
MAX	1.8	1.9	2.0	1.5	2.5	2.3	23	34	33	8.1	1.4	1.8
MIN	1.5	1.1	1.1	1.1	1.1	1.5	2.3	14	8.4	1.5	.56	.56
AC-FT	103	84	83	77	85	112	433	1270	1150	229	58	44

CAL YR 1980 TOTAL 6147.30 MEAN 16.8 MAX 98 MIN 1.1 AC-FT 12190
WTR YR 1981 TOTAL 1880.62 MEAN 5.15 MAX 34 MIN .56 AC-FT 3730

STEPTOE AND COSHUTE VALLEYS

83

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

LOCATION.--Lat 39°12'05", long 114°41'15", in SW1SW1 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.--15 years, 6.98 ft³/s (0.198 m³/s) 5,060 acre-ft/yr (6.24 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, 12 ft³/s (0.34 m³/s) June 2, gage height, 2.08 ft (0.634 m); minimum daily, 4.1 ft³/s (0.11 m³/s) Jan. 25, 26, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	6.7	5.8	4.9	4.3	4.4	4.9	7.1	12	9.4	6.5	4.8
2	7.0	6.4	5.8	4.9	4.3	4.5	4.7	7.5	12	9.2	6.5	4.8
3	7.0	6.4	5.8	4.9	4.3	4.5	4.6	7.7	12	9.2	6.4	4.8
4	7.0	6.4	5.9	4.9	4.2	4.4	4.6	7.3	12	9.2	6.4	4.8
5	6.9	6.4	5.5	4.7	4.2	4.5	5.0	7.3	12	9.4	6.3	4.9
6	6.9	6.4	5.6	4.7	4.2	4.5	5.0	7.2	12	9.2	6.0	4.9
7	6.9	6.2	5.7	4.7	4.2	4.4	5.0	6.9	12	8.9	5.9	4.9
8	6.8	6.2	5.6	4.7	4.3	4.4	5.0	6.6	12	8.9	5.9	4.8
9	6.8	6.0	6.0	4.7	4.2	4.5	5.0	6.4	12	8.7	5.9	5.0
10	6.8	6.0	6.4	4.9	4.2	4.5	5.1	6.4	12	8.4	6.0	4.7
11	6.7	6.0	6.2	4.7	4.4	4.6	5.1	6.5	12	8.4	5.9	4.6
12	6.7	6.2	5.9	4.7	4.4	4.5	5.0	6.0	12	8.2	5.9	4.6
13	7.1	6.2	5.7	4.7	4.4	4.5	5.0	6.2	12	8.0	6.0	4.6
14	7.1	6.0	5.6	4.7	4.4	4.5	5.2	6.7	12	7.7	5.9	4.5
15	7.1	6.0	5.6	4.7	4.4	4.6	5.1	7.1	11	7.7	5.9	4.5
16	7.1	6.0	5.6	4.7	4.4	4.6	5.1	6.9	11	7.3	5.7	4.5
17	7.1	6.0	5.4	4.7	4.4	4.4	5.5	6.5	10	7.3	5.7	4.5
18	7.1	6.0	5.2	4.7	4.4	4.3	5.6	6.3	10	7.3	5.7	4.3
19	7.1	6.0	5.1	4.7	4.4	4.6	5.6	6.6	10	7.3	5.7	4.4
20	7.1	6.0	5.1	4.7	4.4	4.7	5.5	6.7	10	7.3	5.6	4.4
21	7.1	5.8	5.1	4.4	4.2	4.3	5.2	6.7	10	7.1	5.5	4.4
22	7.2	5.8	5.1	4.3	4.4	4.6	5.1	6.7	10	7.1	5.5	4.3
23	6.9	5.8	5.1	4.2	4.4	4.6	5.2	6.8	10	6.9	5.4	4.2
24	6.9	5.8	5.0	4.2	4.4	4.5	5.9	7.1	10	6.9	5.2	4.2
25	6.9	5.6	5.1	4.1	4.4	4.7	6.7	7.3	9.8	6.8	5.2	4.2
26	7.0	5.8	5.0	4.1	4.4	4.7	7.1	8.5	9.8	6.8	5.2	4.1
27	7.0	5.8	4.9	4.4	4.3	4.7	6.5	10	9.6	6.7	5.3	4.2
28	6.7	5.8	4.9	4.4	4.4	4.8	6.2	11	9.4	6.7	5.2	4.4
29	6.7	5.8	4.9	4.3	---	4.9	6.6	11	9.4	6.6	5.2	4.4
30	6.7	6.0	4.9	4.2	---	4.8	7.0	12	9.6	6.6	5.1	4.5
31	6.7	---	4.9	4.3	---	4.5	---	12	---	6.5	5.1	---
TOTAL	215.1	181.5	168.4	141.9	121.3	141.0	163.1	235.0	327.6	241.7	177.7	136.2
MEAN	6.94	6.05	5.43	4.58	4.33	4.55	5.44	7.58	10.9	7.80	5.73	4.54
MAX	7.2	6.7	6.4	4.9	4.4	4.9	7.1	12	12	9.4	6.5	5.0
MIN	6.7	5.6	4.9	4.1	4.2	4.3	4.6	6.0	9.4	6.5	5.1	4.1
AC-FT	427	360	334	281	241	280	324	466	650	479	352	270
CAL YR 1980	TOTAL	3434.0	MEAN	9.38	MAX	28	MIN	3.1	AC-FT	6810		
WTR YR 1981	TOTAL	2250.5	MEAN	6.17	MAX	12	MIN	4.1	AC-FT	4460		

STEPTOE AND GOSHUTE VALLEYS

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: March 1968 to 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 current year, 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 since October 1966.

REMARKS.--Periods of no record for temperature from October 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, and Nov. 28, 1979.

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

WATER TEMPERATURES: Maximum, 10.5°C Apr. 23; minimum, 3.5°C Mar. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT											
21...	1430	7.3	317	8.6	8.0	--	9.0	--	<3	10	170
NOV											
20...	1405	5.8	329	8.6	5.5	.20	9.5	97	<1	K8	160
DEC											
17...	1205	5.2	315	8.6	5.5	.30	9.4	98	<1	K6	170
JAN											
21...	0845	4.2	--	8.6	4.5	.25	--	--	K1	K1	180
MAR											
19...	0945	4.5	315	8.7	5.0	.80	9.5	98	<1	K2	180
APR											
22...	1245	5.0	310	8.4	10.0	2.0	--	--	<2	<2	180
MAY											
13...	1515	6.5	305	8.4	9.0	.40	9.2	103	<1	<1	170
JUN											
17...	1230	11	284	--	8.0	.60	9.3	102	<1	K1	160
JUL											
21...	1730	6.9	290	8.8	9.0	--	9.0	102	K4	K20	160
AUG											
19...	0930	5.7	311	8.7	8.0	.60	9.2	100	100	330	180
SEP											
22...	1300	4.3	313	8.5	9.0	.80	8.9	100	K7	200	170

K: NON-IDEAL COLONY COUNT.

STEPTOE AND GOSHUTE VALLEYS

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10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 21...	51	10	2.1	.1	.6	--	--	164	10	2.6
NOV 20...	48	10	1.6	.1	.5	200	5	180	10	1.8
DEC 17...	51	9.9	1.8	.1	.5	200	8	180	9.5	1.0
JAN 21...	54	11	1.5	.0	.4	210	5	180	7.4	.9
MAR 19...	54	11	2.1	.1	.5	200	8	180	10	.9
APR 22...	54	10	2.2	.1	.6	220	5	190	5.2	1.1
MAY 13...	52	9.0	2.2	.1	.5	--	--	160	9.3	1.0
JUN 17...	51	7.7	1.6	.1	.5	--	--	--	7.5	.9
JUL 21...	49	10	2.0	.1	.5	190	10	170	3.0	1.0
AUG 19...	55	10	1.7	.1	.6	210	14	170	7.0	.7
SEP 22...	51	10	1.6	.1	.5	200	6	170	5.0	1.0

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE 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)
OCT 21...	.1	7.4	--	183	--	.13	.000	.11	.010	.010
NOV 20...	.1	6.8	180	176	2.8	.20	.000	.20	.040	.050
DEC 17...	.0	6.8	--	178	--	.22	.010	.22	.020	.020
JAN 21...	.1	6.8	173	179	2.0	.17	.000	.14	.060	.030
MAR 19...	.1	6.8	--	182	--	.15	.000	.13	.050	.000
APR 22...	.1	7.4	--	171	--	.12	.000	.14	.030	.050
MAY 13...	.1	6.8	173	178	3.0	.16	.000	.12	.120	.080
JUN 17...	.1	6.6	160	167	4.8	.12	.000	.13	.070	.050
JUL 21...	.1	7.1	170	177	3.2	.11	.020	.14	.100	.090
AUG 19...	.1	7.0	178	185	2.7	.21	.020	--	.140	--
SEP 22...	.1	6.9	--	182	--	--	<.020	.20	.160	.130

STEPTOE AND GOSHUTE VALLEYS

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (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)	
	DATE											
	OCT 21...	.71	.39	.85	.51	.020	.010	.000	1.5	--	--	
	NOV 20...	.39	--	.63	--	.010	.020	.010	7.5	--	--	
	DEC 17...	.30	.30	.55	.54	.040	.040	.010	--	3.1	.3	
	JAN 21...	.39	--	.62	--	.010	.030	.010	5.6	--	--	
	MAR 19...	.29	.26	.49	.39	.020	.020	.000	--	1.5	.3	
	APR 22...	--	.36	--	.55	.030	.010	.010	4.3	--	--	
	MAY 13...	.41	.37	.69	.57	.040	.040	.000	--	--	--	
	JUN 17...	.49	.38	.68	.56	.010	.010	.010	3.3	--	--	
	JUL 21...	.32	.26	.55	.49	.040	<.010	--	1.5	--	--	
	AUG 19...	.27	--	.64	--	<.010	<.010	.000	--	.7	.2	
	SEP 22...	--	.17	--	.50	.010	.010	.020	3.1	--	--	
		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, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
DATE	TIME											
DEC 17...	1205	2	2	--	50	--	--	1	10	0	2	<3
MAR 19...	0945	2	2	100	50	--	0	<1	10	0	0	<3
MAY 13...	1515	--	3	100	50	<1	1	<1	0	0	2	<3
AUG 19...	0930	2	2	100	50	<1	0	<1	10	0	0	<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)
DEC 17...		2	0	30	<10	4	0	--	0	<1	.1	.0
MAR 19...		1	0	50	<10	1	0	--	10	<1	.0	.0
MAY 13...		4	<10	100	16	7	<10	6	10	3	.1	.1
AUG 19...		3	0	90	<10	6	<10	4	0	--	.1	.0
		MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 17...		--	1	0	0	0	0	0	--	--	20	<3
MAR 19...		--	0	0	0	0	0	0	--	--	10	3
MAY 13...		<10	16	1	0	0	0	0	81	<6.0	10	10
AUG 19...		<10	3	0	0	0	1	0	83	<6.0	--	36

STEPTOE AND GOSHUTE VALLEYS

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10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)			
DEC 17...		1205	5.4	<.4	4.4	.6	.08	.9		
DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)
DEC 17...	1205	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
DEC 17...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (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 17...	.00	.00	.00	0	.00	.00	.00	.00	.00	
				DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)			
				OCT 21...	1430	4	.08			
				NOV 20...	1405	5	.08			
				DEC 17...	1205	6	.08			
				JAN 21...	0845	8	.09			
				MAR 19...	0945	8	.10			
				APR 22...	1245	16	.22			
				MAY 13...	1515	14	.25			
				JUN 17...	1230	17	.50			
				JUL 21...	1730	5	.09			
				AUG 19...	0930	6	.09			
				SEP 22...	1300	17	.20			

STEPTOE AND GOSHUTE VALLEYS

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 20,80	MAR 19,81	MAY 13,81	JUN 17,81
TIME	1405	0945	1515	1230
TOTAL CELLS/ML	13	26	130	39
DIVERSITY: DIVISION	0.0	0.0	0.0	0.0
..CLASS	0.0	0.0	0.0	0.0
..ORDER	0.0	0.0	0.7	0.9
...FAMILY	0.0	0.0	0.7	0.9
....GENUS	0.0	0.0	0.7	0.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	13#	33
....COCCONEIS	--	-	--	-	--	-	--	-
...BACILLARIALES								
...NITZSCHIACEAE								
...NITZSCHIA	--	-	--	-	--	-	--	-
...FRAGILARIALES								
...FRAGILARIACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...NAVICULALES								
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	13#100		26#100		--	-	26#	67
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	--	-	--	-	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	26#	20	--	-
...OSCILLATORIALES								
...OSCILLARIACEAE								
....OSCILLATORIA	--	-	--	-	100#	80	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 21,81	AUG 19,81	SEP 22,81
TIME	1730	0930	1300
TOTAL CELLS/ML	290	56	250
DIVERSITY: DIVISION	1.0	0.8	1.0
.CLASS	1.0	0.8	1.0
..ORDER	1.4	0.8	1.8
...FAMILY	1.5	0.8	1.8
....GENUS	1.5	0.8	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
.BACILLARIOPHYCEAE						
..ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	28	10	--	-	14	6
....COCCONEIS	--	-	--	-	28	11
..BACILLARIALES						
...NITZSCHIA	14	5	--	-	14	6
...FRAGILARIALES						
...FRAGILARIACEAE						
....DIATOMA	--	-	--	-	14	6
..NAVICULALES						
...CYMBELLACEAE						
....CYMBELLA	14	5	--	-	--	-
...NAVICULACEAE						
....NAVICULA	14	5	42#	75	41#	17
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	14#	25	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	14	5	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	--	-	--	-
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	210#	71	--	-	140#	56

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

YEAR	10.5	3.5
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10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S½NE¼ sec.23, T.18 N., R.56 E., White Pine County, Hydrologic Unit 16060006, on left bank above culvert on U.S. Highway 50, 3.5 mi (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.--No flow since Sept. 8, 1980.

AVERAGE DISCHARGE.--19 years, 0.193 ft³/s (0.0056 m³/s), 140 acre-ft/yr (173,000 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.--No flow for entire year.

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245900 PINE CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°47'40", long 116°51'13", in NW¼SE¼ sec.13, T.16 N., R.45 E., Nye County, Hydrologic Unit 16060005, on right bank, 2.9 mi (4.7 km) west of Pine Creek Ranch, and 7.2 mi (11.6 km) north of Belmont, NV.

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 June 26 to Aug. 31. No 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, 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, 36 ft³/s (1.02 m³/s) May 29, gage height, 2.05 ft (0.625 m); minimum daily 0.80 ft³/s (0.023 m³/s) Dec. 7 (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.3	1.9	1.7	1.0	1.1	1.3	3.6	27	6.4	2.0	1.8
2	1.9	1.3	1.9	1.7	1.0	1.3	1.2	5.3	25	6.4	1.9	1.7
3	1.7	1.1	1.9	1.7	1.0	1.3	1.0	5.3	19	6.2	1.8	1.7
4	1.7	1.6	1.9	1.7	1.1	1.3	1.4	5.3	17	5.8	1.5	1.7
5	1.7	1.3	1.9	1.7	1.1	1.5	1.7	4.9	18	5.6	1.4	1.5
6	1.7	1.4	1.0	1.3	1.1	1.3	2.2	6.8	18	5.4	1.4	1.5
7	1.7	1.1	.80	1.2	1.0	1.3	2.2	7.7	17	5.2	1.4	1.7
8	1.7	1.1	1.2	1.2	1.0	1.3	2.3	7.7	17	5.0	1.4	2.2
9	1.7	1.3	1.9	1.4	1.0	1.5	2.2	7.2	16	5.0	1.4	2.2
10	1.7	1.3	2.2	1.2	1.1	1.5	2.3	7.2	15	4.9	1.6	1.7
11	1.7	1.0	2.4	1.3	1.2	1.5	1.9	6.8	14	4.7	1.5	1.7
12	1.7	1.9	2.4	1.5	1.3	1.5	2.1	6.8	13	4.3	1.4	1.9
13	1.5	1.3	2.2	1.5	1.3	1.3	2.2	7.2	12	4.1	1.4	1.5
14	1.5	1.2	2.2	1.7	1.5	1.3	1.9	8.1	10	4.0	2.0	1.3
15	1.5	1.8	1.9	1.7	1.5	1.5	1.7	8.1	9.0	4.0	2.0	1.1
16	1.5	1.6	1.9	1.7	1.5	1.5	1.9	7.7	9.0	4.1	1.8	.92
17	1.5	1.7	1.9	1.5	1.5	1.1	2.1	7.2	8.1	3.9	1.8	.92
18	1.5	1.7	1.8	1.3	1.5	1.3	2.3	6.4	7.2	3.5	2.1	1.1
19	1.5	2.2	1.9	1.3	1.3	1.5	2.3	6.4	6.4	3.4	2.7	.92
20	1.5	2.1	1.9	1.3	1.1	1.5	2.3	6.4	6.8	3.3	2.0	1.1
21	1.5	1.9	1.9	1.5	1.0	1.1	1.9	6.0	5.6	3.1	2.0	.92
22	1.5	2.0	1.9	1.5	1.0	1.3	1.2	6.0	6.4	2.7	1.8	.92
23	1.5	2.0	2.2	1.3	1.0	1.3	1.2	6.0	5.3	2.6	1.6	.92
24	1.5	1.9	2.2	1.0	1.0	1.3	1.2	5.6	5.5	2.5	1.6	.92
25	1.5	1.7	2.4	1.0	1.0	1.3	1.2	7.2	6.7	2.4	1.6	.92
26	1.3	1.6	2.2	1.5	1.0	1.1	1.3	13	8.0	2.4	1.4	.92
27	1.3	1.6	1.9	1.5	1.1	1.1	1.5	18	8.0	2.4	1.2	.92
28	1.3	1.7	1.7	1.5	1.3	1.0	1.5	28	7.6	2.4	1.2	1.1
29	1.3	2.0	1.7	1.3	---	1.0	1.3	32	7.0	2.2	1.2	.92
30	1.3	2.0	1.7	1.1	---	1.3	1.9	30	6.6	2.1	1.2	1.1
31	1.3	---	1.7	1.1	---	1.5	---	27	---	2.0	1.3	---
TOTAL	48.1	47.7	58.60	43.9	32.5	40.7	52.7	310.9	351.2	122.0	50.6	39.72
MEAN	1.55	1.59	1.89	1.42	1.16	1.31	1.76	10.0	11.7	3.94	1.63	1.32
MAX	1.9	2.2	2.4	1.7	1.5	1.5	2.3	32	27	6.4	2.7	2.2
MIN	1.3	1.0	.80	1.0	1.0	1.0	1.0	3.6	5.3	2.0	1.2	.92
AC-FT	95	95	116	87	64	81	105	617	697	242	100	79
CAL YR 1980	TOTAL	2037.40	MEAN	5.57	MAX	42	MIN	.80	AC-FT	4040		
WTR YR 1981	TOTAL	1198.62	MEAN	3.28	MAX	32	MIN	.80	AC-FT	2380		

10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW¼SW¼ sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 27.4 mi (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.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

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

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft (2,195 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 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 5.8 ft³/s (0.16 m³/s) June 1, gage height, 2.10 ft (0.640 m), minimum daily, 0.41 ft³/s (0.012 m³/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.1	.88	.61	.70	.59	2.0	5.3	3.9	1.2	.66
2	1.1	1.1	1.0	.87	.66	.70	.58	2.1	5.5	3.9	1.2	.62
3	1.1	1.1	1.0	.88	.65	.64	.52	1.9	5.3	3.8	1.2	.65
4	1.1	1.1	1.1	.83	.64	.66	.62	1.8	5.3	3.6	1.1	.60
5	1.1	1.1	1.1	.87	.67	.64	.66	1.8	4.9	3.5	1.1	.60
6	1.0	1.1	1.1	.92	.67	.60	.80	1.8	5.2	3.5	1.0	.59
7	1.0	1.0	1.1	.87	.67	.66	.78	1.9	4.9	3.4	1.0	.62
8	1.0	1.0	1.1	.92	.62	.66	.78	1.8	4.9	3.3	.98	.63
9	1.0	1.0	1.2	.87	.60	.63	.94	1.9	4.4	3.3	.95	.71
10	1.1	1.0	1.0	.83	.58	.62	.97	1.8	4.1	3.2	1.0	.64
11	1.1	1.0	1.0	.83	.49	.62	.91	1.9	4.3	3.1	.98	.59
12	1.1	1.0	1.1	.77	.47	.60	.92	1.9	3.9	2.9	.96	.63
13	1.1	1.0	1.0	.73	.47	.60	1.1	1.9	3.9	2.8	.98	.58
14	1.1	1.0	.97	.71	.45	.60	1.0	2.0	3.8	2.5	1.1	.57
15	1.1	1.0	.97	.70	.45	.66	1.2	2.1	3.9	2.6	1.1	.55
16	1.1	1.0	.92	.71	.50	.59	1.3	2.2	3.8	2.6	.98	.49
17	1.2	1.0	.90	.70	.56	.66	1.4	2.2	3.6	2.6	.94	.47
18	1.3	1.0	.88	.70	.56	.66	1.5	2.3	3.8	1.9	.89	.47
19	1.3	1.0	.88	.72	.59	.56	1.5	2.3	3.9	1.8	1.5	.48
20	1.3	1.1	.90	.70	.55	.55	1.4	2.6	3.6	1.8	1.0	.43
21	1.3	1.1	.87	.66	.66	.66	1.3	2.7	3.6	1.7	.97	.41
22	1.3	1.1	.88	.66	.66	.60	1.4	2.9	3.6	1.6	.94	.42
23	1.2	1.1	.87	.64	.68	.60	1.7	2.7	3.6	1.5	.79	.43
24	1.3	1.1	.97	.66	.68	.62	1.9	2.7	3.8	1.5	.75	.46
25	1.3	1.2	.97	.70	.70	.57	1.9	3.0	4.1	1.4	.78	.44
26	1.3	1.1	.98	.70	.66	.54	1.8	3.3	4.0	1.4	.77	.44
27	1.3	1.1	1.0	.67	.78	.50	1.7	3.8	4.1	1.4	.71	.47
28	1.2	1.2	.99	.66	.74	.54	1.9	3.9	4.1	1.4	.72	.49
29	1.2	1.1	1.0	.66	---	.62	2.0	4.2	4.1	1.3	.70	.51
30	1.2	1.1	.89	.66	---	.62	1.9	4.6	3.9	1.3	.70	.52
31	1.2	---	.88	.65	---	.66	---	5.2	---	1.3	.66	---
TOTAL	36.1	31.9	30.62	23.33	17.02	19.14	36.97	79.2	127.2	75.8	29.65	16.17
MEAN	1.16	1.06	.99	.75	.61	.62	1.23	2.55	4.24	2.45	.96	.54
MAX	1.3	1.2	1.2	.92	.78	.70	2.0	5.2	5.5	3.9	1.5	.71
MIN	1.0	1.0	.87	.64	.45	.50	.52	1.8	3.6	1.3	.66	.41
AC-FT	72	63	61	46	34	38	73	157	252	150	59	32
CAL YR 1980	TOTAL	1040.87	MEAN	2.84	MAX	18	MIN	.39	AC-FT	2060		
WTR YR 1981	TOTAL	523.10	MEAN	1.43	MAX	5.5	MIN	.41	AC-FT	1040		

LOCATION.--Lat 39°08'24", long 116°36'05", in SE1/4 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.

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."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s (0.37 m³/s) May 31, 1979, gage height 1.88 ft (0.573 m); minimum, 0.12 ft³/s (0.003 m³/s) Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2.2 ft³/s (0.062 m³/s) May 20, gage height 0.94 ft (0.286 m); minimum daily 0.10 ft³/s (0.003 m³/s) Sept. 1-5.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.31	.27	.32	.37	.40	.50	1.3	1.5	1.1	.28	.10
2	.20	.31	.27	.33	.38	.40	.54	1.2	1.7	1.1	.26	.10
3	.20	.31	.27	.33	.37	.38	.51	1.3	1.7	1.1	.26	.10
4	.20	.31	.29	.32	.38	.38	.49	1.4	1.7	1.1	.26	.10
5	.19	.31	.28	.32	.38	.40	.53	1.4	1.7	1.1	.26	.10
6	.20	.34	.26	.32	.39	.40	.66	1.4	1.7	1.0	.26	.12
7	.21	.34	.26	.32	.38	.37	1.1	1.4	1.6	.93	.24	.12
8	.20	.34	.25	.32	.39	.37	.97	1.5	1.6	.87	.20	.12
9	.20	.34	.26	.33	.40	.34	1.1	1.4	1.6	.78	.20	.12
10	.20	.34	.26	.36	.37	.34	1.3	1.3	1.6	.77	.20	.12
11	.21	.34	.25	.36	.34	.35	1.1	1.3	1.6	.74	.22	.12
12	.20	.34	.26	.37	.35	.39	1.1	1.3	1.6	.68	.23	.12
13	.21	.34	.26	.37	.35	.40	1.1	1.2	1.6	.65	.20	.12
14	.24	.37	.26	.37	.36	.39	1.2	1.3	1.7	.63	.20	.12
15	.24	.37	.27	.37	.35	.38	1.2	1.4	1.6	.59	.18	.12
16	.23	.37	.27	.37	.33	.40	1.4	1.5	1.7	.55	.18	.12
17	.24	.33	.28	.36	.35	.41	1.5	1.5	1.7	.49	.18	.14
18	.24	.24	.27	.36	.37	.38	1.7	1.7	1.7	.46	.16	.14
19	.23	.24	.30	.37	.37	.40	1.7	1.7	1.5	.45	.16	.14
20	.23	.24	.31	.37	.37	.40	1.5	1.9	1.4	.44	.16	.14
21	.25	.24	.30	.37	.37	.36	1.4	2.2	1.3	.44	.16	.14
22	.26	.24	.30	.38	.38	.39	1.3	2.0	1.3	.43	.16	.14
23	.26	.25	.29	.37	.38	.40	1.3	1.8	1.4	.37	.16	.14
24	.27	.23	.30	.38	.40	.43	1.3	1.7	1.2	.37	.14	.14
25	.24	.22	.31	.37	.40	.44	1.3	1.7	1.2	.37	.14	.14
26	.25	.22	.31	.36	.37	.44	1.3	2.0	1.2	.37	.14	.14
27	.24	.23	.31	.38	.37	.43	1.4	2.0	1.2	.34	.14	.14
28	.25	.26	.31	.40	.38	.45	1.4	2.2	1.2	.31	.14	.14
29	.31	.26	.31	.39	---	.47	1.4	1.7	1.1	.30	.12	.16
30	.31	.27	.31	.37	---	.48	1.3	1.5	1.1	.28	.12	.14
31	.31	---	.32	.37	---	.44	---	1.6	---	.28	.11	---
TOTAL	7.20	8.85	8.77	11.08	10.40	12.41	34.60	48.8	44.7	19.39	5.82	3.80
MEAN	.23	.30	.28	.36	.37	.40	1.15	1.57	1.49	.63	.19	.13
MAX	.31	.37	.32	.40	.40	.48	1.7	2.2	1.7	1.1	.28	.16
MIN	.18	.22	.25	.32	.33	.34	.49	1.2	1.1	.28	.11	.10
AC-FT	14	18	17	22	21	25	69	97	89	38	12	7.5
CAL YR 1980	TOTAL	243.94	MEAN	.67	MAX	2.3	MIN	.12	AC-FT	484		
WTR YR 1981	TOTAL	215.82	MEAN	.59	MAX	2.2	MIN	.10	AC-FT	428		

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--Lat 38°50'50", long 115°22'00", in NE¼NW¼ sec.5, T.11 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank 0.2 mi (0.3 km) upstream from reservoir diversion, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) northeast of Currant.

DRAINAGE AREA.--12.9 mi² (33.4 km²).

PERIOD OF RECORD.--October 1964 to September 1981 (discontinued).

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

REMARKS.--Records good except those for winter months, which are fair. 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.--17 years, 3.54 ft³/s (0.100 m³/s), 2,560 acre-ft/yr (3.16 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft³/s (10.4 m³/s) Dec. 6, 1966, gage height, 4.1 ft (1.25 m), from floodmarks, from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s (0.40 m³/s) May 29, gage height, 1.59 ft (0.485 m); minimum daily, 0.53 ft³/s (0.015 m³/s) Sept. 20, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.5	1.4	1.1	.73	.99	1.4	10	12	3.4	1.1	.71
2	1.9	1.5	1.4	1.1	.72	1.0	1.5	12	12	3.3	1.1	.62
3	1.9	1.5	1.4	1.1	.75	1.0	1.6	12	11	3.2	1.1	.61
4	1.9	1.5	1.5	1.0	.76	.94	1.8	11	11	3.0	1.1	.61
5	1.9	1.5	1.4	.99	.76	.99	1.9	11	11	2.9	1.0	.78
6	1.9	1.5	1.1	.99	.77	.99	2.2	10	10	2.6	1.0	.79
7	1.9	1.5	1.1	.99	.82	.99	2.4	9.3	10	2.5	.99	.77
8	1.8	1.5	1.2	.99	.83	.98	2.6	8.7	9.6	2.4	.98	.80
9	1.8	1.5	1.3	.97	.82	1.1	2.9	8.2	9.2	2.3	.98	.81
10	1.8	1.5	1.4	.99	.82	1.1	3.3	8.0	8.8	2.2	1.0	.71
11	1.8	1.5	1.5	.98	.82	1.1	3.5	7.5	8.4	2.1	1.0	.69
12	1.8	1.6	1.5	.97	.82	1.1	3.7	7.2	8.2	2.0	1.0	.67
13	1.8	1.5	1.4	.91	.82	1.1	4.0	6.9	8.0	1.9	.96	.67
14	1.8	1.4	1.4	.91	.82	1.0	4.2	6.9	7.7	1.9	.98	.64
15	1.8	1.5	1.4	.92	.82	1.0	4.4	7.0	7.1	1.8	.99	.64
16	1.8	1.4	1.4	.85	.82	1.0	4.7	6.8	6.6	1.8	.96	.63
17	1.8	1.4	1.4	.82	.85	1.0	5.0	6.8	6.3	1.9	.93	.63
18	1.8	1.5	1.4	.84	.86	1.0	7.8	6.8	6.0	1.6	.91	.56
19	1.8	1.6	1.4	.82	.99	1.1	7.6	6.5	5.9	1.5	.91	.54
20	1.7	1.5	1.4	.83	1.0	1.0	7.4	6.5	5.7	1.5	.87	.53
21	1.6	1.5	1.4	.83	.94	1.0	7.4	6.4	5.7	1.5	.85	.55
22	1.6	1.5	1.3	.82	1.0	1.2	7.1	6.3	5.5	1.4	.84	.54
23	1.6	1.5	1.3	.82	1.1	1.2	7.1	6.1	5.4	1.4	.82	.55
24	1.6	1.5	1.2	.82	1.1	1.2	7.1	6.1	4.8	1.4	.79	.54
25	1.6	1.4	1.2	.60	1.1	1.3	8.3	6.2	4.6	1.4	.70	.55
26	1.6	1.5	1.2	.61	1.1	1.4	9.8	11	4.3	1.3	.70	.53
27	1.6	1.5	1.2	.64	.97	1.3	9.5	12	4.1	1.3	.79	.57
28	1.6	1.5	1.2	.72	1.0	1.4	9.3	13	3.9	1.3	.77	.55
28	1.6	1.5	1.2	.72	1.0	1.4	9.3	13	3.9	1.3	.77	.55
29	1.6	1.5	1.2	.79	---	1.4	8.6	13	3.8	1.2	.76	.55
30	1.5	1.5	1.2	.81	---	1.4	8.6	13	3.6	1.1	.70	.57
31	1.5	---	1.2	.82	---	1.5	---	13	---	1.1	.71	---
TOTAL	54.0	44.8	41.0	27.35	24.71	34.78	156.7	275.2	220.2	60.2	28.29	18.91
MEAN	1.74	1.49	1.32	.88	.88	1.12	5.22	8.88	7.34	1.94	.91	.63
MAX	1.9	1.6	1.5	1.1	1.1	1.5	9.8	13	12	3.4	1.1	.81
MIN	1.5	1.4	1.1	.60	.72	.94	1.4	6.1	3.6	1.1	.70	.53
AC-FT	107	89	81	54	49	69	311	546	437	119	56	38

CAL YR 1980 TOTAL 2641.54 MEAN 7.22 MAX 40 MIN .56 AC-FT 5240
WTR YR 1981 TOTAL 986.14 MEAN 2.70 MAX 13 MIN .53 AC-FT 1960

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.

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 1.3 ft³/s (0.037 m³/s) Apr. 20, gage height 1.50 ft (0.457 m); no flow Oct. 1-13, July 8 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.14	.16	.21	.07	.25	.53	.45	.35	.03	.00	.00
2	.00	.13	.20	.17	.09	.23	.49	.42	.32	.04	.00	.00
3	.00	.13	.16	.17	.08	.22	.53	.38	.35	.04	.00	.00
4	.00	.13	.18	.14	.08	.23	.62	.35	.32	.02	.00	.00
5	.00	.13	.19	.15	.10	.25	.62	.35	.30	.02	.00	.00
6	.00	.13	.17	.19	.11	.24	.58	.35	.25	.01	.00	.00
7	.00	.13	.14	.19	.10	.25	.58	.35	.27	.01	.00	.00
8	.00	.13	.13	.17	.12	.27	.62	.35	.23	.00	.00	.00
9	.00	.13	.15	.16	.09	.29	.62	.32	.21	.00	.00	.00
10	.00	.13	.12	.14	.09	.32	.72	.30	.21	.00	.00	.00
11	.00	.14	.09	.17	.09	.34	.72	.27	.19	.00	.00	.00
12	.00	.14	.10	.20	.10	.37	.53	.27	.19	.00	.00	.00
13	.00	.15	.11	.19	.12	.36	.53	.25	.23	.00	.00	.00
14	.09	.19	.13	.18	.10	.34	.58	.25	.25	.00	.00	.00
15	.10	.17	.14	.17	.09	.38	.58	.25	.25	.00	.00	.00
16	.11	.18	.14	.21	.10	.39	.58	.27	.21	.00	.00	.00
17	.17	.16	.14	.21	.11	.41	.58	.27	.19	.00	.00	.00
18	.10	.16	.14	.15	.11	.42	.53	.27	.17	.00	.00	.00
19	.10	.17	.14	.21	.13	.45	.72	.30	.13	.00	.00	.00
20	.09	.18	.13	.15	.21	.44	1.1	.38	.13	.00	.00	.00
21	.10	.18	.14	.21	.18	.42	.72	.38	.13	.00	.00	.00
22	.09	.17	.13	.23	.20	.48	.67	.35	.13	.00	.00	.00
23	.10	.14	.14	.23	.22	.53	.53	.35	.10	.00	.00	.00
24	.13	.13	.15	.17	.25	.58	.53	.32	.08	.00	.00	.00
25	.13	.14	.17	.14	.17	.58	.53	.32	.07	.00	.00	.00
26	.13	.19	.17	.21	.20	.58	.53	.49	.06	.00	.00	.00
27	.13	.21	.17	.23	.18	.53	.53	.62	.05	.00	.00	.00
28	.13	.27	.15	.21	.21	.58	.53	.62	.05	.00	.00	.00
29	.15	.27	.15	.23	---	.62	.49	.49	.04	.00	.00	.00
30	.14	.23	.17	.11	---	.67	.45	.42	.04	.00	.00	.00
31	.13	---	.17	.10	---	.58	---	.38	---	.00	.00	---
TOTAL	2.12	4.88	4.57	5.60	3.70	12.60	17.87	11.14	5.50	.17	.00	.00
MEAN	.068	.16	.15	.18	.13	.41	.60	.36	.18	.005	.000	.000
MAX	.17	.27	.20	.23	.25	.67	1.1	.62	.35	.04	.00	.00
MIN	.00	.13	.09	.10	.07	.22	.45	.25	.04	.00	.00	.00
AC-FT	4.2	9.7	9.1	11	7.3	25	35	22	11	.3	.00	.00
CAL YR 1980	TOTAL	305.73	MEAN .84	MAX 5.5	MIN .00	AC-FT 606						
WTR YR 1981	TOTAL	68.15	MEAN .19	MAX 1.1	MIN .00	AC-FT 135						

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.--15 years, 8.14 ft³/s (0.231 m³/s), 5,900 acre-ft/yr (7.27 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, 7.6 ft³/s (0.22 m³/s) July 4, gage height, 1.94 ft (0.591 m); minimum daily, 2.9 ft³/s (0.08 m³/s) Mar. 13-15, 18, 19, 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.7	5.1	4.8	4.3	3.4	3.6	6.2	6.2	6.2	5.2	3.8
2	6.2	5.5	5.4	4.8	4.2	3.4	3.8	6.2	6.2	6.4	5.2	3.9
3	6.3	5.4	5.4	4.8	4.1	3.1	3.8	6.3	6.2	7.0	5.2	3.8
4	6.5	5.4	5.4	4.8	4.1	3.1	3.8	6.3	6.2	7.3	5.2	3.8
5	6.5	5.4	5.4	4.6	4.1	3.1	4.0	6.3	6.2	7.0	5.4	3.8
6	6.5	5.4	5.4	4.5	4.1	3.1	4.2	6.3	6.2	7.0	5.4	3.8
7	6.5	5.6	5.4	4.5	4.1	3.1	4.2	6.3	6.2	7.0	5.2	3.8
8	6.5	5.7	5.2	4.5	4.1	3.1	4.6	6.3	6.2	6.7	5.4	3.7
9	6.5	5.7	5.2	4.5	4.0	3.1	4.6	6.3	6.1	6.7	5.4	3.6
10	6.4	5.7	5.2	4.5	4.0	3.1	4.8	6.4	6.1	6.7	5.7	3.6
11	6.2	5.3	5.2	4.5	4.0	3.1	4.8	6.4	6.1	6.7	5.9	3.6
12	6.2	5.2	5.2	4.5	4.0	3.1	4.8	6.4	6.1	6.7	5.7	3.4
13	6.2	5.2	5.2	4.5	4.0	2.9	5.0	6.4	6.1	6.7	5.9	3.4
14	6.2	5.2	5.2	4.5	4.0	2.9	5.2	6.4	6.1	6.7	5.7	3.4
15	6.2	5.2	5.2	4.5	3.8	2.9	5.2	6.4	6.1	7.0	5.7	3.4
16	6.2	5.2	5.2	4.5	3.8	3.1	5.2	6.4	6.1	6.4	5.2	3.5
17	6.4	5.2	5.1	4.5	3.8	3.1	5.4	6.4	6.0	6.2	5.2	4.0
18	6.5	5.2	5.0	4.5	3.8	2.9	5.4	6.4	6.0	6.2	5.2	6.0
19	6.5	5.2	5.0	4.3	3.8	2.9	5.4	6.4	6.0	5.9	5.2	4.9
20	6.5	5.2	5.0	4.3	3.6	3.1	5.7	6.4	6.0	5.9	5.2	4.7
21	6.5	5.2	5.0	4.3	3.4	2.9	5.7	6.3	6.0	6.2	5.0	4.5
22	6.4	5.2	4.8	4.3	3.4	2.9	5.9	6.3	6.0	6.4	5.0	4.6
23	6.2	5.2	4.8	4.3	3.6	2.9	5.9	6.3	5.9	6.2	4.8	4.4
24	6.2	5.0	4.8	4.3	3.6	3.1	5.9	6.3	5.9	6.4	4.8	4.4
25	6.0	5.0	4.8	4.3	3.6	3.1	5.9	6.3	5.9	6.4	4.8	4.3
26	5.7	5.0	4.8	4.3	3.4	3.1	6.2	6.3	6.2	5.9	4.8	4.3
27	5.7	5.0	4.8	4.3	3.4	3.3	6.2	6.3	6.2	5.4	4.6	4.3
28	5.7	4.8	4.8	4.3	3.4	3.6	6.2	6.3	6.2	5.2	4.6	4.3
29	5.7	4.8	4.8	4.3	---	3.6	6.2	6.3	6.2	5.2	4.6	4.2
30	5.7	4.8	4.8	4.3	---	3.6	6.2	6.2	6.2	5.2	4.4	4.0
31	5.7	---	4.8	4.3	---	3.4	---	6.2	---	5.2	4.4	---
TOTAL	192.7	157.6	157.4	138.2	107.5	97.1	153.8	196.0	183.1	196.1	160.0	121.2
MEAN	6.22	5.25	5.08	4.46	3.84	3.13	5.13	6.32	6.10	6.33	5.16	4.04
MAX	6.5	5.7	5.4	4.8	4.3	3.6	6.2	6.4	6.2	7.3	5.9	6.0
MIN	5.7	4.8	4.8	4.3	3.4	2.9	3.6	6.2	5.9	5.2	4.4	3.4
AC-FT	382	313	312	274	213	193	305	389	363	389	317	240
CAL YR 1980	TOTAL	2632.3	MEAN	7.19	MAX	14	MIN	4.2	AC-FT	5220		
WTR YR 1981	TOTAL	1860.7	MEAN	5.10	MAX	7.3	MIN	2.9	AC-FT	3690		

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 SW¼ 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. No diversions above station.

AVERAGE DISCHARGE.--16 years, 6.36 ft³/s (0.180 m³/s), 4,610 acre-ft/yr (5.68 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.--Maximum discharge, 16 ft³/s (0.45 m³/s) at 0200 hours, May 28, gage height 2.15 ft (0.655 m), maximum gage height, 2.54 ft (0.774 m) Dec. 11, (backwater from ice); no other peak above base of 20 ft³/s (0.57 m³/s); minimum daily, 0.74 ft³/s (0.021 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.3	2.3	2.1	1.8	1.8	3.9	9.9	13	3.5	1.4	.75
2	2.1	2.3	2.4	2.1	1.9	1.5	4.0	10	12	3.2	1.3	.74
3	2.1	2.4	2.3	2.1	2.0	1.5	3.9	10	12	3.0	1.3	.75
4	2.1	2.3	2.4	2.0	2.0	1.9	3.9	10	11	2.9	1.3	.79
5	2.0	2.3	1.9	1.8	2.0	2.3	4.0	10	10	2.8	1.1	.79
6	2.0	2.3	1.8	1.7	2.0	2.2	4.5	9.3	9.7	2.9	1.1	.85
7	2.0	2.3	1.7	1.8	2.0	2.1	5.0	8.6	9.1	2.7	1.0	.95
8	2.0	2.3	1.6	1.8	2.0	2.2	5.0	8.1	8.7	2.6	.97	1.0
9	2.0	2.3	1.7	1.9	1.8	2.4	5.2	7.6	8.4	2.5	.90	1.2
10	2.0	2.3	1.9	1.9	1.7	2.5	5.8	7.2	8.0	2.4	.94	1.1
11	2.0	2.4	2.1	1.9	1.8	2.5	5.7	7.0	7.6	2.3	1.0	1.0
12	2.0	2.7	2.2	1.8	1.8	2.4	5.6	7.0	6.9	2.3	1.0	1.0
13	2.1	2.5	2.1	1.7	1.9	2.4	5.5	7.0	6.8	2.2	1.1	1.1
14	2.2	2.2	2.1	1.8	1.9	2.6	5.7	6.8	6.6	2.1	1.3	1.1
15	2.2	2.3	2.1	1.9	1.9	2.8	6.2	7.0	6.2	2.0	1.2	1.0
16	2.3	2.4	2.1	1.9	1.9	3.1	6.6	7.2	5.7	2.1	1.2	1.1
17	2.2	2.4	2.2	1.9	2.0	2.8	7.1	6.9	5.4	2.1	1.1	1.0
18	2.2	2.4	2.3	1.9	1.8	2.7	8.4	6.4	5.2	2.0	1.2	1.1
19	2.2	2.4	2.3	1.9	1.9	2.8	8.2	6.8	4.9	2.0	1.5	1.0
20	2.2	2.3	2.3	1.9	1.8	2.7	7.3	7.8	4.7	1.9	1.2	1.0
21	2.2	2.2	2.3	1.9	1.7	2.7	6.8	8.7	4.4	1.8	1.1	.99
22	2.2	2.3	2.3	1.9	1.7	3.0	6.6	8.5	4.3	1.7	1.1	1.0
23	2.2	2.3	2.3	1.9	1.8	3.3	7.1	8.3	4.0	1.7	.98	1.0
24	2.2	2.3	2.3	1.9	1.8	3.4	8.3	8.3	3.8	1.6	.89	1.0
25	2.2	2.0	2.3	1.9	1.8	3.5	9.0	8.3	3.6	1.6	.84	1.0
26	2.3	2.3	2.3	1.9	1.8	3.6	9.8	9.8	3.4	1.5	.78	1.1
27	2.4	2.5	2.3	2.0	1.6	3.5	9.2	13	3.3	1.5	.82	1.0
28	2.2	2.4	2.3	2.0	1.7	3.4	8.8	15	3.5	1.5	.81	.97
29	2.4	2.4	2.2	2.0	---	3.9	9.0	15	3.4	1.4	.76	1.0
30	2.4	2.4	2.2	2.0	---	4.2	9.5	14	3.6	1.4	.76	1.1
31	2.4	---	2.1	2.0	---	3.9	---	13	---	1.4	.76	---
TOTAL	67.0	70.2	66.7	59.2	51.8	85.6	195.6	282.5	199.2	66.6	32.71	29.48
MEAN	2.16	2.34	2.15	1.91	1.85	2.76	6.52	9.11	6.64	2.15	1.06	.98
MAX	2.4	2.7	2.4	2.1	2.0	4.2	9.8	15	13	3.5	1.5	1.2
MIN	2.0	2.0	1.6	1.7	1.6	1.5	3.9	6.4	3.3	1.4	.76	.74
AC-FT	133	139	132	117	103	170	388	560	395	132	65	58
CAL YR 1980	TOTAL	2411.00	MEAN 6.59	MAX 41	MIN 1.6	AC-FT 4780						
WTR YR 1981	TOTAL	1206.59	MEAN 3.31	MAX 15	MIN .74	AC-FT 2390						

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 current year, 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 since April 1966.

REMARKS.--Temperature recorder malfunctioned from February 20 to April 21.

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, 0 mg/L July 26, 1973, Aug. 23, 1973.

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

WATER TEMPERATURES: Maximum, 17.5°C Aug. 8; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 22...	1230	2.2	135	7.9	5.5	.20	9.7	--	<3	K6	52
NOV 19...	0955	2.2	138	8.0	1.0	.20	11.0	96	<1	K2	54
DEC 16...	0930	2.1	130	8.0	2.5	.10	10.7	96	<1	K6	51
JAN 20...	0845	1.8	--	8.0	1.0	.25	--	--	<1	K5	54
MAR 17...	0845	2.7	133	8.3	.0	.60	11.4	97	<1	K2	54
APR 21...	1300	6.7	125	8.1	8.5	1.0	--	--	<1	K6	54
MAY 12...	1230	7.0	107	7.6	9.5	.80	9.1	100	<1	K8	43
JUN 16...	1040	6.4	99	--	9.0	1.1	9.4	102	K3	K10	37
JUL 21...	1100	2.1	118	8.6	13.5	.50	8.7	105	K3	20	48
AUG 18...	1100	1.3	132	8.1	13.5	.50	8.2	99	<2	60	53
SEP 21...	1730	1.0	138	8.2	12.5	1.4	8.1	96	<2	60	57

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 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 22...	18	1.6	6.7	.4	.8	91	0	75	8.5	2.1
NOV 19...	19	1.5	6.7	.4	1.6	74	0	61	9.3	1.7
DEC 16...	18	1.5	6.3	.4	.8	73	0	60	7.0	1.9
JAN 20...	19	1.5	7.2	.4	.6	72	0	59	7.1	1.8
MAR 17...	19	1.6	6.4	.4	.8	74	0	61	7.8	2.0
APR 21...	19	1.6	6.0	.4	.8	67	0	55	--	1.8
MAY 12...	15	1.2	5.8	.4	.7	58	0	48	1.1	1.5
JUN 16...	13	1.1	4.8	.3	.8	--	--	--	1.6	1.0
JUL 21...	17	1.4	6.4	.4	.8	68	2	57	1.0	1.3
AUG 18...	19	1.4	6.4	.4	.9	81	0	66	<5.0	1.8
SEP 21...	20	1.7	6.3	.4	1.0	87	0	71	<5.0	1.8

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE 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)
OCT 22...	.1	21	92	98	.55	.00	.000	.00	.010	.020
NOV 19...	.3	19	96	95	.57	.01	.000	.01	.050	.050
DEC 16...	.1	19	90	88	.51	.06	.010	.03	.020	.050
JAN 20...	.1	19	91	91	.44	.00	.000	.00	.070	.030
MAR 17...	.1	18	95	92	.69	.05	.000	.06	.030	.000
APR 21...	.2	18	94	--	1.7	.01	.000	.02	--	.090
MAY 12...	.1	18	78	71	1.5	.03	.000	.03	.100	.100
JUN 16...	.1	19	73	69	1.3	.01	.000	.01	.080	.050
JUL 21...	.1	21	89	84	.50	.07	.020	.09	--	.100
AUG 18...	.1	21	90	--	.32	.09	.020	--	.160	.080
SEP 21...	.2	21	98	--	.27	.09	.020	.12	.160	.130

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (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- PENDE TOTAL (MG/L AS C)
OCT 22...	--	.00	--	.02	.030	.010	.000	2.7	--	--
NOV 19...	.08	--	.14	--	.020	.020	.000	2.5	--	--
DEC 16...	.19	.09	.28	.17	.040	.050	.010	--	4.4	.5
JAN 20...	.21	--	.28	--	.010	.010	.000	--	--	--
MAR 17...	.37	.18	.45	.24	.010	.010	.000	--	1.6	.3
APR 21...	--	.36	.83	.47	.010	.010	.020	3.6	--	--
MAY 12...	.78	.49	.91	.62	.040	.040	.000	--	4.3	.3
JUN 16...	.53	.42	.62	.48	.010	.010	.000	3.1	--	--
JUL 21...	--	.07	.41	.26	.030	<.010	--	1.0	--	--
AUG 18...	.19	.03	.46	--	<.010	<.010	.000	--	1.2	--
SEP 21...	.14	--	.41	--	.020	.020	.020	1.6	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC		ARSENIC		BARIUM, TOTAL RECOVERABLE		BARIUM, DIS-SOLVED		BERYLLIUM, DIS-SOLVED		CADMIUM TOTAL RECOVERABLE		CADMIUM DIS-SOLVED		CHROMIUM, TOTAL RECOVERABLE		CHROMIUM, DIS-SOLVED		COBALT, TOTAL RECOVERABLE		COBALT, DIS-SOLVED	
		AS	AS	AS	AS	AS	BA	AS	BA	AS	BE	AS	CD	AS	CD	AS	CR	AS	CR	AS	CO	AS	CO
DEC 16...	0930		3		3		--		20		--		0		--		20		0		2		<3
MAR 17...	0845		5		5		100		20		--		0		1		10		0		0		<3
MAY 12...	1230		4		3		100		10		<1		1		<1		0		0		1		<3
AUG 18...	1100		3		5		100		10		<1		0		<1		0		0		0		<3

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)
DEC 16...	1	0	40	<10	3	0	--	0	<1	.0	.0	--
MAR 17...	2	1	40	30	2	1	--	10	2	.0	.1	--
MAY 12...	4	<10	50	43	6	--	7	10	3	.1	--	<10
AUG 18...	3	<10	70	<10	14	<10	8	10	2	.1	.1	<10

DATE	NICKEL, TOTAL RECOVERABLE (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 RECOVERABLE (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 RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
DEC 16...	0	0	0	0	0	0	--	--	10	<3	--
MAR 17...	1	0	0	0	0	0	--	--	20	4	--
MAY 12...	--	0	0	0	0	0	95	<6.0	--	9	.00
AUG 18...	0	0	0	0	1	0	120	<6.0	80	3	.00

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
DEC 16...	0930	5.4	5.1	1.8	.8	.06	3.5

[illegible][illegible]

BIG SMOKY VALLEY (NORTHERN PART)

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	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 16...	.00	.00	.00	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 22...	1230	1	.01
NOV 19...	0955	3	.02
DEC 16...	0930	2	.01
JAN 20...	0845	6	.03
MAR 17...	0845	1	.01
APR 21...	1300	4	.07
MAY 12...	1230	4	.08
JUN 16...	1040	4	.07
JUL 21...	1100	3	.02
AUG 18...	1100	3	.01
SEP 21...	1730	2	.01

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 19,80	MAR 17,81	MAY 12,81	JUN 16,81
TIME	0955	0845	1230	1040
TOTAL CELLS/ML	13	26	26	90
DIVERSITY: DIVISION	0.0	0.0	0.0	0.6
.CLASS	0.0	0.0	0.0	0.6
.ORDER	0.0	0.0	1.0	0.6
.FAMILY	0.0	0.0	1.0	0.6
.GENUS	0.0	0.0	1.0	0.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
.BACILLARIOPHYCEAE								
..ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	13#	50	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	13	14
..BACILLARIALES								
...NITZSCHIACEAE								
....NITZSCHIA	--	-	--	-	--	-	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	26#	100	--	-	--	-
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	13#	100	--	-	13#	50	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..OSCILLATORIALES								
...OSCILLATORIA	--	-	--	-	--	-	77#	86

DATE	JUL 21,81	AUG 18,81	SEP 21,81
TIME	1100	1100	1730
TOTAL CELLS/ML	430	140	400
DIVERSITY: DIVISION	0.0	0.0	0.0
.CLASS	0.0	0.0	0.0
.ORDER	1.9	1.3	0.9
.FAMILY	2.2	1.3	1.2
.GENUS	2.9	1.3	1.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
.BACILLARIOPHYCEAE						
..ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	42	10	--	-	--	-
....COCCONEIS	98#	23	42#	30	270#	69
....RHOICOSPHENIA	--	-	--	-	--	-
..BACILLARIALES						
...NITZSCHIACEAE						
....NITZSCHIA	56	13	--	-	--	-
..FRAGILARIALES						
...FRAGILARIACEAE						
....DIATOMA	84#	19	--	-	--	-
....SYNEDRA	70#	16	14	10	--	-
..NAVICULALES						
...CYMBELLACEAE						
....AMPHORA	14	3	--	-	--	-
....CYMBELLA	14	3	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	28	6	--	-	68#	17
...NAVICULACEAE						
....NAVICULA	28	6	84#	60	55	14
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	12.0	9.5	6.0	3.5	2.5	.5	2.5	1.0	.0	.0		
2	12.0	9.5	6.0	4.5	3.5	1.5	2.0	1.0	.0	.0		
3	12.0	9.5	6.5	5.0	3.5	2.0	4.0	2.0	.0	.0		
4	12.0	9.5	6.5	5.0	3.5	1.5	3.0	2.0	.0	.0		
5	12.0	9.5	7.0	5.0	1.5	.0	1.5	.5	1.0	.0		
6	12.0	9.5	6.5	5.5	.0	.0	1.0	.0	1.5	.0		
7	11.5	9.0	7.0	5.0	.0	.0	1.0	.0	1.5	.0		
8	11.0	9.0	6.5	5.5	.0	.0	1.5	.5	2.0	.5		
9	11.0	9.0	6.5	4.5	.0	.0	2.0	.5	2.0	.0		
10	11.0	8.5	6.0	4.5	.0	.0	1.5	1.0	.0	---		
11	10.5	8.5	6.5	4.5	.0	.0	2.0	.5	1.0	---		
12	10.0	7.5	4.5	3.0	1.5	.0	3.0	1.5	1.0	---		
13	8.0	6.5	3.5	1.0	2.0	1.0	2.5	1.5	1.5	---		
14	7.5	5.0	1.5	.0	1.5	.5	2.5	1.5	2.0	.0		
15	5.5	4.5	1.5	.5	2.5	1.5	2.5	1.5	1.0	---		
16	5.0	3.5	1.0	.0	3.0	2.5	3.0	1.5	2.0	.0		
17	5.0	3.0	2.0	.0	3.0	2.0	4.0	2.5	2.5	.5		
18	5.5	3.5	1.5	.0	3.5	2.5	2.5	1.0	2.5	.5		
19	6.5	4.5	2.0	.5	3.0	2.0	3.5	1.5	3.0	1.0		
20	7.0	5.5	1.5	.0	3.5	2.0	2.5	1.0	---	---		
21	7.5	5.5	1.5	.0	4.0	2.0	3.0	1.0	---	---		
22	6.5	5.5	3.0	1.5	4.5	3.0	4.5	2.5	---	---		
23	6.0	3.5	3.5	1.5	3.0	1.5	3.5	1.5	---	---		
24	6.5	4.5	1.5	.0	3.0	1.5	1.5	.5	---	---		
25	6.5	4.5	.0	---	4.5	2.5	.0	.0	---	---		
26	6.0	4.5	1.0	.0	4.0	3.0	.5	.0	---	---		
27	4.5	3.5	1.5	.0	4.5	3.0	2.0	.5	---	---		
28	3.5	1.5	2.5	1.0	3.5	3.0	2.0	.5	---	---		
29	4.0	2.0	3.5	2.0	3.0	2.0	1.5	.5	---	---		
30	5.5	3.5	3.0	2.5	2.0	1.0	.5	.0	---	---		
31	6.0	4.0	---	---	2.0	1.0	.0	.0	---	---		
MONTH	12.0	1.5	7.0	.0	4.5	.0	4.5	.0	3.0	.0		

[illegible]

LOCATION.--Lat 39°15'58", long 117°41'56", in SE¼NE¼ sec.9, T.16 N., R.38 E., Lander County, Hydrologic Unit 16060002, on left bank just upstream from culvert on State Highway 2, 1.5 mi (2.4 km) east of Lander County line, and 10 mi (16 km) east of Eastgate.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.13 ft³/s (0.004 m³/s) May 19, gage height, 1.05 (0.320 m); no flow most of year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.03	.00	.00	.00	.00	.00	.02	.04	.01	.04	.00
2	.02	.03	.00	.00	.00	.00	.00	.03	.03	.01	.03	.00
3	.02	.03	.00	.00	.00	.00	.00	.03	.02	.01	.02	.00
4	.02	.02	.00	.00	.00	.00	.00	.03	.02	.02	.02	.00
5	.02	.02	.00	.00	.00	.00	.00	.03	.02	.02	.03	.00
6	.02	.02	.00	.00	.00	.00	.00	.03	.02	.03	.03	.00
7	.02	.02	.00	.00	.00	.00	.00	.03	.02	.02	.03	.00
8	.02	.02	.00	.00	.00	.00	.00	.03	.02	.02	.02	.00
9	.02	.02	.00	.00	.00	.00	.00	.03	.01	.02	.02	.00
10	.02	.03	.00	.00	.00	.00	.00	.03	.02	.02	.02	.00
11	.02	.03	.00	.00	.00	.00	.00	.03	.01	.01	.00	.00
12	.02	.03	.00	.00	.00	.00	.00	.03	.02	.00	.02	.00
13	.02	.01	.00	.00	.00	.00	.00	.03	.02	.00	.03	.00
14	.02	.00	.00	.00	.00	.00	.00	.03	.01	.02	.04	.00
15	.03	.00	.00	.00	.00	.00	.00	.04	.00	.02	.03	.00
16	.03	.00	.00	.00	.00	.00	.00	.04	.00	.02	.02	.00
17	.03	.00	.00	.00	.00	.00	.00	.04	.02	.01	.04	.00
18	.03	.00	.00	.00	.00	.00	.00	.03	.02	.00	.05	.00
19	.03	.00	.00	.00	.00	.00	.00	.06	.01	.00	.05	.00
20	.02	.00	.00	.00	.00	.00	.00	.08	.00	.02	.04	.00
21	.02	.00	.00	.00	.00	.00	.00	.05	.00	.03	.04	.00
22	.02	.00	.00	.00	.00	.00	.00	.05	.00	.03	.04	.00
23	.02	.00	.00	.00	.00	.00	.00	.05	.00	.02	.02	.00
24	.02	.00	.00	.00	.00	.00	.01	.05	.00	.03	.00	.00
25	.02	.00	.00	.00	.00	.00	.01	.05	.00	.03	.00	.00
26	.03	.00	.00	.00	.00	.00	.02	.05	.00	.03	.00	.00
27	.03	.00	.00	.00	.00	.00	.02	.05	.00	.04	.00	.00
28	.02	.00	.00	.00	.00	.00	.02	.04	.00	.03	.00	.00
29	.02	.00	.00	.00	---	.00	.02	.04	.00	.03	.00	.00
30	.03	.00	.00	.00	---	.00	.02	.03	.01	.03	.00	.00
31	.02	---	.00	.00	---	.00	---	.04	---	.04	.00	---
TOTAL	.70	.31	.00	.00	.00	.00	.12	1.20	.34	.62	.68	.00
MEAN	.023	.010	.000	.000	.000	.000	.004	.039	.011	.020	.022	.000
MAX	.03	.03	.00	.00	.00	.00	.02	.08	.04	.04	.05	.00
MIN	.02	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
AC-FT	1.4	.6	.00	.00	.00	.00	.2	2.4	.7	1.2	1.3	.00
CAL YR 1980	TOTAL	9.38	MEAN	.026	MAX	.13	MIN	.00	AC-FT	19		
WTR YR 1981	TOTAL	3.97	MEAN	.011	MAX	.08	MIN	.00	AC-FT	7.9		

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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 current year.

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.--21 years, 8.83 ft³/s (0.250 m³/s), 6,400 acre-ft/yr (7.89 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.--Maximum discharge, 20 ft³/s (0.57 m³/s) May 27 (0200 hrs), gage height 1.32 ft (0.402 m), no other peak above base of 20 ft³/s (0.57 m³/s); minimum daily, 5.9 ft³/s (0.17 m³/s) May 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	12	11	9.7	8.4	7.9	7.0	8.7	10	10	8.6
2	13	13	12	11	9.4	9.4	8.4	6.7	9.3	10	10	8.8
3	13	13	12	11	9.1	9.1	8.1	6.4	9.1	10	10	8.8
4	13	13	12	11	9.1	9.1	8.4	6.4	9.4	10	10	9.1
5	13	13	12	11	9.1	10	9.1	6.2	10	10	10	9.2
6	13	13	12	11	9.1	10	9.4	6.2	11	10	9.8	9.2
7	13	13	12	11	9.1	9.7	8.7	6.2	11	10	9.8	9.5
8	13	13	12	11	9.4	9.7	8.7	6.2	12	10	9.7	9.7
9	13	13	12	11	9.4	9.7	8.7	6.2	15	10	9.7	9.5
10	13	13	12	11	9.1	9.7	8.4	6.2	15	10	11	9.3
11	13	13	12	11	9.1	9.1	8.1	5.9	15	10	9.9	9.1
12	13	13	12	11	9.1	9.1	7.9	5.9	15	10	9.7	9.2
13	13	13	12	11	9.1	9.4	7.8	6.2	13	10	9.9	9.5
14	13	12	12	11	9.4	9.1	7.8	6.2	12	10	10	9.2
15	13	13	12	11	8.7	9.1	7.8	6.4	11	10	9.9	9.1
16	13	13	12	11	9.1	8.7	7.2	6.7	9.3	10	9.6	9.3
17	14	13	12	11	9.1	8.4	7.2	6.4	9.2	10	9.4	9.6
18	13	13	12	11	9.1	9.1	7.0	6.4	9.2	10	9.3	9.1
19	13	13	12	11	8.7	9.4	8.1	7.5	9.2	10	9.3	8.9
20	14	13	12	11	8.4	8.1	7.0	9.4	9.2	10	9.0	8.8
21	13	13	12	10	8.4	8.4	6.4	8.7	9.8	10	8.9	8.5
22	13	13	11	10	8.1	8.7	6.5	7.4	9.9	10	8.9	8.4
23	13	13	11	10	7.8	8.7	6.7	6.9	9.4	10	8.7	8.4
24	13	13	12	9.7	7.8	8.7	6.7	6.7	9.6	10	8.7	8.3
25	13	13	12	9.2	7.8	9.1	7.0	8.1	9.5	10	8.6	8.5
26	13	13	12	9.0	8.4	8.7	6.7	9.7	9.5	10	8.6	8.4
27	13	13	12	9.4	7.8	8.4	6.7	13	9.4	10	8.8	8.3
28	13	13	11	10	8.1	9.1	6.7	8.4	9.6	10	8.6	8.6
29	13	13	11	10	---	8.7	6.7	7.4	9.7	10	8.3	8.7
30	13	13	11	9.7	---	7.9	6.7	7.7	10	10	8.5	8.7
31	13	---	11	10	---	7.8	---	8.4	---	10	8.6	---
TOTAL	405	389	366	327.0	246.5	278.5	228.5	223.1	319.0	310	291.2	268.3
MEAN	13.1	13.0	11.8	10.5	8.80	8.98	7.62	7.20	10.6	10.0	9.39	8.94
MAX	14	13	12	11	9.7	10	9.4	13	15	10	11	9.7
MIN	13	12	11	9.0	7.8	7.8	6.4	5.9	8.7	10	8.3	8.3
AC-FT	803	772	726	649	489	552	453	443	633	615	578	532
CAL YR 1980	TOTAL	4273.0	MEAN	11.7	MAX	23	MIN	6.4	AC-FT	8480		
WTR YR 1981	TOTAL	3652.1	MEAN	10.0	MAX	15	MIN	5.9	AC-FT	7240		

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: October 1974 to current year, monthly.

SPECIFIC CONDUCTANCES: October 1974 to March 1975, monthly; April 1975 to October 1980, once daily; November 1980 to current year, monthly.

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

MICROBIOLOGICAL AND SEDIMENT DATA: January 1975 to current year, monthly.

WATER TEMPERATURES: September 1960 to March 1975, monthly; April 1975 to October 1980, once daily; November 1980 to current year, monthly.

REMARKS.--Daily sampling and temperature measurement were done approximately 100 ft upstream from State Highway 3A, in NW1SW1 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.

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

SPECIFIC CONDUCTANCES: Maximum, presumably not measured (see Period of Record); minimum, presumably not measured (see Period of Record).

WATER TEMPERATURES: Maximum, presumably not measured (see Period of Record); minimum, presumably not measured (see Period of Record).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT										
23...	1100	14	56	7.4	4.0	--	10.3	--	K6	30
NOV										
18...	1235	12	56	7.5	2.0	--	10.7	96	K10	K6
DEC										
15...	1310	11	56	7.6	3.0	1.2	10.3	95	K2	70
JAN										
19...	1255	10	56	7.6	3.5	.40	--	--	K5	30
MAR										
16...	1335	8.6	58	7.9	6.5	2.0	9.6	99	K7	40
APR										
20...	1445	7.6	60	7.4	8.0	2.3	--	--	K6	K18
MAY										
11...	1430	6.0	57	7.7	12.0	1.6	8.5	100	K4	K30
JUN										
15...	1450	11	52	8.6	11.5	2.7	8.8	101	K10	40
JUL										
20...	1415	11	51	8.5	15.0	3.0	8.1	100	20	90
AUG										
17...	1400	9.4	55	8.0	12.5	2.0	8.3	99	20	310
SEP										
21...	1230	9.1	51	7.7	11.0	2.1	8.7	99	K10	180

K: NON-IDEAL COLONY COUNT.

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HC03)	CAR- BONATE FET-FLD (MG/L AS C03)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 23...	20	6.7	.8	3.5	.3	.8	29	0	24	2.2
NOV 18...	19	6.7	.5	3.2	.3	.9	36	0	30	--
DEC 15...	19	6.6	.5	3.1	.3	.8	29	0	24	2.0
JAN 19...	19	6.9	.4	3.9	.4	.8	29	0	24	2.6
MAR 16...	21	6.9	.9	3.6	.3	.9	33	0	27	2.4
APR 20...	21	7.1	.7	3.7	.4	1.0	32	0	26	--
MAY 11...	22	7.5	.7	4.0	.4	.8	29	0	24	3.0
JUN 15...	18	6.4	.6	3.0	.3	.8	35	4	32	2.5
JUL 20...	19	6.7	.6	2.7	.3	.7	37	3	33	<1.0
AUG 17...	20	6.8	.6	2.8	.3	.8	38	0	31	<1.0
SEP 21...	19	6.7	.6	2.8	.3	.8	34	0	28	<5.0

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, 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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 23...	.7	.2	17	45	47	1.7	.06	.000	.03	.020
NOV 18...	.5	.3	16	50	--	1.7	.14	.000	.14	.050
DEC 15...	.4	.2	17	--	44	--	.16	.010	.16	.040
JAN 19...	.5	.3	16	49	49	1.4	--	--	.07	.030
MAR 16...	.6	.2	16	49	46	1.1	.04	.050	.08	.040
APR 20...	.7	.3	17	57	--	1.2	.07	.000	.07	.080
MAY 11...	.7	.2	17	50	48	.81	.06	.000	.07	.080
JUN 15...	.7	.2	15	41	48	1.2	.05	.000	--	.100
JUL 20...	.4	.2	15	43	--	1.3	.07	.020	.09	.220
AUG 17...	.7	.2	16	43	--	1.1	--	.020	--	.140
SEP 21...	.8	.2	16	45	--	1.1	.12	.020	.17	.210

DATE	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, 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)	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 23...	.020	--	.62	--	.67	.020	.010	--	2.2	.5
NOV 18...	.050	--	.90	--	1.1	.020	.020	2.5	--	--
DEC 15...	.020	--	.42	--	.60	.060	.070	3.6	--	--
JAN 19...	.030	.44	.45	.58	.55	.030	.010	--	2.7	1.0
MAR 16...	.000	.23	.15	.36	.23	.030	.020	1.9	--	--
APR 20...	.060	.39	.40	.54	.53	.030	.010	--	3.5	.4
MAY 11...	.070	.62	.45	.76	.59	.050	.040	4.6	--	--
JUN 15...	.060	.77	.60	.92	--	.030	.020	2.6	--	--
JUL 20...	.160	.14	.05	.45	.30	.040	<.010	--	3.3	.2
AUG 17...	.080	.39	.09	--	--	.010	<.010	2.0	--	--
SEP 21...	.170	.08	.04	.43	.38	.030	.020	3.5	--	--

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

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10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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)
OCT 23...	1100	1	1	--	20	1	1	10	0	0
JAN 19...	1255	1	1	100	20	0	<1	0	0	0
APR 20...	1445	1	1	100	20	0	1	20	10	5
JUL 20...	1415	1	1	0	0	1	<1	10	0	0

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 23...	<3	7	2	440	40	2	1	30	3	.1
JAN 19...	<3	4	1	370	30	5	0	20	<1	.0
APR 20...	<3	5	2	620	50	3	2	30	4	.1
JUL 20...	<3	1	2	630	50	--	2	30	4	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 23...	.0	0	0	0	0	0	0	20	<3
JAN 19...	.0	4	0	0	0	0	0	10	<3
APR 20...	.0	0	0	0	0	0	0	--	8
JUL 20...	.0	2	1	0	0	1	0	30	10

DATE	TIME	SEDI- MENT, DIS- SUS- PENDED (MG/L)	SEDI- MENT, DIS- SUS- PENDED (T/DAY)
OCT 23...	1100	34	1.3
NOV 18...	1235	35	1.2
DEC 15...	1310	25	.77
JAN 19...	1255	18	.51
MAR 16...	1335	50	1.2
APR 20...	1445	28	.57
MAY 11...	1430	32	.52
JUN 15...	1450	64	1.9
JUL 20...	1415	75	2.2
AUG 17...	1400	33	.84
SEP 21...	1230	20	.49

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 18,80	MAR 16,81	MAY 11,81	JUN 15,81
TIME	1235	1335	1430	1450
TOTAL CELLS/ML	52	52	51	280
DIVERSITY: DIVISION	0.8	0.0	0.0	0.9
..CLASS	0.8	0.0	0.0	0.9
..ORDER	0.8	0.0	0.8	1.0
...FAMILY	0.8	0.0	0.8	1.0
....GENUS	0.8	0.0	0.8	1.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	39#	75	--	-
....COCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
...BACILLARIALES								
...NITZSCHIA	13#	25	52#	100	13#	25	--	-
...FRAGILARIALES								
...FRAGILARIA	--	-	--	-	--	-	--	-
...NAVICULALES								
...CYMBELLACEAE								
...AMPHORA	--	-	--	-	--	-	--	-
...CYMBELLA	--	-	--	-	--	-	13	5
...NAVICULACEAE								
...FRUSTULIA	--	-	--	-	--	-	--	-
...NAVICULA	--	-	--	-	--	-	13	5
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-
...TREUBARIA	--	-	--	-	--	-	13	5
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	--	-	13	5
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...ANACYSTIS	39#	75	--	-	--	-	--	-
...NOSTOCALES								
...HAMMATOIDEACEAE								
...RAPHIDIOPSIS	--	-	--	-	--	-	--	-
...OSCILLATORIALES								
...OSCILLATORIA	--	-	--	-	--	-	230#	82

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 20,81	AUG 17,81	SEP 21,81
TIME	1415	1400	1230
TOTAL CELLS/ML	280	290	400
DIVERSITY: DIVISION	0.5	1.0	1.1
..CLASS	0.5	1.0	1.1
..ORDER	2.2	1.8	2.2
...FAMILY	2.5	2.1	2.2
....GENUS	2.9	2.3	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	42	15	14	5	41	10
....COCCONEIS	14	5	--	--	--	--
....RHOICOSPHENIA	--	--	14	5	--	--
..BACILLARIALES						
...NITZSCHIAEAE						
....NITZSCHIA	28	10	56#	19	--	--
..FRAGILARIALES						
...FRAGILARIAEAE						
....FRAGILARIA	56#	20	--	--	28	7
..NAVICULALES						
...CYMBELLACEAE						
....AMPHORA	--	--	14	5	--	--
....CYMBELLA	28	10	14	5	28	7
..NAVICULACEAE						
....FRUSTULIA	14	5	--	--	--	--
....NAVICULA	70#	25	70#	24	--	--
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....OOCYSTACEAE						
....ANKISTRODESMUS	14	5	--	--	--	--
....KIRCHNERIELLA	--	--	--	--	14	3
....SELENASTRUM	--	--	--	--	14	3
....TREUBARIA	--	--	--	--	--	--
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	14	5	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....ANACYSTIS	--	--	--	--	--	--
..NOSTOCALES						
...HAMMATOIDEACEAE						
....RAPHIDIOPSIS	--	--	--	--	110#	28
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	--	110#	38	170#	41

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5											
2	13.0											
3	13.0											
4	13.0											
5	13.5											
6	13.0											
7	13.0											
8	12.5											
9	12.5											
10	12.0											
11	12.0											
12	12.0											
13	10.0											
14	10.0											
15	10.5											
16	10.0											
17	10.0											
18	8.0											
19	8.0											
20	9.5											
21	9.5											
22	9.5											
23	9.5											
24	9.5											
25	9.0											
26	9.0											
27	10.0											
28	10.0											
29	9.0											
30	9.0											
31	9.0											
MEAN	10.5											
MAX	13.5											
MIN	8.0											
WTR YR 1981	MEAN	10.5	MAX	13.5	MIN	8.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54											
2	56											
3	54											
4	54											
5	54											
6	54											
7	56											
8	54											
9	54											
10	57											
11	56											
12	56											
13	57											
14	55											
15	55											
16	57											
17	54											
18	54											
19	54											
20	56											
21	56											
22	55											
23	55											
24	57											
25	57											
26	56											
27	57											
28	57											
29	57											
30	57											
31	57											
MEAN	56											
MAX	57											
MIN	54											
WTR YR 1981	MEAN	56	MAX	57	MIN	54						

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 good except those for winter months which are fair.

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 3.6 ft³/s (0.102 m³/s) Feb. 27, gage height, 7.62 ft (2.323 m); maximum gage height 7.84 ft (2.390 m) Jan. 26 (backwater from ice); minimum daily 0.28 ft³/s (0.008 m³/s) Jan. 20-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.76	.54	.34	.40	.38	.64	2.1	1.2	.59	.45	.38
2	.82	.70	.54	.34	.39	.54	.70	2.1	1.1	.59	.45	.38
3	.82	.70	.54	.34	.38	.34	.64	2.3	1.1	.54	.45	.38
4	.82	.70	.59	.34	.37	.34	.54	2.0	1.0	.54	.45	.38
5	.82	.70	.54	.34	.37	.34	.54	1.9	1.0	.54	.41	.38
6	.82	.70	.54	.34	.36	.34	.70	1.7	.96	.54	.41	.54
7	.82	.70	.45	.34	.36	.31	.82	1.6	.96	.54	.41	.59
8	.82	.70	.45	.31	.37	.31	.96	1.4	.89	.54	.41	.59
9	.82	.59	.41	.31	.37	.34	1.1	1.4	.89	.54	.41	.76
10	.82	.59	.45	.31	.38	.34	1.3	1.3	.89	.54	.41	.82
11	.82	.64	.45	.31	.38	.38	1.3	1.3	.89	.54	.41	.82
12	1.0	.64	.45	.31	.38	.38	1.2	1.2	.89	.54	.45	.76
13	.96	.64	.41	.31	.38	.34	1.0	1.2	.82	.54	.45	.82
14	.96	.64	.41	.31	.38	.31	1.0	1.2	.82	.54	.45	.82
15	1.0	.64	.41	.31	.38	.31	1.1	1.2	.82	.54	.50	.76
16	1.0	.64	.41	.31	.38	.38	1.2	1.1	.82	.54	.45	.70
17	.96	.54	.45	.31	.34	.41	1.4	1.1	.76	.54	.45	.64
18	.96	.54	.45	.31	.34	.41	1.5	1.1	.76	.50	.45	.64
19	.96	.54	.45	.28	.34	.45	1.4	1.1	.76	.50	.41	.59
20	.96	.54	.45	.28	.34	.41	1.2	1.1	.76	.50	.41	.59
21	.89	.54	.41	.28	.34	.38	1.0	1.0	.70	.50	.41	.59
22	.82	.50	.41	.28	.34	.41	1.0	1.0	.70	.50	.38	.54
23	.82	.50	.41	.28	.34	.50	1.6	.96	.70	.45	.38	.54
24	.82	.54	.41	.28	.34	.54	2.0	.96	.64	.45	.38	.54
25	.82	.54	.41	.28	.34	.59	2.1	.96	.64	.45	.38	.54
26	.88	.54	.41	.28	.34	.76	2.1	.96	.64	.45	.38	.54
27	.88	.54	.38	.30	.96	.64	1.7	1.1	.64	.45	.41	.50
28	.88	.54	.38	.38	.34	.54	1.6	1.1	.64	.45	.38	.50
29	.88	.54	.34	.59	---	.54	1.6	1.2	.59	.45	.38	.50
30	.82	.54	.34	.47	---	.59	1.9	1.2	.59	.45	.38	.50
31	.76	---	.34	.43	---	.64	---	1.2	---	.45	.38	---
TOTAL	27.05	18.16	13.63	10.20	10.73	13.49	36.84	41.04	24.57	15.83	12.93	17.63
MAX	1.0	.76	.59	.59	.96	.76	2.1	2.3	1.2	.59	.50	.82
MIN	.76	.50	.34	.28	.34	.31	.54	.96	.59	.45	.38	.38
AC-FT	54	36	27	20	21	27	73	81	49	31	26	35
CAL YR 1980	TOTAL	1172.18	MEAN	3.20	MAX	16	MIN	.33	AC-FT	2330		
WTR YR 1981	TOTAL	242.10	MEAN	.66	MAX	2.3	MIN	.28	AC-FT	480		

WALKER LAKE BASIN

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 Depot).

REMARKS.--Elevations determined from reference points referred to U.S.C. and G.S. bench mark. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. 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, elevation, 4,051.8 ft (1,234.99 m), Indian Service; minimum observed, 2,389,000 acre-ft (2.95 km³) Sept. 21, 1981, elevation, 3,953.4 ft (1,205.00 m).

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

MONTHEND ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	3,956.5	2,498,000	--
Oct. 31.	3,956.3	2,491,000	-7,000
Nov. 30.	3,956.2	2,488,000	-3,000
Dec. 31.	3,956.2	2,488,000	0
CAL YR 1980	--	--	+78,000
Jan. 31.	3,956.2	2,488,000	0
Feb. 28.	3,956.3	2,491,000	+3,000
Mar. 31.	3,956.3	2,491,000	0
Apr. 30.	3,956.3	2,491,000	0
May 31.	3,956.0	2,481,000	-10,000
June 30.	3,955.8	2,474,000	-7,000
July 31.	3,955.3	2,456,000	-18,000
Aug. 31.	3,954.4	2,424,000	-32,000
Sep. 30.	3,953.5	2,393,000	-31,000
WTR YR 1980-81.	--	--	-105,000

NOTE: Monthend elevations are interpolated from readings made during the month.

WALKER LAKE BASIN

115

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, 2,650 acre-ft (3.27 hm³) June 10, elevation, 7,208.80 ft (2,197.242 m); minimum, 521 acre-ft (642,000 m³) Sept. 12, elevation, 7,201.86 ft (2,195.127 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,207.52	2,240	--
Oct. 31	7,206.59	1,940	-300
Nov. 30	7,207.13	2,110	+170
Dec. 31	7,207.30	2,170	+ 60
CAL YR 1980	--	--	- 70
Jan. 31	--	⁹ 2,130	- 40
Feb. 28	7,207.22	2,140	+ 10
Mar. 31	7,207.28	2,160	+ 20
Apr. 30	7,208.12	2,430	+270
May 31	7,208.61	2,590	+160
June 30	7,208.22	2,460	-130
July 31	7,207.13	2,110	-350
Aug. 31	7,202.74	767	-1343
Sep. 30	7,202.06	577	-190
WTR YR 1980-81	--	--	-1663

⁹ Interpolated.

WALKER LAKE BASIN

116

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, 4,730 acre-ft (5.83 hm³) June 13, elevation, 7,201.69 ft (2,195.075 m); minimum, 724 acre-ft (893,000 m³) Sept. 30, elevation unknown, contents interpolated.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,196.99	2,800	--
Oct. 31	7,197.39	2,960	+160
Nov. 30	7,197.34	2,940	-20
Dec. 31	7,199.66	3,870	+930
CAL YR 1980.	--	--	+1,020
Jan. 31	7,200.60	4,260	+390
Feb. 28	7,200.44	4,200	-60
Mar. 31	7,200.48	4,210	+10
Apr. 30	7,200.00	4,010	-200
May 31	7,199.60	3,850	-160
June 30	7,201.09	4,470	+620
July 31	7,197.79	3,120	-1,350
Aug. 31	--	91,460	-1,660
Sep. 30	--	9 724	-736
WTR YR 1980-81	--	--	-2,076

g Interpolated.

WALKER LAKE BASIN

117

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE¼ 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 elevations 6,415 ft (1,955.3 m), approximate elevation of bottom of reservoir, and 6,461 ft (1,969.3 m), crest of spillway is at elevation 6,460.75 ft (1,969.237 m), however, there are four siphons that become operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft (1,954.4 m). No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,670 acre-ft (52.6 hm³) Mar. 28, elevation, 6,460.07 ft (1,969.029 m); minimum, 3,420 acre-ft (4.22 hm³), elevation, 6,435.94 ft (1,961.674 m), Sept. 30.

Capacity table, (elevation, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23180	21440	26350	31450	36100	40770	42340	37180	33650	29330	18680	6990
2	23040	21540	26530	31600	36180	41120	42320	36960	33780	29020	18310	6770
3	22870	21640	26790	31750	36260	41290	42200	36710	33810	28720	17950	6540
4	22660	21820	27110	31870	36390	41410	42170	36500	33940	28420	17560	6320
5	22420	22150	27250	32000	36550	41490	42080	36120	34060	28100	17160	6120
6	22190	22150	27410	32160	36730	41670	41940	35830	34250	27710	16770	5930
7	21990	22340	27500	32280	36870	41910	41790	35520	34560	27320	16390	5710
8	21820	22500	27640	32410	37100	42140	41670	35250	34820	26980	15950	5540
9	21620	22710	27780	32510	37370	42340	41520	34980	35140	26570	15460	5390
10	21440	22690	27900	32640	37560	42430	41290	34690	35440	26130	14990	5250
11	21320	22870	28060	32770	37790	42460	41090	34510	35310	25690	14460	5130
12	21130	23120	28190	32940	37930	42430	40860	34300	35440	25320	13920	4990
13	20970	23310	28330	33090	38120	42430	40650	34190	35220	24920	13460	4890
14	20840	23450	28470	33250	38510	42460	40390	34040	35140	24530	12970	4760
15	20740	23600	28630	33400	38790	42460	40090	33830	35040	24200	12480	4650
16	20620	23770	28840	33550	39150	42320	39860	33650	34800	23810	12010	4630
17	20620	23940	29000	33700	39460	42230	39600	33500	34540	23410	11550	4540
18	20620	24140	29180	33860	39660	42370	39370	33270	34300	23060	11190	4440
19	20620	24300	29350	34040	39740	42400	39230	33040	33990	22690	10810	4310
20	20640	24470	29520	34220	39630	42400	39040	32990	33730	22320	10440	4220
21	20620	24680	29740	34380	39660	42460	38820	32820	33450	22070	10100	4010
22	20660	24840	29830	34610	39860	42460	38570	32670	33170	21800	9780	3930
23	20720	24990	30000	34670	39950	42460	38430	32590	32740	21480	9470	3830
24	20780	25170	30190	34740	40150	42520	38350	32510	32280	21190	9130	3730
25	20840	25390	30340	34850	40210	42490	38350	32430	31800	20880	8830	3670
26	20900	25560	30540	35040	40390	42490	37900	32410	31330	20570	8540	3620
27	20920	25690	30710	35490	40540	42580	37810	32670	30900	20270	8210	3580
28	20900	25960	30900	35670	40650	42670	37650	32870	30440	19990	7980	3530
29	20970	26130	31040	35830	---	42520	37510	33020	29980	19650	7720	3470
30	21030	26180	31210	35960	---	42550	37370	33250	29640	19350	7470	3420
31	21210	---	31350	35960	---	42580	---	33480	---	19040	7250	---
MAX	23180	26180	31350	35960	40650	42670	42340	37180	35440	29330	18680	6990
MIN	20620	21440	26350	31450	36100	40770	37370	32410	29640	19040	7250	3420
†	6451.30	6453.69	6455.91	6457.70	6459.38	6460.04	6458.22	6456.75	6455.20	6450.14	6441.13	6435.94
‡	-2120	+4970	+5170	+4610	+4690	+1930	-5210	-3890	-3840	-10600	-11790	-3830
CAL YR 1980	MAX	41730	MIN	19330	‡	+12160						
WTR YR 1981	MAX	42670	MIN	3420	‡	-19910						

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

‡ Change in contents, in acre-feet.

WALKER LAKE BASIN

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 RECORD

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.--58 years (1922-24, 1925-81), 139 ft³/s (3.936 m³/s), 100,700 acre-ft/yr (124 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, 332 ft³/s (9.40 m³/s) June 26, gage height, 2.05 ft (0.625 m); minimum daily, 8.9 ft³/s (0.25 m³/s) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	23	11	16	69	13	108	256	184	280	184	148
2	199	23	12	16	69	13	117	275	193	267	204	145
3	213	20	12	16	57	34	117	286	214	254	207	137
4	242	14	9.4	16	29	48	130	275	214	254	221	131
5	235	14	14	16	23	48	141	267	202	254	221	120
6	230	14	14	16	12	39	147	254	191	254	216	120
7	217	16	14	16	11	13	163	238	182	254	209	120
8	217	14	14	16	11	13	161	231	186	251	241	117
9	208	14	14	16	11	13	161	231	198	256	259	105
10	187	14	15	16	11	47	167	228	195	264	264	102
11	187	15	15	16	11	90	189	228	207	262	278	100
12	187	14	15	16	11	100	200	219	236	251	278	100
13	187	15	15	17	11	100	202	216	256	241	267	100
14	181	14	15	16	11	100	204	219	241	248	264	98
15	176	15	15	13	11	100	226	233	236	236	262	89
16	162	16	15	13	11	100	224	226	248	231	259	88
17	132	14	14	12	58	100	224	207	256	216	256	80
18	120	14	14	12	157	100	224	207	251	204	241	80
19	120	13	14	13	231	100	224	200	243	204	221	80
20	120	12	14	15	214	100	224	169	246	188	214	80
21	111	12	14	13	118	100	236	159	256	159	202	80
22	86	12	14	12	65	100	251	149	269	167	189	80
23	86	12	14	12	43	100	251	149	317	167	175	80
24	72	11	14	12	28	100	251	149	326	169	175	80
25	64	8.9	21	12	28	100	231	149	326	175	175	80
26	63	9.4	18	12	23	100	214	149	317	175	173	77
27	63	11	19	12	13	102	214	149	302	175	169	72
28	63	12	19	12	13	102	214	150	297	175	159	72
29	63	12	19	12	---	103	214	154	294	175	147	72
30	44	11	17	30	---	100	226	173	286	175	141	72
31	22	---	17	69	---	100	---	182	---	173	143	---
TOTAL	4455	419.3	461.4	511	1360	2378	5855	6377	7369	6754	6614	2905
MEAN	144	14.0	14.9	16.5	48.6	76.7	195	206	246	218	213	96.8
MAX	242	23	21	69	231	103	251	286	326	280	278	148
MIN	22	8.9	9.4	12	11	13	108	149	182	159	141	72
AC-FT	8840	832	915	1010	2700	4720	11610	12650	14620	13400	13120	5760
CAL YR 1980	TOTAL	91010.7	MEAN	249	MAX	1280	MIN	8.9	AC-FT	180500		
WTR YR 1981	TOTAL	45458.7	MEAN	125	MAX	326	MIN	8.9	AC-FT	90170		

WALKER LAKE BASIN

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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 1980 TO SEPTEMBER 1981

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)	HARD- NESS (MG/L AS CACO ₃)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV									
25...	1130	11	130	--	4.0	--	--	--	--
DEC									
30...	1350	18	204	--	5.0	--	--	--	--
JAN									
26...	1415	12	149	--	3.0	--	--	--	--
FEB									
24...	1430	28	170	--	4.5	--	--	--	--
APR									
*28...	1215	214	194	8.2	13.0	1.0	8.7	62	18
29...	1100	216	182	--	12.0	--	--	--	--
MAY									
14...	1135	214	189	--	15.5	--	--	--	--
26...	1300	149	187	--	12.5	--	--	--	--
JUN									
29...	1540	298	173	--	17.5	--	--	--	--
JUL									
15...	1445	235	173	--	28.5	--	--	--	--
28...	1435	176	178	--	20.5	--	--	--	--
AUG									
28...	1520	161	192	--	19.0	--	--	--	--
SEP									
*16...	1300	88	198	8.9	17.0	12	5.3	64	19

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 FIELD (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)
NOV								
25...	--	--	--	--	--	--	--	--
DEC								
30...	--	--	--	--	--	--	--	--
JAN								
26...	--	--	--	--	--	--	--	--
FEB								
24...	--	--	--	--	--	--	--	--
APR								
28...	3.9	16	.9	2.8	79	4.0	110	63.6
29...	--	--	--	--	--	--	--	--
MAY								
14...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
JUN								
29...	--	--	--	--	--	--	--	--
JUL								
15...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
AUG								
28...	--	--	--	--	--	--	--	--
SEP								
16...	3.5	16	.9	3.3	84	4.0	132	31.4

* Data from Calif. Dept. of Water Resources.

WALKER LAKE BASIN

10293050 EAST WALKER RIVER BELOW SWEETWATER CREEK, NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°26'27", long 119°06'18", in NW¼NW¼ sec.29, T.7 N., R.26 E., Lyon County, Hydrologic Unit 16050301, in Toiyabe National Forest, on left bank, 10 ft (3 m) downstream from bridge, 1.8 mi (2.9 km) downstream from Sweetwater Creek, and about 16 mi (26 km) north-northeast of Bridgeport.

DRAINAGE AREA.--467 mi² (1,210 km²).

PERIOD OF RECORD.--March 1974 to September 1981 (discontinued).

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

REMARKS.--Records fair Oct. 1 to Mar. 12, good, Mar. 13 to Sept. 30. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--7 years (1975-81), 152 ft³/s (4.305 m³/s), 110,100 acre-ft/yr (136 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft³/s (40.2 m³/s) July 3, 1980, gage height, 7.90 ft (2.408 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Mar. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 310 ft³/s (8.78 m³/s) June 24, gage height, 5.29 ft (1.612 m); minimum daily, 18 ft³/s (0.51 m³/s) Jan. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	41	23	26	73	25	106	252	169	268	160	137
2	216	41	24	28	78	24	118	263	180	255	183	132
3	226	41	26	24	74	30	118	278	208	247	184	125
4	265	36	25	24	42	56	125	275	209	247	195	124
5	252	35	26	23	41	56	140	263	201	247	191	114
6	252	34	26	24	26	56	142	258	186	241	191	118
7	235	30	25	26	25	28	172	249	176	238	185	118
8	235	28	25	28	20	24	173	244	178	238	205	118
9	229	28	26	28	20	24	171	247	186	238	235	103
10	204	30	28	26	20	36	172	248	184	250	244	97
11	204	33	28	28	20	90	189	248	190	252	257	94
12	204	33	28	26	20	111	204	235	218	244	264	94
13	204	30	28	26	21	112	204	225	242	247	253	97
14	202	30	28	25	33	113	204	224	236	241	254	97
15	196	30	28	21	26	112	225	237	227	232	251	90
16	184	26	28	19	25	113	225	236	236	229	249	90
17	158	27	27	19	37	111	224	214	246	213	237	85
18	140	27	25	19	175	109	224	212	247	202	234	82
19	140	25	25	19	256	115	225	204	235	202	220	82
20	140	24	25	19	271	113	221	174	235	190	210	79
21	134	24	25	20	172	113	231	164	245	145	200	79
22	111	23	25	19	80	113	251	153	250	147	190	81
23	109	20	25	19	71	113	253	150	292	150	180	80
24	100	20	25	18	38	115	251	154	304	150	175	80
25	88	19	26	18	37	113	236	160	301	158	170	81
26	86	22	28	19	37	106	214	159	297	155	170	79
27	86	24	29	23	25	104	210	153	284	155	170	73
28	82	24	29	22	25	106	209	143	278	153	160	73
29	84	24	29	20	---	109	209	142	276	157	144	73
30	80	23	24	26	---	106	214	159	271	158	138	72
31	44	---	26	71	---	106	---	171	---	156	134	---
TOTAL	5109	852	815	753	1788	2662	5860	6494	6987	6405	6233	2847
MEAN	165	28.4	26.3	24.3	63.9	85.9	195	209	233	207	201	94.9
MAX	265	41	29	71	271	115	253	278	304	268	264	137
MIN	44	19	23	18	20	24	106	142	169	145	134	72
AC-FT	10130	1690	1620	1490	3550	5280	11620	12880	13860	12700	12360	5650
CAL YR 1980	TOTAL	96906	MEAN 265	MAX 1340	MIN 19	AC-FT 192200						
WTR YR 1981	TOTAL	46805	MEAN 128	MAX 304	MIN 18	AC-FT 92840						

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 fair. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

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, 249 ft³/s (7.05 m³/s) gage height, 3.50 ft (1.067 m); minimum daily during period of operation, 59 ft³/s (1.67 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							87	182	136	219	113	95
2							96	202	131	212	120	95
3							102	229	138	202	135	96
4							100	242	159	189	136	92
5							105	227	170	186	145	84
6							116	214	158	193	143	77
7							118	207	147	186	146	79
8							133	193	137	184	145	83
9							132	186	135	186	165	87
10							128	186	137	178	191	76
11							132	191	134	181	199	73
12							146	186	139	188	213	68
13							160	176	163	183	213	65
14							158	182	189	186	211	67
15							167	175	175	189	219	72
16							179	191	171	189	214	78
17							192	188	176	182	211	77
18							196	171	180	172	214	77
19							198	175	177	165	203	75
20							195	179	165	165	173	72
21							193	148	164	150	161	70
22							198	141	173	126	155	70
23							209	119	178	118	139	70
24							214	115	216	113	127	70
25							214	119	235	113	121	71
26							202	123	239	115	116	70
27							193	127	230	114	116	69
28							173	123	218	115	115	65
29							162	111	218	124	109	63
30							158	108	225	128	103	59
31							---	118	---	122	99	---
TOTAL							4756	5234	5213	5073	4870	2265
MEAN							159	169	174	164	157	75.5
MAX							214	242	239	219	219	96
MIN							87	108	131	113	99	59
AC-FT							9430	10380	10340	10060	9660	4490

WALKER LAKE BASIN

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38" (revised), in NW1/4 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 and period of no gage height record, Mar. 1 to April 27, 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.--37 years (1944-81) 50.4 ft³/s (1.427 m³/s), 36,510 acre-ft/yr (45.0 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.--Maximum discharge, 193 ft³/s (5.47 m³/s) June 5, gage height 1.74 ft (0.530 m), no peak above base of 200 ft³/s (5.66 m³/s); minimum daily, 6.7 ft³/s (0.19 m³/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	24	21	21	13	21	28	102	126	53	9.9	7.1
2	26	24	21	23	13	22	28	106	130	46	9.1	6.9
3	26	25	24	19	14	21	27	92	122	42	9.8	6.7
4	26	26	23	18	14	21	27	83	129	38	11	6.9
5	25	25	21	17	15	20	27	75	142	36	9.9	7.0
6	25	25	20	17	15	20	27	66	148	36	9.1	8.2
7	26	24	19	17	16	20	28	61	136	36	8.8	8.3
8	26	23	18	17	16	20	28	61	142	32	8.2	12
9	26	22	18	17	17	21	29	68	141	30	8.9	13
10	25	23	19	17	17	22	29	79	123	27	8.7	15
11	25	31	20	17	17	22	30	86	110	26	10	13
12	33	26	20	17	18	21	30	93	95	23	9.5	13
13	29	23	20	17	19	22	30	100	80	22	9.2	16
14	29	24	20	18	42	21	31	105	73	20	10	15
15	29	23	21	17	34	21	31	90	68	21	8.1	13
16	28	29	21	16	30	21	38	77	66	17	8.7	12
17	28	27	21	16	30	20	39	69	65	16	14	12
18	28	26	21	16	29	22	39	72	63	18	14	13
19	27	25	20	16	33	23	36	67	62	18	10	11
20	27	26	20	17	26	21	31	58	62	15	8.8	10
21	28	28	21	16	24	25	34	53	59	15	8.0	10
22	27	22	22	17	24	27	48	53	57	14	8.0	10
23	27	22	22	16	23	26	60	56	56	14	7.4	11
24	26	20	19	15	19	24	72	64	52	13	7.8	11
25	26	19	22	15	22	28	70	83	51	13	9.7	15
26	26	19	22	15	19	28	60	88	50	13	7.9	13
27	26	19	22	15	20	27	49	105	46	13	7.6	12
28	25	20	20	15	20	27	53	100	47	11	8.1	11
29	25	20	20	14	---	27	70	107	44	13	7.6	12
30	26	19	21	14	---	27	87	118	58	12	7.1	12
31	25	---	22	14	---	27	---	121	---	11	7.1	---
TOTAL	828	709	641	516	599	715	1216	2558	2603	714	282.0	336.1
MEAN	26.7	23.6	20.7	16.6	21.4	23.1	40.5	82.5	86.8	23.0	9.10	11.2
MAX	33	31	24	23	42	28	87	121	148	53	14	16
MIN	25	19	18	14	13	20	27	53	44	11	7.1	6.7
AC-FT	1640	1410	1270	1020	1190	1420	2410	5070	5160	1420	559	667

CAL YR 1980 TOTAL 29927.0 MEAN 81.8 MAX 454 MIN 13 AC-FT 59360
WTR YR 1981 TOTAL 11717.1 MEAN 32.1 MAX 148 MIN 6.7 AC-FT 23240

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.--43 years, 254 ft³/s (7.193 m³/s), 184,000 acre-ft/yr (227 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.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) June 5 (2300 hrs), gage height 3.83 ft (1.167 m), no other peak above base of 1,120 ft³/s (31.7 m³/s); minimum daily, 26 ft³/s (0.74 m³/s) Feb. 3, 4, Sept. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	60	47	47	27	63	83	916	771	228	55	37
2	72	60	53	49	27	65	84	903	820	187	53	36
3	72	60	60	50	26	64	80	713	729	173	52	33
4	71	59	63	48	26	63	78	572	747	160	53	31
5	71	59	51	44	27	61	85	508	866	149	52	29
6	68	57	40	43	28	61	104	450	902	155	49	28
7	68	56	39	46	28	60	118	416	798	155	48	28
8	67	55	40	47	28	61	125	426	779	139	47	30
9	66	52	42	53	30	62	145	514	804	123	46	32
10	64	53	42	49	30	65	169	616	673	112	48	33
11	63	73	44	47	35	66	165	652	558	103	49	31
12	81	67	45	44	38	64	161	675	469	95	48	31
13	83	57	48	43	52	66	174	712	367	89	49	35
14	79	54	49	41	109	64	202	767	304	85	56	37
15	79	61	51	42	95	64	252	581	270	93	48	34
16	77	56	53	42	85	64	314	432	280	91	48	30
17	76	67	54	39	93	62	325	368	301	89	52	30
18	75	57	55	41	88	64	328	405	297	90	54	34
19	75	55	55	41	98	71	300	380	303	87	47	30
20	73	52	52	38	88	63	249	323	321	80	45	28
21	73	54	52	40	74	77	273	290	310	75	45	27
22	72	56	50	41	75	83	407	308	293	73	44	26
23	71	54	50	40	75	78	549	357	278	70	43	26
24	69	46	50	36	71	73	699	478	248	68	42	26
25	67	45	53	35	66	84	680	630	235	65	43	31
26	67	46	55	49	63	85	540	622	217	65	41	29
27	67	47	57	48	61	83	406	663	207	64	40	29
28	64	47	54	32	61	85	427	722	199	60	42	27
29	61	47	50	31	---	91	613	732	190	61	40	27
30	63	47	49	30	---	82	800	845	251	59	39	27
31	62	---	48	29	---	81	---	816	---	58	38	---
TOTAL	2189	1659	1551	1305	1604	2175	8935	17792	13787	3201	1456	912
MEAN	70.6	55.3	50.0	42.1	57.3	70.2	298	574	460	103	47.0	30.4
MAX	83	73	63	53	109	91	800	916	902	228	56	37
MIN	61	45	39	29	26	60	78	290	190	58	38	26
AC-FT	4340	3290	3080	2590	3180	4310	17720	35290	27350	6350	2890	1810
CAL YR 1980	TOTAL	139770	MEAN 382	MAX 2380	MIN 39	AC-FT 277200						
WTR YR 1981	TOTAL	56566	MEAN 155	MAX 916	MIN 26	AC-FT 112200						

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 1980 TO SEPTEMBER 1981*

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
APR 28...	1130	388	49	7.6	6.5	2.0	10.0	19	5.7
SEP 16...	1215	41	307	8.3	15.5	1.0	8.4	59	17

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- LILITY FIELD (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)
APR 28...	1.3	2.3	.2	.6	20	.5	28	29.3
SEP 16...	4.0	42	2.3	4.2	114	19	192	21.3

* Data from Calif. Dept. of Water Resources.

WALKER LAKE BASIN

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10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 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 period of no gage height record, Oct. 2 to Nov. 24, 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.--52 years (1902-7, 1909-10, 1915-37, 1957-81), 271 ft³/s (7.675 m³/s), 196,300 acre-ft/yr (242 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.--Maximum discharge, 1,170 ft³/s (33.1 m³/s) June 6 (0200 hrs) gage height 2.93 ft (0.893 m), no other peak above base of 1,120 ft³/s (31.7 m³/s); minimum daily, 33 ft³/s (0.93 m³/s) Sept. 5-8, 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	70	56	62	35	86	102	886	767	272	70	43
2	83	68	66	64	35	89	101	892	845	213	68	42
3	83	69	68	68	34	85	97	702	751	198	65	39
4	82	69	89	65	34	82	93	540	749	184	66	36
5	81	69	61	58	35	81	96	475	869	171	64	33
6	80	67	52	55	37	80	113	425	947	169	61	33
7	78	65	50	59	37	80	130	402	831	176	59	33
8	78	64	52	55	37	80	138	401	799	159	59	33
9	76	62	54	59	39	81	158	469	834	140	58	38
10	76	62	54	58	39	83	185	576	703	125	58	39
11	74	82	56	57	45	84	187	624	564	116	59	38
12	94	76	58	61	50	84	177	644	471	108	59	39
13	96	66	62	58	70	86	188	683	378	102	57	42
14	91	62	64	56	118	84	209	762	312	98	64	49
15	90	70	66	57	114	83	250	564	283	108	58	44
16	89	66	69	57	103	84	322	420	284	109	56	41
17	88	76	70	54	112	79	339	359	302	107	58	41
18	86	66	72	56	107	85	340	396	298	106	63	44
19	85	64	70	54	113	91	323	380	301	103	56	38
20	84	61	68	51	113	81	271	326	318	95	53	35
21	84	62	67	54	92	91	275	297	313	92	53	35
22	83	64	65	54	95	96	383	304	295	89	53	33
23	81	62	65	54	97	98	495	339	285	86	49	33
24	80	60	67	49	92	91	667	441	263	84	47	33
25	78	58	68	46	87	100	683	603	251	80	48	39
26	77	60	71	52	84	103	534	619	236	80	46	41
27	77	60	73	68	81	102	402	649	226	79	45	39
28	75	60	71	47	82	100	401	712	215	75	47	38
29	75	60	66	40	---	109	560	716	213	75	45	36
30	74	60	65	39	---	100	756	839	249	74	44	36
31	72	---	63	38	---	99	---	834	---	73	44	---
TOTAL	2534	1960	1998	1705	2017	2757	8975	17279	14152	3746	1732	1143
MEAN	81.7	65.3	64.5	55.0	72.0	88.9	299	557	472	121	55.9	38.1
MAX	96	82	89	68	118	109	756	892	947	272	70	49
MIN	72	58	50	38	34	79	93	297	213	73	44	33
AC-FT	5030	3890	3960	3380	4000	5470	17800	34270	28070	7430	3440	2270
CAL YR 1980	TOTAL	148079	MEAN 405	MAX 2310	MIN 50	AC-FT 293700						
WTR YR 1981	TOTAL	59998	MEAN 164	MAX 947	MIN 33	AC-FT 119000						

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 elevations 4,967.68 ft (1,514.13 m) lowest practical elevation for diversion through tunnel (bottom of outlet tunnel at elevation, 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.--Elevations furnished by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft (74.8 hm³) July 3, 1980, elevation, 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, 52,030 acre-ft (64.2 hm³) June 12, elevation, 4,997.08 ft (1,523.110 m). Minimum contents observed 6,860 acre-ft (8.46 hm³) Sept. 30.

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

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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24500	19800	24420	29360	34420	41370	47660	44380	45800	43080	27120	12930
2	24220	19990	24540	29530	34580	41610	47600	44840	46410	42570	26550	12550
3	23940	20190	24730	29690	34760	41940	47580	45430	47200	42040	25970	12200
4	23670	20430	24980	29860	34970	42200	47490	45570	47790	41510	25420	11840
5	23360	20660	25190	30020	35170	42470	47390	45450	48390	40910	24920	11500
6	23100	20850	25310	30180	35410	42670	47280	45070	49080	40320	24400	11180
7	22860	21070	25470	30340	35620	42940	47150	44630	49980	39590	23960	10890
8	22610	21290	25590	30500	35860	43170	47010	44240	50630	39070	23410	10630
9	22360	21490	25690	30620	36120	43390	46810	43780	51130	38560	22900	10360
10	22100	21660	25790	30780	36370	43620	46670	43560	51700	37960	22390	10100
11	21760	21880	25930	30920	36580	43850	46520	43540	51960	37340	21850	9870
12	21420	22060	26050	31070	36840	44070	46330	43640	52030	36710	21290	9620
13	21080	22250	26190	31240	37110	44300	46100	43740	51740	36200	20760	9480
14	20800	22390	26350	31390	37380	44530	45720	43870	51480	35500	20280	9330
15	20630	22510	26480	31550	37730	44780	45430	44050	51200	34950	19790	9140
16	20520	22640	26570	31690	38060	44970	45070	43890	50850	34420	19250	9010
17	20410	22760	26780	31870	38370	45180	44930	43430	50460	33910	18870	8980
18	20310	22920	26950	32020	38660	45380	44680	42980	50220	33420	18420	8690
19	20220	23050	27120	32160	38980	45640	44570	42570	49720	32950	18000	8500
20	20140	23170	27300	32280	39250	45970	44430	42200	49310	32440	17570	8310
21	20060	23310	27450	32420	39530	46200	44160	41900	48900	32050	17170	8120
22	19990	23440	27610	32570	39790	46410	43870	41590	48560	31650	16800	8020
23	19920	23560	27820	32730	40030	46670	43800	41370	48030	31240	16450	7830
24	19860	23680	27960	32860	40280	46860	44090	41290	47340	30820	15940	7680
25	19820	23800	28130	32960	40490	46980	44590	41450	46690	30450	15650	7530
26	19770	23890	28310	33070	40730	47200	44930	41920	46140	30060	15250	7380
27	19740	24010	28500	33290	40950	47320	44780	42470	45510	29620	14740	7290
28	19690	24130	28680	33630	41150	47410	44340	42960	44800	29180	14410	7160
29	19650	24300	28870	33870	---	47540	43970	43680	44220	28690	14050	7040
30	19690	24330	29040	34110	---	47580	43950	44320	43560	28170	13680	6860
31	19690	---	29200	34230	---	47620	---	45160	---	27630	13290	---
MAX	24500	24330	29200	34230	41150	47620	47660	45570	52030	43080	27120	12930
MIN	19650	19800	24420	29360	34420	41370	43800	41290	43560	27630	13290	6860
†	4979.95	4982.70	4985.51	4988.33	4991.92	4995.04	4993.29	4993.87	4993.10	4984.61	4976.09	4972.09
‡	-5090	+4640	+4870	+5030	+6920	+6470	-3670	+1210	-1600	-15930	-14340	-6430

CAL YR 1980 MAX 60680 MIN 17950 † +11670
WTR YR 1981 MAX 52030 MIN 6860 ‡ -17920

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

WALKER LAKE BASIN

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

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft (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), revised.

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.--34 years (1920-23, 1925-32, 1957-81), 233 ft³/s (6.599 m³/s), 168,800 acre-ft/yr (208 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, 512 ft³/s (14.5 m³/s) May 13, gage height, 4.61 ft (1.405 m); minimum 7.1 ft³/s (0.20 m³/s) Nov. 8, Feb. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	32	48	24	16	8.4	128	497	361	354	251	175
2	200	24	47	24	10	9.4	137	485	350	349	269	176
3	201	21	48	24	9.1	9.0	138	487	339	323	265	172
4	200	12	49	24	9.0	9.3	150	482	371	320	261	163
5	199	10	43	24	8.9	9.3	152	487	397	318	245	155
6	195	9.1	42	23	8.8	9.1	167	484	400	320	242	145
7	177	8.1	42	23	8.8	8.6	168	484	400	299	235	138
8	177	7.6	42	24	8.8	8.6	189	480	402	260	255	135
9	187	7.7	41	23	8.8	8.4	189	459	423	263	255	129
10	209	16	41	23	8.8	8.5	189	446	373	283	249	126
11	209	30	41	23	8.8	8.5	190	461	400	274	257	113
12	211	42	41	23	8.9	8.2	201	481	390	258	273	103
13	217	46	42	23	8.9	8.2	209	505	367	258	247	101
14	196	46	42	24	8.9	8.5	250	493	333	280	237	99
15	182	47	42	24	8.9	8.5	265	501	330	275	226	92
16	162	47	42	24	8.9	8.3	285	490	342	256	222	89
17	157	47	40	24	8.9	8.5	287	483	347	241	220	91
18	155	47	36	24	8.9	8.6	288	478	350	232	222	90
19	154	47	36	24	8.9	9.5	287	452	349	230	203	87
20	153	47	36	24	8.9	8.7	300	399	363	220	191	86
21	149	48	36	23	8.7	8.6	311	350	367	194	184	86
22	136	48	34	23	8.6	8.5	322	312	375	193	180	86
23	134	48	29	24	8.1	10	319	288	383	196	182	89
24	130	48	27	24	7.4	36	335	284	397	179	183	85
25	124	48	28	25	8.0	62	372	285	408	183	176	81
26	123	49	28	27	8.0	66	416	302	386	200	178	76
27	123	49	28	29	8.3	69	469	305	372	211	167	74
28	123	49	28	27	8.3	87	483	310	371	222	165	73
29	118	49	28	26	---	100	482	327	378	239	178	73
30	111	47	28	26	---	101	485	368	356	243	179	72
31	106	---	27	26	---	110	---	360	---	259	172	---
TOTAL	5127	1076.5	1162	753	251.3	832.2	8163	13025	11180	7932	6769	3260
MEAN	165	35.9	37.5	24.3	8.98	26.8	272	420	373	256	218	109
MAX	217	49	49	29	16	110	485	505	423	354	273	176
MIN	106	7.6	27	23	7.4	8.2	128	284	330	179	165	72
AC-FT	10170	2140	2300	1490	498	1650	16190	25840	22180	15730	13430	6470
CAL YR 1980	TOTAL	145559.5	MEAN	398	MAX	1850	MIN	7.6	AC-FT	288700		
WTR YR 1981	TOTAL	59531.0	MEAN	163	MAX	505	MIN	7.4	AC-FT	118100		

WALKER LAKE BASIN

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi (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. 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, 340 ft³/s (9.63 m³/s) May 4, gage height, 2.25 ft (0.686 m); minimum daily during period of operation, 45 ft³/s (1.27 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							118	309	219	198	139	104
2							136	309	220	214	150	107
3							137	331	210	192	157	107
4							136	324	221	180	150	95
5							141	313	245	177	140	92
6							152	320	241	173	152	78
7							192	318	246	157	143	72
8							202	314	247	150	144	66
9							200	306	272	156	138	68
10							190	305	264	169	135	81
11							185	298	264	163	147	83
12							190	291	263	143	159	82
13							200	307	248	143	160	76
14							205	299	223	164	141	72
15							200	317	222	170	135	69
16							200	308	224	150	147	66
17							193	310	225	145	149	58
18							191	316	230	134	138	52
19							187	316	231	116	111	47
20							191	312	238	118	87	45
21							180	299	236	103	75	48
22							201	257	255	91	76	51
23							199	221	264	93	72	63
24							208	212	278	87	78	63
25							215	200	283	96	83	64
26							260	212	264	108	98	67
27							286	219	254	123	98	73
28							279	205	249	131	107	73
29							291	205	247	140	108	75
30							298	226	214	133	104	75
31							---	219	---	144	102	---
TOTAL							5963	8698	7297	4461	3823	2172
MEAN							199	281	243	144	123	72.4
MAX							298	331	283	214	160	107
MIN							118	200	210	87	72	45
AC-FT							11830	17250	14470	8850	7580	4310

WALKER LAKE BASIN

10300600 WALKER RIVER NEAR MASON, NV

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LOCATION.--Lat 38°55'11", long 119°11'20", in SW¼ 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, Feb. 19 to Mar. 9, 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.--7 years, 215 ft³/s (6.089 m³/s), 155,800 acre-ft/yr (192 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, 400 ft³/s (11.3 m³/s) May 3, gage height, 5.80 ft (1.768 m); minimum daily, 65 ft³/s (1.84 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	163	104	81	86	79	157	308	207	198	134	142
2	222	132	101	81	104	85	168	320	212	205	144	138
3	207	122	92	84	115	90	183	370	217	210	161	136
4	202	115	108	86	108	84	174	370	202	200	152	124
5	227	106	117	82	108	86	179	335	243	188	138	132
6	222	102	108	89	90	90	183	335	251	183	144	117
7	202	104	104	92	89	94	195	335	251	165	152	117
8	186	104	92	86	87	89	220	329	248	146	157	111
9	181	104	84	87	90	94	212	329	257	142	159	119
10	179	95	90	86	87	89	186	329	259	142	161	126
11	179	95	94	90	84	87	183	317	257	161	150	119
12	179	106	95	84	81	97	193	305	262	159	148	122
13	190	104	101	82	76	138	217	302	254	168	150	115
14	193	104	97	81	75	152	225	299	248	186	144	106
15	193	108	95	86	75	150	198	308	262	200	144	97
16	200	108	94	90	78	150	198	311	254	193	154	92
17	205	109	95	87	81	146	202	323	257	193	161	94
18	215	108	101	82	82	144	215	326	262	205	177	90
19	217	113	90	82	82	146	225	335	257	190	168	81
20	225	117	89	79	120	146	222	357	254	163	136	73
21	222	117	87	75	180	144	198	348	246	150	117	66
22	200	117	89	73	190	144	215	302	254	120	119	65
23	190	113	87	73	140	142	230	251	265	101	117	79
24	193	113	84	76	105	144	259	225	293	97	104	86
25	183	113	86	82	90	144	259	210	293	106	95	81
26	163	109	87	79	82	159	285	227	296	120	95	87
27	148	104	89	81	76	159	302	243	299	136	106	99
28	150	102	90	87	73	152	285	217	287	144	124	99
29	161	106	90	95	---	152	296	193	268	146	136	95
30	165	106	84	90	---	155	290	210	227	146	136	90
31	181	---	86	86	---	152	---	207	---	138	140	---
TOTAL	6018	3319	2910	2594	2734	3883	6554	9176	7642	5001	4323	3098
MEAN	194	111	93.9	83.7	97.6	125	218	296	255	161	139	103
MAX	238	163	117	95	190	159	302	370	299	210	177	142
MIN	148	95	84	73	73	79	157	193	202	97	95	65
AC-FT	11940	6580	5770	5150	5420	7700	13000	18200	15160	9920	8570	6140
CAL YR 1980	TOTAL	165594	MEAN 452	MAX 2180	MIN 65	AC-FT 328500						
WTR YR 1981	TOTAL	57252	MEAN 157	MAX 370	MIN 65	AC-FT 113600						

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 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.--56 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-81), 155 ft³/s (4.390 m³/s), 112,300 acre-ft/yr (138 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, 258 ft³/s (7.31 m³/s) Feb. 21 gage height, 4.80 ft (1.463 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	181	109	94	98	79	92	92	124	51	21	21
2	144	156	92	95	102	80	102	100	104	48	19	22
3	104	124	105	100	122	98	102	130	102	65	24	21
4	96	111	113	101	139	96	82	185	90	53	22	32
5	134	109	137	109	129	87	64	141	82	54	17	36
6	149	102	142	110	118	90	65	101	111	51	16	24
7	147	100	129	108	103	100	69	102	76	55	21	17
8	121	118	110	103	103	97	90	107	78	56	29	33
9	113	118	103	90	104	84	102	115	59	50	27	32
10	129	111	105	97	105	58	92	124	84	38	29	33
11	134	106	122	97	101	54	71	125	93	25	51	32
12	135	117	129	99	97	55	68	111	78	30	54	30
13	144	124	133	103	98	70	74	108	67	26	40	42
14	152	127	131	100	94	77	77	121	62	27	32	41
15	178	122	128	97	94	77	88	117	73	45	32	31
16	191	123	105	105	94	74	82	125	72	48	42	25
17	210	120	114	102	98	90	81	137	75	50	46	21
18	227	121	121	93	97	94	102	140	75	53	49	28
19	217	123	124	92	99	75	154	155	86	75	65	29
20	219	131	120	92	138	60	155	225	74	54	41	21
21	224	130	118	91	229	59	116	220	55	30	37	20
22	201	128	119	94	232	55	91	200	62	34	37	20
23	172	126	123	95	181	53	97	190	44	27	36	25
24	171	126	117	90	132	48	106	185	49	21	30	35
25	175	118	112	90	121	50	108	180	70	19	21	39
26	151	115	109	97	104	50	106	175	78	25	17	40
27	135	110	105	102	100	80	129	175	73	30	18	30
28	135	100	106	108	82	90	113	177	83	34	27	34
29	145	107	100	108	---	90	83	148	70	44	35	28
30	158	114	95	109	---	77	96	128	50	47	33	17
31	172	---	95	102	---	82	---	142	---	28	26	---
TOTAL	4963	3618	3571	3073	3314	2329	2857	4481	2299	1293	994	859
MEAN	160	121	115	99.1	118	75.1	95.2	145	76.6	41.7	32.1	28.6
MAX	227	181	142	110	232	100	155	225	124	75	65	42
MIN	96	100	92	90	82	48	64	92	44	19	16	17
AC-FT	9840	7180	7080	6100	6570	4620	5670	8890	4560	2560	1970	1700
CAL YR 1980	TOTAL	129712	MEAN	354	MAX	2190	MIN	67	AC-FT	257300		
WTR YR 1981	TOTAL	33651	MEAN	92.2	MAX	232	MIN	16	AC-FT	66750		

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 current year, monthly.

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

BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to current year, monthly.

WATER TEMPERATURES: February 1960 to September 1963, occasional; October 1963 to September 1968, monthly;

October 1968 to September 1976, once daily; October 1976 to current year, monthly.

SEDIMENT DATA: October 1973 to current year, monthly.

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. Geol. Survey office, Carson City, NV.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 792 micromhos Dec. 12, 1972; minimum, 183 micromhos June 26, 1969.

PHYTOPLANKTON: Maximum, 120,000 cells/mL Mar. 27, 1975; minimum, 220 cells/mL Sept. 24, 1979.

FECAL STREPTOCOCCI: Maximum, 1,700 colonies/100 mL (non-ideal colony count) Jan. 17, 1979; 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 1980 TO SEPTEMBER 1981

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 (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)
OCT 27...	1315	133	498	8.7	11.5	1.0	10.3	108	14	K20	100
NOV 18...	1325	122	613	8.5	6.5	4.2	11.6	108	25	K8	50
DEC 16...	1520	105	584	8.2	--	15	11.0	--	15	K14	190
JAN 15...	1300	99	582	8.5	5.0	1.6	11.0	101	10	K3	120
MAR 31...	1400	82	630	8.5	13.0	21	9.2	102	22	K20	360
APR 29...	1330	82	510	--	22.0	19	8.8	116	56	K30	170
MAY 18...	1000	143	443	8.2	14.5	7.7	7.9	91	18	140	360
JUN 10...	1200	88	448	8.8	23.0	23	8.2	111	19	160	190
JUL 15...	1015	45	400	--	20.0	8.4	7.2	92	30	240	310
AUG 12...	1100	68	314	7.9	22.0	13	7.9	105	44	140	250
SEP 17...	1010	20	403	8.4	19.0	5.5	8.5	105	33	320	200

K: NON-IDEAL COLONY COUNT.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 27...	130	38	9.0	60	2.3	5.6	190	16	170	60	15
NOV 18...	150	41	11	73	2.6	7.1	240	5	200	80	21
DEC 16...	170	48	11	65	2.2	5.6	240	0	190	81	26
JAN 15...	160	47	11	68	2.3	4.4	220	3	210	86	22
MAR 31...	160	44	11	84	2.9	5.7	--	--	--	81	22
APR 29...	140	42	9.5	56	2.0	5.2	--	--	--	67	18
MAY 18...	120	36	8.4	49	1.9	5.4	180	0	150	60	15
JUN 10...	120	35	8.2	48	1.9	5.0	170	7	150	53	17
JUL 15...	120	35	8.3	48	1.9	5.1	--	--	--	59	19
AUG 12...	100	30	7.1	31	1.3	4.3	150	0	120	36	9.6
SEP 17...	120	34	8.1	43	1.8	4.9	190	2	160	46	13

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 27...	.7	23	312	322	112	2	.23	.000	.16	.110
NOV 18...	.8	23	382	378	126	1	.18	.010	.20	.060
DEC 16...	.8	29	376	390	107	25	.64	.020	.65	.080
JAN 15...	.9	30	382	384	102	23	.58	.010	.55	.080
MAR 31...	1.1	24	410	379	90.8	32	.13	.020	.16	.060
APR 29...	.6	20	337	322	74.6	31	.12	.020	.18	.110
MAY 18...	.6	16	284	281	110	58	.07	.010	.09	.200
JUN 10...	.7	18	--	282	--	38	.08	.000	--	.080
JUL 15...	.5	24	274	287	33.3	18	.05	.010	.04	.070
AUG 12...	.5	21	218	212	40.0	21	.10	.010	.11	.090
SEP 17...	.6	24	269	270	14.5	15	.09	.010	.10	<.060

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 27...	.060	--	1.3	--	1.6	.110	.080	7.0	--	--
NOV 18...	.030	1.0	.97	1.3	1.2	.110	.110	4.0	--	--
DEC 16...	.080	.71	.42	1.5	1.2	.130	.100	--	10	.9
JAN 15...	.070	.55	.53	1.2	1.2	.120	.060	11	--	--
MAR 31...	.070	1.1	.68	1.4	.91	.190	.180	--	8.1	.6
APR 29...	.050	1.1	1.1	1.3	1.3	.250	.130	10	--	--
MAY 18...	.190	1.0	.76	1.3	1.0	.240	.150	7.3	--	--
JUN 10...	.100	.82	.67	.98	--	.270	.170	--	3.2	.5
JUL 15...	.070	.74	.71	.87	.82	.160	.130	3.7	--	--
AUG 12...	.100	.89	.39	1.1	.60	.210	.110	--	4.0	.6
SEP 17...	<.060	.88	.49	1.0	.66	.110	.070	3.4	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible][illegible][illegible]

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
NOV 18...	1325	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)
NOV 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
OCT 27...	1315	57	20
NOV 18...	1325	40	13
DEC 16...	1520	108	31
JAN 15...	1300	50	13
MAR 31...	1400	63	14
APR 29...	1330	62	14
MAY 18...	1000	100	39
JUN 10...	1200	71	17
JUL 15...	1015	28	3.4
AUG 12...	1100	55	10
SEP 17...	1010	22	1.2

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 18,80	MAR 31,81	MAY 18,81	JUN 10,81
TIME	1325	1400	1000	1200
TOTAL CELLS/ML	390	2000	980	1300
DIVERSITY: DIVISION	0.2	0.9	0.8	1.3
...CLASS	0.2	0.9	0.8	1.3
...ORDER	2.1	3.0	2.4	2.4
...FAMILY	2.2	3.2	2.6	2.4
...GENUS	2.7	3.4	3.4	2.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	71	4	--	-	--	-
....COCCONEIS	--	-	180	9	13	1	26	2
..BACILLARIALES								
...NITZSCHIACEAE								
....NITZSCHIA	140#	37	370#	19	100	11	190#	15
...EPITHEMIALES								
...EPITHEMIA	--	-	36	2	--	-	--	-
...EUPODISCALES								
...COSCIDINISCALES								
....CYCLOTELLA	52	13	210	11	--	-	64	5
....MELOSIRA	77#	20	--	-	280#	29	90	7
....STEPHANODISCUS	--	-	--	-	77	8	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	120	12	--	-
....DIATOMA	26	7	18	1	100	11	--	-
....FRAGILARIA	--	-	--	-	52	5	210#	16
....SYNEDRA	13	3	--	-	13	1	26	2
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	-	18	1	--	-	--	-
....CYMBELLA	--	-	71	4	13	1	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	26	7	18	1	13	1	--	-
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	26	7	340#	17	26	3	64	5
..SURIPELLALES								
...SURIPELLACEAE								
....SURIPELLA	13	3	340#	17	--	-	13	1
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	--	-	18	1	--	-	--	-
...COCCOMYXACEAE								
....ELAKATOTHRIS	--	-	--	-	26	3	--	-
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	--	-	13	1	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	26	2
....OOCYSTIS	--	-	--	-	52	5	--	-
....QUADRIGULA	--	-	--	-	--	-	51	4
....SELENASTRUM	13	3	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	53	3	26	3	--	-
...VOLVOCAEAE								
....EUDORINA	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....EUASTRUM	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	18	1	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	18	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

(CONTINUED)

DATE TIME	NOV 18,80 1325		MAR 31,81 1400		MAY 18,81 1000		JUN 10,81 1200	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	18	1	52	5	--	-
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	500#	40
....ANABAENOPSIS	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	200	10	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	18	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 15,81	AUG 12,81	SEP 17,81
TIME	1015	1100	1010
TOTAL CELLS/ML	5100	1600	1400
DIVERSITY: DIVISION	1.0	1.4	1.0
..CLASS	1.0	1.4	1.0
..ORDER	2.3	2.3	1.5
...FAMILY	2.3	2.6	1.5
....GENUS	3.0	2.7	1.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	*	0	--	-	--	-
..BACILLARIALES						
...NITZSCHIA	300	6	110	7	150	11
...NITZSCHIA						
...EPITHEMIALES						
...EPITHEMIALES						
....EPITHEMIA	--	-	--	-	--	-
...EUPODISCALES						
...COSCINODISCALES						
....CYCLOTELLA	90	2	69	4	14	1
....MELOSIRA	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-
..FRAGILARIALES						
...FRAGILARIALES						
....ASTERIONELLA	--	-	--	-	--	-
....DIATOMA	--	-	--	-	--	-
....FRAGILARIA	--	-	42	3	420#	29
....SYNEDRA	*	0	--	-	--	-
..NAVICULALES						
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	--	-
....CYMBELLA	*	0	--	-	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....GYROSIGMA	--	-	14	1	--	-
....NAVICULA	39	1	69	4	14	1
..SURIRELLALES						
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....SCHROEDERIA	*	0	69	4	14	1
...COCCOMYXACEAE						
....ELAKATOTHRIX	--	-	--	-	--	-
...DICTYOSPHAERIACEAE						
...DICTYOSPHAERIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	39	1	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-
....QUADRIGULA	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	240	15	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	83	5	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	--	-
...VOLVOCAEAE						
....EUDORINA	410	8	--	-	--	-
....PANDORINA	210	4	--	-	--	-
...ZYGNEMATALES						
...DESMIDIACEAE						
....EUASTRUM	*	0	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

(CONTINUED)

DATE TIME	JUL 15,81 1015		AUG 12,81 1100		SEP 17,81 1010	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	1600#	31	--	-	--	-
..NOSTOCALES						
...NOSTOCACEAE						
....ANABAENA	560	11	600#	37	--	-
....ANABAENOPSIS	340	7	--	-	--	-
....APHANIZOMENON	960#	19	--	-	--	-
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	830#	58
....OSCILLATORIA	520	10	330#	21	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those for periods of no gage height record, Feb. 17 to Mar. 30 and July 11 to Aug. 11, 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).

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 250 ft³/s (7.08 m³/s) Feb. 22, gage height, unknown, minimum, 14 ft³/s (0.40 m³/s) Aug. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	164	107	88	104	80	82	89	128	45	24	19
2	163	160	97	88	103	78	88	88	110	41	22	18
3	122	132	98	90	113	80	92	91	90	42	25	18
4	101	116	103	91	133	82	90	139	88	47	22	20
5	114	112	118	96	135	84	72	145	78	41	20	27
6	138	108	129	98	127	84	64	110	73	38	19	27
7	146	101	127	99	113	82	64	93	98	39	22	18
8	128	109	110	100	112	80	72	100	80	41	29	18
9	113	114	110	91	112	76	90	99	64	41	29	28
10	112	112	100	93	111	68	96	108	63	36	31	26
11	123	110	105	92	108	55	79	113	80	25	41	29
12	122	109	120	95	105	54	77	109	76	19	43	26
13	127	120	125	97	104	58	71	102	66	22	39	29
14	132	121	130	97	100	72	84	117	58	20	33	36
15	148	122	128	96	98	75	79	115	58	21	26	34
16	161	121	120	98	103	72	82	121	62	35	28	28
17	174	119	100	102	105	73	84	130	58	32	37	23
18	196	122	110	98	105	86	91	140	60	36	38	21
19	200	123	113	93	108	90	128	150	66	48	47	27
20	198	129	110	94	110	62	144	180	69	49	47	24
21	205	129	111	95	160	57	134	170	56	26	35	19
22	201	128	108	96	230	56	105	145	49	30	32	18
23	172	127	109	97	225	52	99	130	48	25	32	18
24	158	125	107	96	165	46	100	120	38	19	32	24
25	166	120	104	93	135	45	104	110	50	18	26	36
26	151	118	100	99	115	48	93	108	56	21	19	37
27	135	109	99	103	105	52	105	105	57	23	15	34
28	124	104	97	109	92	75	111	105	58	26	15	32
29	132	101	94	113	---	86	87	108	63	31	24	31
30	142	108	91	113	---	80	84	112	49	34	26	24
31	148	---	88	111	---	77	---	118	---	31	25	---
TOTAL	4624	3593	3368	3021	3436	2165	2751	3670	2049	1002	903	769
MEAN	149	120	109	97.5	123	69.8	91.7	118	68.3	32.3	29.1	25.6
MAX	205	164	130	113	230	90	144	180	128	49	47	37
MIN	101	101	88	88	92	45	64	88	38	18	15	18
AC-FT	9170	7130	6680	5990	6820	4290	5460	7280	4060	1990	1790	1530
CAL YR 1980	TOTAL	118824	MEAN	325	MAX	1900	MIN	63	AC-FT	235700		
WTR YR 1981	TOTAL	31351	MEAN	85.9	MAX	230	MIN	15	AC-FT	62180		

WALKER LAKE BASIN

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1977 to October 1980.

CHEMICAL ANALYSES: June 1977 to October 1980, monthly.

SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: June to October 1977, twice monthly; November 1977 to October 1980, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 705 micromhos Jan. 30, 1978; minimum, 239 micromhos May 31, 1979.

WATER TEMPERATURES: Maximum, 27.5°C July 19, 1979; minimum, freezing point Dec. 21, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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	BORON, DIS- SOLVED (UG/L AS B)
OCT 27...	1155	134	488	12.5	130	37	8.7	50	1.9	340

10301750 WALKER RIVER AT DIVERSIONS ABOVE SCHURZ, NV--Continued

LOCATION.--Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Lyon County, Hydrologic Unit 16050303, at diversions approximately 2 mi (3 km) downstream from Weber Reservoir and approximately 5 mi (8 km) northwest of Schurz.

DRAINAGE AREA.--2,900 mi² (7,500 km²), approximately.

PERIOD OF RECORD.--May 1977 to October 1980.

CHEMICAL ANALYSES: June 1977 to October 1980, monthly.

SPECIFIC CONDUCTANCES: May 1977 to October 1977, twice monthly; November 1977 to October 1980, monthly.

WATER TEMPERATURES: June to October 1977, twice monthly; November 1977 to October 1980, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 743 micromhos Sept. 8, 1977; minimum, 241 micromhos, July 24, 1980.

WATER TEMPERATURES: Maximum, 27.0°C Aug. 1, 1977; minimum, 2.5°C Dec. 21, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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	BORON, DIS- SOLVED (UG/L AS B)
OCT 27...	0950	198	412	8.5	120	34	7.7	41	1.7	270

CARSON RIVER BASIN

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

AVERAGE DISCHARGE.--21 years, 343 ft³/s (9.714 m³/s), 248,500 acre-ft/yr (306 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)	
Apr. 24	2100	1,310	37.1	4.56	1.390
Apr. 30	2300	*1,460	41.3	4.70	1.433

Minimum discharge, 30 ft³/s (0.85 m³/s) Sept. 20, 21, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	79	68	69	88	124	187	1190	659	136	52	49
2	84	78	78	70	90	124	192	1100	674	128	67	44
3	83	78	92	75	90	123	180	858	599	133	67	43
4	83	78	149	72	91	126	174	742	589	121	70	44
5	83	78	81	64	92	123	193	680	625	119	76	49
6	82	78	83	60	93	121	245	613	633	112	76	49
7	81	76	78	60	94	121	272	576	578	99	77	49
8	83	74	76	60	90	120	270	574	549	90	72	54
9	97	76	76	61	87	123	309	635	545	86	72	57
10	97	76	76	61	86	133	344	720	480	84	73	52
11	104	94	76	61	89	140	326	745	426	82	75	40
12	126	87	76	62	90	137	317	732	378	87	77	39
13	117	81	76	62	109	137	335	755	327	97	81	44
14	109	78	76	63	300	132	379	820	292	96	84	45
15	110	83	76	64	215	135	462	674	263	96	77	43
16	102	76	76	65	168	134	535	532	248	97	75	41
17	101	83	77	62	203	128	534	480	240	93	76	41
18	97	78	81	64	181	134	529	553	226	86	80	43
19	97	78	79	63	198	168	471	563	219	80	73	34
20	95	78	80	59	197	152	396	472	215	74	68	32
21	94	78	85	64	154	160	446	434	205	72	64	31
22	94	78	93	64	150	155	632	449	189	77	62	31
23	92	78	77	67	155	151	857	473	178	73	60	31
24	91	72	76	58	149	146	1070	555	170	70	58	31
25	90	68	79	54	135	212	951	662	170	69	47	46
26	91	83	80	63	134	233	771	653	156	70	46	46
27	91	87	79	138	121	199	594	682	137	67	46	41
28	86	81	79	99	123	187	637	668	130	60	46	37
29	88	74	73	76	---	207	870	644	127	48	46	45
30	89	68	73	88	---	181	1090	696	134	46	52	45
31	86	---	68	87	---	177	---	685	---	45	49	---
TOTAL	2909	2354	2492	2135	3772	4643	14568	20615	10361	2693	2044	1276
MEAN	93.8	78.5	80.4	68.9	135	150	486	665	345	86.9	65.9	42.5
MAX	126	94	149	138	300	233	1090	1190	674	136	84	57
MIN	81	68	68	54	86	120	174	434	127	45	46	31
AC-FT	5770	4670	4940	4230	7480	9210	28900	40890	20550	5340	4050	2530
CAL YR 1980	TOTAL	186284	MEAN 509	MAX 4180	MIN 68	AC-FT 369500						
WTR YR 1981	TOTAL	69862	MEAN 191	MAX 1190	MIN 31	AC-FT 138600						

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).

WATER-DISCHARGE RECORDS

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).

AVERAGE DISCHARGE.--55 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-81), 380 ft³/s (10.76 m³/s), 275,300 acre-ft/yr (339 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	Discharge Time	(ft ³ /s)	Gage height (m ³ /s)	(ft)	(m)
Apr. 24	2300	1,330	37.7	3.18	0.969
May 1	0200	*1,420	40.2	3.29	1.003

Minimum discharge, 30 ft³/s (0.850 m³/s) Sept. 21, 22, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	78	68	72	83	124	183	1190	683	150	49	52
2	82	77	77	70	84	123	190	1140	711	144	72	48
3	80	77	84	83	85	117	186	915	642	148	74	46
4	80	77	180	80	86	123	173	782	615	138	72	46
5	80	75	88	75	86	122	184	713	649	134	81	50
6	79	75	68	65	87	117	239	635	681	128	83	51
7	78	73	68	64	88	120	278	587	624	117	86	52
8	77	76	67	64	96	116	271	574	590	106	82	57
9	92	74	69	65	98	119	304	637	583	100	80	60
10	95	72	71	66	91	127	353	731	526	96	78	59
11	100	88	74	66	97	135	336	774	458	94	81	44
12	122	95	75	68	98	134	323	760	413	96	83	42
13	126	80	75	71	107	135	337	778	358	110	85	45
14	110	70	75	73	308	130	374	857	320	110	94	50
15	112	78	75	75	262	131	451	734	288	112	84	46
16	105	69	75	75	185	131	554	559	261	112	81	43
17	102	76	76	76	215	124	561	487	258	105	78	42
18	99	79	79	75	193	129	560	549	242	101	86	45
19	97	75	78	75	197	159	510	598	231	91	81	39
20	96	74	80	72	220	156	408	492	228	83	74	33
21	93	76	82	74	163	155	422	439	219	78	70	31
22	94	81	97	78	155	155	605	450	204	84	66	31
23	92	78	87	80	156	152	850	467	191	82	63	32
24	91	76	81	76	149	143	1090	552	184	75	64	31
25	90	63	85	66	132	182	1030	676	185	76	51	40
26	93	68	88	61	132	261	849	685	171	77	47	52
27	91	72	89	151	120	213	620	709	153	75	48	45
28	89	79	88	150	124	178	633	695	143	71	48	40
29	86	80	82	95	---	215	876	675	140	54	46	46
30	89	72	78	83	---	186	1090	718	145	51	50	47
31	87	---	75	86	---	175	---	729	---	50	50	---
TOTAL	2891	2283	2534	2430	3897	4587	14840	21287	11096	3048	2187	1345
MEAN	93.3	76.1	81.7	78.4	139	148	495	687	370	98.3	70.5	44.8
MAX	126	95	180	151	308	261	1090	1190	711	150	94	60
MIN	77	63	67	61	83	116	173	439	140	50	46	31
AC-FT	5730	4530	5030	4820	7730	9100	29440	42220	22010	6050	4340	2670
CAL YR 1980	TOTAL	192010	MEAN 525	MAX 3390	MIN 63	AC-FT 380900						
WTR YR 1981	TOTAL	72425	MEAN 198	MAX 1190	MIN 31	AC-FT 143700						

CARSON RIVER BASIN

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 to September 1980.

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.8 ft³/s (0.19 m³/s) May 24, 1980, gage height, 3.28 ft (1.000 m); minimum, 0.02 ft³/s (0.001 m³/s) July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.8 ft³/s (0.051 m³/s) May 26, gage height, 3.09 ft (0.942 m); minimum 0.02 ft³/s (0.001 m³/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.44	.51	.69	.92	.91	1.1	.51	.49	.12	.06	.08
2	.18	.46	.60	.70	.90	.84	1.1	.56	.56	.12	.06	.09
3	.18	.48	.65	.81	.86	.86	1.1	.61	.54	.10	.06	.08
4	.18	.48	.90	.84	.86	.90	1.1	.58	.45	.09	.06	.08
5	.20	.49	.56	.81	.86	.91	1.1	.58	.38	.08	.06	.08
6	.20	.50	.49	.73	.86	.85	1.1	.60	.36	.10	.05	.09
7	.20	.52	.54	.69	.86	.84	1.2	.56	.34	.10	.05	.09
8	.17	.54	.58	.70	.85	.80	1.1	.54	.32	.08	.05	.10
9	.19	.52	.61	.68	.85	.78	1.1	.53	.29	.08	.05	.11
10	.20	.58	.61	.60	.85	.70	1.0	.50	.28	.08	.06	.11
11	.23	.75	.68	.71	.84	.71	.99	.49	.32	.08	.07	.11
12	.33	.80	.80	.77	.84	.84	1.0	.52	.35	.08	.06	.12
13	.37	.81	.80	.74	.87	.84	1.0	.55	.37	.08	.08	.14
14	.41	.73	.78	.76	1.1	.81	.96	.58	.39	.07	.10	.13
15	.50	.82	.79	.76	.90	.76	.98	.64	.33	.06	.08	.09
16	.55	.64	.80	.76	.97	.63	.99	.73	.23	.07	.08	.09
17	.53	.82	.77	.75	.96	.70	.97	.69	.21	.06	.13	.16
18	.50	.81	.76	.75	.88	.80	1.1	.73	.18	.06	.14	.14
19	.48	.80	.75	.68	.92	.97	1.3	.76	.17	.07	.12	.10
20	.47	.72	.76	.71	.91	.75	1.2	.72	.14	.07	.09	.11
21	.46	.73	.77	.73	.72	.88	.96	.66	.14	.06	.09	.12
22	.46	.72	.74	.66	.73	.84	.88	.62	.13	.06	.09	.12
23	.46	.75	.69	.60	.75	.80	.78	.68	.11	.06	.08	.15
24	.41	.64	.69	.63	.77	.74	.77	.68	.11	.06	.08	.16
25	.40	.53	.73	.63	.78	.88	.78	.74	.12	.06	.08	.22
26	.47	.66	.70	.67	.70	.84	.80	1.1	.11	.06	.09	.18
27	.49	.69	.70	.71	.68	1.1	.73	1.0	.10	.05	.10	.18
28	.49	.66	.75	.96	.76	1.1	.66	.73	.11	.05	.09	.20
29	.47	.60	.75	.92	---	1.2	.59	.61	.15	.06	.10	.21
30	.46	.59	.72	.95	---	1.1	.52	.57	.17	.05	.09	.20
31	.43	---	.69	.97	---	1.1	---	.52	---	.06	.10	---
TOTAL	11.25	19.28	21.67	23.07	23.75	26.78	28.96	19.89	7.95	2.28	2.50	3.84
MEAN	.36	.64	.70	.74	.85	.86	.97	.64	.27	.074	.081	.13
MAX	.55	.82	.90	.97	1.1	1.2	1.3	1.1	.56	.12	.14	.22
MIN	.17	.44	.49	.60	.68	.63	.52	.49	.10	.05	.05	.08
AC-FT	22	38	43	46	47	53	57	39	16	4.5	5.0	7.6

WTR YR 1981 TOTAL 191.22 MEAN .52 MAX 1.3 MIN .05 AC-FT 379

CARSON RIVER BASIN

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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 fair. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft³/s (0.906 m³/s) April 19, 1980, gage height 3.97 ft (1.210 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.1 ft³/s (0.0312 m³/s) Feb. 14, gage height 2.97 ft (0.905 m); maximum gage height, 3.24 ft (0.988 m) Dec. 10, (backwater from ice); no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.03	.03	.01	.11	.04	.02	.00	.00	.00
2	.00	.00	.00	.02	.04	.02	.14	.04	.02	.00	.00	.00
3	.00	.00	.00	.03	.02	.02	.09	.07	.03	.00	.00	.01
4	.00	.00	.07	.02	.03	.01	.07	.07	.01	.00	.00	.01
5	.00	.00	.02	.01	.04	.00	.06	.08	.00	.00	.00	.01
6	.00	.00	.02	.05	.05	.00	.07	.06	.00	.00	.00	.02
7	.00	.00	.01	.03	.02	.02	.07	.05	.00	.00	.00	.02
8	.00	.00	.01	.03	.06	.02	.09	.05	.01	.00	.00	.01
9	.00	.00	.01	.02	.09	.00	.09	.05	.02	.00	.00	.02
10	.00	.00	.01	.01	.07	.00	.09	.04	.00	.00	.00	.00
11	.00	.02	.02	.04	.12	.00	.08	.04	.01	.00	.00	.00
12	.00	.02	.03	.06	.10	.00	.07	.04	.01	.00	.00	.01
13	.00	.01	.02	.05	.13	.04	.07	.03	.03	.00	.00	.03
14	.01	.02	.01	.06	.23	.03	.08	.03	.04	.00	.01	.02
15	.02	.02	.03	.06	.02	.04	.08	.06	.04	.00	.00	.00
16	.04	.01	.04	.05	.00	.02	.10	.07	.02	.00	.00	.00
17	.04	.03	.04	.04	.00	.03	.10	.06	.01	.00	.00	.00
18	.02	.01	.05	.02	.00	.04	.16	.07	.00	.00	.03	.02
19	.00	.01	.06	.00	.00	.10	.25	.07	.01	.00	.03	.00
20	.00	.02	.04	.02	.00	.05	.16	.08	.00	.00	.00	.00
21	.00	.01	.02	.00	.00	.04	.13	.06	.00	.00	.00	.01
22	.00	.00	.01	.00	.00	.03	.10	.04	.00	.00	.00	.01
23	.00	.00	.00	.00	.00	.02	.08	.03	.00	.00	.00	.02
24	.00	.00	.00	.00	.00	.01	.07	.04	.00	.00	.00	.02
25	.00	.01	.00	.03	.00	.08	.10	.06	.00	.00	.00	.04
26	.00	.02	.00	.07	.00	.38	.13	.29	.00	.00	.00	.02
27	.00	.02	.00	.13	.01	.23	.09	.20	.00	.00	.00	.01
28	.00	.02	.00	.07	.01	.14	.06	.05	.00	.00	.00	.01
29	.00	.01	.00	.07	---	.13	.04	.02	.10	.00	.00	.02
30	.00	.00	.01	.05	---	.11	.04	.02	.01	.00	.00	.02
31	.00	---	.02	.03	---	.09	---	.02	---	.00	.00	---
TOTAL	.13	.26	.55	1.10	1.07	1.71	2.87	1.93	.39	.00	.07	.36
MEAN	.004	.009	.018	.035	.038	.055	.096	.062	.013	.000	.002	.012
MAX	.04	.03	.07	.13	.23	.38	.25	.29	.10	.00	.03	.04
MIN	.00	.00	.00	.00	.00	.00	.04	.02	.00	.00	.00	.00
AC-FT	.3	.5	1.1	2.2	2.1	3.4	5.7	3.8	.8	.00	.1	.7

WTR YR 1981 TOTAL 10.44 MEAN .029 MAX .38 MIN .00 AC-FT 21

CARSON RIVER BASIN

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 good, except for period of no gage height record, Nov. 22 to Dec. 15, 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.--7 years (water years 1975-81), 164 ft³/s (4.644 m³/s), 118,800 acre-ft/yr (146 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, 869 ft³/s (24.6 m³/s) May 1, gage height, 4.65 ft (1.417 m); minimum daily, 0.62 ft³/s (0.018 m³/s) Sept. 7-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	5.3	2.9	13	24	49	74	675	255	1.5	1.2	.76
2	2.4	5.3	2.7	13	36	50	77	633	270	1.5	1.4	.76
3	2.4	4.9	2.9	13	30	48	82	432	217	1.4	1.5	.76
4	2.4	4.8	8.2	13	30	48	74	330	171	1.6	1.8	.76
5	2.4	4.0	7.6	12	28	47	65	275	178	1.8	1.9	.76
6	2.4	3.4	7.2	12	26	42	109	224	207	1.7	1.7	.63
7	2.4	3.1	7.2	12	29	44	135	181	182	1.7	1.5	.62
8	2.4	3.0	8.0	11	28	41	128	162	157	1.5	1.5	.62
9	2.4	3.0	9.0	11	29	42	137	196	143	1.5	1.5	.62
10	2.6	3.0	10	11	31	47	155	262	111	1.6	1.3	.62
11	2.7	3.0	10	11	34	55	148	300	73	1.9	1.1	.62
12	2.7	3.0	10	12	40	53	139	282	52	1.7	1.1	.62
13	2.9	3.0	10	12	41	42	101	294	25	1.7	1.0	.67
14	3.3	2.7	13	12	209	41	76	348	9.9	1.7	.98	.76
15	3.3	2.7	17	12	222	43	97	280	5.1	1.6	1.1	1.0
16	3.3	2.7	23	13	126	42	173	164	2.4	1.5	.95	.85
17	3.3	2.4	26	13	127	39	200	118	2.2	1.1	.92	.77
18	3.5	2.5	19	12	114	39	186	138	2.1	1.1	.93	.95
19	3.7	2.3	17	12	112	52	174	187	1.4	1.1	.86	1.1
20	3.8	2.5	14	12	141	67	99	124	1.5	1.1	.76	1.2
21	4.5	2.7	15	10	97	56	88	85	1.5	1.1	.76	1.3
22	5.2	2.7	21	6.0	81	59	174	81	1.6	.92	.76	1.5
23	5.3	2.8	21	6.2	81	58	362	82	1.5	.96	.76	1.7
24	5.3	2.7	13	6.4	77	50	569	120	1.6	1.1	.76	1.9
25	4.4	2.6	14	6.4	64	52	573	219	2.0	1.1	.76	1.8
26	5.3	2.5	16	6.4	59	143	418	277	2.2	.92	.76	2.0
27	5.3	2.8	17	41	50	105	229	309	2.4	.92	.76	2.1
28	5.3	2.9	17	93	50	76	200	310	2.2	.89	.76	2.4
29	5.8	2.9	15	34	---	93	365	295	1.6	.76	.76	3.2
30	6.3	2.9	14	19	---	88	571	312	1.6	.76	.78	3.4
31	5.3	---	13	24	---	75	---	314	---	.90	.76	---
TOTAL	114.7	94.1	400.7	494.4	2016	1786	5978	8009	2083.8	40.63	33.38	36.75
MEAN	3.70	3.14	12.9	15.9	72.0	57.6	199	258	69.5	1.31	1.08	1.23
MAX	6.3	5.3	26	93	222	143	573	675	270	1.9	1.9	3.4
MIN	2.4	2.3	2.7	6.0	24	39	65	81	1.4	.76	.76	.62
AC-FT	228	187	795	981	4000	3540	11860	15890	4130	81	66	73
CAL YR 1980	TOTAL	134279.90	MEAN	367	MAX	6280	MIN	2.3	AC-FT	266300		
WTR YR 1981	TOTAL	21087.46	MEAN	57.8	MAX	675	MIN	.62	AC-FT	41830		

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi (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.--50 years (1900-1907, 1938-81), 110 ft³/s (3.115 m³/s), 79,700 acre-ft/yr (98.3 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.--Maximum discharge, 514 ft³/s (14.6 m³/s) Apr. 24 (2300 hrs), gage height, 2.89 ft (0.881 m), no other peak above base of 500 ft³/s (14.2 m³/s); minimum daily, 11 ft³/s (0.312 m³/s) Sept. 7, 8, 20-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	21	22	24	19	38	63	349	145	59	49	12
2	22	21	27	24	20	38	59	323	152	52	21	12
3	22	21	27	26	19	37	56	259	136	44	17	12
4	22	22	23	26	20	37	60	237	125	40	16	12
5	22	22	21	23	24	37	78	220	135	26	15	12
6	21	21	20	22	27	37	111	203	142	23	17	12
7	21	21	19	23	28	38	127	193	129	23	17	11
8	33	22	18	22	27	39	132	190	120	21	17	15
9	38	22	20	22	27	42	156	198	122	20	14	19
10	38	22	21	22	27	46	174	212	108	19	17	18
11	37	24	21	22	27	48	164	215	90	18	36	16
12	34	26	22	23	28	46	158	208	82	18	46	14
13	30	25	22	23	32	47	171	206	72	33	47	13
14	26	23	20	23	54	44	191	222	66	48	46	12
15	26	24	21	22	51	47	221	199	59	59	41	12
16	26	22	21	23	56	47	237	164	55	60	21	12
17	26	24	22	22	80	45	230	144	53	57	15	12
18	25	24	23	23	71	45	230	173	52	52	15	12
19	25	23	23	24	76	46	221	189	60	24	14	12
20	25	23	24	23	72	43	199	145	57	18	13	11
21	24	23	25	25	56	43	212	126	46	17	13	11
22	24	25	30	27	53	45	257	120	43	19	12	11
23	24	25	27	28	52	49	302	123	42	24	12	11
24	24	23	25	24	43	49	358	141	39	25	19	11
25	23	21	28	21	47	62	347	178	37	26	36	13
26	24	23	29	25	43	61	301	169	35	26	36	13
27	24	24	31	29	41	55	238	172	34	28	33	13
28	23	24	30	19	39	54	250	161	33	34	28	12
29	23	24	27	18	---	68	287	159	43	53	24	12
30	22	23	26	19	---	61	327	167	52	56	17	12
31	22	---	24	20	---	60	---	161	---	55	13	---
TOTAL	799	688	739	717	1159	1454	5917	5926	2364	1077	737	380
MEAN	25.8	22.9	23.8	23.1	41.4	46.9	197	191	78.8	34.7	23.8	12.7
MAX	38	26	31	29	80	68	358	349	152	60	49	19
MIN	21	21	18	18	19	37	56	120	33	17	12	11
AC-FT	1580	1360	1470	1420	2300	2880	11740	11750	4690	2140	1460	754
CAL YR 1980	TOTAL	50900	MEAN	139	MAX	746	MIN	14	AC-FT	101000		
WTR YR 1981	TOTAL	21957	MEAN	60.2	MAX	358	MIN	11	AC-FT	43550		

CARSON RIVER BASIN

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 1980 TO SEPTEMBER 1981

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)	HARD- NESS (MG/L AS CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT									
30...	1300	23	81	--	5.0	--	--	--	--
NOV									
25...	0930	12	74	--	.5	--	--	--	--
JAN									
05...	1015	16	71	--	1.0	--	--	--	--
26...	1315	28	75	--	1.0	--	--	--	--
FEB									
25...	1330	52	78	--	1.0	--	--	--	--
MAR									
30...	1035	42	71	--	2.5	--	--	--	--
APR									
27...	1530	227	47	--	7.0	--	--	--	--
*28...	0950	230	47	7.7	4.5	2.0	10.5	16	5.1
MAY									
26...	1500	163	46	--	9.0	--	--	--	--
JUL									
02...	1300	57	59	--	17.0	--	--	--	--
30...	1100	57	61	--	14.0	--	--	--	--
AUG									
24...	1533	27	84	--	17.0	--	--	--	--
SEP									
*16...	0900	89	83	7.7	11.5	<1.0	8.8	30	8.6

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 FIELD (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								
30...	--	--	--	--	--	--	--	--
NOV								
25...	--	--	--	--	--	--	--	--
JAN								
05...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
FEB								
25...	--	--	--	--	--	--	--	--
MAR								
30...	--	--	--	--	--	--	--	--
APR								
27...	--	--	--	--	--	--	--	--
28...	1.4	2.3	.2	.8	19	1.0	40	24.8
MAY								
26...	--	--	--	--	--	--	--	--
JUL								
02...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
AUG								
24...	--	--	--	--	--	--	--	--
SEP								
16...	2.3	4.2	.3	1.6	37	1.0	54	13.0

* Data from Calif. Dept. of Water Resources.

CARSON RIVER BASIN

149

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW¼NE¼ sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank in Haines Canyon, 0.55 mi (0.88 km) upstream from Foothill Road, and 3.5 mi (5.6 km) south-southwest of Genoa.

DRAINAGE AREA.--3.82 mi² (9.89 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m), from topographic map.

REMARKS.--Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971.

AVERAGE DISCHARGE.--16 years, 1.92 ft³/s (0.0544 m³/s), 1,390 acre-ft/yr (1.72 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft³/s (1.78 m³/s) Aug. 5, 1971, gage height, 2.78 ft (0.847 m), from floodmarks, from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.38 ft³/s (0.011 m³/s) Oct. 9-11, 1979, Aug 21, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft³/s (0.17 m³/s) Feb. 14, gage height, 1.07 ft (0.326 m), maximum gage height, 1.27 ft (0.387 m) Jan. 23 (back water from ice); minimum daily, 0.38 ft³/s (0.011 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.1	1.6	1.6	1.4	1.1	1.6	2.1	1.3	.93	.55	.62
2	1.2	1.0	1.5	1.6	1.4	1.1	1.4	1.9	1.3	.91	.57	.90
3	1.1	1.0	1.5	1.6	1.4	1.1	1.4	1.8	1.3	.88	.48	.71
4	1.1	1.1	1.5	1.7	1.3	1.1	1.3	1.8	1.3	.88	.61	.60
5	1.1	1.1	1.4	1.7	1.3	1.1	1.4	1.7	1.3	.86	.76	.71
6	1.2	1.1	1.4	2.3	1.4	1.1	1.4	1.6	1.4	.93	.87	.76
7	1.2	1.1	1.5	1.5	1.3	1.1	1.4	1.6	1.3	.91	.92	.59
8	1.1	1.2	1.4	1.5	1.4	1.1	1.4	1.7	1.4	.91	.91	.62
9	1.2	1.2	1.3	1.5	1.5	1.1	1.4	1.8	1.2	.89	.87	.58
10	1.1	1.2	1.3	1.5	1.4	1.1	1.4	1.7	1.1	.93	.71	.53
11	1.2	1.6	1.3	1.5	1.5	1.1	1.4	1.7	1.4	.90	.67	.51
12	1.8	1.4	1.4	1.6	1.6	1.1	1.4	1.6	1.4	.91	1.0	.55
13	1.2	1.4	1.5	1.6	2.0	1.1	1.4	1.7	1.3	.92	.85	.61
14	1.3	1.3	1.6	1.6	2.5	1.1	1.4	1.6	1.3	.85	.90	.60
15	1.5	1.3	1.4	1.6	1.5	1.1	1.6	1.6	1.3	.69	1.0	.55
16	1.5	1.3	1.6	1.6	2.0	1.1	1.6	1.7	1.2	.69	.48	.65
17	1.4	1.4	1.5	1.7	1.7	1.1	1.6	1.5	1.2	.72	.87	.66
18	1.4	1.3	1.5	1.7	1.4	1.1	1.7	2.0	1.2	.70	.72	.69
19	1.4	1.3	1.5	1.7	1.4	1.3	1.9	1.7	1.2	.69	.71	.71
20	1.3	1.5	1.6	1.6	1.3	1.1	1.6	1.5	1.1	.68	.48	.71
21	1.2	1.5	1.6	1.6	1.2	1.3	1.6	1.4	1.1	.67	.38	.86
22	1.2	1.4	1.6	1.5	1.2	1.3	1.7	1.5	1.1	.67	.48	1.0
23	1.2	1.4	1.6	1.4	1.1	1.1	1.9	1.5	1.0	.67	.91	1.3
24	1.2	1.6	1.6	1.3	1.2	1.1	2.0	1.6	1.0	.67	.84	1.6
25	1.3	1.7	1.7	1.3	1.2	2.1	1.9	1.8	1.0	.56	.48	1.7
26	1.5	1.6	1.7	1.3	1.1	1.7	1.9	2.2	1.0	.56	.48	1.5
27	1.3	1.7	1.7	1.4	1.1	1.4	1.6	1.6	.99	.55	.60	1.4
28	1.3	1.8	1.7	1.5	1.1	1.6	1.7	1.4	.96	.54	1.1	.82
29	1.3	1.7	1.7	1.4	---	1.6	1.9	1.3	.95	.55	.97	.77
30	1.2	1.6	1.7	1.4	---	1.6	2.0	1.2	.94	.56	.48	.94
31	1.1	---	1.7	1.4	---	1.4	---	1.2	---	.56	.59	---
TOTAL	39.3	40.9	47.6	48.2	39.9	38.4	47.9	51.0	35.54	23.34	22.24	24.75
MEAN	1.27	1.36	1.54	1.55	1.43	1.24	1.60	1.65	1.18	.75	.72	.83
MAX	1.8	1.8	1.7	2.3	2.5	2.1	2.0	2.2	1.4	.93	1.1	1.7
MIN	1.1	1.0	1.3	1.3	1.1	1.1	1.3	1.2	.94	.54	.38	.51
AC-FT	78	81	94	96	79	76	95	101	70	46	44	49

CAL YR 1980 TOTAL 705.38 MEAN 1.93 MAX 10 MIN .60 AC-FT 1400
WTR YR 1981 TOTAL 459.07 MEAN 1.26 MAX 2.5 MIN .38 AC-FT 911

CARSON RIVER BASIN

10310405 CARSON RIVER AT GENOA, NV

LOCATION.--Lat 38°59'52", long 119°49'21", in SW¼SW¼ sec.11, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on right bank just downstream from bridge on State Route 57 and 1.2 mi (1.9 km) southeast of Genoa.

DRAINAGE AREA.--570 mi² (1,480 km²), approximately.

PERIOD OF RECORD.--April 1974 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft (1,420 m), from topographic map.

REMARKS.--Records poor. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Flow reported is that which is in main channel and is not total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,380 ft³/s (95.7 m³/s) Jan. 14, 1980, gage height, 11.51 ft (3.508 m); minimum, 1.1 ft³/s (0.03 m³/s) Aug. 31 to Sept. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft³/s (22.1 m³/s) May 1, gage height, 5.85 ft (1.783 m); minimum daily, 2.2 ft³/s (0.06 m³/s) Sept. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	64	55	52	71	92	95	604	286	11	4.8	2.2
2	32	60	51	53	77	93	100	589	282	8.3	4.8	2.2
3	36	51	52	55	76	89	103	412	264	8.5	4.8	2.2
4	38	53	156	58	73	86	97	317	216	12	4.8	2.2
5	36	53	122	56	76	86	85	284	214	11	4.2	2.2
6	32	55	62	53	80	85	117	236	253	10	4.2	2.2
7	30	49	50	48	77	79	137	191	232	7.9	4.2	2.3
8	29	47	50	49	77	76	120	167	195	6.8	4.2	2.4
9	30	51	39	51	82	72	135	193	180	5.8	4.1	2.6
10	39	54	39	51	85	66	150	260	117	5.8	3.7	3.4
11	37	55	43	49	87	78	148	288	91	5.8	3.9	4.2
12	44	73	51	48	94	80	140	258	77	5.6	3.5	3.9
13	61	67	53	52	99	71	105	264	61	5.4	3.1	5.8
14	57	60	53	48	236	69	82	334	56	5.5	2.9	5.8
15	62	55	52	46	307	70	95	319	44	6.0	2.8	4.8
16	70	60	54	46	202	70	170	210	40	5.8	2.6	4.8
17	70	54	59	48	198	65	190	144	29	6.2	2.6	3.9
18	69	57	61	45	185	61	180	141	19	7.8	2.6	3.9
19	71	52	60	46	167	71	170	188	12	6.4	2.4	3.6
20	67	52	55	46	190	88	100	147	20	8.4	2.9	3.6
21	63	53	55	39	162	84	95	120	24	7.3	4.1	3.8
22	65	52	60	37	146	87	170	113	24	5.7	4.3	4.5
23	64	53	64	36	137	82	350	111	19	5.4	4.2	4.7
24	64	53	54	41	132	75	510	124	17	6.3	5.4	4.5
25	64	50	56	41	116	72	510	183	16	7.4	4.8	4.8
26	65	47	57	38	104	152	400	278	15	13	3.5	4.8
27	73	53	58	65	97	124	270	334	14	8.4	2.6	5.4
28	71	55	58	185	93	102	210	332	15	16	2.6	6.8
29	67	55	55	124	---	111	324	311	17	13	2.4	5.1
30	64	56	54	80	---	115	498	324	18	9.0	2.4	5.4
31	66	---	56	78	---	98	---	334	---	6.6	2.3	---
TOTAL	1675	1649	1844	1764	3526	2649	5856	8110	2867	248.1	111.7	118.0
MEAN	54.0	55.0	59.5	56.9	126	85.5	195	262	95.6	8.00	3.60	3.93
MAX	73	73	156	185	307	152	510	604	286	16	5.4	6.8
MIN	29	47	39	36	71	61	82	111	12	5.4	2.3	2.2
AC-FT	3320	3270	3660	3500	6990	5250	11620	16090	5690	492	222	234
CAL YR 1980	TOTAL	149493.0	MEAN	408	MAX	2520	MIN	16	AC-FT	296500		
WTR YR 1981	TOTAL	30417.8	MEAN	83.3	MAX	604	MIN	2.2	AC-FT	60330		

CARSON RIVER BASIN

151

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.--42 years, 391 ft³/s (11.07 m³/s), 283,300 acre-ft/yr (349 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.--Maximum discharge, 1200 ft³/s (34.0 m³/s) May 2, gage height, 4.24 ft (1.292 m), no peak above base of 1600 ft³/s (45.3 m³/s); minimum daily, 2.5 ft³/s (0.071 m³/s) Aug. 15, 17, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	140	136	160	194	216	234	981	545	26	5.9	3.6
2	80	133	136	157	194	216	241	1060	493	21	5.0	4.6
3	75	126	149	168	197	216	249	899	502	17	9.8	4.2
4	79	129	258	181	190	206	237	708	450	21	9.2	3.6
5	78	134	375	176	195	209	219	575	399	21	6.7	4.1
6	77	131	212	166	202	206	226	485	421	18	4.7	4.5
7	68	127	162	153	202	200	289	437	468	14	4.3	4.2
8	61	116	152	149	202	197	307	391	403	14	4.3	5.9
9	64	121	141	151	217	194	285	404	351	17	4.6	7.4
10	80	135	136	154	237	182	294	487	303	14	4.7	7.1
11	95	140	149	148	226	185	311	573	257	16	5.1	5.7
12	100	150	160	153	249	197	268	526	237	11	4.9	5.6
13	135	160	167	155	246	194	256	496	198	13	3.9	4.5
14	135	140	171	154	330	188	210	583	189	11	3.6	9.2
15	145	138	171	151	550	185	212	616	165	9.6	3.3	9.3
16	164	136	168	150	375	185	277	496	142	11	3.9	4.8
17	178	132	176	151	354	173	375	370	117	9.6	3.4	4.4
18	173	134	183	147	364	170	418	365	88	8.6	3.5	4.2
19	170	131	184	142	330	194	471	426	71	8.8	3.8	3.5
20	161	125	177	138	344	226	504	447	65	12	5.0	3.5
21	154	129	178	131	325	206	412	404	76	12	5.2	3.6
22	153	130	187	133	275	206	407	330	80	8.5	3.9	4.1
23	153	133	195	131	272	206	598	294	60	7.3	4.4	3.8
24	147	129	180	131	262	194	794	288	57	6.2	4.5	5.6
25	147	127	172	130	252	190	966	380	55	6.1	4.8	6.8
26	144	118	170	121	241	294	888	540	46	6.1	3.8	11
27	152	122	174	145	230	325	718	626	43	6.8	3.7	10
28	158	130	174	350	219	277	549	650	39	6.6	3.7	7.0
29	154	139	171	360	---	256	573	642	38	5.8	3.5	7.3
30	145	141	166	251	---	272	782	587	35	5.8	3.9	6.3
31	142	---	163	208	---	256	---	600	---	5.5	4.2	---
TOTAL	3873	3976	5493	5195	7474	6621	12570	16666	6393	370.3	145.2	169.4
MEAN	125	133	177	168	267	214	419	538	213	11.9	4.68	5.65
MAX	178	160	375	360	550	325	966	1060	545	26	9.8	11
MIN	61	116	136	121	190	170	210	288	35	5.5	3.3	3.5
AC-FT	7680	7890	10900	10300	14820	13130	24930	33060	12680	734	288	336
CAL YR 1980	TOTAL	237159.0	MEAN 648	MAX 6800	MIN 44	AC-FT 470400						
WTR YR 1981	TOTAL	68945.9	MEAN 189	MAX 1060	MIN 3.3	AC-FT 136800						

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 good. Diversion for municipal use above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--5 years (1977-81), 1.15 ft³/s (0.0326 m³/s), 833 acre-ft/yr (1.03 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft³/s (0.906 m³/s) Jan. 11, 1979, gage height, 4.81 ft (1.466 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 4.9 ft³/s (0.139 m³/s) Feb. 14, gage height, 4.18 ft (1.274 m); minimum daily, 0.41 ft³/s (0.012 m³/s) Aug 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.8	1.6	1.5	1.5	1.4	1.4	1.3	.96	.88	.72	.65
2	2.0	1.8	1.6	1.5	1.5	1.4	1.4	1.3	.96	.88	.72	.65
3	2.0	1.8	1.7	1.5	1.4	1.4	1.5	1.2	.96	.96	.72	.72
4	1.8	1.7	1.7	1.5	1.4	1.4	1.5	1.2	.96	.96	.59	.72
5	1.8	1.7	1.6	1.5	1.4	1.4	1.5	1.3	.96	.88	.59	.72
6	1.8	1.7	1.5	1.6	1.4	1.4	1.5	1.3	.88	.88	.58	.65
7	1.8	1.7	1.5	1.6	1.4	1.4	1.5	1.2	.88	.88	.65	.72
8	2.0	1.7	1.6	1.5	1.4	1.4	1.4	1.2	.96	.88	.58	.72
9	1.8	1.7	1.6	1.4	1.4	1.4	1.3	1.2	.96	.88	.41	.80
10	1.8	1.7	1.5	1.4	1.4	1.4	1.2	1.1	.96	.88	.47	.80
11	1.8	1.8	1.5	1.3	1.4	1.4	1.1	1.1	.88	.88	.59	.80
12	1.8	1.8	1.5	1.3	1.4	1.4	1.1	1.1	.88	.88	.59	.80
13	1.8	1.8	1.4	1.3	2.1	1.4	1.2	1.4	.88	.88	.59	.80
14	1.8	1.8	1.4	1.3	2.9	1.4	1.2	1.4	.88	.88	.59	.72
15	1.8	1.7	1.5	1.3	2.1	1.4	1.2	1.6	.88	.88	.59	.72
16	1.8	1.7	1.5	1.4	2.0	1.4	1.2	1.6	.88	.88	.52	.72
17	1.8	1.7	1.5	1.4	1.8	1.4	1.1	1.6	.88	.88	.65	.72
18	1.8	1.7	1.4	1.3	1.7	1.4	1.1	1.7	.88	.88	.65	.72
19	1.8	1.7	1.4	.96	1.7	1.7	1.4	1.6	.88	.88	.65	.65
20	1.8	1.7	1.4	.88	1.6	1.5	1.2	1.2	.88	.88	.65	.58
21	1.8	1.7	1.4	.88	1.5	1.4	1.2	1.2	.88	.80	.65	.58
22	1.8	1.7	1.4	.96	1.5	1.4	1.2	1.2	.88	.80	.59	.65
23	1.8	1.6	1.5	1.1	1.5	1.4	1.2	1.2	.88	.80	.52	.65
24	1.8	1.6	1.5	1.5	1.5	1.4	1.3	.96	.88	.80	.65	.72
25	1.8	1.6	1.5	1.6	1.5	2.1	1.3	.96	.88	.80	.65	.96
26	2.1	1.6	1.5	1.6	1.5	2.0	1.2	1.2	.96	.80	.65	.96
27	2.1	1.7	1.5	1.6	1.5	1.7	1.2	1.4	.96	.88	.65	.96
28	2.1	1.7	1.5	1.7	1.4	1.5	1.3	1.2	.72	.80	.65	.80
29	2.1	1.7	1.5	1.6	---	1.5	1.3	1.2	.88	.72	.65	.80
30	2.1	1.7	1.6	1.5	---	1.5	1.3	1.2	.88	.72	.52	.80
31	2.0	---	1.5	1.5	---	1.5	---	.96	---	.72	.72	---
TOTAL	58.3	51.3	46.8	42.98	44.8	45.8	38.5	39.28	27.04	26.40	19.00	22.26
MEAN	1.88	1.71	1.51	1.39	1.60	1.48	1.28	1.27	.90	.85	.61	.74
MAX	2.1	1.8	1.7	1.7	2.9	2.1	1.5	1.7	.96	.96	.72	.96
MIN	1.8	1.6	1.4	.88	1.4	1.4	1.1	.96	.72	.72	.41	.58
AC-FT	116	102	93	85	89	91	76	78	54	52	38	44

CAL YR 1980 TOTAL 702.56 MEAN 1.92 MAX 10 MIN .50 AC-FT 1390
WTR YR 1981 TOTAL 462.46 MEAN 1.27 MAX 2.9 MIN .41 AC-FT 917

CARSON RIVER BASIN

153

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.--5 years (1977-81), 2.39 ft³/s (0.0677 m³/s), 1,730 acre-ft/yr (2.13 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 5.5 ft³/s (0.156 m³/s) Feb. 14, gage height, 1.18 ft (0.360 m); minimum daily, 1.0 ft³/s (0.028 m³/s) July 27 to Aug. 3, 6-9, 12, 25, 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.3	2.6	2.3	2.8	2.5	2.6	3.2	2.2	1.4	1.0	1.1
2	2.0	2.3	2.8	2.3	2.9	2.5	2.7	2.8	2.1	1.4	1.0	1.1
3	2.0	2.4	3.0	2.3	3.0	2.5	2.7	2.7	2.1	1.4	1.0	1.1
4	2.0	2.5	3.0	2.4	2.9	2.5	2.7	2.6	2.0	1.4	1.1	1.1
5	2.0	2.5	2.8	2.3	2.9	2.5	2.7	2.5	2.0	1.3	1.1	1.1
6	2.1	2.5	2.5	2.3	2.8	2.4	2.7	2.5	1.9	1.3	1.0	1.1
7	2.1	2.5	2.4	2.3	2.8	2.4	2.6	2.4	1.9	1.3	1.0	1.1
8	2.0	2.6	1.8	2.3	2.8	2.4	2.6	2.4	1.9	1.3	1.0	1.2
9	2.1	2.6	2.0	2.3	2.8	2.4	2.6	2.3	2.0	1.2	1.0	1.2
10	2.1	2.6	2.3	2.2	2.8	2.4	2.5	2.3	1.8	1.2	1.1	1.2
11	2.1	2.8	2.5	2.2	2.9	2.3	2.5	2.5	1.9	1.2	1.1	1.2
12	2.5	2.7	2.5	2.2	2.8	2.3	2.4	2.7	1.9	1.2	1.0	1.2
13	2.2	2.6	2.5	2.2	3.4	2.5	2.5	2.6	1.9	1.2	1.1	1.2
14	2.3	2.5	2.5	2.2	4.2	2.5	2.6	2.7	1.9	1.2	1.1	1.2
15	2.4	2.6	2.5	2.2	3.4	2.5	2.9	2.6	1.8	1.2	1.1	1.2
16	2.5	2.4	2.5	2.2	3.4	2.5	2.9	2.6	1.9	1.2	1.1	1.1
17	2.4	2.5	2.6	2.2	3.6	2.4	3.0	2.6	1.8	1.2	1.1	1.2
18	2.4	2.5	2.6	2.2	3.1	2.5	2.7	3.5	1.8	1.2	1.1	1.2
19	2.3	2.5	2.6	2.2	3.3	2.6	2.6	3.0	1.8	1.1	1.1	1.2
20	2.3	2.5	2.6	2.2	3.1	2.5	2.5	2.6	1.7	1.1	1.1	1.2
21	2.3	2.5	2.6	2.2	2.8	2.5	2.5	2.5	1.7	1.1	1.1	1.2
22	2.4	2.5	2.7	2.2	2.7	2.5	2.9	2.5	1.7	1.1	1.1	1.2
23	2.4	2.6	2.5	2.2	2.7	2.5	3.2	2.5	1.7	1.1	1.1	1.3
24	2.3	2.6	2.5	2.2	2.6	2.4	3.3	2.5	1.6	1.1	1.1	1.4
25	2.4	2.5	2.6	2.2	2.6	3.3	2.8	2.6	1.6	1.1	1.0	1.7
26	2.4	2.6	2.6	2.2	2.6	2.9	2.8	2.7	1.6	1.1	1.1	1.4
27	2.3	2.6	2.6	2.4	2.5	2.7	2.8	2.5	1.6	1.0	1.0	1.3
28	2.4	2.6	2.6	2.6	2.5	2.8	2.8	2.4	1.5	1.0	1.0	1.3
29	2.4	2.6	2.5	2.7	---	2.9	3.0	2.3	1.5	1.0	1.0	1.3
30	2.4	2.6	2.4	2.7	---	2.6	3.2	2.2	1.5	1.0	1.0	1.3
31	2.3	---	2.4	2.7	---	2.6	---	2.2	---	1.0	1.1	---
TOTAL	69.8	76.1	78.6	71.3	82.7	78.8	82.3	80.0	54.3	36.6	32.8	36.6
MEAN	2.25	2.54	2.54	2.30	2.95	2.54	2.74	2.58	1.81	1.18	1.06	1.22
MAX	2.5	2.8	3.0	2.7	4.2	3.3	3.3	3.5	2.2	1.4	1.1	1.7
MIN	2.0	2.3	1.8	2.2	2.5	2.3	2.4	2.2	1.5	1.0	1.0	1.1
AC-FT	138	151	156	141	164	156	163	159	108	73	65	73
CAL YR 1980	TOTAL	1258.0	MEAN 3.44	MAX 22	MIN 1.8	AC-FT 2500						
WTR YR 1981	TOTAL	779.9	MEAN 2.14	MAX 4.2	MIN 1.0	AC-FT 1550						

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 poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

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, 1,280 ft³/s (36.2 m³/s) May 1, gage height 6.97 ft (2.124 m), minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	143	150	160	220	218	240	976	511	29	6.0	2.1
2	79	138	145	160	215	218	250	1080	462	22	6.5	1.6
3	77	130	174	175	220	215	255	898	472	23	6.0	1.0
4	78	132	279	185	215	207	240	717	421	17	10	2.7
5	78	138	421	180	220	210	225	579	379	15	9.0	2.4
6	76	135	290	172	220	212	240	468	370	16	6.5	1.4
7	69	130	170	160	220	206	283	418	424	16	3.7	2.1
8	64	120	160	152	220	199	297	373	384	16	4.1	3.7
9	63	128	145	156	220	199	277	267	336	16	3.3	3.3
10	70	138	140	156	240	195	274	434	293	12	4.5	2.1
11	94	145	150	150	230	188	293	522	250	11	5.0	2.2
12	102	150	162	162	250	204	253	515	228	11	4.5	3.1
13	119	165	170	162	250	200	235	472	192	9.7	4.1	2.9
14	136	145	175	160	301	190	206	508	170	9.7	3.7	3.1
15	138	140	175	155	531	190	197	571	158	9.7	3.0	2.5
16	160	138	170	155	397	190	253	482	134	8.3	3.3	5.0
17	181	135	180	158	351	180	333	367	128	9.0	3.3	3.4
18	178	138	190	150	367	180	319	354	90	9.0	3.3	2.1
19	175	132	190	145	336	200	448	398	70	8.3	4.1	2.1
20	165	128	180	140	351	238	493	421	62	8.3	4.1	1.8
21	160	133	180	135	339	210	395	392	70	10	3.7	1.8
22	160	135	190	140	302	210	382	339	76	9.7	4.1	1.8
23	160	140	200	135	274	210	563	304	60	9.7	3.0	1.8
24	150	132	185	135	269	200	774	299	54	7.6	2.7	2.4
25	150	130	178	132	261	200	932	376	52	7.6	1.6	2.1
26	150	120	175	128	245	319	917	522	43	9.7	1.4	3.1
27	158	128	180	150	238	341	683	630	40	9.7	1.4	3.3
28	163	135	178	375	220	280	552	650	36	10	1.8	4.1
29	155	145	172	409	---	270	548	658	38	7.6	1.6	4.1
30	150	150	170	298	---	280	774	626	38	8.3	1.6	3.9
31	148	---	165	248	---	265	---	602	---	7.6	2.1	---
TOTAL	3911	4096	5789	5478	7722	6824	12131	16218	6041	373.5	123.0	79.0
MEAN	126	137	187	177	276	220	404	523	201	12.0	3.97	2.63
MAX	181	165	421	409	531	341	932	1080	511	29	10	5.0
MIN	63	120	140	128	215	180	197	267	36	7.6	1.4	1.0
AC-FT	7760	8120	11480	10870	15320	13540	24060	32170	11980	741	244	157
CAL YR 1980	TOTAL	234980.0	MEAN	642	MAX	6600	MIN	40	AC-FT	466100		
WTR YR 1981	TOTAL	68785.5	MEAN	188	MAX	1080	MIN	1.0	AC-FT	136400		

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV
(National stream-quality accounting network station)

LOCATION.--Lat 39°17'30", long 119°18'40", in SW¼ 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, Aug. 8 to Sept. 30, which are poor. Many diversions for irrigation above station, including diversions for irrigation of 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.--70 years, 359 ft³/s (10.17 m³/s), 260,100 acre-ft/yr (321 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.--Maximum discharge, 970 ft³/s (27.5 m³/s) May 3, gage height 3.47 ft (1.058 m), no peak above base of 1400 ft³/s (39.6 m³/s); minimum daily, 0.05 ft³/s (0.0014 m³/s) Aug. 5-9, Sept. 16-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	136	141	188	254	205	239	667	459	21	.35	.10
2	52	133	142	184	236	204	227	835	399	15	.22	.10
3	43	130	142	179	234	203	232	848	375	12	.22	.10
4	29	125	170	186	226	198	236	696	369	10	.22	.10
5	26	119	277	197	212	190	226	561	332	8.0	.12	.10
6	30	119	324	199	215	183	202	478	310	6.8	.05	.10
7	33	122	228	191	221	182	196	407	350	5.6	.05	.10
8	27	125	187	178	216	174	232	367	346	4.8	.05	.10
9	21	116	174	177	223	172	247	332	298	3.8	.05	.10
10	18	113	162	171	227	170	233	359	250	2.9	.10	.10
11	24	111	155	172	240	162	228	407	215	2.1	.20	.10
12	42	129	167	169	232	168	234	448	180	1.8	.30	.10
13	55	137	178	170	250	177	206	413	160	1.4	.20	.10
14	77	149	187	178	248	175	187	392	140	1.4	.15	.10
15	98	141	188	180	357	168	153	477	120	1.2	.10	.10
16	111	132	192	179	448	164	149	474	105	.70	.10	.05
17	130	129	190	180	348	163	204	384	84	.92	.10	.05
18	156	123	196	181	337	161	280	325	60	.92	.10	.05
19	162	121	201	178	330	168	331	335	54	.92	.10	.05
20	160	116	203	174	311	184	396	375	51	.70	.10	.05
21	154	118	197	171	324	208	383	374	48	.70	.10	.05
22	145	126	198	163	299	199	323	328	54	1.2	.10	.05
23	147	127	205	161	271	199	349	296	56	1.2	.10	.05
24	153	127	212	160	260	190	506	278	56	1.2	.10	.05
25	141	124	201	163	247	172	695	265	46	1.2	.10	.05
26	144	115	195	165	237	178	790	351	39	.92	.10	.05
27	141	117	192	162	222	261	709	469	30	1.2	.10	.05
28	144	118	197	217	214	271	545	520	27	.92	.10	.05
29	153	125	199	392	---	252	440	517	26	.70	.10	.05
30	150	133	197	365	---	245	492	482	25	.70	.10	.05
31	144	---	192	287	---	252	---	464	---	.70	.10	---
TOTAL	2961	3756	5989	6017	7439	5998	9870	13924	5064	112.60	3.98	2.25
MEAN	95.5	125	193	194	266	193	329	449	169	3.63	.13	.075
MAX	162	149	324	392	448	271	790	848	459	21	.35	.10
MIN	18	111	141	160	212	161	149	265	25	.70	.05	.05
AC-FT	5870	7450	11880	11930	14760	11900	19580	27620	10040	223	7.9	4.5

CAL YR 1980 TOTAL 221366.10 MEAN 605 MAX 5630 MIN 2.8 AC-FT 439100
WTR YR 1981 TOTAL 61136.83 MEAN 167 MAX 848 MIN .05 AC-FT 121300

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 current year, monthly.
 SPECIFIC CONDUCTANCES: October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to current year, once daily.
 BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
 MICROBIOLOGICAL DATA: January 1975 to current year, monthly.
 WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to current year, once daily.
 SEDIMENT DATA: January to June 1974, occasional; January 1975 to current year, monthly.

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 are 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, 611 micromhos July 23; minimum, 128 micromhos May 3.
 WATER TEMPERATURES: Maximum, 22.0°C Sept. 15; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT										
16...	0900	106	427	8.2	8.0	.70	9.7	96	100	160
NOV										
17...	1025	136	423	8.1	4.5	1.4	11.1	99	K4	K24
DEC										
10...	1120	175	434	8.2	.0	3.5	11.7	91	K30	88
JAN										
13...	0925	175	384	8.2	1.5	3.2	11.0	90	K4	K9
MAR										
18...	1050	162	359	7.8	8.0	4.5	9.9	97	K7	K21
APR										
09...	1130	249	281	7.9	13.0	17	9.6	107	K31	140
MAY										
06...	1215	491	204	7.4	14.0	25	8.7	98	52	76
JUN										
11...	1015	E215	292	--	18.0	5.7	7.8	98	68	78
JUL										
16...	0930	54	593	8.4	18.0	3.7	7.1	88	K18	K64
AUG										
13...	1000	E.20	598	8.0	21.5	4.0	5.9	78	K20	280
SEP										
15...	1010	E.10	585	8.5	22.0	5.6	6.3	84	92	40

K: NON-IDEAL COLONY COUNT.

E: ESTIMATED.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 16...	130	36	8.6	37	1.4	5.1	150	0	120	67
NOV 17...	130	39	8.6	38	1.4	4.8	140	0	110	80
DEC 10...	130	38	9.6	39	1.5	4.8	150	0	120	70
JAN 13...	110	33	7.0	32	1.3	3.6	120	0	98	68
MAR 18...	110	33	6.9	31	1.3	3.3	120	0	98	67
APR 09...	86	25	5.6	25	1.2	2.9	93	0	76	49
MAY 06...	63	18	4.3	17	.9	2.7	79	0	65	32
JUN 11...	92	26	6.5	24	1.1	3.7	--	--	--	52
JUL 16...	190	54	13	49	1.6	5.4	200	4	170	140
AUG 13...	190	53	13	51	1.7	5.9	200	0	160	130
SEP 15...	180	52	13	52	1.8	6.5	--	--	--	140

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, 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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 16...	11	.4	24	277	262	79.3	.19	.010	.18	.030
NOV 17...	14	.4	22	266	280	97.7	.25	.010	.26	.180
DEC 10...	14	.4	29	279	279	132	.42	.010	.45	.440
JAN 13...	12	.4	25	232	244	110	.69	.030	.70	.110
MAR 18...	12	.3	24	236	232	103	.44	.020	.46	.080
APR 09...	8.3	.3	23	188	185	126	.31	.010	.35	.030
MAY 06...	5.3	.2	20	149	141	198	.17	.020	.19	.140
JUN 11...	7.9	.3	22	193	196	--	.09	.010	.00	.090
JUL 16...	20	.4	30	390	415	56.9	.05	.010	.04	.100
AUG 13...	14	.4	30	400	387	--	--	.010	<.10	.070
SEP 15...	17	.4	27	395	393	--	--	<.020	.12	.140

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEED TOTAL (MG/L AS C)
OCT 16...	.020	.73	.67	.96	.87	.320	.280	--	6.1	--
NOV 17...	.050	.36	.35	.80	.66	.280	.260	3.6	--	--
DEC 10...	.420	.52	.57	1.4	1.4	.360	.370	5.8	--	--
JAN 13...	.140	1.3	.57	2.1	1.4	.360	.310	--	5.7	.2
MAR 18...	.000	1.1	.63	1.7	1.1	.350	.290	2.9	--	--
APR 09...	.040	1.3	.95	1.6	1.3	.350	.240	--	4.1	.3
MAY 06...	.090	.65	.40	.98	.68	.310	.190	--	5.1	.9
JUN 11...	.050	.28	.32	.47	.37	.270	.210	7.5	--	--
JUL 16...	.110	.69	.22	.85	.37	.140	.140	--	2.0	.4
AUG 13...	.070	.47	.29	--	--	.130	.090	2.4	--	--
SEP 15...	.130	.83	.66	--	.91	.080	.050	--	4.6	1.4

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)	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)
JAN 13...	0925	8	7	100	50	0	<1	0	0	2
MAY 06...	1215	8	8	100	100	0	<1	30	0	2
JUL 16...	0930	8	9	100	80	0	<1	10	0	1
SEP 15...	1010	9	9	100	64	0	<1	10	0	0

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN 13...	<3	4	1	410	40	3	0	50	10	.3
MAY 06...	<3	14	3	2500	100	12	1	140	10	2.5
JUL 16...	<3	4	3	330	20	1	0	110	80	1.2
SEP 15...	<3	7	2	450	<10	4	2	110	27	1.0

CARSON RIVER BASIN

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10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN 13...	.0	2	2	0	0	0	0	20	5
MAY 06...	.4	6	0	0	0	0	0	30	3
JUL 16...	.1	2	2	0	0	0	0	--	20
SEP 15...	.7	3	0	0	0	1	0	20	9

DATE	TIME	SEDI- MENT, DIS- SOLVED (MG/L)	SEDI- MENT, CHARGE, SUS- PENDED (T/DAY)
OCT 16...	0900	35	10
NOV 17...	1025	10	3.7
DEC 10...	1120	12	5.7
JAN 13...	0925	15	7.1
MAR 18...	1050	58	25
APR 09...	1130	28	19
MAY 06...	1215	98	130
JUN 11...	1015	38	--
JUL 16...	0930	9	1.3
AUG 13...	1000	12	--
SEP 15...	1010	12	--

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 16,80	NOV 17,80	MAR 18,81	MAY 6,81
TIME	0900	1025	1050	1215
TOTAL CELLS/ML	1700	210	610	3500
DIVERSITY: DIVISION	1.5	0.3	0.1	1.1
...CLASS	1.5	0.3	0.1	1.1
...ORDER	2.9	1.8	1.7	2.8
...FAMILY	3.0	2.0	1.8	3.1
...GENUS	3.1	2.5	1.8	3.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
...ACHNANTHES	--	-	--	-	--	-	70	2
...COCONEIS	--	-	--	-	--	-	35	1
...RHOICOSPHEA	--	-	--	-	--	-	*	0
..BACILLARIALES								
...NITZSCHIA	140	8	26	13	90	15	280	8
..EUPODISCALES								
...COSCONODISCACEAE								
...CYCLOTELLA	230	14	26	13	--	-	280	8
...MELOSIRA	26	2	--	-	--	-	35	1
...STEPHANODISCUS	--	-	--	-	64	11	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	--	-	--	-	--	-
...DIATOMA	--	-	77#	38	--	-	35	1
...FRAGILARIA	340#	20	--	-	350#	57	1200#	33
...SYNEDRA	26	2	39#	19	--	-	--	-
..NAVICULALES								
...CYMBELLACEAE								
...AMPHORA	--	-	--	-	13	2	*	0
...CYMBELLA	--	-	--	-	--	-	35	1
...GOMPHONEMACEAE								
...GOMPHONEMA	13	1	13	6	--	-	52	1
...NAVICULACEAE								
...NAVICULA	39	2	13	6	77	13	330	9
..SURIPELLALES								
...SURIPELLACEAE								
...SURIPELLA	--	-	--	-	--	-	87	2
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACTINIACEAE								
...MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	26	2	--	-	13	2	140	4
...KIRCHNERIELLA	--	-	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	70	2
...SCENEDESMACEAE								
...CRUCIGENIA	--	-	--	-	--	-	280	8
...SCENEDESMUS	210	12	--	-	--	-	140	4
...TETRASTRUM	--	-	--	-	--	-	70	2
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	64	4	--	-	--	-	160	4
...PHACOTACEAE								
...PTEROMONAS	13	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	--	-	--	-	--	-	35	1
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...AGMENELLUM	--	-	--	-	--	-	--	-
...ANACYSTIS	13	1	13	6	--	-	70	2
..NOSTOCALES								
...NOSTOCACEAE								
...ANABAENA	180	11	--	-	--	-	--	-
...APHANIZOMENON	--	-	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIA								
...LYNGBYA	--	-	--	-	--	-	--	-
...OSCILLATORIA	360#	21	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...TRACHELOMONAS	13	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV---Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUN 11,81	JUL 16,81	AUG 13,81	SEP 15,81
TIME	1015	0930	1000	1010
TOTAL CELLS/ML	1400	4600	2500	1800
DIVERSITY: DIVISION	0.4	0.8	1.0	1.2
..CLASS	0.4	0.8	1.0	1.2
..ORDER	2.1	1.8	1.8	1.5
...FAMILY	2.3	1.8	1.9	1.6
....GENUS	2.7	1.9	2.2	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIA	240#	18	100	2	28	1	42	2
...EUPODISCALES								
...COSCINODISCACEAE								
...CYCLOTELLA	260#	19	51	1	56	2	--	-
...MELOSIRA	150	11	--	-	--	-	--	-
...STEPHANODISCUS	--	-	--	-	--	-	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	--	-	14	1	--	-
...DIATOMA	64	5	--	-	--	-	--	-
...FRAGILARIA	420#	31	310	7	210	8	1300#	71
...SYNEDRA	--	-	--	-	--	-	--	-
..NAVICULALES								
...CYMBELLACEAE								
...AMPHORA	--	-	--	-	--	-	--	-
...CYMBELLA	13	1	--	-	--	-	--	-
...GOMPHONEMACEAE								
...GOMPHONEMA	13	1	--	-	--	-	--	-
...NAVICULACEAE								
...NAVICULA	100	8	*	0	--	-	14	1
..SURIPELLALES								
...SURIPELLACEAE								
...SURIPELLA	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACTINIACEAE								
...MICRACTINIUM	--	-	--	-	42	2	14	1
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	120	3	140	6	150	8
...KIRCHNERIELLA	--	-	26	1	--	-	--	-
...SELENASTRUM	51	4	--	-	--	-	14	1
...SCENEDESMACEAE								
...CRUCIGENIA	--	-	--	-	--	-	--	-
...SCENEDESMUS	--	-	51	1	--	-	--	-
...TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	26	2	26	1	--	-	14	1
...PHACOTACEAE								
...PTEROMONAS	13	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	26	1	--	-	14	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...AGMENELLUM	--	-	--	-	--	-	56	3
...ANACYSTIS	--	-	2400#	53	--	-	--	-
..NOSTOCALES								
...NOSTOCACEAE								
...ANABAENA	--	-	--	-	1400#	55	190	11
...APHANIZOMENON	--	-	1400#	31	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIA								
...LYNGBYA	--	-	--	-	350	14	--	-
...OSCILLATORIA	--	-	--	-	250	10	--	-
EUGLENOPHYTA (EUGLENIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...TRACHELOMONAS	--	-	26	1	42	2	14	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	3.0	2.5	1.0	5.0	9.0	16.5	19.0	19.0	19.0	14.5
2	15.0	---	7.0	3.0	1.5	6.0	10.0	15.0	17.0	19.0	14.0	14.5
3	16.0	8.0	7.0	3.5	.0	6.0	9.0	14.0	18.0	19.0	15.0	15.5
4	17.0	8.0	6.0	5.0	.0	6.0	9.0	13.0	19.0	19.0	---	15.5
5	15.0	8.0	2.5	4.0	2.0	6.5	9.0	13.0	20.0	18.0	15.0	15.5
6	14.0	9.0	1.5	2.0	2.5	7.0	10.0	13.0	20.0	17.0	16.0	13.0
7	15.0	10.0	1.0	1.0	2.0	7.0	11.0	12.5	19.0	14.0	18.0	13.0
8	13.0	10.5	.0	.5	3.5	7.5	10.0	13.0	19.0	14.0	18.0	15.5
9	13.0	8.0	.0	.0	4.5	7.0	12.5	14.5	19.0	---	18.5	16.5
10	13.0	7.0	1.5	2.0	4.0	7.5	13.0	15.0	18.0	14.5	17.0	16.5
11	13.5	9.0	---	.0	5.0	7.0	11.0	15.0	18.0	14.5	17.0	16.0
12	13.0	8.0	.5	1.0	6.0	7.0	12.0	15.0	17.0	12.0	17.0	17.5
13	10.0	6.0	.0	1.5	6.5	8.0	11.0	15.0	15.0	15.0	18.5	18.0
14	8.0	4.0	.0	1.0	7.5	7.0	11.0	16.0	15.0	15.0	17.0	17.0
15	9.0	6.0	1.0	2.0	7.5	8.0	13.0	15.0	15.0	---	16.0	16.0
16	7.0	3.0	.0	3.5	---	8.0	14.0	12.5	16.0	17.0	18.0	15.0
17	6.0	4.0	.0	3.0	8.0	7.0	13.5	12.5	16.0	16.0	20.0	16.5
18	7.5	4.0	2.0	4.5	8.0	6.5	16.0	14.0	18.0	16.0	16.5	15.0
19	7.5	3.0	3.0	3.0	8.5	8.0	12.0	13.5	20.0	17.0	16.0	16.0
20	6.0	3.0	3.0	3.0	6.5	7.0	---	13.0	20.0	18.0	14.0	12.5
21	9.0	3.0	4.0	5.0	4.5	7.0	13.0	12.0	20.0	18.0	14.5	11.0
22	10.0	4.0	---	5.0	4.0	8.0	14.0	15.0	21.0	17.0	15.5	9.0
23	7.0	6.0	4.0	6.5	5.0	7.0	16.0	17.0	19.0	16.0	15.5	---
24	6.0	4.0	---	5.0	6.0	9.0	16.5	18.0	17.0	17.5	13.5	8.0
25	10.0	3.0	---	---	5.0	8.0	15.0	17.0	20.0	16.5	13.0	10.0
26	7.5	1.0	4.0	5.0	4.0	---	13.0	16.0	20.0	17.0	16.0	9.5
27	8.0	1.0	4.0	5.0	3.5	7.0	11.5	---	19.0	17.5	17.0	11.5
28	6.0	1.0	5.0	5.0	4.0	8.0	---	16.0	20.0	18.5	19.0	---
29	6.0	3.5	3.5	3.5	---	10.5	15.0	19.0	21.0	17.0	16.5	11.0
30	5.5	5.0	2.5	3.5	---	8.0	16.0	20.0	---	15.5	15.5	8.5
31	---	---	2.5	2.5	---	---	---	20.0	---	15.0	13.5	---
MEAN	10.5	5.5	2.5	3.0	4.5	7.5	12.5	15.0	18.5	16.5	16.5	14.0
MAX	17.0	10.5	7.0	6.5	8.5	10.5	16.5	20.0	21.0	19.0	20.0	18.0
MIN	5.5	1.0	.0	.0	.0	5.0	9.0	12.0	15.0	12.0	13.0	8.0
WTR YR 1981 MEAN		10.5	MAX	21.0	MIN	.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	397	408	368	452	325	304	168	205	550	571	520
2	476	---	408	375	442	335	318	146	211	540	571	520
3	500	397	416	375	416	335	318	128	224	550	571	520
4	556	404	400	375	400	335	318	140	216	550	---	520
5	556	419	386	375	392	330	318	168	235	550	591	520
6	571	419	342	362	392	335	329	198	260	560	591	520
7	556	411	424	362	385	335	340	217	260	550	591	520
8	540	419	424	375	371	341	323	229	235	591	591	520
9	563	419	442	382	371	347	291	240	247	---	591	---
10	588	419	442	382	371	353	291	259	267	570	581	572
11	588	434	442	389	365	353	300	246	291	596	581	572
12	571	404	424	375	385	371	279	219	321	586	591	562
13	526	404	408	382	378	371	283	206	338	---	581	582
14	500	404	379	389	371	341	304	215	338	586	571	588
15	465	391	360	375	371	353	323	208	384	---	571	582
16	435	411	348	382	---	359	364	190	393	581	581	582
17	417	419	348	382	274	359	364	210	418	581	591	582
18	400	419	348	382	297	359	309	252	437	586	581	582
19	370	419	342	382	288	359	246	288	481	570	581	582
20	370	419	342	389	297	359	---	288	506	570	581	582
21	370	419	342	389	281	347	246	252	506	570	591	582
22	370	426	---	389	281	335	275	273	542	570	581	582
23	385	419	348	396	288	347	291	306	542	611	581	---
24	385	419	348	396	306	347	243	325	542	601	581	582
25	385	411	---	---	315	347	185	325	542	591	581	582
26	385	419	354	396	325	---	134	325	542	591	581	582
27	385	419	366	389	320	347	134	---	534	560	581	582
28	385	419	366	382	325	297	---	227	534	591	581	---
29	385	426	372	362	---	306	192	212	542	591	581	582
30	385	434	366	350	---	325	217	210	---	581	591	582
31	---	---	372	438	---	---	---	219	---	581	601	---
MEAN	462	415	382	382	350	343	280	230	383	575	583	562
MAX	588	434	442	438	452	371	364	325	542	611	601	588
MIN	370	391	342	350	274	297	134	128	205	540	571	520
WTR YR 1981 MEAN		412	MAX	611	MIN	128						

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW 1/4 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 elevations, 4,060.0 ft (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m³) of dead storage below elevation 4,070.0 ft (1,240.54 m). Surface area at spillway elevation, 12,120 acres (49.0 km²). Water is used for irrigation of 87,500 acres (354 km²) in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 243,400 acre-ft (300 hm³) Apr. 3, 4, elevation, 4,157.02 ft (1,267.060 m); minimum observed, 44,540 acre-ft (54.9 hm³) Sept. 30, elevation, 4,117.44 ft (1,255.000 m).

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

4,117	43,520	4,140	127,800
4,120	50,890	4,145	155,440
4,125	65,300	4,150	187,200
4,130	82,700	4,155	225,600
4,135	103,500	4,161	283,500

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168400	147700	156100	192600	211600	224400	243100	235700	233500	189300	131200	80740
2	167610	147300	157300	194100	212200	225500	243200	235600	232800	187000	129300	79400
3	166600	147000	158400	195000	212900	226500	243400	235700	232200	184900	127400	78080
4	165700	146700	159600	195800	213400	227500	243400	235800	231400	183000	125700	76160
5	164400	146200	160900	196800	213800	228400	243200	236000	230900	181400	123800	74740
6	163600	145800	162100	197800	214300	229400	242700	235300	230400	179700	122000	73490
7	162200	145400	163400	198900	214800	230200	242600	234900	230000	177700	120500	72280
8	161400	145200	164600	200200	215300	231100	242500	234600	229000	175800	118800	71130
9	160900	144700	165800	201100	215800	231800	242100	233700	228500	173800	117000	69780
10	160200	144100	167100	201900	216400	232700	241700	232800	227800	171900	115400	68460
11	159100	143500	167900	202200	216600	233500	241200	233200	226500	170000	113700	67120
12	157900	143200	168900	202500	217000	234400	240700	232000	225600	168100	112000	65770
13	156700	143000	169900	202900	217800	235500	240100	231400	224100	166200	110100	64190
14	155900	142800	170900	203300	218300	236400	239500	230800	222700	164300	108400	62460
15	155000	142800	172100	203700	218900	237200	239000	230000	221100	162400	106700	60920
16	154300	143200	173400	204000	219500	238000	237700	228700	219600	160400	105100	59720
17	154000	143800	174700	204600	220400	238300	236400	228800	218600	158600	103400	58440
18	153600	144300	175800	205100	221200	238700	235800	228000	217200	156700	101600	57200
19	153400	144800	176600	205600	221900	239200	235300	228900	215700	154900	100200	55960
20	153000	145400	177200	206000	222700	239500	234900	230000	213700	153200	98770	54730
21	152700	145800	179100	206400	222900	240300	234600	230100	211700	151200	98130	53550
22	152100	146800	180700	206900	223100	241200	234600	230600	209600	149600	95630	52370
23	151200	147900	181600	207200	223200	240700	234600	230600	207400	147600	94060	51200
24	150900	149100	182500	207500	223200	241100	234500	230600	205100	145600	92510	50060
25	150500	149600	184700	207900	222500	241200	234700	230600	203300	143700	91070	48910
26	150200	151000	185500	208300	222400	241100	234800	232900	201500	141700	89640	47780
27	149600	152000	187700	208700	222400	241000	235400	233500	198900	140200	88220	46800
28	149300	153000	188200	209300	223400	241400	235100	234200	196400	138400	86590	45970
29	148700	154000	189000	209600	---	241800	236400	234600	193700	136600	84980	45160
30	148400	155000	189900	210500	---	242300	236200	234300	191500	134600	83390	44540
31	148000	---	191400	211000	---	242800	---	234000	---	133000	82090	---
MAX	168400	155000	191400	211000	223400	242800	243400	236000	233500	189300	131200	80740
MIN	148000	142800	156100	192600	211600	224400	234500	228000	191500	133000	82090	44540
†	4143.72	4144.92	4150.63	4153.22	4154.74	4156.96	4156.22	4155.97	4150.62	4140.99	4129.84	4117.44
‡	-21300	+7000	+36400	+19600	+12400	+19400	-6600	-2200	-42500	-58500	-50910	-37550
CAL YR 1980	MAX	278000	MIN	142800	‡	+ 17300						
WTR YR 1981	MAX	243400	MIN	44540	‡	-124760						

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

CARSON RIVER BASIN

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 1.1 mi (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.--15 years, 519 ft³/s (14.70 m³/s), 376,000 acre-ft/yr (464 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, 1,120 ft³/s (31.7 m³/s), gage height, 4.80 ft (1.463 m) June 27; minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Jan. 16 to Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	618	412	6.8	6.5	6.0	7.4	399	728	819	1100	944	830
2	617	412	6.8	6.5	6.0	7.4	412	756	819	1010	941	841
3	614	412	6.8	6.5	6.0	7.4	442	769	820	958	938	793
4	612	409	6.8	6.5	6.0	7.4	528	773	753	871	936	761
5	612	409	6.8	6.5	6.0	7.4	528	806	696	812	935	756
6	609	409	6.8	6.5	6.0	7.4	528	828	681	838	930	773
7	606	409	6.8	6.5	6.0	7.4	528	832	633	929	952	766
8	606	409	6.7	6.5	6.0	7.4	528	823	586	933	960	765
9	602	409	6.7	6.5	6.0	7.4	528	790	713	935	960	763
10	602	405	6.7	6.5	6.0	7.4	565	773	761	935	953	761
11	599	405	6.7	6.5	6.0	7.4	664	760	764	939	948	753
12	599	383	6.7	6.5	6.0	7.4	664	858	765	939	945	744
13	599	316	6.7	6.5	6.0	7.4	668	946	766	944	938	746
14	595	275	6.7	6.5	6.0	7.4	664	964	768	944	935	758
15	554	98	6.7	6.5	6.0	7.4	692	964	771	945	934	753
16	448	6.8	6.7	6.0	6.0	65	712	866	770	945	928	723
17	422	6.8	6.7	6.0	6.0	263	712	724	817	947	927	697
18	419	6.8	6.7	6.0	6.0	262	700	652	840	951	921	672
19	419	6.8	6.7	6.0	6.0	189	543	668	846	950	912	678
20	419	6.8	6.6	6.0	117	222	547	490	972	947	914	671
21	419	6.8	6.6	6.0	191	224	543	438	975	948	905	666
22	419	6.8	6.6	6.0	192	212	547	432	974	950	863	671
23	415	6.8	6.6	6.0	296	287	587	432	996	954	863	668
24	415	6.8	6.6	6.0	429	389	602	435	1060	951	856	666
25	415	6.8	6.6	6.0	480	455	602	432	1100	952	854	659
26	415	6.8	6.6	6.0	480	455	572	428	1110	954	853	606
27	415	6.8	6.6	6.0	174	422	565	428	1110	957	850	577
28	415	6.8	6.6	6.0	7.4	361	591	459	1110	952	856	576
29	415	6.8	6.6	6.0	---	328	656	720	1110	951	830	529
30	415	6.8	6.6	6.0	---	322	716	823	1100	950	850	465
31	412	---	6.6	6.0	---	374	---	819	---	949	847	---
TOTAL	15741	5674.0	207.2	193.5	2480.4	4941.0	17533	21616	26005	29240	28178	21087
MEAN	508	189	6.68	6.24	88.6	159	584	697	867	943	909	703
MAX	618	412	6.8	6.5	480	455	716	964	1110	1100	960	841
MIN	412	6.8	6.6	6.0	6.0	7.4	399	428	586	812	830	465
AC-FT	31220	11250	411	384	4920	9800	34780	42880	51580	58000	55890	41830
CAL YR 1980	TOTAL	245653.7	MEAN	671	MAX	1770	MIN	4.5	AC-FT	487300		
WTR YR 1981	TOTAL	172896.1	MEAN	474	MAX	1110	MIN	6.0	AC-FT	342900		

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, 204 micromhos July 15, 1980.

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, 1.0°C Jan. 2, 1975.

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, 380 micromhos Jan. 13; minimum, 219 micromhos Nov. 5-8.

WATER TEMPERATURES: Maximum, 22.5°C Aug. 30; minimum, 1.5°C Dec. 11, Jan. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 15...	1235	576	220	7.9	15.5	8.1	94
NOV 19...	1020	44	295	8.5	7.0	11.6	109
DEC 17...	1025	34	--	8.6	4.0	12.2	107
JAN 13...	1325	86.5	380	8.8	7.5	12.4	119
MAR 19...	1215	222	297	7.7	8.5	9.0	90
APR 09...	0920	490	242	7.8	8.5	11.3	112
MAY 06...	0925	835	248	7.9	12.0	--	--
JUN 10...	0940	760	245	--	17.0	8.9	107
JUL 15...	1245	950	275	--	20.0	7.5	95
AUG 12...	0900	946	294	8.4	21.0	6.4	83
SEP 17...	1240	712	323	8.5	21.5	7.4	96

E: ESTIMATED.

CARSON RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 15...	.49	.020	.050	.40	.96	.200	.200
NOV 19...	.37	.010	.040	.59	1.0	.200	.180
DEC 17...	.40	.020	.050	.40	.87	.200	.190
JAN 13...	.29	.050	.040	1.1	1.4	.170	.190
MAR 19...	.77	.080	--	--	--	.770	.710
APR 09...	.67	.010	.140	.78	1.6	.300	.230
MAY 06...	.53	.020	.130	.35	1.0	.260	.200
JUN 10...	.15	.030	.100	.41	.69	.180	--
JUL 15...	.08	.020	.100	.59	.79	.160	.130
AUG 12...	.14	.040	<.060	--	1.1	.250	.220
SEP 17...	.27	.030	.100	.64	1.0	.260	.260

CARSON RIVER BASIN

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	5.0	---	2.0	5.5	8.0	12.0	15.0	20.0	20.5	21.0
2		---	6.5	3.0	2.5	6.0	8.0	12.0	15.0	20.0	20.0	22.0
3		---	6.5	5.0	---	4.5	8.5	11.5	14.5	19.0	21.0	21.0
4		---	6.5	5.0	2.0	6.0	8.5	13.0	15.0	19.0	20.5	21.0
5		13.0	5.5	4.0	2.0	5.5	8.0	12.0	15.0	19.0	20.0	21.0
6		12.5	4.0	1.5	3.0	6.0	9.0	12.0	15.5	19.0	21.0	21.0
7		12.5	3.0	2.5	3.0	5.0	8.5	12.0	16.0	19.0	21.0	21.0
8		11.0	2.0	2.0	3.0	6.0	8.5	12.5	16.0	19.0	21.0	20.5
9		12.5	2.5	2.0	4.5	5.5	8.5	12.5	16.5	19.0	21.0	20.5
10		12.0	---	4.0	3.5	5.0	9.5	13.0	17.0	19.5	21.0	20.5
11		12.0	1.5	2.5	5.0	---	10.0	13.0	16.0	20.0	21.0	21.5
12		11.5	3.0	3.0	5.0	---	10.0	13.5	16.0	19.5	20.0	21.0
13		11.0	3.0	3.5	5.5	5.0	10.0	12.5	17.0	19.5	21.0	21.5
14		10.5	2.0	3.0	6.5	6.0	9.5	13.0	17.0	19.0	21.0	21.0
15		10.0	3.0	3.0	5.0	7.0	10.0	13.0	17.0	21.0	21.0	21.0
16		6.0	3.0	4.0	5.0	7.0	10.0	13.5	17.0	20.0	21.0	21.0
17		7.0	3.0	4.5	6.5	8.0	10.0	13.5	17.0	22.0	---	21.0
18		7.0	3.5	3.5	7.0	---	9.0	13.0	17.0	19.0	22.0	21.0
19		7.0	3.0	4.5	7.5	8.5	10.0	13.5	17.0	19.5	21.5	21.0
20		6.5	5.0	4.0	4.0	8.5	11.0	14.0	17.5	20.0	20.5	20.5
21		---	4.0	4.0	6.0	9.5	11.0	13.5	18.0	20.0	21.0	20.0
22		---	4.5	5.5	6.0	9.0	10.0	13.5	18.0	21.0	21.0	20.0
23		---	4.5	---	6.0	10.0	10.0	13.5	18.0	21.0	21.0	19.5
24		6.0	3.0	4.5	6.0	---	11.0	14.0	18.0	20.0	21.0	19.5
25		5.0	5.0	4.0	6.0	10.0	11.0	14.0	18.5	20.0	21.0	18.5
26		4.5	4.0	3.0	5.5	9.5	11.5	14.0	17.5	20.0	21.0	18.0
27		5.5	4.5	5.0	---	9.0	11.0	14.5	18.0	20.5	21.0	18.5
28		6.0	5.5	3.5	5.5	8.0	11.0	14.0	18.0	20.0	21.5	18.0
29		6.0	4.0	3.5	---	8.0	11.0	14.5	18.5	21.0	22.0	17.5
30		6.0	3.5	3.5	---	8.5	11.5	14.5	19.0	22.0	22.5	16.0
31		---	3.0	3.0	---	8.5	---	14.5	---	21.0	21.0	---
MEAN		8.5	4.0	3.5	5.0	7.0	10.0	13.0	17.0	20.0	21.0	20.0
MAX		13.0	6.5	5.5	7.5	10.0	11.5	14.5	19.0	22.0	22.5	22.0
MIN		4.5	1.5	1.5	2.0	4.5	8.0	11.5	14.5	19.0	20.0	16.0
WTR YR 1981	MEAN	12.0	MAX	22.5	MIN	1.5						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	270	320	303	277	241	261	261	273	285	312
2		---	273	325	303	281	244	261	261	273	285	312
3		---	276	330	---	277	247	261	261	265	285	312
4		---	270	347	308	277	247	255	261	275	285	312
5		219	279	347	299	274	241	261	265	275	306	312
6		219	---	347	295	281	247	258	265	275	296	312
7		219	270	347	295	281	247	258	261	275	290	312
8		219	283	353	291	281	247	246	261	275	290	312
9		221	283	341	291	281	247	255	261	275	296	312
10		221	283	335	295	285	247	249	265	280	296	312
11		221	276	341	295	---	247	258	260	280	296	312
12		221	225	341	295	---	247	258	261	280	296	312
13		221	312	341	291	285	250	258	265	280	296	317
14		221	286	335	287	293	253	255	265	280	296	322
15		226	279	341	295	293	253	255	265	280	296	322
16		256	276	347	293	289	250	240	265	285	296	328
17		256	283	342	288	248	248	255	265	293	296	328
18		256	283	337	288	---	253	234	265	285	296	328
19		---	282	342	288	297	253	234	265	285	296	328
20		258	---	337	281	306	251	234	268	285	296	328
21		---	285	---	236	291	251	229	268	285	301	328
22		---	285	337	236	283	251	229	268	285	296	328
23		258	289	326	239	295	251	255	268	285	296	333
24		260	293	322	236	---	251	252	268	285	306	338
25		258	258	317	239	253	251	249	272	285	301	338
26		263	285	312	239	253	251	255	272	285	301	343
27		258	258	317	---	279	245	255	272	285	306	343
28		258	285	317	270	247	257	255	272	290	306	343
29		258	293	308	---	247	257	261	272	290	306	343
30		273	310	312	---	247	264	261	272	290	306	343
31		---	319	303	---	247	---	255	---	290	326	---
MEAN		241	281	332	280	276	250	252	266	282	298	324
MAX		273	319	353	308	306	264	261	272	293	326	343
MIN		219	225	303	236	247	241	229	260	265	285	312
WTR YR 1981	MEAN	281	MAX	353	MIN	219						

CARSON RIVER BASIN

OUTFALL FROM NEWLANDS PROJECT INTO STILLWATER NATIONAL WILDLIFE REFUGE, NEAR FALLON, NV

The following four canals, which are equipped with water-stage recorders, combined with 10312280 Carson River below Fallon (see next page), measure outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback, Gun Club, and Carson Sink. Records are poor.

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV.--Lat 39°28'25", long 118°35'50", in NE¼NE¼ sec. 34, T.19 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 0.2 mi (0.6 km) downstream from a channel to Stillwater Slough and 10 mi (16 km) east of Fallon. Discontinued Sept. 1981.

10312260 INDIAN LAKES CANAL NEAR FALLON, NV.--Lat 39°34'30", long 118°41'30", in NW¼NE¼ sec.26, T.20 N., R.29 E., Churchill County, Hydrologic Unit 16050203, on right bank between 2 lakes 8 mi (13 km) northeast of Fallon. Discontinued Sept. 1981.

10312265 INDIAN LAKES CANAL BELOW EAST LAKE, NV.--Lat 39°36'16", long 118°34'41", in NE¼ sec.14, T.20 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft (152 m) downstream from East Lake and 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977. Discontinued Sept. 1981.

10312270 PAIUTE DRAIN AT WILDLIFE ENTRANCE NEAR STILLWATER, NV.--Lat 39°36'33", long 118°33'19", in SW¼SW¼ sec.7, T.20 N., R.31 E., Churchill County Hydrologic Unit 16050203, on left bank 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977. Discontinued Sept. 1981.

REMARKS.--Records of monthly discharge of these canals, published as a group, are available from October 1966 to current year. Monthly measurements of specific conductance and water temperature for station numbers 10312210, 10312260, 10312265, and 10312270 are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

OUTFALL, IN ACRE-FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	Stillwater Diversion Canal	Indian Lakes Canal near Fallon	Indian Lakes Canal below East Lake	Paiute Drain near Stillwater
October	4,890	1,520	698	1,400
November	3,430	1,680	871	1,460
December	1,160	1,720	996	1,320
CAL YR 1980	56,630	16,550	9,060	16,290
January	767	1,340	771	906
February	429	897	625	624
March	547	701	396	603
April	1,720	820	667	1,200
May	3,450	503	261	936
June	3,650	570	95	879
July	4,500	671	11	424
August	3,440	351	58	626
September	3,020	344	0	162
WTR YR 80-81	31,000	11,100	5,450	10,540

CARSON RIVER BASIN

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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. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity, 295,100 acre-ft (364 hm³). Records for this station together with the canals on preceding page represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--15 years, 42.3 ft³/s (1.198 m³/s), 30,650 acre-ft/yr (37.8 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, 60 ft³/s (1.70 m³/s) Nov. 12, 13, gage height, 1.94 ft (0.591 m). No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	14	5.5	1.8	2.8	1.2	1.6	1.8	1.0	2.3	1.8	.00
2	28	14	5.2	1.9	1.6	1.3	1.5	2.9	1.2	2.5	1.0	.00
3	39	29	5.1	1.4	2.8	1.3	1.3	3.5	2.0	1.1	.39	.00
4	35	32	5.2	1.3	2.4	1.4	1.2	4.9	2.6	.26	.03	.00
5	34	16	5.8	1.6	2.4	1.9	1.2	2.7	3.1	.04	.00	.00
6	32	13	5.0	1.8	1.7	2.1	1.1	1.9	2.6	.00	.00	.00
7	14	15	5.0	2.3	2.1	1.9	1.1	1.8	1.9	.00	.00	.00
8	7.9	19	5.6	2.0	1.7	1.8	1.1	1.7	1.1	.46	.00	.00
9	17	25	3.7	1.9	2.0	1.7	1.9	3.2	.94	2.0	.79	.00
10	52	28	3.2	2.2	1.9	1.6	1.8	5.3	1.1	.69	11	.00
11	42	33	3.1	2.5	1.8	1.5	1.6	5.4	1.2	1.8	12	.00
12	20	39	3.3	1.4	1.7	1.5	1.4	5.6	1.8	1.3	2.8	.10
13	11	51	4.8	1.7	1.8	1.6	1.3	7.0	3.7	2.6	.80	1.5
14	13	27	4.4	2.1	1.8	1.9	1.2	2.5	3.3	2.1	.09	1.1
15	18	45	4.6	1.9	1.7	1.7	1.1	1.7	2.1	.93	.00	.75
16	12	49	4.5	1.5	1.6	1.6	1.1	1.7	1.8	.30	.00	.33
17	4.8	48	3.5	1.6	1.7	1.5	1.1	1.3	1.6	.00	.00	.01
18	6.3	46	2.7	1.6	1.6	1.4	1.3	1.2	1.7	.00	.00	.00
19	5.1	20	2.2	1.6	1.5	1.5	7.1	1.1	2.9	.00	.00	.00
20	3.5	11	2.2	1.7	1.5	1.5	4.8	2.2	2.5	.00	.00	.00
21	9.4	7.3	2.1	1.7	1.2	1.6	2.6	3.6	1.8	.00	1.0	.00
22	10	6.4	1.4	1.7	1.1	1.5	1.9	3.6	1.2	.05	3.8	.00
23	12	5.8	2.0	1.7	1.1	1.5	1.6	3.4	.76	1.9	5.5	.00
24	18	6.7	1.7	2.0	1.2	1.5	1.7	2.5	.63	3.8	5.7	.00
25	32	6.0	1.3	2.1	1.2	1.5	3.1	2.0	.49	5.1	1.9	.00
26	20	6.5	1.3	2.0	1.2	1.5	2.2	2.0	.56	7.4	1.1	.00
27	7.1	6.7	1.2	2.2	1.2	1.5	1.8	1.7	1.2	3.9	.18	.00
28	32	6.6	1.2	2.9	1.2	1.6	1.7	1.2	2.2	1.1	.00	.00
29	49	6.1	1.3	2.4	---	1.7	1.5	.98	1.9	.62	.00	.00
30	32	6.0	1.5	2.0	---	1.9	1.5	.91	2.4	.66	.00	.00
31	17	---	1.8	1.8	---	1.7	---	.88	---	1.7	.00	---
TOTAL	641.3	638.1	101.4	58.3	47.5	49.4	55.4	82.17	53.28	44.61	49.88	3.79
MEAN	20.7	21.3	3.27	1.88	1.70	1.59	1.85	2.65	1.78	1.44	1.61	.13
MAX	52	51	5.8	2.9	2.8	2.1	7.1	7.0	3.7	7.4	12	1.5
MIN	3.5	5.8	1.2	1.3	1.1	1.2	1.1	.88	.49	.00	.00	.00
AC-FT	1270	1270	201	116	94	98	110	163	106	88	99	7.5

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 fair. Records are now obtained upstream from McDermitt ditch and therefore include that flow, which was previously combined with these figures to give total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--45 years (1915-22, 1943-81) 43.6 ft³/s (1.235 m³/s), 31,590 acre-ft/yr (39.0 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.--Maximum discharge, 252 ft³/s (7.14 m³/s) June 8, gage height 4.23 ft (1.289 m), no peak above base of 310 ft³/s (8.78 m³/s); minimum daily 2.8 ft³/s (0.079 m³/s) Mar. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.1	5.6	4.2	3.4	3.5	3.2	96	158	38	6.5	3.8
2	10	9.4	5.6	4.2	3.4	3.4	3.1	107	153	35	7.0	3.8
3	10	9.4	5.6	4.1	3.4	3.3	3.0	90	133	30	7.5	3.7
4	9.9	9.4	5.6	4.1	3.4	3.3	3.3	81	144	27	5.5	3.5
5	10	9.4	5.6	4.1	3.4	3.3	3.2	75	170	27	4.8	3.4
6	10	9.4	5.6	4.0	3.5	3.3	3.2	67	180	25	4.5	3.4
7	10	9.4	5.4	3.9	3.5	3.2	3.2	57	168	24	5.5	3.4
8	9.9	9.4	5.3	3.9	3.5	3.2	3.2	55	198	22	5.8	3.5
9	9.9	9.4	5.2	3.8	3.5	3.2	3.4	61	183	21	5.3	3.5
10	9.7	9.4	5.2	3.8	3.5	3.2	3.6	61	131	20	5.1	3.5
11	9.6	9.4	5.1	3.7	3.5	3.1	3.7	66	118	18	4.8	3.6
12	9.9	9.9	5.1	3.6	3.5	3.1	3.9	63	107	17	4.6	3.5
13	9.9	8.9	4.5	3.5	3.5	3.1	4.1	61	90	16	4.6	3.5
14	9.9	8.3	4.5	3.5	3.5	3.1	4.5	74	85	14	4.7	3.5
15	9.9	7.8	4.5	3.5	3.5	3.1	5.7	74	78	13	4.8	3.4
16	9.9	7.5	4.5	3.5	3.5	3.0	7.0	64	81	12	4.5	3.4
17	9.9	7.0	4.5	3.5	3.5	3.0	9.7	60	84	12	4.3	3.4
18	9.9	6.5	4.5	3.5	3.5	3.1	12	60	80	11	4.3	3.4
19	10	6.2	4.5	3.4	3.5	3.1	14	60	86	9.8	4.2	3.4
20	10	6.0	4.2	3.4	3.5	3.0	13	61	96	9.4	4.2	3.5
21	9.9	6.0	4.2	3.7	3.5	3.0	12	63	83	9.4	4.2	3.2
22	9.7	6.0	4.3	3.3	3.5	3.0	12	64	79	9.3	4.2	3.2
23	9.4	6.0	4.2	3.3	3.8	2.9	15	69	67	8.9	4.0	3.2
24	9.4	6.2	4.2	3.3	3.7	2.8	24	76	70	7.8	3.9	3.3
25	9.1	6.0	4.3	3.4	3.6	2.8	34	115	69	7.3	3.9	3.7
26	9.6	5.8	4.5	3.4	3.5	3.2	38	138	62	7.0	3.9	3.7
27	9.6	5.6	4.3	3.4	4.4	3.1	34	137	51	6.5	3.8	3.7
28	9.5	5.6	4.2	3.4	3.7	3.0	37	141	48	6.2	3.9	3.6
29	9.4	5.6	4.2	3.4	---	3.1	52	149	44	5.9	3.9	3.5
30	9.4	5.6	4.2	3.4	---	3.1	72	153	43	6.5	3.8	3.5
31	9.4	---	4.2	3.4	---	3.1	---	159	---	6.5	3.8	---
TOTAL	302.7	229.6	147.4	112.6	99.2	96.7	440.0	2657	3139	482.5	145.8	104.7
MEAN	9.76	7.65	4.75	3.63	3.54	3.12	14.7	85.7	105	15.6	4.70	3.49
MAX	10	9.9	5.6	4.2	4.4	3.5	72	159	198	38	7.5	3.8
MIN	9.1	5.6	4.2	3.3	3.4	2.8	3.0	55	43	5.9	3.8	3.2
AC-FT	600	455	292	223	197	192	873	5270	6230	957	289	208

CAL YR 1980 TOTAL 23040.8 MEAN 63.0 MAX 395 MIN 4.2 AC-FT 45700
WTR YR 1981 TOTAL 7957.2 MEAN 21.8 MAX 198 MIN 2.8 AC-FT 15780

10317400 NORTH FORK HUMBOLDT RIVER NEAR NORTH FORK, NV

LOCATION.--Lat 41°34'30", long 115°54'40", in NW¼SE¼ sec.32, T.43 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank above all diversions, 0.7 mi (1.1 km) downstream from Fry Canyon, 1 mi (2 km) upstream from Doheny Ranch, and 9 mi (14 km) northwest of North Fork.

DRAINAGE AREA.--11 mi² (28 km²), approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1965, August 1965 to September 1981 (discontinued).

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

REMARKS.--Records 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.--16 years, 10.5 ft³/s (0.297 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 170 ft³/s (4.81 m³/s) June 7, 1975, gage height, 4.10 ft (1.250 m); maximum gage height, 4.43 ft (1.350 m) Jan. 22, 1970; minimum discharge, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft³/s (1.22 m³/s) May 21, gage height 2.98 ft (0.908 m), no peak above base of 65 ft³/s (1.84 m³/s); minimum daily, 0.07 ft³/s (0.002 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	1.0	.75	1.0	.94	2.4	4.9	30	17	3.5	.50	.18
2	.64	1.0	.93	1.0	.92	2.3	4.7	30	15	3.3	.52	.16
3	.64	1.0	1.0	1.0	.89	1.9	5.1	25	14	3.1	.54	.15
4	.75	1.0	1.0	1.0	.89	1.8	4.5	21	12	3.3	.53	.14
5	.81	1.0	1.0	1.0	.89	1.5	5.5	18	11	3.0	.51	.13
6	.81	1.0	1.0	1.1	.89	1.4	7.9	16	10	2.8	.48	.12
7	.75	1.0	1.0	1.2	.87	1.2	7.9	14	9.6	2.8	.46	.12
8	.69	1.0	1.0	1.2	.87	1.4	7.2	12	8.7	2.4	.44	.12
9	.75	1.0	1.0	1.2	.89	1.3	7.2	11	8.5	2.3	.41	.12
10	.69	1.0	1.0	1.2	.86	1.3	7.4	11	7.0	2.0	.41	.22
11	.64	1.1	1.0	1.2	.86	1.4	7.4	11	5.9	1.9	.41	.18
12	.69	1.2	1.0	1.2	.88	1.4	7.7	11	5.5	1.5	.40	.16
13	.69	1.1	1.0	1.2	.84	1.1	8.3	11	5.7	1.3	.38	.12
14	.87	1.0	1.0	1.2	1.0	1.1	9.8	13	5.3	1.2	.37	.11
15	.93	.95	1.0	1.2	.97	1.1	13	13	4.4	1.4	.36	.09
16	1.0	.88	1.0	1.1	1.3	1.4	15	13	3.8	1.7	.35	.07
17	1.0	.86	1.0	1.2	4.6	1.2	15	13	3.3	1.5	.34	.08
18	1.0	.86	1.0	1.1	4.6	1.2	16	12	2.8	1.4	.33	.10
19	1.0	.84	1.0	1.1	5.6	1.1	18	17	2.4	1.3	.31	.12
20	1.0	.82	1.0	1.1	5.1	.73	18	19	1.8	1.2	.30	.14
21	1.0	.81	1.0	1.0	4.8	1.4	18	34	1.7	1.1	.29	.17
22	1.0	.86	1.0	1.0	4.6	1.6	19	37	1.9	.94	.28	.22
23	1.0	.69	1.0	1.1	4.8	2.0	26	32	2.1	.85	.27	.24
24	1.0	.66	1.0	1.1	4.8	2.3	31	27	2.7	.80	.26	.27
25	1.0	.69	1.0	.90	4.1	3.0	33	31	2.6	.75	.25	.32
26	1.0	.68	1.0	.85	3.3	3.6	32	34	2.6	.90	.24	.40
27	1.0	.69	1.0	.92	2.8	3.2	30	30	4.1	.80	.23	.45
28	1.0	.80	1.0	.97	2.7	3.9	27	26	4.4	.70	.22	.36
29	1.0	.90	1.0	.93	---	5.1	28	23	3.9	.60	.22	.35
30	1.0	.88	1.0	.95	---	5.5	29	21	3.8	.50	.21	.38
31	1.0	---	1.0	.95	---	4.7	---	19	---	.50	.20	---
TOTAL	26.99	27.27	30.68	33.17	66.56	64.53	463.5	635	183.5	51.34	11.02	5.79
MEAN	.87	.91	.99	1.07	2.38	2.08	15.5	20.5	6.12	1.66	.36	.19
MAX	1.0	1.2	1.0	1.2	5.6	5.5	33	37	17	3.5	.54	.45
MIN	.64	.66	.75	.85	.84	.73	4.5	11	1.7	.50	.20	.07
AC-FT	54	54	61	66	132	128	919	1260	364	102	22	11
CAL YR 1980	TOTAL	4263.21	MEAN	11.6	MAX	75	MIN	.58	AC-FT	8460		
WTR YR 1981	TOTAL	1599.35	MEAN	4.38	MAX	37	MIN	.07	AC-FT	3170		

HUMBOLDT RIVER BASIN

10317420 MAHALA CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°20'16", long 115°54'32", in NE¼SE¼ sec.20, T.40 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank 37 mi (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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft³/s (1.08 m³/s) Apr. 21, gage height 1.76 ft (0.536 m); no flow many months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.3 ft³/s (0.065 m³/s) Jan. 5, gage height 1.14 ft (0.347 m); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.5	.76	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	1.4	.76	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	1.4	.73	.00	.00	.00
4	.00	.00	.00	.44	.00	.00	.00	1.2	.57	.00	.00	.00
5	.00	.00	.00	.49	.00	.00	.00	.83	.45	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.83	.40	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.76	.41	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.68	.40	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.03	.68	.28	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.10	.68	.24	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.17	.68	.23	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.25	.68	.20	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.40	.68	.16	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.50	.90	.15	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.69	1.0	.13	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.97	1.1	.16	.00	.00	.00
17	.00	.00	.08	.00	.00	.00	.97	1.1	.12	.00	.00	.00
18	.00	.00	.73	.00	.00	.00	.90	.90	.13	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.97	1.1	.13	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	1.0	.82	.10	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	1.2	.85	.10	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	1.3	.74	.05	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	1.4	.76	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	1.7	.76	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	1.8	.81	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	1.8	.78	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	1.4	.70	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	1.3	.69	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	1.4	.82	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	1.5	.84	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.78	---	.00	.00	---
TOTAL	.00	.00	.81	.93	.00	.00	21.75	27.45	6.66	.00	.00	.00
MEAN	.000	.000	.026	.030	.000	.000	.73	.89	.22	.000	.000	.000
MAX	.00	.00	.73	.49	.00	.00	1.8	1.5	.76	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.68	.00	.00	.00	.00
AC-FT	.00	.00	1.6	1.8	.00	.00	43	54	13	.00	.00	.00
CAL YR 1980	TOTAL	529.06	MEAN	1.45	MAX	16	MIN	.00	AC-FT	1050		
WTR YR 1981	TOTAL	57.60	MEAN	.16	MAX	1.8	MIN	.00	AC-FT	114		

HUMBOLDT RIVER BASIN

173

10317430 MAHALA CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV

LOCATION.--Lat 41°17'51", long 115°47'13", in SW¼ sec.4, T.39 N., R.55 E., Elko County, Hydrologic Unit 16040102, on right bank 22 mi (35 km) east of Tuscarora, and 40 mi (64 km) north of Elko.

DRAINAGE AREA.--22.9 mi² (58.8 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft (1,780 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28 ft³/s (0.79 m³/s) Apr. 22; no flow Oct. 1 to Feb. 18, June 27 to Sept. 30.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2.1 ft³/s (0.059 m³/s) Mar. 26, gage height 1.73 ft (0.527 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	1.4	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.84	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.88	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.69	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.02	.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	.12	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.07	.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	.06	.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	.19	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.4	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	1.2	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	1.1	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.28	9.75	8.06	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.010	.31	.27	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.12	1.7	1.4	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.6	19	16	.00	.00	.00	.00	.00
CAL YR 1980	TOTAL	998.39	MEAN	2.73	MAX	28	MIN	.00	AC-FT	1980		
WTR YR 1981	TOTAL	18.09	MEAN	.050	MAX	1.7	MIN	.00	AC-FT	36		

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge about 60 ft³/s (1.70 m³/s) Apr. 22; minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 2, 3, 23 to Sept. 4, 11, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 9.7 ft³/s (0.27 m³/s) Apr. 24, gage height 1.44 ft (0.439 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 2, 3, 23 to Sept. 4, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	2.6	2.6	2.2	2.5	3.2	8.8	6.4	1.8	1.3	1.2
2	2.0	2.3	2.6	2.6	2.2	2.4	3.1	7.6	6.4	1.8	1.2	1.2
3	2.0	2.3	2.6	2.5	2.2	2.6	3.7	6.8	5.8	1.7	1.2	1.2
4	2.0	2.3	2.6	2.5	2.2	2.6	4.2	6.2	5.2	1.6	1.3	1.2
5	2.2	2.4	2.8	2.5	2.2	2.5	4.0	5.8	4.8	1.6	1.3	1.3
6	2.2	2.4	2.8	2.6	2.2	2.5	3.4	5.2	4.6	1.6	1.3	1.3
7	2.2	2.4	2.5	2.6	2.2	2.6	3.5	4.8	4.8	1.6	1.3	1.3
8	2.2	2.4	2.5	2.6	2.2	2.5	4.2	4.5	4.4	1.5	1.3	1.3
9	2.2	2.5	2.5	2.4	2.2	2.6	4.2	4.5	4.2	1.4	1.3	1.3
10	2.2	2.5	2.4	2.4	2.2	2.6	4.2	4.6	4.0	1.4	1.3	1.3
11	2.2	2.6	2.5	2.5	2.2	2.6	4.2	4.3	4.0	1.4	1.3	1.2
12	2.2	2.6	2.5	2.5	2.2	2.6	4.1	4.4	3.9	1.3	1.3	1.3
13	2.2	2.5	2.6	2.5	2.2	2.8	4.6	4.3	3.7	1.3	1.3	1.3
14	2.2	2.6	2.6	2.5	2.3	2.6	5.2	5.2	3.5	1.3	1.3	1.3
15	2.2	2.5	2.5	2.5	2.3	2.6	5.8	5.1	3.2	1.4	1.3	1.3
16	2.4	2.6	2.4	2.6	2.4	2.9	6.2	5.0	3.2	1.4	1.3	1.3
17	2.4	2.6	2.5	2.3	3.1	3.2	6.2	4.8	2.9	1.3	1.3	1.4
18	2.4	2.5	2.5	2.4	2.8	2.9	6.0	5.0	2.6	1.3	1.3	1.4
19	2.4	2.5	2.5	2.4	3.1	2.5	5.9	5.9	2.5	1.3	1.3	1.4
20	2.4	2.4	2.5	2.4	2.6	2.5	6.2	6.8	2.4	1.3	1.3	1.6
21	2.3	2.4	2.5	2.3	2.9	3.1	5.9	6.6	2.4	1.3	1.3	2.0
22	2.3	2.6	2.4	2.3	2.9	2.9	6.3	6.9	2.4	1.3	1.3	1.7
23	2.2	2.6	2.3	2.3	2.8	2.8	7.4	6.9	2.3	1.3	1.2	1.5
24	2.2	2.4	2.3	2.4	2.8	2.9	8.7	6.6	2.3	1.3	1.2	1.5
25	2.2	2.6	3.5	2.5	2.9	3.1	8.3	7.3	2.0	1.3	1.2	1.5
26	2.2	2.5	2.9	2.5	3.1	3.2	7.7	8.3	1.9	1.3	1.2	1.5
27	2.2	2.5	2.8	2.4	2.8	3.2	7.2	7.8	1.9	1.3	1.2	1.5
28	2.2	2.5	2.5	2.3	2.6	3.4	7.4	7.6	1.9	1.3	1.2	1.5
29	2.3	2.6	2.5	2.3	---	3.4	8.1	7.3	1.8	1.3	1.2	1.5
30	2.3	2.6	2.6	2.3	---	3.5	8.5	7.1	1.8	1.3	1.2	1.5
31	2.4	---	2.6	2.4	---	3.5	---	6.6	---	1.3	1.2	---
TOTAL	69.0	74.4	79.9	75.9	70.0	87.6	167.6	188.6	103.2	43.6	39.2	41.8
MEAN	2.23	2.48	2.58	2.45	2.50	2.83	5.59	6.08	3.44	1.41	1.26	1.39
MAX	2.4	2.6	3.5	2.6	3.1	3.5	8.7	8.8	6.4	1.8	1.3	2.0
MIN	2.0	2.2	2.3	2.3	2.2	2.4	3.1	4.3	1.8	1.3	1.2	1.2
AC-FT	137	148	158	151	139	174	332	374	205	86	78	83
CAL YR 1980	TOTAL	2330.7	MEAN	6.37	MAX	60	MIN	1.5	AC-FT	4620		
WTR YR 1981	TOTAL	1040.8	MEAN	2.85	MAX	8.8	MIN	1.2	AC-FT	2060		

HUMBOLDT RIVER BASIN

175

10317460 GANCE CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV

LOCATION.--Lat 41°15'08", long 115°47'44", in SE¼SE¼ sec.20, T.39 N., R.55 E., Elko County, Hydrologic Unit 16040102, on right bank 23 mi (37 km) east of Tuscarora, and 35 mi (56 km) north of Elko.

DRAINAGE AREA.--20.2 mi² (52.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,860 ft (1,783 m) from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 62 ft³/s (1.76 m³/s) Apr. 23, gage height 2.74 ft (0.835 m); no flow many months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1.6 ft³/s (0.045 m³/s) Apr. 27, gage height 1.26 ft (0.384 m), maximum gage height 1.69 ft (0.515 m) Feb. 15 (backwater from ice); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.64	.06	.39	.64	.70	.27	.82	.00	.00	.00
2	.00	.00	.70	.06	.38	.64	.70	.15	.95	.00	.00	.00
3	.00	.00	.70	.07	.37	.64	.70	.08	1.3	.00	.00	.00
4	.00	.00	.50	.08	.37	.59	.70	.02	1.0	.00	.00	.00
5	.00	.00	.10	.09	.37	.59	.70	.24	.82	.00	.00	.00
6	.00	.00	.02	.10	.37	.59	.70	.27	.59	.00	.00	.00
7	.00	.00	.00	.12	.37	.59	.70	.30	.49	.00	.00	.00
8	.00	.00	.00	.14	.37	.59	.70	.34	.39	.00	.00	.00
9	.00	.00	.00	.16	.37	.64	.70	.30	.34	.00	.00	.00
10	.00	.00	.00	.20	.38	.63	.70	.27	.30	.00	.00	.00
11	.00	.00	.00	.21	.38	.64	.70	.24	.30	.00	.00	.00
12	.00	.00	.00	.23	.39	.70	.70	.21	.21	.00	.00	.00
13	.00	.00	.00	.25	.40	.70	.70	.18	.24	.00	.00	.00
14	.00	.00	.02	.27	.43	.70	.70	.27	.24	.00	.00	.00
15	.00	.00	.04	.29	.45	.70	.64	.44	.24	.00	.00	.00
16	.00	.00	.04	.31	.50	.82	.59	.64	.18	.00	.00	.00
17	.00	.00	.04	.33	.55	.76	.59	.70	.12	.00	.00	.00
18	.00	.00	.04	.35	.60	.70	.64	.64	.08	.00	.00	.00
19	.00	.00	.04	.37	.65	.82	.70	.88	.06	.00	.00	.00
20	.00	.00	.04	.38	.67	1.2	1.2	1.2	.00	.00	.00	.00
21	.00	.00	.06	.39	.67	.95	1.3	1.3	.00	.00	.00	.00
22	.00	.00	.06	.39	.67	1.1	1.1	1.0	.00	.00	.00	.00
23	.00	.22	.06	.39	.66	.95	1.0	.88	.00	.00	.00	.00
24	.00	.34	.06	.39	.65	.82	1.0	.88	.00	.00	.00	.00
25	.00	.27	.06	.42	.65	.74	1.1	1.1	.00	.00	.00	.00
26	.00	.21	.06	.43	.64	.72	1.3	1.1	.00	.00	.00	.00
27	.00	.24	.06	.43	.64	.70	1.5	.76	.00	.00	.00	.00
28	.00	.44	.08	.42	.64	.70	1.2	.88	.00	.00	.00	.00
29	.00	.59	.10	.42	---	.70	.95	.82	.00	.00	.00	.00
30	.00	.70	.08	.41	---	.70	.76	.88	.00	.00	.00	.00
31	.00	---	.06	.40	---	.70	---	.88	---	.00	.00	---
TOTAL	.00	3.01	3.66	8.56	13.98	22.66	25.37	18.12	8.67	.00	.00	.00
MEAN	.000	.10	.12	.28	.50	.73	.85	.58	.29	.000	.000	.000
MAX	.00	.70	.70	.43	.67	1.2	1.5	1.3	1.3	.00	.00	.00
MIN	.00	.00	.00	.06	.37	.59	.59	.02	.00	.00	.00	.00
AC-FT	.00	6.0	7.3	17	28	45	50	36	17	.00	.00	.00

CAL YR 1980 TOTAL 1510.76 MEAN 4.13 MAX 53 MIN .00 AC-FT 3000
WTR YR 1981 TOTAL 104.03 MEAN .29 MAX 1.5 MIN .00 AC-FT 206

HUMBOLDT RIVER BASIN

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 current year. 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 Mar. 5 to Apr. 15 and May 5 to July 17. Many diversions for irrigation of 16,600 acres (67.2 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.--46 years, 72.9 ft³/s (2.065 m³/s), 52,820 acre-ft/yr (65.1 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.--Maximum discharge 46 ft³/s (1.30 m³/s) June 6, gage height 3.28 ft (1.000 m), no peak above base of 170 ft³/s (4.81 m³/s); minimum daily 3.2 ft³/s (0.091 m³/s) July 26, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	18	21	22	24	23	17	21	5.0	3.3	4.0
2	14	19	23	22	21	25	26	15	24	4.6	3.3	4.0
3	12	19	25	22	20	25	33	13	29	4.3	3.5	4.0
4	13	20	23	22	19	25	35	12	32	4.1	3.5	4.0
5	12	19	18	22	18	27	34	11	36	4.0	3.5	4.0
6	13	20	17	23	18	25	32	10	37	3.8	3.5	4.0
7	13	20	16	23	17	22	29	9.7	31	3.6	3.5	4.4
8	13	20	15	23	17	20	27	9.2	28	3.4	3.5	4.8
9	13	20	15	23	16	19	26	8.6	26	3.4	3.5	5.1
10	13	21	15	22	16	18	25	9.2	25	3.3	3.5	4.8
11	14	21	15	22	16	17	25	11	25	3.4	3.6	4.8
12	13	23	16	22	16	16	24	11	25	3.4	3.5	5.0
13	13	23	17	22	17	15	24	11	22	3.4	3.5	5.1
14	13	22	18	22	18	15	24	10	19	3.4	3.6	5.4
15	13	21	18	21	19	15	25	9.4	18	3.4	3.7	5.4
16	14	19	19	21	22	15	24	8.8	17	3.4	3.7	5.4
17	14	19	19	21	26	14	24	8.4	15	3.4	3.7	5.4
18	15	20	20	21	33	13	25	8.0	13	3.3	3.7	5.4
19	15	20	20	21	40	13	22	8.0	11	3.3	3.7	5.5
20	16	20	20	21	40	14	29	8.2	10	3.3	3.7	5.7
21	17	21	20	21	32	14	36	8.6	9.6	3.3	3.7	5.7
22	18	22	21	21	28	14	33	9.0	9.0	3.3	3.5	5.7
23	18	22	21	21	30	14	27	10	8.2	3.3	3.5	5.7
24	17	20	21	21	29	14	24	9.8	7.6	3.3	3.7	5.9
25	17	18	21	21	28	14	21	9.8	7.2	3.3	3.7	5.9
26	18	16	21	21	27	15	22	11	6.8	3.2	3.7	6.1
27	18	19	21	21	28	17	33	16	6.2	3.3	3.7	6.4
28	18	23	21	22	24	20	36	19	5.8	3.3	3.7	6.4
29	19	24	21	22	---	22	28	19	5.4	3.2	3.9	6.4
30	18	25	20	22	---	26	22	18	5.1	3.2	4.0	6.4
31	19	---	21	22	---	25	---	19	---	3.3	4.3	---
TOTAL	465	615	596	672	657	572	818	357.7	534.9	109.2	112.4	156.8
MEAN	15.0	20.5	19.2	21.7	23.5	18.5	27.3	11.5	17.8	3.52	3.63	5.23
MAX	19	25	25	23	40	27	36	19	37	5.0	4.3	6.4
MIN	12	16	15	21	16	13	21	8.0	5.1	3.2	3.3	4.0
AC-FT	922	1220	1180	1330	1300	1130	1620	709	1060	217	223	311
CAL YR 1980	TOTAL	38469.4	MEAN	105	MAX	1800	MIN	6.1	AC-FT	76300		
WTR YR 1981	TOTAL	5666.0	MEAN	15.5	MAX	40	MIN	3.2	AC-FT	11240		

HUMBOLDT RIVER BASIN

177

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 good except those for winter months, which are poor. Diversions for irrigation of 95,800 acres (388 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.--44 years (1896-1902, 1945-81), 235 ft³/s (6.655 m³/s), 170,260 acre-ft/yr (210 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, 227 ft³/s (6.43 m³/s) June 6, gage height, 3.21 ft (0.978 m); minimum daily, 0.83 ft³/s (0.024 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	54	75	106	88	134	135	75	119	8.4	.89	1.4
2	25	56	80	106	83	131	150	51	127	7.9	.88	1.4
3	25	62	85	106	74	129	191	33	155	7.2	.88	1.4
4	26	56	84	106	61	125	214	29	180	6.3	.87	1.4
5	26	64	80	107	64	117	209	26	197	5.5	.87	1.5
6	26	61	73	106	68	126	203	25	209	4.6	.88	1.5
7	26	61	67	105	72	118	185	23	164	3.8	.86	1.5
8	25	54	60	105	76	113	167	22	152	3.4	.86	1.7
9	27	54	74	105	80	106	154	25	143	3.0	.97	1.8
10	29	62	80	104	82	104	142	32	140	2.7	.94	1.7
11	28	62	84	103	83	101	132	35	140	2.3	.98	1.7
12	28	70	86	101	86	97	120	32	141	2.1	.98	1.7
13	27	77	90	103	96	93	110	30	116	1.9	1.0	1.7
14	28	77	95	100	104	91	101	27	103	1.8	1.2	1.5
15	30	75	99	97	107	91	92	24	102	1.6	1.1	1.7
16	32	72	102	93	132	93	83	24	96	1.4	1.1	1.5
17	34	67	102	88	166	79	69	25	78	1.3	1.1	1.5
18	38	60	102	98	187	81	69	26	63	1.2	1.1	1.7
19	39	64	103	92	191	82	70	30	47	1.2	1.4	1.5
20	40	67	104	95	201	88	72	33	37	1.0	1.4	1.7
21	39	69	105	97	185	88	76	39	31	1.0	1.2	1.7
22	39	70	104	98	165	83	87	50	28	.99	1.2	1.7
23	40	71	108	91	162	84	85	59	26	.95	1.2	1.8
24	41	73	110	90	168	82	79	55	23	.93	1.2	1.8
25	41	78	112	93	159	84	58	53	19	.88	1.2	2.0
26	42	86	112	80	152	87	48	60	15	.88	1.1	1.8
27	46	92	111	87	145	101	59	85	13	.88	1.2	1.8
28	48	94	110	89	141	119	67	109	12	.88	1.4	1.8
29	50	80	108	90	---	139	73	107	11	.83	1.4	1.8
30	52	85	106	90	---	162	81	99	9.5	.90	1.4	2.0
31	53	---	106	90	---	150	---	99	---	.89	1.4	---
TOTAL	1075	2073	2917	3021	3378	3278	3381	1442	2696.5	78.61	34.16	49.7
MEAN	34.7	69.1	94.1	97.5	121	106	113	46.5	89.9	2.54	1.10	1.66
MAX	53	94	112	107	201	162	214	109	209	8.4	1.4	2.0
MIN	25	54	60	80	61	79	48	22	9.5	.83	.86	1.4
AC-FT	2130	4110	5790	5990	6700	6500	6710	2860	5350	156	68	99
CAL YR 1980	TOTAL	155779.00	MEAN	426	MAX	2620	MIN	12	AC-FT	309000		
WTR YR 1981	TOTAL	23423.97	MEAN	64.2	MAX	214	MIN	.83	AC-FT	46460		

HUMBOLDT RIVER BASIN

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 current year. 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, which are poor. Diversions for irrigation of 36,200 acres (147 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.--33 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.--Maximum discharge, 387 ft³/s (11.0 m³/s) June 3, gage height 3.66 ft (1.16 m), no peak above base of 400 ft³/s (11.3 m³/s); minimum daily, 1.8 ft³/s (0.051 m³/s) Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	22	31	42	33	43	50	121	329	20	2.9	3.2
2	15	22	30	42	35	41	54	150	344	19	3.0	3.4
3	14	22	31	42	30	39	61	136	357	17	2.8	3.5
4	14	22	32	41	30	38	55	114	315	17	3.1	3.6
5	15	22	32	40	33	38	50	107	308	15	2.7	3.7
6	16	22	31	40	35	42	44	77	319	15	3.1	3.8
7	17	21	31	39	38	44	44	59	326	14	3.6	3.9
8	17	21	31	38	35	41	44	55	324	12	2.8	3.9
9	17	21	31	38	29	38	42	54	346	12	2.4	3.9
10	17	21	31	37	31	36	41	55	310	12	2.7	4.0
11	17	21	31	36	29	36	41	50	257	14	2.5	4.0
12	17	22	31	35	29	34	38	54	220	13	2.1	4.0
13	17	23	32	34	34	34	38	50	191	10	2.2	4.0
14	16	24	35	32	37	34	34	49	172	11	2.4	4.0
15	17	24	37	32	39	33	31	66	151	9.3	2.1	4.0
16	19	25	38	31	42	28	33	77	129	8.2	2.1	4.0
17	20	25	39	37	45	30	36	74	118	6.2	1.8	4.0
18	20	26	40	35	48	28	37	70	101	6.3	1.9	4.0
19	20	26	41	33	51	28	38	80	91	6.5	2.5	4.0
20	18	26	42	32	51	33	41	99	83	5.0	3.6	4.0
21	19	26	43	32	51	37	39	136	75	4.8	2.5	4.0
22	19	26	44	32	51	38	39	143	65	4.8	2.9	4.0
23	19	26	45	35	50	37	39	135	58	5.6	2.7	4.0
24	19	27	44	36	49	37	42	129	47	5.8	2.5	4.0
25	20	28	43	36	47	34	48	156	39	4.5	2.3	4.0
26	21	28	50	36	46	38	53	341	34	4.3	2.4	4.0
27	23	29	41	31	45	47	65	352	29	3.8	2.4	4.0
28	23	29	41	33	44	55	57	339	24	3.3	2.5	4.0
29	23	30	42	35	---	61	65	341	21	3.2	2.6	4.0
30	23	30	42	34	---	59	85	355	19	3.2	2.4	4.0
31	23	---	42	33	---	55	---	344	---	3.4	2.9	---
TOTAL	573	737	1154	1109	1117	1216	1384	4368	5202	289.2	80.4	116.9
MEAN	18.5	24.6	37.2	35.8	39.9	39.2	46.1	141	173	9.33	2.59	3.90
MAX	23	30	50	42	51	61	85	355	357	20	3.6	4.0
MIN	14	21	30	31	29	28	31	49	19	3.2	1.8	3.2
AC-FT	1140	1460	2290	2200	2220	2410	2750	8660	10320	574	159	232
CAL YR 1980	TOTAL	63267.0	MEAN	173	MAX	1400	MIN	14	AC-FT	125500		
WTR YR 1981	TOTAL	17346.5	MEAN	47.5	MAX	357	MIN	1.8	AC-FT	34410		

HUMBOLDT RIVER BASIN

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10321000 HUMBOLDT RIVER NEAR CARLIN, NV
(National stream-quality accounting network station)

LOCATION.--Lat 40°43'40", long 116°00'30", in SE1SE1 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 fair. Many diversions for irrigation of 143,000 acres (579 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, 342 ft³/s (9.685 m³/s), 247,800 acre-ft/yr (306 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, 484 ft³/s (13.7 m³/s) June 9, gage height, 2.90 ft (0.884 m); minimum, 0.24 ft³/s (0.007 m³/s) Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	79	138	127	126	166	176	185	403	39	1.5	8.8
2	46	81	141	125	132	162	182	202	395	38	1.2	8.8
3	46	82	135	125	101	142	183	211	452	36	1.2	8.7
4	47	83	147	125	100	135	197	186	407	33	.97	8.6
5	49	86	140	124	98	136	216	152	405	31	1.5	8.6
6	49	83	120	121	100	147	216	134	420	30	2.3	8.8
7	50	85	110	119	108	138	207	111	439	29	3.1	9.2
8	50	83	103	133	115	138	200	102	432	28	3.9	9.5
9	52	83	90	146	112	136	186	95	444	26	4.2	10
10	52	82	102	153	118	130	176	91	427	24	5.5	11
11	55	82	110	150	115	118	170	89	376	20	6.1	9.8
12	58	80	116	141	109	120	159	83	316	16	4.2	9.7
13	63	78	118	144	123	115	157	83	248	16	3.7	9.8
14	68	75	120	133	146	113	155	80	236	15	3.7	9.6
15	73	74	122	130	158	110	148	88	225	15	3.1	9.8
16	73	74	124	126	159	112	142	104	199	14	2.0	9.9
17	73	74	126	131	169	114	135	103	180	13	1.2	9.9
18	73	76	131	118	184	112	135	97	167	11	.73	10
19	73	80	131	115	184	111	140	102	149	8.6	10	11
20	73	88	135	112	204	123	141	115	135	6.9	11	11
21	72	91	136	111	207	116	145	141	122	5.7	11	11
22	72	109	133	113	201	109	142	156	110	5.3	11	11
23	72	125	131	118	190	112	144	153	97	5.3	10	11
24	72	127	126	100	182	114	149	146	88	5.3	13	12
25	72	115	120	96	180	111	153	153	73	4.2	9.9	12
26	72	109	116	105	178	120	157	282	63	3.7	9.9	12
27	72	90	120	107	175	126	164	403	57	3.4	9.8	11
28	72	92	124	120	169	141	158	399	52	2.8	9.8	11
29	73	105	120	132	---	159	154	396	47	2.3	9.9	11
30	74	141	122	132	---	167	165	415	42	1.7	9.1	11
31	77	---	125	125	---	179	---	422	---	1.7	8.6	---
TOTAL	1967	2712	3832	3857	4143	4032	4952	5479	7206	490.9	183.10	305.5
MEAN	63.5	90.4	124	124	148	130	165	177	240	15.8	5.91	10.2
MAX	77	141	147	153	207	179	216	422	452	39	13	12
MIN	44	74	90	96	98	109	135	80	42	1.7	.73	8.6
AC-FT	3900	5380	7600	7650	8220	8000	9820	10870	14290	974	363	606
CAL YR 1980	TOTAL	220683.00	MEAN	603	MAX	3930	MIN	36	AC-FT	437700		
WTR YR 1981	TOTAL	39159.50	MEAN	107	MAX	452	MIN	.73	AC-FT	77670		

HUMBOLDT RIVER BASIN

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 to September 1981, hourly.

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

MICROBIOLOGICAL DATA AND SEDIMENT 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 to September 1981, 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.--Specific-conductance and temperature recorder malfunctioned from June 12 to Sept. 17.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 677 micromhos Dec. 21, 22, 1966; minimum, 209 micromhos Apr. 30, 1968.

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, 625 micromhos June 11; minimum, 316 micromhos May 30.

WATER TEMPERATURES: Maximum, 25.5°C July 21; minimum, presumably not measured (see "Period of Record").

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTANTANEOUS (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)
NOV 21...	1200	108	518	8.5	5.0	9.5	12.2	113	K24	--
JAN 28...	1515	127	510	8.7	3.5	14	12.0	109	--	K20
MAR 25...	1230	110	589	8.8	9.5	24	11.8	124	K16	K18
MAY 20...	1400	117	475	8.6	13.0	16	--	--	K40	400
JUL 21...	1400	5.7	602	8.6	25.5	8.8	9.2	--	<4	K21
SEP 17...	1310	9.5	487	8.1	21.5	3.0	10.2	138	K20	140

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 21...	180	52	12	45	1.5	8.5	220	8	190	52
JAN 28...	170	50	12	46	1.5	6.5	270	19	240	38
MAR 25...	200	56	14	53	1.6	6.8	250	17	240	47
MAY 20...	180	55	10	36	1.2	7.7	230	7	200	--
JUL 21...	200	54	15	55	1.8	10	270	12	240	43
SEP 17...	170	44	14	37	1.3	8.0	250	0	200	25

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

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10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, 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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV 21...	21	.5	28	340	346	99.1	.08	.010	.07	.050
JAN 28...	19	.5	30	330	355	113	.08	.010	.12	.050
MAR 25...	20	.5	28	370	364	110	.00	.000	.00	.040
MAY 20...	14	.5	27	290	--	91.6	.01	.000	.01	.050
JUL 21...	25	.5	34	375	382	5.8	.12	.030	.13	.180
SEP 17...	15	.6	24	288	292	7.4	--	.030	.12	.130

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
NOV 21...	.020	.46	.43	.60	.52	.160	.130	--	5.6	.3
JAN 28...	.050	--	.62	--	.79	.120	.100	--	--	--
MAR 25...	.050	.51	.31	.55	.36	.180	.130	4.9	--	--
MAY 20...	.080	.94	.42	1.0	.51	.170	.080	--	9.8	--
JUL 21...	.130	.71	.54	1.0	.80	.120	.070	--	5.2	.4
SEP 17...	.130	.97	.81	--	1.1	.040	.010	--	4.2	.3

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)	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)
NOV 21...	1200	8	7	100	100	0	<1	10	0	0
JAN 28...	1515	9	8	100	100	0	<1	0	0	3
MAY 20...	1400	10	9	100	--	0	<1	10	0	0
JUL 21...	1400	13	14	200	120	0	<1	0	--	1
SEP 17...	1310	10	9	100	100	0	<1	10	0	0

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 21...	<3	5	3	740	10	4	0	60	10	.0
JAN 28...	<3	5	0	660	30	8	2	50	20	.1
MAY 20...	<3	5	2	1400	20	2	2	120	20	.2
JUL 21...	<3	6	4	560	10	2	1	100	13	.2
SEP 17...	<3	6	5	440	10	5	4	60	18	.1

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 21...	.0	6	0	0	0	0	0	50	<3
JAN 28...	.0	5	0	0	0	0	0	40	10
MAY 20...	.0	1	2	0	0	0	0	10	--
JUL 21...	.1	4	1	0	0	0	0	20	7
SEP 17...	.0	--	4	0	1	1	0	30	14

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
NOV 21...	1200	56	16
JAN 28...	1515	30	10
MAR 25...	1230	60	18
MAY 20...	1400	78	25
JUL 21...	1400	46	.71

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 21,80	MAR 25,81	MAY 20,81	JUL 21,81	SEP 17,81
TIME	1200	1230	1400	1400	1310
TOTAL CELLS/ML	590	570	690	9500	1800
DIVERSITY: DIVISION	0.3	0.3	0.9	1.7	1.7
...CLASS	0.3	0.3	0.9	1.7	1.7
...ORDER	1.9	2.1	2.4	2.3	2.9
...FAMILY	2.0	2.2	2.6	3.0	3.2
...GENUS	2.0	2.6	2.6	3.9	3.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
...ACHNANTHACEAE										
...ACHNANTHES	--	-	--	-	13	2	94	1	--	-
...COCCONEIS	--	-	--	-	--	-	*	0	--	-
..BACILLARIALES										
...NITZSCHIACEAE										
...NITZSCHIA	90#	15	120#	20	210#	30	420	4	210	11
...EPITHEMIALES										
...EPITHEMIA	--	-	--	-	--	-	330	3	41	2
...RHOPALODIA	--	-	--	-	--	-	--	-	28	1
..EUPODISCALES										
...COSCINODISCACEAE										
...CYCLOTELLA	350#	59	--	-	120#	17	660	7	280	15
...MELOSIRA	--	-	--	-	--	-	*	0	--	-
...STEPHANODISCUS	--	-	180#	32	--	-	--	-	--	-
..FRAGILARIALES										
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	120#	20	--	-	--	-	--	-
...DIATOMA	--	-	--	-	13	2	140	1	14	1
...FRAGILARIA	--	-	--	-	91	13	--	-	170	9
...SYNEDRA	52	9	52	9	--	-	--	-	28	1
..NAVICULALES										
...CYMBELLACEAE										
...AMPHORA	13	2	--	-	--	-	--	-	--	-
...CYMBELLA	--	-	39	7	--	-	*	0	--	-
...GOMPHONEMACEAE										
...GOMPHONEMA	13	2	--	-	--	-	94	1	41	2
...NAVICULACEAE										
...GYROSIGMA	--	-	13	2	--	-	--	-	14	1
...NAVICULA	26	4	26	5	39	6	140	1	41	2
..SURIRELLALES										
...SURIRELLACEAE										
...CYMATOPLEURA	13	2	--	-	--	-	--	-	--	-
...SURIRELLA	--	-	--	-	--	-	*	0	14	1
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...DICTYOSPHAERIACEAE										
...DICTYOSPHAERIUM	--	-	--	-	--	-	190	2	--	-
...MICRACTINIACEAE										
...MICRACTINIUM	--	-	--	-	--	-	94	1	--	-
...OOCYSTACEAE										
...ANKISTRODESMUS	--	-	--	-	26	4	470	5	120	7
...KIRCHNERIELLA	--	-	--	-	--	-	510	5	28	1
...OOCYSTIS	13	2	--	-	--	-	470	5	14	1
...SELENASTRUM	--	-	--	-	--	-	--	-	14	1
...TREUBARIA	--	-	--	-	--	-	*	0	--	-
...RADIOCOCCACEAE										
...RADIOCOCCUS	--	-	--	-	--	-	370	4	--	-
...SCENEDESMACEAE										
...COELASTRUM	--	-	--	-	--	-	370	4	--	-
...SCENEDESMUS	26	4	--	-	160#	23	660	7	83	4
...TETRASTRUM	--	-	--	-	--	-	370	4	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	26	5	26	4	140	1	14	1
...PHACOTACEAE										
...PHACOTUS	--	-	--	-	--	-	--	-	170	9
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOMONADACEAE										
...CRYPTOMONAS	--	-	--	-	--	-	94	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 21,80 1200		MAR 25,81 1230		MAY 20,81 1400		JUL 21,81 1400		SEP 17,81 1310	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	440#	24
....ANACYSTIS	--	-	--	-	--	-	1300	13	55	3
....GOMPHOSPHAERIA	--	-	--	-	--	-	2300#	25	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	14	1
....TRACHELOMONAS	--	-	--	-	--	-	94	1	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...DINOKONTAE										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	28	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981[illegible]

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 fair. Diversions for irrigation of 148,000 acres (599 km²), Humboldt Decree, 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.--74 years (1902-6, 1911-81) 370 ft³/s (10.48 m³/s), 268,100 acre-ft/yr (331 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, 463 ft³/s (13.1 m³/s) June 10, gage height, 3.17 ft (0.966 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	100	164	162	146	199	215	164	388	51	14	14
2	63	104	169	153	135	197	221	186	392	47	14	14
3	64	104	159	169	125	179	218	215	435	45	14	14
4	64	104	171	181	115	167	229	202	411	43	13	14
5	64	107	174	186	110	169	253	164	384	39	13	14
6	61	107	174	159	110	179	262	139	403	37	12	14
7	64	107	174	129	123	171	250	123	419	35	12	15
8	68	107	133	127	129	169	247	107	419	33	12	16
9	70	107	109	137	137	167	232	100	427	32	12	18
10	71	107	107	150	148	159	221	94	439	30	12	18
11	68	107	100	157	150	148	210	96	388	28	14	18
12	68	117	100	150	142	148	207	91	332	26	14	17
13	70	117	100	142	150	146	197	91	271	24	12	17
14	71	117	103	137	169	144	197	83	241	22	12	17
15	71	117	108	135	186	142	194	94	224	20	11	16
16	75	113	115	133	194	142	186	111	199	19	10	16
17	76	106	125	139	202	144	179	115	179	18	10	16
18	78	98	135	139	218	142	171	111	174	18	10	17
19	80	92	148	142	224	144	174	113	157	17	10	17
20	83	94	150	139	238	155	179	129	139	17	14	17
21	83	100	146	139	244	157	176	148	127	17	16	17
22	83	111	164	142	244	148	169	169	117	16	16	18
23	82	127	167	148	229	148	164	176	107	16	16	18
24	80	135	164	174	218	146	159	164	96	16	15	19
25	82	129	179	171	215	148	157	171	87	16	15	21
26	85	125	191	162	213	155	157	227	76	15	14	21
27	91	127	191	137	210	162	159	415	71	15	15	21
28	92	135	191	150	204	174	157	415	66	15	15	21
29	94	146	199	164	---	189	139	392	61	15	15	21
30	96	162	181	167	---	204	133	384	56	15	15	20
31	98	---	169	157	---	210	---	395	---	15	15	---
TOTAL	2359	3429	4660	4677	4928	5052	5812	5584	7285	772	412	516
MEAN	76.1	114	150	151	176	163	194	180	243	24.9	13.3	17.2
MAX	98	162	199	186	244	210	262	415	439	51	16	21
MIN	61	92	100	127	110	142	133	83	56	15	10	14
AC-FT	4680	6800	9240	9280	9770	10020	11530	11080	14450	1530	817	1020

CAL YR 1980	TOTAL	252028	MEAN	689	MAX	3870	MIN	51	AC-FT	499900
WTR YR 1981	TOTAL	45486	MEAN	125	MAX	439	MIN	10	AC-FT	90220

HUMBOLDT RIVER BASIN

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10323400 HUMBOLDT RIVER NEAR DUNPHY, NV

LOCATION.--Lat 40°41'53", long 116°30'25", in SE1SW1 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 September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

REMARKS.--Records good except those for winter months and period of no gage height record Oct. 1-24 and Aug. 17 to Sept. 30, 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, 342 ft³/s (9.69 m³/s) June 10, 1981, gage height 3.74 ft (1.140 m); minimum daily 2.0 ft³/s (0.057 m³/s) Sept. 26-30, 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	80	155	157	141	211	182	132	299	36	2.5	2.3
2	33	86	161	151	133	208	193	154	303	33	2.5	2.3
3	33	89	161	147	131	205	204	175	302	31	2.5	2.3
4	34	86	159	153	128	189	203	193	322	28	2.5	2.1
5	34	86	148	152	132	173	204	175	303	26	2.5	2.1
6	33	85	132	149	127	166	213	150	295	21	2.5	2.1
7	33	89	112	148	132	169	218	142	303	13	2.5	2.1
8	34	87	113	151	134	163	210	124	318	10	2.5	2.1
9	34	87	118	150	128	162	207	109	319	7.7	2.5	2.1
10	35	80	121	152	140	162	200	80	328	7.3	2.5	2.1
11	35	82	126	156	148	158	189	64	332	6.4	2.5	2.1
12	36	89	128	158	147	152	182	55	305	5.9	2.5	2.1
13	37	91	130	161	141	148	178	49	269	5.3	2.5	2.1
14	38	94	133	160	150	144	170	49	232	5.0	2.5	2.1
15	39	96	140	138	166	139	146	53	214	4.9	2.5	2.1
16	40	97	152	145	181	137	139	60	202	4.6	2.5	2.1
17	41	98	164	137	194	135	136	73	182	4.4	2.5	2.1
18	42	99	169	154	202	137	156	75	169	4.2	2.5	2.1
19	44	99	172	146	215	140	153	70	158	4.0	2.5	2.1
20	45	99	170	144	222	160	156	76	134	4.0	2.5	2.1
21	46	115	160	143	232	167	160	87	118	4.0	2.5	2.1
22	48	101	149	143	233	157	157	93	106	4.0	2.5	2.1
23	49	111	146	146	234	144	147	108	95	3.7	2.5	2.1
24	50	116	153	154	229	141	145	114	89	3.4	2.3	2.1
25	50	118	150	174	221	139	142	112	79	3.3	2.3	2.1
26	50	120	158	171	222	135	142	121	68	3.3	2.3	2.0
27	50	122	165	166	220	147	145	197	58	3.2	2.3	2.0
28	50	124	168	152	217	152	151	302	43	2.6	2.3	2.0
29	50	127	166	150	---	158	154	303	42	2.6	2.3	2.0
30	50	135	170	149	---	168	137	289	40	2.5	2.3	2.0
31	58	---	165	148	---	177	---	300	---	2.5	2.3	---
TOTAL	1285	2988	4614	4705	4900	4943	5119	4084	6027	296.8	75.9	63.1
MEAN	41.5	99.6	149	152	175	159	171	132	201	9.57	2.45	2.10
MAX	58	135	172	174	234	211	218	303	332	36	2.5	2.3
MIN	33	80	112	137	127	135	136	49	40	2.5	2.3	2.0
AC-FT	2550	5930	9150	9330	9720	9800	10150	8100	11950	589	151	125
WTR YR 1981	TOTAL	39100.8	MEAN	107	MAX	332	MIN	2.0	AC-FT	77560		

HUMBOLDT RIVER BASIN

10323500 HUMBOLDT RIVER NEAR ARGENTA, NV

LOCATION.--Lat 40°40'45", long 116°38'45", in SE1/4NW1/4 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 current year.

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 and period of no gage height record, May 18 to July 20, 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.--35 years, 332 ft³/s (9.402 m³/s), 240,500 acre-ft/yr (297 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, about 320 ft³/s (9.06 m³/s) June 11, gage height, unknown; minimum daily, 0.17 ft³/s (0.005 m³/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	71	119	136	150	196	163	134	270	42	.57	.26
2	28	75	128	134	143	193	174	135	270	37	.59	.25
3	27	76	128	123	132	190	180	148	275	34	.60	.22
4	27	75	126	126	116	182	181	165	280	31	.63	.21
5	28	76	122	131	109	170	181	169	290	28	.63	.19
6	27	74	110	131	108	159	184	153	275	24	.67	.19
7	27	76	96	128	146	160	189	134	270	18	.61	.22
8	28	75	82	128	117	158	177	128	275	14	.74	.24
9	28	76	86	130	115	156	172	108	280	9.2	.67	.25
10	29	71	90	142	120	155	166	96	290	7.2	.69	.23
11	29	73	91	142	122	152	163	81	300	5.0	.62	.23
12	29	77	94	139	124	147	157	68	290	3.6	.56	.23
13	30	81	97	132	125	140	155	58	265	2.5	.49	.23
14	31	83	100	135	129	132	147	58	240	2.0	.53	.23
15	33	84	95	134	139	129	130	61	224	1.5	.49	.23
16	36	83	99	127	172	125	120	61	200	1.2	.49	.23
17	36	85	108	125	180	124	115	74	185	1.0	.49	.20
18	37	82	116	122	184	126	127	75	167	.85	.45	.23
19	39	81	130	122	191	129	135	74	158	.81	.42	.22
20	41	80	143	125	198	144	140	72	142	.79	.38	.18
21	42	84	154	125	205	153	143	68	122	.79	.51	.19
22	44	82	158	130	210	149	143	77	108	.81	.35	.19
23	48	92	152	138	213	135	136	88	100	.77	.34	.19
24	52	97	159	146	208	132	136	99	93	.73	.34	.18
25	51	99	158	155	202	130	139	100	77	.71	.37	.19
26	52	100	153	153	202	128	140	105	71	.69	.28	.19
27	55	101	148	152	201	134	140	120	62	.71	.33	.18
28	57	102	142	149	198	142	141	160	55	.69	.36	.17
29	53	102	137	151	---	147	149	250	47	.62	.30	.19
30	63	107	135	157	---	156	145	275	45	.57	.30	.19
31	63	---	137	155	---	166	---	265	---	.56	.31	---
TOTAL	1199	2520	3793	4223	4459	4639	4568	3659	5726	271.30	15.11	6.33
MEAN	38.7	84.0	122	136	159	150	152	118	191	8.75	.49	.21
MAX	63	107	159	157	213	196	189	275	300	42	.74	.26
MIN	27	71	82	122	108	124	115	58	45	.56	.28	.17
AC-FT	2380	5000	7520	8380	8840	9200	9060	7260	11360	538	30	13
CAL YR 1980	TOTAL	230849.00	MEAN	631	MAX	4010	MIN	21	AC-FT	457900		
WTR YR 1981	TOTAL	35078.74	MEAN	96.1	MAX	300	MIN	.17	AC-FT	69580		

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 NW¼SE¼ 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 September 1981.

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 and periods of no gage height record Oct. 1-23 and July 15 to Sept. 30, 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, 298 ft³/s (8.44 m³/s) June 11, 1981, gage height, 4.29 ft (1.308 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 29, 30, 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	60	108	120	171	207	157	120	274	38	2.2	2.5
2	29	64	117	123	160	204	168	128	273	34	2.2	2.5
3	28	68	119	121	141	201	175	144	269	31	2.3	2.5
4	28	68	119	121	128	192	178	160	278	28	2.3	2.5
5	29	68	110	124	127	185	179	163	277	26	2.3	2.5
6	29	68	100	121	122	167	182	144	253	24	2.3	2.5
7	28	70	80	120	127	162	190	131	256	18	2.3	2.5
8	28	72	68	120	129	162	179	123	270	12	2.3	2.5
9	29	72	73	126	132	158	173	113	271	9.2	2.4	2.5
10	29	71	75	130	133	158	165	99	277	6.7	2.4	2.5
11	29	70	76	134	143	157	161	82	290	5.4	2.4	2.5
12	30	71	78	147	145	153	155	75	273	4.5	2.5	2.5
13	31	72	81	131	147	149	151	65	245	3.4	2.5	2.5
14	32	77	77	133	145	138	147	60	215	2.8	2.5	2.5
15	33	79	80	129	154	133	139	61	189	2.5	2.5	2.5
16	35	82	84	131	172	129	125	62	175	2.4	2.5	2.4
17	37	86	87	135	184	127	117	73	162	2.3	2.5	2.4
18	38	85	99	132	190	126	124	78	146	2.3	2.5	2.4
19	39	84	114	145	203	130	133	86	135	2.3	2.5	2.4
20	40	81	124	139	215	143	137	82	123	2.2	2.5	2.4
21	42	78	132	141	220	151	140	85	107	2.2	2.5	2.3
22	44	80	136	140	224	152	141	92	96	2.2	2.5	2.3
23	46	82	129	142	228	140	137	101	85	2.2	2.5	2.3
24	49	94	145	143	229	133	132	110	78	2.2	2.5	2.3
25	50	92	132	161	219	130	130	112	71	2.2	2.5	2.3
26	48	90	128	166	214	130	130	114	63	2.2	2.5	2.2
27	49	88	120	163	215	129	130	128	58	2.2	2.5	2.2
28	50	92	118	158	212	137	130	231	50	2.2	2.5	2.2
29	50	101	113	150	---	143	139	274	43	2.2	2.5	2.1
30	55	99	112	158	---	148	133	264	40	2.2	2.5	2.1
31	58	---	110	163	---	159	---	267	---	2.2	2.5	---
TOTAL	1172	2364	3244	4267	4829	4733	4477	3827	5342	281.2	75.4	71.8
MEAN	37.8	78.8	105	138	172	153	149	123	178	9.07	2.43	2.39
MAX	58	101	145	166	229	207	190	274	290	38	2.5	2.5
MIN	28	60	68	120	122	126	117	60	40	2.2	2.2	2.1
AC-FT	2320	4690	6430	8460	9580	9390	8880	7590	10600	558	150	142
WTR YR 1981	TOTAL	34683.4	MEAN	95.0	MAX	290	MIN	2.1	AC-FT	68790		

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 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), Humboldt Decree, in valleys upstream. Station is above all diversions in Boulder Flat and below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi (48 km) upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years (1918-23, 1945-81), 33.8 ft³/s (0.957 m³/s), 24,490 acre-ft/yr (30.2 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.--Maximum discharge, 70 ft³/s (1.98 m³/s) May 28, gage height 3.03 ft (0.924 m), no peak above base of 75 ft³/s (2.12 m³/s); no flow July 22 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	9.5	9.0	8.0	8.2	9.8	8.9	1.2	24	1.5	.00	.00
2	4.8	9.5	11	8.5	8.0	9.6	7.2	.98	21	1.5	.00	.00
3	4.9	9.5	12	10	7.6	10	6.6	.95	20	2.0	.00	.00
4	4.9	9.5	10	11	7.2	9.4	6.1	1.0	19	2.2	.00	.00
5	5.2	9.5	6.6	9.0	8.0	8.9	5.6	.97	18	2.3	.00	.00
6	6.3	9.5	6.0	6.6	8.6	9.0	4.9	.96	15	2.8	.00	.00
7	6.2	9.5	5.6	7.2	8.0	8.6	4.6	1.2	13	2.7	.00	.00
8	6.3	9.5	5.2	7.6	9.0	8.4	4.6	1.1	9.6	2.0	.00	.00
9	6.1	9.5	5.0	8.0	11	7.6	4.6	1.1	7.1	1.8	.00	.00
10	6.2	9.5	4.9	8.3	10	7.4	5.4	1.0	5.7	1.6	.00	.00
11	6.1	9.2	4.8	8.6	9.5	7.3	5.6	1.0	5.3	1.6	.00	.00
12	6.2	8.8	5.0	8.9	13	6.9	5.5	.95	6.2	1.6	.00	.00
13	6.2	8.4	5.5	9.3	10	7.0	5.5	.96	7.2	1.2	.00	.00
14	6.6	8.0	6.0	9.5	12	7.0	4.0	1.1	8.2	.86	.00	.00
15	7.2	7.5	6.5	9.4	13	6.7	2.6	1.9	8.7	.56	.00	.00
16	7.9	7.0	6.8	9.3	16	6.7	2.0	2.3	6.5	.42	.00	.00
17	7.9	6.8	7.0	9.2	16	6.5	1.7	1.9	4.4	.36	.00	.00
18	8.2	6.6	7.5	9.2	17	6.4	1.6	1.5	3.5	.25	.00	.00
19	7.7	7.5	7.7	9.9	17	6.3	1.6	4.0	2.9	.16	.00	.00
20	7.5	9.0	8.0	10	16	10	2.0	4.3	3.7	.09	.00	.00
21	7.5	11	8.2	9.7	15	11	1.9	3.8	3.9	.04	.00	.00
22	7.5	12	8.4	11	14	10	1.7	2.5	3.2	.00	.00	.00
23	7.6	11	8.6	11	12	8.8	1.9	6.4	2.4	.00	.00	.00
24	7.7	10	8.8	9.0	12	8.7	3.7	17	2.2	.00	.00	.00
25	7.6	6.2	9.3	9.8	13	8.8	2.9	18	1.7	.00	.00	.00
26	8.3	6.0	8.8	11	12	9.6	2.1	25	1.2	.00	.00	.00
27	8.5	6.8	8.8	11	10	11	1.8	49	.89	.00	.00	.00
28	8.8	7.8	9.8	12	9.4	9.2	1.5	66	.92	.00	.00	.00
29	9.0	9.9	8.9	9.9	---	8.0	1.4	50	1.1	.00	.00	.00
30	9.3	8.6	8.7	9.7	---	7.4	1.3	30	1.3	.00	.00	.00
31	9.5	---	8.0	9.0	---	9.8	---	25	---	.00	.00	---
TOTAL	218.6	263.1	236.4	290.6	322.5	261.8	110.8	323.07	227.81	27.54	.00	.00
MEAN	7.05	8.77	7.63	9.37	11.5	8.45	3.69	10.4	7.59	.89	.000	.000
MAX	9.5	12	12	12	17	11	8.9	66	24	2.8	.00	.00
MIN	4.8	6.0	4.8	6.6	7.2	6.3	1.3	.95	.89	.00	.00	.00
AC-FT	434	522	469	576	640	519	220	641	452	55	.00	.00
CAL YR 1980	TOTAL	19576.82	MEAN	53.5	MAX	1780	MIN	.27	AC-FT	38830		
WTR YR 1981	TOTAL	2282.22	MEAN	6.25	MAX	66	MIN	.00	AC-FT	4530		

HUMBOLDT RIVER BASIN

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10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, 30 ft (9 m) downstream from bridge on State Highway 18A, on left bank 2 mi (3 km) north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 mi² (22,970 km²), approximately.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to September 1981 (discontinued). Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1564: 1897-98, 1923.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. Prior to Mar. 1, 1921, nonrecording gage 1.3 mi (2.1 km) upstream and Mar. 1, 1921, to Apr. 19, 1924, nonrecording gage 0.8 mi (1.3 km) upstream, both at different datums. Oct. 1945 to Sept. 20, 1972, water-stage recorder at site 1.0 mi (1.6 km) upstream at datum 4.79 ft (1.460 m) higher.

REMARKS.--Records good except those for winter months, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation of 194,000 acres (785 km²) Humboldt Decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--39 years (1896-97, 1921-23, 1945-81), 347 ft³/s (9.827 m³/s), 251,400 acre-ft/yr (310 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,800 ft³/s (164 m³/s) May 3, 4, 1952 (includes flow bypassing gage outside of main channel); no flow Sept. 8 to Oct. 22, 1948, Sept. 21-26, 1949, Sept. 21-27, 1959, Aug. 16 to Sept. 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 484 ft³/s (13.7 m³/s) June 7, gage height, 5.31 ft (1.618 m); no flow Aug. 16 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	72	118	149	132	207	153	116	199	44	2.6	.00
2	40	78	130	146	125	203	156	84	182	41	2.5	.00
3	39	81	133	144	120	199	165	106	178	39	2.4	.00
4	40	83	135	143	125	195	169	172	205	36	2.2	.00
5	39	82	133	144	127	188	167	160	233	34	1.8	.00
6	39	82	138	145	135	174	170	163	231	32	1.8	.00
7	39	85	140	140	128	167	178	143	274	29	1.5	.00
8	39	84	124	140	138	167	172	138	258	23	1.4	.00
9	39	84	112	135	135	163	165	136	260	20	1.1	.00
10	40	84	100	130	132	163	160	125	265	17	1.0	.00
11	40	83	100	135	140	162	154	106	272	15	.79	.00
12	40	83	100	140	148	158	151	94	265	13	.79	.00
13	40	83	102	142	146	154	148	88	244	13	.79	.00
14	42	83	108	144	144	148	144	82	218	12	.45	.00
15	44	84	112	144	151	140	138	84	189	11	.34	.00
16	46	84	118	141	165	140	124	87	165	10	.00	.00
17	47	85	125	146	178	138	121	83	153	9.6	.00	.00
18	47	86	128	138	186	140	122	90	140	8.3	.00	.00
19	48	88	130	141	193	144	124	94	130	7.7	.00	.00
20	49	90	132	141	207	158	115	97	121	7.4	.00	.00
21	50	93	148	140	212	165	112	94	105	6.8	.00	.00
22	51	98	160	140	220	169	108	96	94	6.3	.00	.00
23	54	101	144	140	222	160	101	98	94	5.7	.00	.00
24	57	100	158	141	224	153	93	104	85	5.2	.00	.00
25	60	100	154	151	218	149	101	109	79	5.0	.00	.00
26	61	105	143	158	214	149	104	113	76	4.6	.00	.00
27	63	110	148	162	214	140	100	118	73	4.1	.00	.00
28	64	110	153	156	209	138	101	156	60	3.9	.00	.00
29	65	110	154	149	---	140	110	220	51	3.9	.00	.00
30	64	113	154	145	---	143	110	199	47	3.2	.00	.00
31	70	---	154	140	---	149	---	195	---	3.2	.00	---
TOTAL	1497	2704	4088	4450	4688	4963	4036	3750	4946	473.9	21.46	.00
MEAN	48.3	90.1	132	144	167	160	135	121	165	15.3	.69	.000
MAX	70	113	160	162	224	207	178	220	274	44	2.6	.00
MIN	39	72	100	130	120	138	93	82	47	3.2	.00	.00
AC-FT	2970	5360	8110	8830	9300	9840	8010	7440	9810	940	43	.00

CAL YR 1980	TOTAL	271309.00	MEAN	741	MAX	5300	MIN	30	AC-FT	538100
WTR YR 1981	TOTAL	35617.36	MEAN	97.6	MAX	274	MIN	.00	AC-FT	70650

HUMBOLDT RIVER BASIN

10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°10'16", long 117°12'23", in NW¼, sec. 36, T.27 N., R.42 E., Lander County, Hydrologic Unit 16040107 on left bank, about 4 mi (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 fair except for periods of no gage-height record, Feb. 20 to Apr. 23, and May 14 to June 12, 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."

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, 9.1 ft³/s (0.26 m³/s) May 2, gage height 2.29 ft (0.698 m); minimum daily, 0.33 ft³/s (0.009 m³/s) July 18, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.2	1.8	1.1	.76	.76	.90	1.6	.85	1.0	.67	1.0
2	1.3	1.1	1.6	1.1	.70	.80	.90	2.3	.95	.72	.54	.78
3	1.3	1.2	1.5	1.3	.76	.90	.80	1.8	.95	.70	.47	.86
4	1.3	1.1	1.8	1.4	.76	.85	.75	1.7	.90	.60	.50	.86
5	1.4	1.1	1.3	1.2	.82	.80	.75	1.9	.80	.39	.40	.77
6	1.4	1.1	1.4	1.2	.96	.72	.80	1.9	.75	.46	.33	.78
7	1.4	1.2	1.2	1.1	1.1	.74	.83	1.3	.70	.68	.52	1.0
8	1.4	1.3	1.0	1.0	.96	.76	.87	1.6	.65	.47	.43	.89
9	1.3	1.8	.96	1.1	1.1	.82	.90	.98	.60	.49	.38	1.1
10	1.4	1.5	.96	1.1	1.1	.88	.95	1.2	.55	.34	.34	1.6
11	1.5	1.5	.96	1.0	1.1	.92	1.0	.95	.55	.34	.36	1.0
12	1.4	1.2	.94	1.0	1.1	.90	1.0	1.5	.96	.54	.42	1.1
13	1.2	.96	.92	1.1	1.2	.85	1.1	2.0	.93	.41	.53	1.6
14	1.1	.96	1.0	.96	1.0	.80	1.2	1.7	1.1	.55	1.2	1.8
15	1.1	1.0	1.0	.96	1.1	1.0	1.3	1.4	.98	.58	1.1	.80
16	1.1	1.1	1.0	.89	1.1	.90	1.5	1.2	.58	.92	.75	.90
17	1.1	1.0	1.1	.89	1.1	.75	1.3	1.1	.65	.42	.66	.82
18	.89	1.2	1.1	.82	1.1	.70	1.1	1.0	.62	.33	.82	1.3
19	.89	1.3	1.1	.89	.97	.80	1.0	1.2	.51	.35	.45	.61
20	1.0	1.5	1.2	.82	.88	.75	1.0	1.4	.54	.60	.66	.50
21	1.4	1.5	2.0	1.0	.78	.70	.90	1.4	.46	.58	1.4	.61
22	1.3	1.6	1.9	.96	.76	.75	.75	1.3	.52	.79	.69	.68
23	1.0	1.5	1.6	1.0	.80	.85	.70	1.2	.50	.65	.60	.60
24	1.4	1.5	2.5	1.0	1.0	1.0	.72	1.1	.46	.73	.67	.92
25	1.8	1.0	2.5	1.2	.80	.90	.81	1.1	.43	.47	.57	.83
26	2.0	1.1	1.4	.89	.78	.75	.82	1.0	.40	.45	.59	.73
27	2.1	1.4	1.5	1.2	.76	.67	.74	1.0	.41	.37	.54	.60
28	1.9	1.5	1.5	1.1	.76	.63	.73	.95	.41	.39	.96	.48
29	1.6	1.5	1.4	1.2	---	.68	1.9	.85	.56	.43	.93	.36
30	.89	1.6	1.1	.76	---	.75	1.8	.80	1.2	.39	.72	.43
31	.96	---	1.0	.82	---	.80	---	.80	---	.74	.78	---
TOTAL	41.13	38.52	42.24	32.06	26.11	24.88	29.82	41.23	20.47	16.88	19.98	26.31
MEAN	1.33	1.28	1.36	1.03	.93	.80	.99	1.33	.68	.54	.64	.88
MAX	2.1	1.8	2.5	1.4	1.2	1.0	1.9	2.3	1.2	1.0	1.4	1.8
MIN	.89	.96	.92	.76	.70	.63	.70	.80	.40	.33	.33	.36
AC-FT	82	76	84	64	52	49	59	82	41	33	40	52

WTR YR 1981 TOTAL 359.63 MEAN .99 MAX 2.5 MIN .33 AC-FT 713

HUMBOLDT RIVER BASIN

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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 above 10 ft³/s (0.28 m³/s) and poor below. Many diversions above station for irrigation, Humboldt Decree, 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.--67 years, 292 ft³/s (8.269 m³/s), 211,600 acre-ft/yr (261 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, 305 ft³/s (8.64 m³/s) June 18, gage height, 4.02 ft (1.225 m); maximum gage height 4.30 ft (1.311 m) backwater from ice; minimum daily, 0.25 ft³/s (0.007 m³/s) Sept. 16-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	58	118	150	130	194	123	99	147	47	.31	1.8
2	34	63	120	150	122	192	131	96	174	44	.31	1.6
3	34	66	128	150	105	188	129	95	158	42	.31	1.4
4	34	70	136	145	110	185	136	79	138	40	.31	1.2
5	34	74	138	138	113	182	142	109	132	37	.31	1.1
6	34	77	139	118	116	173	145	145	131	35	.70	.95
7	34	77	131	115	120	164	146	143	139	32	2.5	.80
8	33	77	128	110	118	153	150	145	107	30	5.0	.70
9	32	80	97	102	122	150	157	128	135	29	5.4	.60
10	32	79	100	110	122	148	149	124	131	26	5.2	.50
11	32	82	100	120	126	146	147	119	144	25	5.2	.44
12	33	83	100	128	127	145	141	111	148	20	5.1	.38
13	33	82	105	132	134	143	137	84	160	16	5.0	.31
14	34	84	108	138	136	141	135	79	187	14	4.6	.28
15	34	85	112	140	133	136	132	68	185	11	4.4	.26
16	35	87	116	150	135	128	128	64	171	9.0	4.0	.25
17	38	90	120	152	143	125	120	61	150	7.0	3.6	.25
18	39	92	124	159	154	121	113	67	147	5.5	3.3	.25
19	41	95	128	161	164	124	109	72	126	4.5	3.0	.25
20	42	94	130	163	171	134	113	75	113	3.5	2.8	.25
21	43	95	136	164	177	134	113	86	106	2.8	2.5	.25
22	44	101	155	153	187	140	103	79	95	2.2	2.3	.25
23	44	96	147	145	195	145	103	75	88	1.6	2.1	.25
24	44	98	154	141	199	145	96	71	82	1.2	1.9	.25
25	47	99	162	138	202	136	90	74	77	.85	1.8	.25
26	50	98	148	140	200	132	81	84	70	.60	1.6	.25
27	54	103	148	153	195	130	91	96	65	.40	1.5	.25
28	55	103	150	157	195	127	89	91	60	.35	1.4	.25
29	56	110	152	156	---	118	87	91	61	.33	2.0	.25
30	57	115	152	148	---	118	91	138	55	.32	2.3	.25
31	58	---	152	140	---	118	---	155	---	.32	2.1	---
TOTAL	1251	2613	4034	4366	4151	4515	3627	3003	3682	488.47	82.85	16.07
MEAN	40.4	87.1	130	141	148	146	121	96.9	123	15.8	2.67	.54
MAX	58	115	162	164	202	194	157	155	187	47	5.4	1.8
MIN	32	58	97	102	105	118	81	61	55	.32	.31	.25
AC-FT	2480	5180	8000	8660	8230	8960	7190	5960	7300	969	164	32

CAL YR 1980 TOTAL 202309.00 MEAN 553 MAX 2910 MIN 32 AC-FT 401300
WTR YR 1981 TOTAL 31829.39 MEAN 87.2 MAX 202 MIN .25 AC-FT 63130

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 except those for period of no gage-height record May 20 to June 9, and July 18 to Sept. 30, 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, unknown, gage height unknown; minimum daily during period of operation, 0.20 ft³/s (0.006 m³/s) July 19-Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							12	17	15	.73	.20	1.1
2							13	17	14	.73	.20	1.1
3							12	18	13	.73	.20	1.1
4							11	17	12	.72	.20	1.1
5							11	15	11	.64	.20	1.1
6							11	13	10	.60	.20	1.1
7							14	12	9.5	.49	.20	1.1
8							14	12	8.5	.41	.20	1.1
9							14	11	7.8	.49	.20	1.1
10							14	9.9	7.1	.48	.22	1.2
11							13	9.3	6.5	.39	.30	1.4
12							12	9.2	5.8	.31	.40	1.2
13							12	8.7	5.4	.27	.65	1.1
14							12	8.4	5.8	.24	.80	1.0
15							13	9.0	5.9	.27	.75	1.0
16							16	10	5.4	.25	.73	1.0
17							18	11	4.5	.22	.70	1.0
18							18	12	3.9	.21	.70	1.0
19							19	15	3.7	.20	.80	1.0
20							23	15	3.3	.20	.90	1.0
21							23	16	3.0	.20	1.0	1.0
22							22	16	2.7	.20	1.1	1.0
23							21	17	2.4	.20	1.2	1.0
24							21	18	2.1	.20	1.3	1.0
25							22	20	1.8	.20	1.4	1.0
26							22	21	1.6	.20	1.5	.80
27							21	20	1.3	.20	1.4	.65
28							19	19	1.0	.20	1.3	.85
29							17	18	.94	.20	1.2	1.1
30							18	17	.79	.20	1.1	1.3
31							---	16	---	.20	1.1	---
TOTAL							488	447.5	175.73	10.78	22.35	31.50
MEAN							16.3	14.4	5.86	.35	.72	1.05
MAX							23	21	15	.73	1.5	1.4
MIN							11	8.4	.79	.20	.20	.65
AC-FT							968	888	349	21	44	62

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°27'00", long 117°06'00", in NE¼ 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 fair. 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, 16 ft³/s (0.45 m³/s) May 20, gage height 1.01 ft (0.308 m); no flow June 12 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.0	1.3	2.4	.00	.00	.00
2							5.8	.97	2.1	.00	.00	.00
3							5.3	.82	2.1	.00	.00	.00
4							4.1	.82	2.1	.00	.00	.00
5							3.8	.68	1.3	.00	.00	.00
6							2.9	.68	.82	.00	.00	.00
7							2.3	.68	.68	.00	.00	.00
8							2.8	.68	.57	.00	.00	.00
9							2.3	.57	.39	.00	.00	.00
10							2.2	.47	.25	.00	.00	.00
11							2.4	.47	.10	.00	.00	.00
12							2.1	.47	.00	.00	.00	.00
13							2.1	.39	.00	.00	.00	.00
14							2.1	.47	.00	.00	.00	.00
15							2.1	.97	.00	.00	.00	.00
16							2.1	1.6	.00	.00	.00	.00
17							1.8	1.6	.00	.00	.00	.00
18							2.0	3.5	.00	.00	.00	.00
19							1.8	12	.00	.00	.00	.00
20							5.1	14	.00	.00	.00	.00
21							5.8	10	.00	.00	.00	.00
22							4.3	8.2	.00	.00	.00	.00
23							3.2	6.9	.00	.00	.00	.00
24							1.6	6.5	.00	.00	.00	.00
25							1.6	7.6	.00	.00	.00	.00
26							1.6	8.2	.00	.00	.00	.00
27							1.6	7.9	.00	.00	.00	.00
28							1.6	6.2	.00	.00	.00	.00
29							1.6	5.1	.00	.00	.00	.00
30							1.3	4.3	.00	.00	.00	.00
31							---	2.8	---	.00	.00	---
TOTAL							84.3	116.84	12.81	.00	.00	.00
MEAN							2.81	3.77	.43	.000	.000	.000
MAX							5.8	14	2.4	.00	.00	.00
MIN							1.3	.39	.00	.00	.00	.00
AC-FT							167	232	25	.00	.00	.00

HUMBOLDT RIVER BASIN

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 fair, except for period of no gage height record, Sept. 2-30, which are poor. 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, 40 ft³/s (1.13 m³/s) May 2, gage height, 2.02 ft (0.616 m); minimum daily during period of operation, 0.26 ft³/s (0.007 m³/s) Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							17	30	13	.71	.45	.29
2							17	31	14	.59	.45	.31
3							17	16	14	.59	.45	.33
4							17	9.8	14	.59	.45	.34
5							17	10	14	.59	.45	.35
6							16	10	14	.54	.45	.36
7							16	10	15	.49	.45	.37
8							16	10	14	.49	.49	.37
9							16	10	14	.49	.45	.38
10							16	10	14	.49	.45	.38
11							16	11	16	.49	.45	.38
12							15	11	16	.49	.45	.38
13							15	11	16	.49	.45	.39
14							15	11	15	.49	.33	.39
15							15	11	16	.49	.26	.39
16							15	11	16	.49	.29	.39
17							15	11	16	.49	.29	.39
18							15	11	16	.49	.36	.39
19							16	11	9.2	.49	.29	.39
20							15	10	5.4	.49	.29	.39
21							15	10	6.1	.54	.33	.40
22							22	9.8	7.1	.54	.36	.40
23							29	11	8.0	.54	.40	.40
24							30	11	9.8	.49	.40	.40
25							30	11	12	.49	.33	.40
26							30	11	14	.45	.29	.40
27							29	12	15	.49	.45	.40
28							30	11	17	.49	.49	.40
29							30	11	6.6	.45	.54	.40
30							30	12	.77	.45	.54	.40
31							---	12	---	.45	.33	---
TOTAL							592	377.6	377.97	15.85	12.46	11.36
MEAN							19.7	12.2	12.6	.51	.40	.38
MAX							30	31	17	.71	.54	.40
MIN							15	9.8	.77	.45	.26	.29
AC-FT							1170	749	750	31	25	23

HUMBOLDT RIVER BASIN

197

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 except those for periods of no gage height record, Oct. 24 to Nov. 17 and Aug. 15 to Sept. 30, which are poor. 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.--43 years (1921-23, 1924-27, 1943-1981), 24.4 ft³/s (0.691 m³/s), 17,680 acre-ft/yr (21.8 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, 23 ft³/s (0.65 m³/s) May 7, gage height, 1.69 ft (0.515 m); minimum daily, 6.1 ft³/s (0.17 m³/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.8	7.7	6.9	7.3	7.3	16	19	13	7.0	6.7	6.8
2	7.7	7.8	7.7	6.9	7.3	7.3	16	20	13	7.2	6.6	6.8
3	7.7	7.8	7.7	6.9	6.9	7.3	16	20	13	7.4	6.5	6.8
4	7.7	7.8	8.0	7.3	6.9	7.3	16	21	13	7.4	6.4	6.8
5	7.7	7.8	7.3	6.9	6.9	7.3	16	21	13	7.5	6.3	6.8
6	7.7	7.9	7.3	6.9	6.9	7.7	16	22	13	7.6	6.2	6.9
7	7.7	7.9	7.3	6.9	6.5	7.7	16	23	13	7.3	6.1	6.9
8	7.7	7.9	7.3	6.9	6.5	7.7	16	20	13	7.0	6.5	6.9
9	7.7	7.9	6.9	6.9	6.5	7.7	16	14	13	6.9	6.3	6.9
10	7.7	7.9	6.9	6.9	6.5	7.6	16	14	13	6.8	6.3	6.9
11	7.7	8.0	6.9	6.9	6.5	7.5	16	14	13	6.8	6.3	7.0
12	7.7	8.0	7.3	6.9	6.5	7.7	16	14	13	6.6	6.3	7.0
13	7.9	8.0	6.9	6.9	6.9	7.7	16	14	13	6.7	6.3	7.0
14	8.0	8.0	6.9	6.9	6.9	7.7	16	14	13	6.7	6.5	7.0
15	8.1	8.0	6.9	6.9	6.9	7.5	16	14	13	6.5	6.5	7.0
16	8.2	8.0	6.9	6.9	7.4	7.7	15	15	12	6.5	6.5	7.0
17	8.0	8.0	7.3	6.9	7.6	7.4	16	14	12	6.5	6.5	7.0
18	8.0	8.0	7.3	6.9	7.3	7.6	16	15	12	6.8	6.5	7.0
19	8.0	8.0	7.3	6.9	7.3	7.9	17	18	12	6.9	6.5	7.0
20	8.0	8.0	6.9	6.9	7.5	8.3	16	18	11	6.9	6.5	7.0
21	7.9	7.7	7.3	6.9	7.3	7.7	16	16	9.2	6.8	6.6	7.1
22	7.7	8.0	7.3	6.9	7.3	7.7	15	15	8.3	6.7	6.6	7.1
23	7.7	8.0	7.3	7.3	7.3	7.7	14	14	8.0	6.7	6.6	7.1
24	7.7	7.7	7.3	6.9	7.3	7.7	16	14	8.0	6.6	6.6	7.1
25	7.7	7.3	7.7	6.9	7.3	7.8	16	16	7.8	6.6	6.6	7.1
26	7.7	7.3	7.3	6.9	7.3	9.6	17	15	7.9	6.8	6.7	7.2
27	7.7	7.3	7.3	6.9	7.3	13	17	15	7.8	6.8	6.7	7.2
28	7.7	7.7	7.3	7.3	7.3	13	17	13	7.8	6.7	6.7	7.2
29	7.7	7.7	7.3	7.7	---	13	18	13	7.5	6.6	6.7	7.2
30	7.7	8.4	6.9	7.3	---	14	19	13	7.2	6.6	6.7	7.2
31	7.7	---	6.9	7.3	---	15	---	13	---	6.6	6.7	---
TOTAL	241.5	235.6	224.6	216.7	197.4	268.1	485	501	333.5	212.5	201.5	210.0
MEAN	7.79	7.85	7.25	6.99	7.05	8.65	16.2	16.2	11.1	6.85	6.50	7.00
MAX	8.2	8.4	8.0	7.7	7.6	15	19	23	13	7.6	6.7	7.2
MIN	7.7	7.3	6.9	6.9	6.5	7.3	14	13	7.2	6.5	6.1	6.8
AC-FT	479	467	445	430	392	532	962	994	661	421	400	417
CAL YR 1980	TOTAL	6443.9	MEAN	17.6	MAX	77	MIN	5.0	AC-FT	12780		
WTR YR 1981	TOTAL	3327.4	MEAN	9.12	MAX	23	MIN	6.1	AC-FT	6600		

HUMBOLDT RIVER BASIN

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.6 mi (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.

AVERAGE DISCHARGE.--60 years, 31.6 ft³/s (0.895 m³/s), 22,890 acre-ft/yr (28.2 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.--Maximum discharge, 152 ft³/s (4.30 m³/s) Feb. 14, gage height 1.82 ft (0.555 m), no peak above base of 200 ft³/s (5.66 m³/s); minimum daily, 3.4 ft³/s (0.096 m³/s) Aug. 11-14; 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	10	12	12	8.9	15	24	53	47	7.2	3.9	3.9
2	6.4	10	12	12	8.5	14	23	58	44	7.0	3.9	3.8
3	6.4	10	13	11	9.3	13	23	51	43	7.1	3.9	3.8
4	6.4	10	14	10	9.3	13	20	46	38	6.7	3.9	3.8
5	6.7	11	14	10	10	14	22	43	35	6.2	3.9	3.8
6	6.7	11	13	10	11	14	28	39	32	6.7	3.8	4.0
7	6.7	11	10	11	9.3	12	27	36	30	6.9	3.7	4.1
8	6.8	11	8.9	11	10	12	26	33	28	6.6	3.6	4.1
9	7.0	11	8.9	12	11	12	27	31	29	6.3	3.6	4.3
10	7.0	11	8.9	12	11	12	26	30	25	6.0	3.5	4.5
11	7.0	11	9.1	11	11	12	25	31	23	5.7	3.4	4.5
12	7.6	11	9.3	11	11	12	25	29	21	5.4	3.4	4.3
13	8.1	11	9.5	11	11	12	24	28	23	5.3	3.4	4.3
14	8.1	11	9.7	11	58	12	26	28	23	5.2	3.4	4.3
15	8.1	12	10	12	31	11	31	31	20	5.1	3.5	4.1
16	8.7	10	12	11	20	13	36	32	18	5.1	3.4	4.1
17	8.9	11	12	12	64	11	37	30	16	5.1	3.4	4.1
18	8.9	11	12	11	26	11	38	34	15	5.1	3.4	4.1
19	8.9	11	12	12	24	13	43	45	14	5.1	3.5	4.1
20	9.3	11	12	11	22	14	47	46	13	5.0	3.7	4.2
21	9.3	11	12	11	17	12	42	48	12	4.9	3.8	4.5
22	9.3	12	13	10	19	14	43	50	11	4.8	3.8	4.7
23	9.3	12	13	10	19	14	47	51	10	4.7	3.8	4.9
24	9.3	12	13	10	19	14	52	52	9.9	4.5	3.7	5.0
25	9.3	10	22	10	17	15	51	61	9.4	4.4	3.6	5.4
26	9.3	10	27	9.3	15	19	48	65	8.9	4.4	3.6	5.3
27	9.7	11	19	10	14	18	44	63	8.4	4.4	3.6	5.3
28	10	12	17	12	14	18	41	60	8.1	4.1	3.6	5.1
29	10	12	15	11	---	25	44	57	7.9	4.1	3.6	5.6
30	10	13	14	9.7	---	25	48	53	7.5	4.0	3.7	5.4
31	10	---	14	11	---	22	---	51	---	3.9	3.8	---
TOTAL	255.6	331	401.3	338.0	510.3	448	1038	1365	630.1	167.0	112.8	133.4
MEAN	8.25	11.0	12.9	10.9	18.2	14.5	34.6	44.0	21.0	5.39	3.64	4.45
MAX	10	13	27	12	64	25	52	65	47	7.2	3.9	5.6
MIN	6.4	10	8.9	9.3	8.5	11	20	28	7.5	3.9	3.4	3.8
AC-FT	507	657	796	670	1010	889	2060	2710	1250	331	224	265
CAL YR 1980	TOTAL	20185.9	MEAN	55.2	MAX	1010	MIN	4.9	AC-FT	40040		
WTR YR 1981	TOTAL	5730.5	MEAN	15.7	MAX	65	MIN	3.4	AC-FT	11370		

HUMBOLDT RIVER BASIN

199

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; Humboldt Decree 226,000 acres (915 km²); additional acreage not covered in decree.

AVERAGE DISCHARGE.--42 years, 208 ft³/s (5.891 m³/s), 150,700 acre-ft/yr (186 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, 194 ft³/s (5.49 m³/s) Feb. 19, gage height, 4.66 ft (1.420 m), maximum gage height 4.73 ft (1.442 m) Mar. 29; minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Sept. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	66	74	91	112	126	105	46	38	13	14	5.0
2	66	66	86	103	112	126	103	41	39	16	13	4.7
3	67	67	84	100	117	127	104	38	35	29	13	4.5
4	66	66	89	95	116	126	97	37	36	77	12	4.2
5	67	67	79	104	109	129	99	36	46	54	11	3.9
6	66	67	80	122	113	127	88	34	42	51	11	3.9
7	66	75	79	98	107	127	84	30	37	46	11	3.9
8	66	65	82	99	107	127	86	27	34	41	10	3.9
9	66	66	70	111	115	127	87	27	28	38	10	3.9
10	66	67	76	122	105	123	88	25	26	35	9.5	3.9
11	65	72	88	117	109	123	92	25	26	31	9.1	3.9
12	64	74	93	115	111	122	85	25	23	29	8.7	3.4
13	65	74	91	116	113	123	82	25	22	28	8.7	3.4
14	65	74	85	112	116	120	82	27	21	27	8.7	3.2
15	65	70	89	119	111	120	86	29	21	26	8.3	2.8
16	64	72	95	122	113	126	79	27	19	25	7.9	2.8
17	65	76	94	127	112	115	75	27	18	23	7.6	2.6
18	64	76	95	122	111	111	72	26	18	22	7.6	2.4
19	65	75	95	105	130	122	74	27	18	21	7.6	2.0
20	64	75	99	105	111	126	64	28	18	20	7.6	2.0
21	64	74	100	111	112	112	60	27	18	19	7.6	2.2
22	64	74	100	108	112	109	56	24	17	19	7.2	2.4
23	64	77	104	112	116	107	55	22	16	18	6.9	2.6
24	63	76	111	113	123	104	56	21	17	18	6.6	3.4
25	63	76	108	115	120	108	53	23	16	17	6.2	3.9
26	64	71	88	116	123	108	51	23	16	17	5.6	5.0
27	65	77	88	116	123	104	47	24	15	16	5.3	5.0
28	64	75	87	124	124	107	46	23	13	15	5.3	4.5
29	64	80	88	119	---	122	46	22	12	15	5.0	4.2
30	66	75	92	116	---	112	46	24	12	14	4.7	4.2
31	66	---	95	117	---	108	---	34	---	13	4.5	---
TOTAL	2014	2165	2784	3472	3203	3674	2248	874	717	833	261.2	107.7
MEAN	65.0	72.2	89.8	112	114	119	74.9	28.2	23.9	26.9	8.43	3.59
MAX	67	80	111	127	130	129	105	46	46	77	14	5.0
MIN	63	65	70	91	105	104	46	21	12	13	4.5	2.0
AC-FT	3990	4290	5520	6890	6350	7290	4460	1730	1420	1650	518	214
CAL YR 1980	TOTAL	163175.0	MEAN	446	MAX	1820	MIN	62	AC-FT	323700		
WTR YR 1981	TOTAL	22352.9	MEAN	61.2	MAX	130	MIN	2.0	AC-FT	44340		

HUMBOLDT RIVER BASIN

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 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE, WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
01...	1115	64	--	--	50	8.6	--
29...	0950	65	829	5.5	66	12	--
NOV							
25...	1330	76	702	2.0	24	4.9	--
JAN							
29...	1330	108	--	--	86	25	93
MAR							
26...	1420	123	712	6.5	166	55	91
MAY							
15...	1050	28	900	12.5	75	5.7	--
JUL							
22...	1445	19	837	27.0	130	6.7	88
SEP							
24...	1745	3.2	--	--	18	.16	--

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 elevations 4,072.5 ft (1,241.30 m), sill of trashrack structure, and 4,136.0 ft (1,260.65 m), top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft (1,255.6 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 elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, elevation, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 170,800 acre-ft (211 hm³) Mar. 22-25, elevation, 4,134.00 ft (1,260.043 m); minimum, 69,110 acre-ft (85.2 hm³) Sept. 30, elevation, 4,122.90 ft (1,256.660 m).

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

4,122	63,800	4,131	133,200
4,125	82,700	4,132	144,200
4,127	97,300	4,133	157,200
4,129	113,900	4,134	170,800
4,130	123,200		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168000	150700	150700	154600	161300	166700	168000	146800	133200	113900	101300	82030
2	166700	150700	150700	154600	161300	166700	168000	146800	132200	113000	100500	81360
3	166700	150700	150700	154600	161300	166700	166700	145500	132200	112200	99700	80690
4	165300	150700	150700	154600	161300	168000	166700	144200	132200	111300	99700	80020
5	165300	149400	150700	154600	161300	168000	165300	143100	131200	111300	98900	79350
6	165300	149400	150700	154600	161300	168000	165300	143100	131200	110500	98900	78680
7	165300	149400	150700	155900	161300	168000	165300	142000	130200	110500	98100	78680
8	164000	149400	150700	155900	161300	168000	164000	140900	130200	110500	97300	78010
9	164000	149400	150700	155900	161300	168000	162600	140900	129200	110500	96550	77340
10	161300	149400	150700	155900	161300	168000	162600	139800	129200	110500	95800	77340
11	159900	149400	150700	155900	162600	168000	161300	139800	128200	110500	95050	76670
12	158600	149400	150700	155900	162600	169400	161300	137600	128200	109600	93550	76000
13	158600	148100	150700	155900	164000	169400	159900	136500	127200	109600	92050	75370
14	158600	148100	150700	155900	164000	169400	159900	135400	127200	109600	91300	74740
15	158600	148100	150700	155900	164000	169400	158600	135400	126200	109600	91300	74740
16	157200	148100	150700	155900	164000	169400	158600	134300	126200	109600	90550	73480
17	157200	148100	150700	155900	164000	169400	157200	133200	125200	109600	89800	72850
18	157200	148100	152000	155900	164000	169400	157200	133200	124200	108700	89090	72220
19	155900	148100	152000	157200	164000	169400	155900	132200	124200	107900	88380	72220
20	155900	148100	152000	157200	164000	169400	154600	132200	124200	107000	88380	71590
21	155900	148100	152000	157200	164000	169400	154600	132200	123200	106200	87670	71590
22	154600	148100	152000	158600	165300	170800	153300	132200	122300	106200	87670	70330
23	154600	148100	152000	158600	165300	170800	153300	132200	122300	106200	86960	70330
24	153300	148100	152000	158600	166700	170800	152000	132200	121300	105300	86250	70330
25	153300	148100	152000	158600	166700	170800	152000	132200	119500	105300	86250	70330
26	152000	149400	153300	158600	166700	169400	150700	132200	118600	105300	86250	69700
27	152000	149400	153300	158600	166700	169400	150700	132200	118600	104500	85540	69700
28	152000	149400	153300	158600	166700	169400	149400	133200	117600	102900	84830	69700
29	152000	149400	153300	158600	---	169400	148100	133200	117600	102900	84120	69700
30	152000	149400	153300	159900	---	168000	148100	133200	115800	102100	83410	69110
31	150700	---	154600	159900	---	168000	---	133200	---	101300	82700	---
MAX	168000	150700	154600	159900	166700	170800	168000	146800	133200	113900	101300	82030
MIN	150700	148100	150700	154600	161300	166700	148100	132200	115800	101300	82700	69110
†	4132.5	4132.4	4132.8	4133.2	4133.7	4133.8	4132.3	4131.0	4129.2	4127.5	4125.0	4122.9
‡	-18700	-1300	+5200	+5300	+6800	+1300	-19900	-14900	-17400	-14500	-18600	-13590

CAL YR 1980 MAX 193100 MIN 91300 † + 63300
WTR YR 1981 MAX 170800 MIN 69110 ‡ -100290

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

‡ Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank 1,000 ft (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 Feb. 7 to Mar. 9, 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: Humboldt Decree, 226,000 acres (915 km²); additional acreage not covered by decree.

AVERAGE DISCHARGE.--67 years. (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-81), 204 ft³/s (5.777 m³/s), 147,800 acre-ft/yr (182 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, 775 ft³/s (21.9 m³/s) June 25, gage height, 4.08 ft (1.244 m); minimum daily discharge, 0.15 ft³/s (0.004 m³/s) Nov. 15-18, Jan. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	127	2.1	.90	1.1	3.8	222	245	223	542	247	348
2	268	102	2.1	.20	1.1	3.8	217	231	275	482	268	337
3	270	141	2.1	.20	1.1	3.8	345	315	249	353	275	345
4	204	141	2.1	.20	1.3	3.8	384	363	236	333	324	293
5	180	165	2.1	.20	1.3	3.8	297	382	233	314	397	248
6	222	187	2.1	.15	1.3	3.8	273	382	252	247	382	221
7	301	187	1.5	.15	3.5	3.8	284	430	324	190	347	228
8	346	184	1.8	.20	3.8	3.8	303	447	380	189	312	293
9	316	133	1.5	.20	3.8	3.8	301	408	416	181	359	265
10	298	103	1.5	.20	3.8	5.8	330	408	402	167	438	269
11	298	177	1.3	.30	3.8	38	361	384	378	132	381	288
12	253	159	1.3	.30	3.8	43	301	421	339	64	369	322
13	217	135	1.3	.30	3.8	43	255	502	308	47	333	350
14	281	53	1.3	.30	3.8	13	309	530	284	47	306	334
15	277	.15	1.1	.40	3.8	19	373	498	306	47	334	309
16	249	.15	.70	.40	3.8	56	364	416	330	47	342	290
17	246	.15	.70	.55	3.8	77	369	374	328	116	282	239
18	272	.15	.70	.55	3.8	81	387	374	345	195	241	218
19	286	.20	.70	.70	3.8	59	362	324	364	191	196	266
20	240	.20	.90	.70	3.8	46	302	241	391	205	188	234
21	227	.30	.90	.90	3.8	71	274	154	467	227	203	194
22	272	.40	.70	.90	3.8	105	363	116	477	221	218	215
23	301	.70	.70	1.1	3.8	119	416	114	456	168	203	232
24	258	1.3	.70	1.1	3.8	123	415	114	499	170	179	180
25	235	1.5	.70	1.1	3.8	180	412	88	588	240	154	135
26	175	1.5	.90	1.1	3.8	214	375	68	647	241	175	84
27	135	1.5	.90	1.1	3.8	180	324	68	606	240	246	12
28	115	1.5	.70	1.1	3.8	187	363	117	516	224	282	38
29	93	1.5	.90	.90	---	228	332	88	548	162	273	115
30	111	1.5	.90	.90	---	238	287	120	575	188	282	213
31	172	---	.90	1.1	---	243	---	160	---	241	291	---
TOTAL	7428	2006.70	37.80	18.40	90.5	2403.0	9900	8882	11742	6411	8827	7115
MEAN	240	66.9	1.22	.59	3.23	77.5	330	287	391	207	285	237
MAX	346	187	2.1	1.1	3.8	243	416	530	647	542	438	350
MIN	93	.15	.70	.15	1.1	3.8	217	68	223	47	154	12
AC-FT	14730	3980	75	36	180	4770	19640	17620	23290	12720	17510	14110
CAL YR 1980	TOTAL	103826.20	MEAN	284	MAX	1360	MIN	.15	AC-FT	205900		
WTR YR 1981	TOTAL	64861.40	MEAN	178	MAX	647	MIN	.15	AC-FT	128700		

HUMBOLDT RIVER BASIN

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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 current year, monthly.

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.

BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to current year, monthly.

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.

SEDIMENT DATA: January 1974, and October 1974 to current year, monthly.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

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, 107 mg/L Nov. 28, 1978; minimum, 14 mg/L Dec. 13, 1974, Apr. 29, 1980, and Feb. 18, 1981.

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

SPECIFIC CONDUCTANCES: Maximum, 1,130 micromhos Sept. 24; minimum, 835 micromhos Dec. 4, 15.

WATER TEMPERATURES: Maximum, 22.0°C Aug. 10-23; minimum, 3.0°C on several days in Dec. Jan., and Feb.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 28...	1245	103	846	8.8	11.5	8.4	9.5	99	K5	<3
NOV 25...	1030	1.5	852	8.7	7.0	.90	10.3	107	K2	K13
DEC 30...	1250	.93	839	8.6	8.0	8.6	10.4	100	--	--
JAN 30...	1145	E1.0	874	8.7	6.0	6.8	11.6	107	--	K31
FEB 18...	1350	3.8	877	8.7	10.0	10	12.3	124	K6	K16
MAR 26...	1030	214	885	8.8	6.0	15	11.0	103	K4	K24
APR 20...	1500	255	894	8.8	10.0	12	9.8	100	K3	K6
MAY 19...	1500	292	907	8.8	13.5	17	9.1	102	--	--
JUN 23...	1420	459	952	8.6	18.0	18	8.1	100	<4	K12
JUL 22...	1430	224	1054	8.7	20.0	20	8.0	103	K2	K23
AUG 20...	1310	188	1100	8.6	20.0	15	7.4	99	<2	K16
SEP 24...	1345	146	1130	8.8	19.0	16	8.1	100	<3	200

K: NON-IDEAL COLONY COUNT.

E: ESTIMATED.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 28...	180	47	15	120	3.9	15	310	19	290	73
NOV 25...	160	39	15	120	4.1	13	290	17	270	80
DEC 30...	170	43	16	130	4.3	13	310	16	280	69
JAN 30...	160	41	15	120	4.1	12	340	19	290	76
FEB 18...	180	44	16	120	3.9	13	330	20	290	78
MAR 26...	170	43	16	120	4.0	15	290	22	250	77
APR 20...	170	43	16	120	4.0	16	290	16	250	85
MAY 19...	180	44	17	130	4.2	16	290	19	250	74
JUN 23...	180	44	18	130	4.2	16	300	12	260	100
JUL 22...	180	41	18	160	5.7	15	300	12	270	98
AUG 20...	160	33	18	170	6.6	19	290	12	250	80
SEP 24...	160	34	19	170	6.4	20	280	19	240	76

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, 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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 28...	71	.8	35	521	539	145	.00	.010	.01	.090
NOV 25...	76	.7	36	542	536	2.2	.00	.000	.01	.100
DEC 30...	72	.7	38	535	550	1.3	.00	.000	.00	.000
JAN 30...	74	.4	37	545	562	--	.04	.000	.07	.060
FEB 18...	78	.7	35	538	568	5.6	.00	.000	--	.030
MAR 26...	72	.7	34	550	534	318	.00	.000	.00	--
APR 20...	77	.8	34	562	554	387	.03	.010	.02	--
MAY 19...	81	.8	35	562	566	443	.02	.000	.03	.070
JUN 23...	96	.7	36	587	591	727	.02	.010	.03	.110
JUL 22...	130	.8	38	630	661	381	.08	.030	.12	.180
AUG 20...	140	.8	39	662	656	336	--	<.010	.02	--
SEP 24...	160	1.0	41	688	678	271	.09	.030	.12	.120

HUMBOLDT RIVER BASIN

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10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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)	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 28...	.060	.91	1.0	1.0	1.1	.100	.050	--	6.9	.5
NOV 25...	.070	.53	.49	.63	.57	.080	.080	10	--	--
DEC 30...	.030	.79	.67	.79	.70	.080	.050	7.4	--	--
JAN 30...	.080	--	.75	--	.90	.060	.050	--	--	--
FEB 18...	.060	.97	.24	1.0	--	.030	.030	6.2	--	--
MAR 26...	.090	--	.69	.92	.78	.080	.050	9.6	--	--
APR 20...	.150	--	.70	1.4	.87	.050	.040	--	25	.4
MAY 19...	.090	.92	.62	1.0	.74	.090	.050	22	--	--
JUN 23...	.100	1.2	.63	1.3	.76	.070	.050	--	6.5	.3
JUL 22...	.200	.56	.51	.85	.83	.050	.030	--	5.6	.1
AUG 20...	.100	--	.81	1.0	.93	.060	.030	6.5	--	--
SEP 24...	.120	.98	.87	1.2	1.1	.060	.020	7.4	--	--

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)	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)
OCT 28...	1245	30	21	100	40	1	<1	--	10	0
JAN 30...	1145	34	32	--	50	0	<1	10	0	2
APR 20...	1500	41	30	100	40	0	<1	10	0	0
JUL 22...	1430	32	34	100	40	0	<1	10	10	1

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 28...	<3	11	8	590	10	--	1	10	2	.3
JAN 30...	<3	6	3	350	40	3	1	30	10	.7
APR 20...	<3	10	6	480	60	4	6	20	3	.1
JUL 22...	<3	9	2	730	<10	2	0	20	2	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28...	.0	8	0	1	1	0	0	20	<3
JAN 30...	.0	6	1	1	0	1	0	10	5
APR 20...	.1	5	1	1	0	0	0	40	10
JUL 22...	.2	4	1	0	0	0	0	50	14

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
NOV 25...	1030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)
NOV 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 28...	1245	46	13
NOV 25...	1030	19	.08
DEC 30...	1250	45	.11
JAN 30...	1145	30	--
FEB 18...	1350	14	.14
MAR 26...	1030	40	23
APR 20...	1500	37	25
MAY 19...	1500	93	73
JUN 23...	1420	55	68
JUL 22...	1430	60	36
AUG 20...	1310	50	25
SEP 24...	1345	39	15

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 25,80	MAR 26,81	MAY 19,81	JUN 23,81
TIME	1030	1030	1500	1420
TOTAL CELLS/ML	1400	140	280	920
DIVERSITY: DIVISION	0.4	1.0	1.5	0.6
..CLASS	0.4	1.0	1.5	0.6
..ORDER	0.9	1.0	2.2	0.6
...FAMILY	1.0	1.6	2.4	0.7
....GENUS	1.1	1.9	2.4	0.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....COCONEIS	14	1	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIA								
...NITZSCHIA	96	7	--	-	13	5	--	-
...EUPODISCALES								
...EUPODISCALES								
....CYCLOTELLA	14	1	--	-	13	5	--	-
....MELOSIRA	1200#	83	78#	55	--	-	--	-
..FRAGILARIALES								
...FRAGILARIALES								
....ASTERIONELLA	--	-	--	-	--	-	--	-
..NAVICULALES								
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	26	9	--	-
...NAVICULACEAE								
....NAVICULA	14	1	--	-	13	5	--	-
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	27	2	13	9	--	-	13	1
...DICTYOSPHAERIALES								
...DICTYOSPHAERIALES	--	-	13	9	26	9	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	130	14
...OOCYSTACEAE								
....ANKISTRODESMUS	27	2	26#	18	13	5	--	-
....OOCYSTIS	27	2	13	9	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	52#	18	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	27	2	13	9	--	-	13	1
...DICTYOSPHAERIALES								
...DICTYOSPHAERIALES	--	-	13	9	26	9	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	130	14
...OOCYSTACEAE								
....ANKISTRODESMUS	27	2	26#	18	13	5	--	-
....OOCYSTIS	27	2	13	9	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	52#	18	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	130#	45	770#	85
...OSCILLATORIALES								
...OSCILLATORIALES								
....LYNGBYA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	14	1	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...DINOKONTAE								
...CERATIALES								
....CERATIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 22,81	AUG 20,81	SEP 24,81
TIME	1430	1310	1345
TOTAL CELLS/ML	3100	420	400
DIVERSITY: DIVISION	1.0	1.1	0.2
.CLASS	1.0	1.1	0.2
.ORDER	1.2	1.6	0.7
.FAMILY	1.3	1.6	0.7
.GENUS	1.3	1.6	0.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
BACILLARIOPHYCEAE						
ACHNANTHALES						
ACHNANTHACEAE						
COCCONEIS	29	1	--	-	--	-
BACILLARIALES						
NITZSCHIA						
NITZSCHIA	*	0	42	10	--	-
EUPODISCALES						
COSCINODISCAEAE						
CYCLOTELLA	43	1	--	-	--	-
MELOSIRA	420	14	97#	23	--	-
FRAGILARIALES						
FRAGILARIAEAE						
ASTERIONELLA	--	-	--	-	14	3
NAVICULALES						
GOMPHONEMACEAE						
GOMPHONEMA	--	-	--	-	--	-
NAVICULACEAE						
NAVICULA	*	0	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)						
CHLOROPHYCEAE						
CHLOROCOCCALES						
CHLOROCOCCACEAE						
SCHROEDERIA	*	0	--	-	41	10
DICTYOSPHAERIACEAE						
DICTYOSPHAERIUM	--	-	--	-	--	-
MICRACTINIAEAE						
MICRACTINIUM	--	-	--	-	--	-
OOCYSTACEAE						
ANKISTRODESMUS	--	-	--	-	--	-
OOCYSTIS	72	2	14	3	--	-
VOLVOCALES						
CHLAMYDOMONADACEAE						
CHLAMYDOMONAS	86	3	--	-	--	-
PHACOTACEAE						
PHACOTUS	--	-	250#	60	340#	86
ZYGNEMATALES						
DESMIDIACEAE						
CLOSTERIUM	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
CYANOPHYCEAE						
CHROOCOCCALES						
CHROOCOCCACEAE						
ANACYSTIS	*	0	--	-	--	-
OSCILLATORIALES						
OSCILLATORIACEAE						
LYNGBYA	2300#	76	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
EUGLENOPHYCEAE						
EUGLENALES						
EUGLENACEAE						
TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
DINOPHYCEAE						
DINOKONTAE						
CERATIACEAE						
CERATIUM	*	0	14	3	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	11.5	7.0	4.5	4.0	7.0	7.0	13.0	16.0	20.0	21.0	21.0
2	17.5	11.5	7.0	4.5	4.0	6.0	7.0	12.5	15.0	20.0	21.0	20.0
3	17.0	11.5	8.5	6.0	3.0	5.0	7.0	14.0	16.0	20.0	21.0	20.0
4	17.0	11.5	8.0	5.0	4.5	5.0	7.5	14.0	16.0	20.5	21.0	20.0
5	17.0	11.5	---	5.0	4.0	5.0	7.5	14.0	16.0	20.5	21.0	20.0
6	17.0	11.5	7.0	3.0	4.0	6.0	7.0	13.5	16.0	20.5	21.0	20.0
7	17.0	11.5	3.0	4.0	4.0	5.5	7.5	14.0	16.0	20.0	21.5	20.0
8	17.0	11.0	5.5	4.0	4.0	5.5	8.0	14.0	16.0	20.5	21.5	20.0
9	17.0	11.0	5.5	4.0	5.0	5.0	8.0	14.0	17.0	20.5	21.5	20.0
10	---	10.5	4.5	4.0	5.0	6.0	8.0	14.0	17.0	20.5	22.0	20.0
11	17.0	10.0	4.5	4.0	6.0	6.0	8.5	15.0	17.0	20.5	22.0	20.0
12	16.5	10.0	4.5	4.0	6.0	6.0	8.5	15.5	17.0	20.5	22.0	20.0
13	16.5	10.0	4.5	3.0	6.0	6.0	8.5	15.0	17.5	20.5	22.0	20.0
14	16.5	10.0	4.5	3.0	7.0	6.0	9.0	15.0	17.0	21.0	22.0	20.0
15	16.0	7.0	4.5	3.0	7.0	6.5	9.5	15.0	17.0	21.0	22.0	20.0
16	15.5	---	---	4.0	7.0	6.5	9.5	14.0	17.0	21.0	22.0	20.0
17	15.0	9.5	5.0	5.0	7.0	6.0	9.5	14.5	17.0	20.0	22.0	20.0
18	14.5	---	5.0	5.0	7.0	6.0	10.0	14.0	18.0	20.5	22.0	20.0
19	14.5	7.0	5.0	5.0	7.0	6.5	10.0	14.0	18.0	20.5	22.0	---
20	14.5	6.5	5.0	5.0	6.0	6.5	10.0	14.0	18.0	20.5	22.0	---
21	14.0	8.0	5.0	5.5	6.0	6.0	10.0	14.0	18.0	20.0	22.0	19.5
22	14.0	9.0	6.0	6.0	6.0	7.0	11.0	14.0	18.0	20.0	22.0	19.5
23	14.0	9.0	5.5	5.5	6.0	7.0	11.0	14.0	18.0	20.0	22.0	19.0
24	14.0	7.0	5.5	6.0	6.0	7.0	11.0	14.0	18.0	20.5	21.5	19.0
25	13.0	6.0	7.5	4.0	6.0	7.0	10.5	14.0	19.0	20.0	21.5	18.0
26	13.0	6.5	7.0	5.0	6.0	7.0	11.0	14.0	20.0	20.0	21.0	18.0
27	12.0	6.0	7.0	6.0	5.0	7.0	11.0	15.0	20.0	20.0	21.0	---
28	12.0	6.0	7.0	6.0	6.0	7.0	12.0	15.0	20.0	21.0	21.0	---
29	12.0	8.0	6.0	6.0	---	7.0	12.0	15.0	20.0	21.0	21.0	17.0
30	12.0	8.0	5.0	4.5	---	7.0	13.0	15.0	20.0	21.0	21.0	17.0
31	12.0	---	5.0	5.0	---	7.0	---	16.0	---	21.0	21.0	---
MEAN	15.0	9.0	5.5	4.5	5.5	6.5	9.5	14.5	17.5	20.5	21.5	19.5
MAX	17.5	11.5	8.5	6.0	7.0	7.0	13.0	16.0	20.0	21.0	22.0	21.0
MIN	12.0	6.0	3.0	3.0	3.0	5.0	7.0	12.5	15.0	20.0	21.0	17.0
WTR YR 1981	MEAN	12.5	MAX	22.0	MIN	3.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	855	875	856	856	866	852	864	878	882	978	1040	1020
2	855	862	842	856	852	852	864	878	866	978	1040	1040
3	855	868	842	863	852	852	864	878	874	978	1040	1040
4	855	862	835	870	860	852	864	878	899	978	1040	1040
5	855	868	---	870	852	852	864	878	899	978	1040	1040
6	855	868	849	870	852	852	864	878	899	978	1040	1040
7	855	868	849	863	852	860	864	878	899	978	1040	1040
8	855	868	849	863	860	860	864	878	899	978	1040	1050
9	855	868	842	863	860	860	864	878	899	999	1030	1050
10	855	875	856	863	860	860	864	886	899	999	1030	1050
11	855	875	856	870	860	852	864	886	899	999	1060	1050
12	855	875	856	870	852	852	864	886	899	999	1060	1050
13	855	875	863	863	852	860	864	886	916	999	1060	1050
14	855	875	856	863	852	860	864	886	916	999	1060	1050
15	855	875	835	870	860	860	864	886	916	999	1060	1050
16	855	---	---	863	860	860	864	886	916	999	1060	1050
17	855	875	842	863	860	867	864	886	916	998	1060	1060
18	855	---	842	863	852	867	864	886	899	1020	1060	1060
19	855	875	842	870	852	860	864	886	899	1020	1060	1060
20	855	888	842	863	866	860	864	886	916	1020	1060	1060
21	855	875	856	863	866	860	864	886	916	1020	1060	1060
22	855	875	842	870	866	860	871	886	916	1020	1060	1050
23	855	875	842	863	860	860	871	886	916	1020	1060	1050
24	855	868	856	856	860	860	864	886	925	1020	1060	1060
25	855	868	849	856	866	860	871	886	934	1020	1060	1060
26	862	868	856	870	860	860	871	886	953	1020	1060	1060
27	862	868	856	856	852	860	871	886	953	1020	1060	---
28	855	868	856	856	852	860	871	886	953	1020	1060	---
29	855	875	856	856	---	860	871	886	953	1020	1060	1060
30	855	875	856	856	---	860	864	886	953	1020	1060	1060
31	855	---	849	863	---	867	---	886	---	1020	1060	---
MEAN	855	872	849	863	858	859	866	884	913	1000	1050	1050
MAX	862	888	863	870	866	867	871	886	953	1020	1060	1060
MIN	855	862	835	856	852	852	864	878	866	978	1030	1020
WTR YR 1981	MEAN	910	MAX	1060	MIN	835						

PYRAMID AND WINNEMUCCA LAKES BASIN

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 elevations in some years), June 1926 to current year (occasional elevations in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WDR NV-67-1: 1966.

GAGE.--Nonrecording gage. Datum of gage is 3,940.29 ft (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, elevations were determined from Bench Mark No. 1 of General Land Office using elevation of 3,882.26 ft (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevation of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	3,789.2	20,530,000	--
Oct. 31	3,788.9	20,500,000	-30,000
Nov. 30	3,788.9	20,500,000	0
Dec. 31	3,788.6	20,470,000	-30,000
CAL YR 1980.	--	--	+80,000
Jan. 31	3,788.6	20,470,000	0
Feb. 28	3,788.7	20,480,000	+10,000
Mar. 31	3,788.5	20,460,000	-20,000
Apr. 30	3,788.5	20,460,000	0
May 31	3,788.6	20,470,000	+10,000
June 30	3,788.6	20,470,000	0
July 31	3,788.1	20,420,000	-50,000
Aug. 31	3,787.5	20,360,000	-60,000
Sep. 30	3,787.0	20,300,000	-60,000
WTR YR 1980-81	--	--	-230,000

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

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336600 UPPER TRUCKEE RIVER NEAR MEYERS, CA

LOCATION.--Lat 38°50'35", long 120°01'25", in NE1SE1/4 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 except those for winter months, which are fair. No regulation. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--21 years, 61.7 ft³/s (1.747 m³/s), 44,700 acre-ft/yr (55.1 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	Discharge Time	(ft ³ /s)	Gage height (m ³ /s)	(ft)	(m)
Apr. 23	2100	268	7.59	6.43	1.960
Apr. 30	2030	*338	9.57	6.84	2.085

Minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.2	8.1	9.7	10	20	28	258	131	13	4.1	2.7
2	7.6	7.3	9.0	9.9	10	19	26	236	127	12	4.4	2.3
3	7.2	7.3	11	10	10	19	25	172	110	12	3.7	2.6
4	7.1	7.4	14	11	10	19	25	149	109	11	4.2	2.7
5	7.1	7.7	11	10	10	19	30	131	113	10	3.9	2.2
6	7.0	8.3	9.9	9.9	10	18	41	115	107	10	3.5	2.3
7	7.0	13	9.2	9.7	10	18	46	108	95	9.6	3.4	2.2
8	7.0	11	8.8	9.4	10	18	46	114	90	9.4	3.1	2.2
9	6.8	9.4	7.9	9.7	10	19	50	138	86	9.3	3.3	2.4
10	7.1	11	7.3	9.2	10	20	58	158	70	8.9	3.1	2.2
11	8.7	10	7.3	9.2	10	22	54	160	61	8.4	3.0	2.2
12	7.9	9.7	8.1	9.0	11	22	51	155	52	7.9	3.0	2.3
13	8.3	9.4	8.1	8.8	14	22	55	162	44	7.6	3.1	2.8
14	7.8	9.2	8.1	8.8	35	21	65	170	39	7.3	3.0	2.6
15	7.5	9.1	8.1	8.8	32	21	86	136	35	7.0	3.3	2.4
16	7.5	9.1	8.3	9.2	27	21	99	109	34	6.6	3.4	2.2
17	7.4	9.4	8.6	9.0	42	20	98	97	32	6.3	3.0	2.3
18	7.2	9.7	9.0	9.0	32	20	97	123	30	6.1	2.9	2.4
19	7.2	9.0	8.8	9.2	34	23	87	126	28	5.9	2.9	2.3
20	7.4	8.8	8.8	9.0	35	22	72	100	26	5.6	2.7	2.1
21	7.5	8.8	10	9.0	28	22	82	86	24	5.3	2.5	2.3
22	7.3	8.8	13	9.9	25	22	130	92	23	5.1	2.5	2.2
23	7.2	9.2	11	11	26	22	166	98	21	4.9	2.5	2.2
24	7.8	8.8	10	10	22	22	184	122	20	4.7	2.5	2.3
25	8.5	8.1	11	9.4	22	33	166	188	18	4.4	2.5	4.1
26	8.0	8.1	11	9.9	22	33	149	163	17	4.4	2.5	2.9
27	7.8	8.1	12	13	23	28	107	162	16	4.4	2.5	2.5
28	7.8	8.3	11	7.2	20	27	123	154	15	4.3	2.5	2.3
29	7.8	8.3	11	7.5	---	32	176	147	14	4.3	2.4	2.3
30	7.8	8.6	10	9.2	---	29	236	149	14	4.2	2.3	2.3
31	7.6	---	9.5	9.9	---	27	---	138	---	4.2	2.4	---
TOTAL	233.5	268.1	298.9	294.5	560	700	2658	4416	1601	224.1	94.1	72.8
MEAN	7.53	8.94	9.64	9.50	20.0	22.6	88.6	142	53.4	7.23	3.04	2.43
MAX	8.7	13	14	13	42	33	236	258	131	13	4.4	4.1
MIN	6.8	7.2	7.3	7.2	10	18	25	86	14	4.2	2.3	2.1
AC-FT	463	532	593	584	1110	1390	5270	8760	3180	445	187	144

CAL YR 1980	TOTAL	31507.2	MEAN	86.1	MAX	850	MIN	6.8	AC-FT	62490
WTR YR 1981	TOTAL	11421.0	MEAN	31.3	MAX	258	MIN	2.1	AC-FT	22650

PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.--Lat 38°55'22", long 119°59'23", in NW¼SE¼ 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 July 19 to Sept. 30, which are fair. Two small dams may cause slight regulation at times. Some small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) Nov. 12, 1973, gage height, 5.94 ft (1.811 m); minimum daily, 1.9 ft³/s (0.05 m³/s) Oct. 11, 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 352 ft³/s (9.97 m³/s) May 1 (0130 hrs), gage height, 3.31 ft (1.009 m), no other peak above base of 300 ft³/s (8.50 m³/s); minimum daily, 1.7 ft³/s (0.048 m³/s) on many days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	12	19	27	41	60	304	168	23	2.5	1.7
2	10	12	11	18	27	40	60	258	166	23	2.5	1.7
3	9.8	12	15	20	27	39	54	206	149	21	2.4	1.7
4	10	12	24	21	27	39	50	187	138	20	2.4	1.7
5	9.7	12	22	21	27	37	51	176	144	18	2.3	1.7
6	9.0	13	20	20	26	36	63	160	135	17	2.3	1.7
7	9.3	12	19	19	26	35	73	148	111	15	2.2	1.7
8	13	16	18	18	26	34	74	146	105	14	2.2	1.7
9	8.9	13	17	18	26	36	78	161	103	13	2.1	1.7
10	9.5	12	16	17	25	39	91	185	91	12	2.1	1.7
11	8.3	17	15	17	25	40	88	183	82	11	2.1	1.7
12	15	16	17	17	25	39	83	160	74	9.3	2.0	1.7
13	16	14	17	16	35	40	84	164	62	8.0	2.0	1.7
14	15	14	17	16	123	40	94	176	55	8.4	2.0	1.7
15	15	13	17	16	95	41	118	148	52	8.0	1.9	1.7
16	16	13	17	16	75	41	141	115	49	7.2	1.9	1.7
17	16	13	17	16	93	39	146	100	41	6.4	1.9	1.7
18	15	13	16	16	81	39	146	117	38	5.2	1.9	1.7
19	15	13	17	16	85	51	157	157	38	5.2	1.9	1.7
20	15	12	16	16	89	52	134	126	37	4.8	1.9	1.7
21	14	12	18	16	69	58	125	105	34	4.4	1.9	1.7
22	14	12	27	17	58	58	172	101	33	4.1	1.9	1.7
23	14	12	23	20	57	52	215	102	31	3.8	1.8	1.8
24	14	13	22	19	52	48	247	126	30	3.6	1.8	2.0
25	13	12	21	19	67	92	256	193	28	3.4	1.8	20
26	15	12	22	24	57	96	250	202	28	3.2	1.8	11
27	15	12	22	47	51	71	190	188	26	3.1	1.8	8.0
28	14	12	23	30	45	64	175	200	26	3.0	1.8	7.0
29	13	12	22	29	---	70	230	192	26	2.8	1.8	6.2
30	13	12	21	28	---	65	270	190	24	2.7	1.8	5.8
31	13	---	19	27	---	57	---	185	---	2.6	1.8	---
TOTAL	398.5	385	580	629	1446	1529	3975	5161	2124	286.2	62.5	99.2
MEAN	12.9	12.8	18.7	20.3	51.6	49.3	133	166	70.8	9.23	2.02	3.31
MAX	16	17	27	47	123	96	270	304	168	23	2.5	20
MIN	8.3	12	11	16	25	34	50	100	24	2.6	1.8	1.7
AC-FT	790	764	1150	1250	2870	3030	7880	10240	4210	568	124	197

WTR YR 1981 TOTAL 16675.4 MEAN 45.7 MAX 304 MIN 1.7 AC-FT 33080

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 to September 1981.

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 to September 1981.

WATER TEMPERATURES: March to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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, 339 tons (308 metric tons) Dec. 29, 1973; minimum daily, 0 ton (0 metric ton) on several days during October 1973 and January 1981.

EXTREMES FOR CURRENT YEAR.--

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

WATER TEMPERATURES: Maximum recorded, 25.5°C July 27; minimum recorded, 0.0°C Dec. 9, Mar. 20, 26, 30.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 115 mg/L Apr. 24; minimum daily mean, 0 mg/L on several days during January.

SEDIMENT DISCHARGE: Maximum daily, 84 tons (76 metric tons) Apr. 25; minimum daily, 0 ton (0 metric ton) on several days during January.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR MARCH TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	46	11	18	62	---	107
2						---	46	15	17	65	---	107
3						---	50	19	17	67	---	107
4						---	49	19	18	68	---	107
5						---	51	19	20	69	---	107
6						---	48	20	21	70	---	108
7						---	42	20	22	70	---	108
8						---	40	20	22	69	---	107
9						---	39	19	23	71	---	107
10						52	37	18	24	73	---	107
11						52	35	18	26	75	---	106
12						50	35	20	27	75	---	106
13						53	36	20	30	75	---	106
14						48	35	19	32	77	---	106
15						49	30	21	34	78	---	105
16						48	27	24	37	79	---	106
17						49	26	26	43	80	---	105
18						49	26	25	46	81	---	105
19						49	28	23	47	82	---	104
20						49	30	23	49	84	---	106
21						49	30	24	50	85	---	106
22						47	26	24	51	85	---	106
23						49	22	24	53	86	---	106
24						50	16	22	54	86	---	110
25						47	14	17	56	91	---	103
26						42	18	17	57	91	---	101
27						45	20	18	58	92	108	102
28						46	21	18	59	92	107	103
29						46	18	18	60	93	107	104
30						45	11	18	62	93	107	106
31						46	---	17	---	95	107	---
MONTH						---	32	20	38	79	---	106

PYRAMID AND WINNEMUCCA LAKES BASIN

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR MARCH TO SEPTEMBER 1981

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--
2	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	8.0	--	--	--	--	--	--	--	--	0.5	--	--	4.0	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	0.0	--	--	0.5	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	2.0
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	1.5
12	--	--	--	--	--	--	--	0.5	--	--	--	--	--	--	--	7.5	--	1.5
13	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	4.0	--	1.5
14	--	--	--	--	--	--	--	--	--	--	--	--	--	3.5	--	8.0	--	0.5
15	--	--	--	--	--	--	--	1.0	--	--	3.5	--	--	--	--	6.5	--	1.5
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	1.0
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	1.0
18	--	--	--	--	4.0	--	--	--	--	--	--	--	--	6.5	--	4.0	--	1.5
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	--	1.0
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	--	0.0
21	--	--	--	--	--	--	--	--	--	--	5.0	--	--	--	--	6.0	--	0.5
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	2.0
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	1.5
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	1.5
25	--	--	--	--	1.0	--	--	--	--	--	--	--	--	0.5	--	5.0	--	1.0
26	--	--	--	--	--	--	--	3.5	--	--	--	--	--	--	--	4.0	--	0.0
27	--	--	--	--	--	--	--	--	--	--	1.5	--	--	--	--	6.0	--	1.0
28	--	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	0.5
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	1.0
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	0.0
31	--	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--	8.0	--	1.0
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	5.5	--	1.5	10.0	--	4.5	14.0	--	9.0	20.5	--	14.5	--	--	--	19.0	--	14.5
2	9.0	--	1.0	10.0	--	4.5	15.5	--	9.5	22.0	--	16.5	--	--	--	18.5	--	14.5
3	9.5	--	1.5	9.5	--	2.5	16.0	--	8.5	23.0	--	16.5	--	--	--	19.5	--	14.0
4	11.0	--	2.0	9.5	--	3.0	17.5	--	10.0	23.0	--	18.0	--	--	--	18.0	--	14.0
5	11.5	--	3.0	10.0	--	3.5	18.0	--	11.0	22.5	--	18.5	--	--	--	20.0	--	13.5
6	11.5	--	3.5	10.0	--	3.0	18.0	--	11.0	21.5	--	18.0	--	--	--	21.5	--	12.5
7	10.0	--	3.0	10.5	--	3.0	17.5	--	10.5	20.5	--	14.0	--	--	--	21.5	--	12.5
8	10.0	--	2.5	11.5	--	4.0	17.0	--	11.0	21.0	--	15.5	--	20.5	--	18.0	--	13.5
9	11.0	--	3.5	11.5	--	5.0	18.0	--	10.0	21.0	--	15.5	--	--	--	21.0	--	13.5
10	9.5	--	3.0	11.5	--	5.0	17.0	--	10.0	20.5	--	15.5	--	--	--	21.5	--	14.5
11	9.5	--	2.0	11.5	--	4.5	17.5	--	9.5	20.5	--	15.0	--	--	--	20.5	--	14.0
12	9.5	--	1.5	12.5	--	5.0	16.0	--	8.5	21.0	--	15.0	--	--	--	19.0	--	15.5
13	10.5	--	2.5	12.5	--	5.5	15.5	--	7.0	21.5	--	13.0	--	--	--	18.5	--	15.0
14	11.0	--	3.0	10.5	--	6.0	15.0	--	7.0	23.0	--	15.0	--	--	--	20.5	--	14.5
15	9.0	--	3.0	7.5	--	4.5	17.0	--	7.5	24.0	--	16.0	--	--	--	14.5	--	15.0
16	9.0	--	2.5	11.0	--	3.0	18.0	--	9.5	24.5	--	16.5	--	--	--	17.5	--	14.5
17	8.5	--	3.0	10.5	--	4.0	19.5	--	11.0	24.5	--	16.0	--	19.5	--	16.0	--	14.0
18	6.5	--	3.5	8.5	--	6.0	20.0	--	12.5	24.5	--	15.0	--	--	--	17.5	--	12.0
19	7.0	--	2.5	9.5	--	4.0	21.0	--	13.5	24.5	--	14.5	--	--	--	18.0	--	13.5
20	9.5	--	2.0	9.5	--	4.0	21.5	--	14.5	24.0	--	15.0	--	--	--	16.5	--	13.0
21	9.5	--	3.0	12.0	--	5.0	22.0	--	14.5	24.5	--	14.5	--	--	--	16.5	--	12.5
22	11.0	--	3.5	14.0	--	6.0	21.5	--	15.5	24.5	--	14.5	--	--	--	15.5	--	11.0
23	11.0	--	3.0	13.0	--	7.0	21.0	--	14.5	25.0	--	14.5	--	--	--	14.0	--	10.5
24	9.5	--	3.0	11.5	--	8.0	21.0	--	14.5	25.0	--	15.0	--	--	--	12.5	--	9.5
25	7.5	--	3.0	9.5	--	7.5	22.0	--	17.5	25.0	--	14.5	--	--	--	14.5	--	9.5
26	5.5	--	2.5	9.5	--	6.5	22.0	--	16.5	25.0	--	15.0	--	16.5	--	15.5	--	12.0
27	9.5	--	1.5	12.5	--	6.5	22.0	--	16.5	25.5	--	16.0	--	20.5	--	15.0	--	11.5
28	11.0	--	3.0	14.0	--	6.5	22.0	--	16.5	25.0	--	15.5	--	23.5	--	16.0	--	14.0
29	11.5	--	3.5	15.0	--	8.5	22.0	--	17.0	23.5	--	14.5	--	20.5	--	15.5	--	11.5
30	10.5	--	4.0	15.0	--	8.5	21.0	--	17.0	23.5	--	13.5	--	19.0	--	12.5	--	9.5
31	--	--	--	15.0	--	8.0	--	--	--	23.5	--	14.0	--	19.0	--	14.5	--	--
MONTH	9.5	--	2.7	11.2	--	5.2	18.9	--	12.0	23.1	--	15.3	--	--	--	17.5	--	12.9

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	11	3	.09	12	4	.13	12	6	.19
2	10	3	.08	12	3	.10	11	6	.18
3	9.8	3	.08	12	3	.10	15	8	.32
4	10	3	.08	12	3	.10	24	10	.65
5	9.7	3	.08	12	2	.06	22	9	.53
6	9.0	3	.07	13	4	.14	20	9	.49
7	9.3	3	.08	12	2	.06	19	9	.46
8	13	6	.21	16	4	.17	18	9	.44
9	8.9	3	.07	13	2	.07	17	9	.41
10	9.5	3	.08	12	2	.06	16	10	.43
11	8.3	3	.07	17	5	.23	15	11	.45
12	15	5	.20	16	2	.09	17	14	.64
13	16	4	.17	14	2	.08	17	12	.55
14	15	4	.16	14	2	.08	17	11	.50
15	15	4	.16	13	2	.07	17	10	.46
16	16	4	.17	13	2	.07	17	9	.41
17	16	4	.17	13	2	.07	17	5	.23
18	15	4	.16	13	2	.07	16	4	.17
19	15	4	.16	13	2	.07	17	4	.18
20	15	4	.16	12	2	.06	16	4	.17
21	14	4	.15	12	2	.06	18	7	.34
22	14	4	.15	12	2	.06	27	10	.73
23	14	4	.15	12	2	.06	23	9	.56
24	14	4	.15	13	2	.07	22	7	.42
25	13	4	.14	12	5	.16	21	5	.28
26	15	4	.16	12	6	.19	22	4	.24
27	15	4	.16	12	6	.19	22	3	.18
28	14	4	.15	12	4	.13	23	3	.19
29	13	4	.14	12	4	.13	22	4	.24
30	13	4	.14	12	4	.13	21	4	.23
31	13	4	.14	---	---	---	19	4	.21
TOTAL	398.5	---	4.13	385	---	3.06	580	---	11.48

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	19	3	.15	27	6	.44	41	3	.33
2	18	2	.10	27	6	.44	40	2	.22
3	20	3	.16	27	6	.44	39	2	.21
4	21	5	.28	27	5	.36	39	2	.21
5	21	5	.28	27	5	.36	37	2	.20
6	20	5	.27	26	5	.35	36	2	.19
7	19	5	.26	26	5	.35	35	2	.19
8	18	5	.24	26	5	.35	34	2	.18
9	18	5	.24	26	5	.35	36	2	.19
10	17	5	.23	25	5	.34	39	2	.21
11	17	5	.23	25	5	.34	40	2	.22
12	17	5	.23	25	5	.34	39	2	.21
13	16	4	.17	35	24	3.4	40	2	.22
14	16	2	.09	123	95	32	40	2	.22
15	16	1	.04	95	22	6.1	41	2	.22
16	16	0	0	75	12	2.4	41	2	.22
17	16	0	0	93	18	4.5	39	2	.21
18	16	0	0	81	10	2.2	39	2	.21
19	16	0	0	85	12	2.8	51	14	1.9
20	16	0	0	89	9	2.2	52	10	1.4
21	16	0	0	69	7	1.3	58	42	7.9
22	17	0	0	58	6	.94	58	28	4.4
23	20	5	.27	57	6	.92	52	12	1.7
24	19	5	.26	52	6	.84	48	5	.65
25	19	5	.26	67	21	4.4	92	58	22
26	24	28	1.8	57	14	2.4	96	60	16
27	47	33	5.4	51	16	2.2	71	42	8.1
28	30	10	.81	45	10	1.2	64	25	4.3
29	29	8	.63	---	---	---	70	12	2.3
30	28	6	.45	---	---	---	65	12	2.1
31	27	6	.44	---	---	---	57	9	1.4
TOTAL	629	---	13.29	1446	---	74.26	1529	---	78.01

PYRAMID AND WINNEMUCCA LAKES BASIN

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60	7	1.1	304	100	82	168	12	5.4
2	60	4	.65	258	45	31	166	17	7.6
3	54	3	.44	206	40	22	149	21	8.4
4	50	3	.41	187	19	9.6	138	14	5.2
5	51	4	.55	176	12	5.7	144	10	3.9
6	63	8	1.4	160	8	3.5	135	9	3.3
7	73	10	2.0	148	7	2.8	111	13	3.9
8	74	6	1.2	146	11	4.3	105	10	2.8
9	78	8	1.7	161	22	9.6	103	6	1.7
10	91	16	3.9	185	26	13	91	4	.98
11	88	7	1.7	183	34	17	82	4	.89
12	83	4	.90	160	22	9.5	74	4	.80
13	84	8	1.8	164	24	11	62	4	.67
14	94	18	4.6	176	25	12	55	4	.59
15	118	26	8.3	148	10	4.0	52	4	.56
16	141	34	13	115	6	1.9	49	4	.53
17	146	31	12	100	6	1.6	41	4	.44
18	146	27	11	117	15	5.2	38	4	.41
19	157	21	8.9	157	18	7.6	38	4	.41
20	134	11	4.0	126	6	2.0	37	5	.50
21	125	12	4.1	105	4	1.1	34	5	.46
22	172	60	30	101	5	1.4	33	5	.45
23	215	96	60	102	6	1.7	31	6	.50
24	247	115	81	126	15	5.1	30	6	.49
25	256	113	84	193	35	19	28	7	.53
26	250	70	47	202	25	14	28	8	.60
27	190	24	12	188	20	10	26	8	.56
28	175	28	13	200	24	13	26	8	.56
29	230	43	27	192	16	8.3	26	10	.70
30	270	90	66	190	11	5.6	24	10	.65
31	---	---	---	185	14	7.0	---	---	---
TOTAL	3975	---	503.65	5161	---	341.5	2124	---	54.48
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	23	10	.62	2.5	10	.07	1.7	10	.05
2	23	8	.50	2.5	9	.06	1.7	10	.05
3	21	8	.45	2.4	9	.06	1.7	10	.05
4	20	7	.38	2.4	9	.06	1.7	10	.05
5	18	6	.29	2.3	8	.05	1.7	10	.05
6	17	4	.18	2.3	8	.05	1.7	10	.05
7	15	2	.08	2.2	8	.05	1.7	10	.05
8	14	5	.19	2.2	7	.04	1.7	10	.05
9	13	8	.28	2.1	7	.04	1.7	10	.05
10	12	7	.23	2.1	7	.04	1.7	10	.05
11	11	6	.18	2.1	8	.05	1.7	10	.05
12	9.3	6	.15	2.0	8	.04	1.7	10	.05
13	8.0	6	.13	2.0	8	.04	1.7	10	.05
14	8.4	6	.14	2.0	9	.05	1.7	10	.05
15	8.0	6	.13	1.9	9	.05	1.7	10	.05
16	7.2	6	.12	1.9	10	.05	1.7	10	.05
17	6.4	6	.10	1.9	10	.05	1.7	10	.05
18	5.2	6	.08	1.9	10	.05	1.7	10	.05
19	5.2	6	.08	1.9	10	.05	1.7	10	.05
20	4.8	6	.08	1.9	10	.05	1.7	10	.05
21	4.4	6	.07	1.9	10	.05	1.7	10	.05
22	4.1	6	.07	1.9	10	.05	1.7	10	.05
23	3.8	6	.06	1.8	10	.05	1.8	10	.05
24	3.6	6	.06	1.8	10	.05	2.0	10	.05
25	3.4	6	.06	1.8	10	.05	20	10	.54
26	3.2	6	.05	1.8	10	.05	11	10	.30
27	3.1	6	.05	1.8	10	.05	8.0	10	.22
28	3.0	6	.05	1.8	10	.05	7.0	10	.19
29	2.8	6	.05	1.8	10	.05	6.2	10	.17
30	2.7	8	.06	1.8	10	.05	5.8	10	.16
31	2.6	10	.07	1.8	10	.05	---	---	---
TOTAL	286.2	---	5.04	62.5	---	1.55	99.2	---	2.78
YEAR	16675.4		1093.23						

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
DEC										
12...	1510	17	.5	23	1.1	46	--	--	--	--
JAN										
27...	1420	77	1.5	78	16	90	95	97	100	--
FEB										
14...	1610	143	3.5	119	46	72	--	--	--	--
25...	1625	70	.5	28	5.3	80	--	--	--	--
MAR										
21...	1710	72	6.5	140	27	100	--	--	--	--
25...	1700	154	4.5	164	68	71	--	--	--	--
APR										
09...	2130	83	8.0	10	2.2	66	--	--	--	--
16...	0525	157	3.5	51	22	53	--	--	--	--
19...	0545	163	3.0	20	8.8	51	--	--	--	--
23...	0615	216	3.0	82	48	39	--	--	--	--
23...	2245	293	8.0	231	183	46	--	--	--	--
26...	0335	274	4.0	35	26	48	--	--	--	--
27...	1020	180	3.0	18	8.7	44	58	79	94	100
30...	2110	288	10.0	80	62	33	--	--	--	--
MAY										
01...	0535	343	4.0	131	121	26	--	--	--	--
03...	0010	229	6.5	37	23	32	--	--	--	--
03...	2225	185	7.5	31	15	39	--	--	--	--
10...	0335	204	7.5	40	22	38	--	--	--	--
13...	2115	137	10.5	12	4.4	31	--	--	--	--
14...	0555	198	7.5	35	19	30	--	--	--	--
18...	2130	155	7.0	31	13	34	--	--	--	--
25...	1550	233	9.5	61	38	38	--	--	--	--
JUN										
05...	0010	152	14.0	9	3.7	54	--	--	--	--
06...	0730	150	11.0	8	3.2	61	--	--	--	--
AUG										
08...	1315	2.2	20.5	7	.04	70	--	--	--	--

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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, on left bank near center of lake, 200 ft (61 m) north of Cathedral Creek, 1.5 mi (2.4 km) south of Fallen Leaf Dam, 2.9 mi (4.7 km) southwest of Camp Richardson, and 3.7 mi (6.0 km) west of South Lake Tahoe Post Office.

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

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1934. Regulation is for maintenance of lake level and enhancement of fishery.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.85 ft (1.783 m) Jan. 13, 1980; minimum, 1.79 ft (0.546 m) Jan. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.95 ft (1.204 m) June 26-29; minimum, 2.00 ft (0.610 m) Dec. 2.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.52	2.42	2.02	2.19	2.53	2.52	2.60	3.71	3.73	3.92	3.32	2.60
2	3.52	2.38	2.00	2.19	2.51	2.51	2.58	3.74	3.71	3.91	3.30	2.58
3	3.52	2.36	2.17	2.22	2.47	2.48	2.57	3.69	3.67	3.91	3.27	2.56
4	3.51	2.33	2.23	2.23	2.46	2.46	2.56	3.63	3.64	3.90	3.25	2.53
5	3.51	2.31	2.23	2.23	2.43	2.44	2.56	3.56	3.63	3.88	3.24	2.51
6	3.49	2.28	2.22	2.23	2.42	2.43	2.56	3.48	3.66	3.85	3.22	2.48
7	3.49	2.30	2.19	2.23	2.40	2.42	2.57	3.41	3.68	3.82	3.21	2.47
8	3.47	2.27	2.18	2.23	2.40	2.41	2.58	3.37	3.72	3.81	3.20	2.45
9	3.43	2.24	2.18	2.23	2.40	2.40	2.60	3.34	3.77	3.78	3.18	2.44
10	3.38	2.23	2.18	2.22	2.37	2.39	2.61	3.34	3.81	3.73	3.17	2.43
11	3.33	2.26	2.17	2.22	2.36	2.39	2.61	3.34	3.83	3.69	3.16	2.42
12	3.34	2.26	2.16	2.21	2.36	2.39	2.61	3.33	3.83	3.65	3.15	2.40
13	3.28	2.24	2.16	2.21	2.47	2.41	2.62	3.37	3.85	3.64	3.13	2.39
14	3.25	2.23	2.15	2.20	2.65	2.40	2.64	3.45	3.85	3.64	3.10	2.38
15	3.22	2.20	2.13	2.20	2.67	2.40	2.69	3.48	3.85	3.63	3.08	2.37
16	3.19	2.19	2.13	2.20	2.68	2.39	2.74	3.47	3.86	3.61	3.06	2.36
17	3.15	2.19	2.13	2.19	2.70	2.39	2.78	3.42	3.87	3.60	3.04	2.35
18	3.10	2.17	2.13	2.19	2.69	2.38	2.86	3.58	3.88	3.58	3.03	2.34
19	3.07	2.17	2.14	2.18	2.71	2.44	2.87	3.60	3.90	3.57	2.99	2.30
20	3.02	2.16	2.13	2.17	2.70	2.44	2.87	3.58	3.91	3.55	2.96	2.26
21	2.98	2.12	2.15	2.17	2.68	2.48	2.86	3.53	3.92	3.54	2.93	2.24
22	2.93	2.12	2.16	2.17	2.66	2.48	2.92	3.51	3.93	3.52	2.91	2.22
23	2.89	2.10	2.16	2.20	2.62	2.46	3.05	3.51	3.93	3.50	2.86	2.18
24	2.83	2.09	2.16	2.22	2.67	2.44	3.28	3.53	3.93	3.49	2.81	2.20
25	2.78	2.09	2.17	2.21	2.64	2.60	3.43	3.65	3.94	3.48	2.76	2.20
26	2.74	2.08	2.17	2.22	2.61	2.63	3.48	3.72	3.95	3.46	2.75	2.17
27	2.67	2.07	2.17	2.44	2.58	2.61	3.44	3.73	3.95	3.44	2.74	2.14
28	2.64	2.05	2.17	2.55	2.55	2.60	3.42	3.75	3.95	3.42	2.72	2.11
29	2.61	2.01	2.18	2.57	---	2.61	3.47	3.75	3.95	3.39	2.68	2.10
30	2.54	2.02	2.18	2.57	---	2.60	3.59	3.77	3.94	3.36	2.65	2.08
31	2.47	---	2.19	2.55	---	2.58	---	3.76	---	3.35	2.63	---
MAX	3.52	2.42	2.23	2.57	2.71	2.63	3.59	3.77	3.95	3.92	3.32	2.60
MIN	2.47	2.01	2.00	2.17	2.36	2.38	2.56	3.33	3.63	3.35	2.63	2.00

CAL YR 1980	MAX 5.85	MIN 2.00
WTR YR 1981	MAX 3.95	MIN 2.00

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE1/4 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).--13 years, 42.6 ft³/s (1.206 m³/s), 30,860 acre-ft/yr (38.1 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, 153 ft³/s (4.33 m³/s) May 2, gage height, 4.12 ft (1.256 m); minimum daily, 0.37 ft³/s (0.027 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	24	5.0	7.3	22	25	30	131	92	3.5	3.2	3.7
2	2.9	22	6.3	6.5	21	24	30	148	89	4.6	3.0	3.7
3	2.9	15	6.0	6.9	19	23	28	144	87	4.9	3.2	3.7
4	2.5	13	8.6	7.6	18	21	26	131	84	5.0	3.1	3.7
5	2.2	11	9.0	7.3	17	20	26	119	61	5.2	3.1	3.7
6	2.2	10	8.4	7.3	15	19	26	105	33	5.0	3.1	3.7
7	2.2	9.1	7.6	7.3	14	18	26	91	34	5.2	3.0	3.7
8	13	9.5	7.0	7.1	14	17	28	84	26	4.4	2.8	3.5
9	20	9.1	6.8	7.0	14	17	29	81	13	4.7	2.7	2.2
10	19	8.0	6.6	7.0	13	16	31	85	13	4.8	2.6	2.1
11	19	7.3	6.4	6.8	13	16	31	89	13	4.7	2.5	2.1
12	19	7.0	6.4	6.7	12	16	31	86	10	4.7	2.0	2.0
13	19	6.8	6.1	6.6	17	17	31	64	8.7	4.5	2.4	2.0
14	19	6.7	6.1	6.4	34	17	36	56	9.1	4.3	4.2	1.5
15	21	6.6	5.9	6.4	35	18	36	59	7.5	4.2	4.2	.97
16	24	6.1	5.8	6.5	35	17	42	60	4.2	3.8	4.2	.99
17	24	8.6	5.5	6.6	36	16	47	58	4.9	3.7	3.9	1.3
18	24	8.8	5.5	6.4	37	17	54	63	5.5	3.7	3.9	2.0
19	24	8.2	5.5	6.4	39	18	63	71	6.0	4.7	3.9	2.3
20	24	7.7	5.3	6.2	39	20	60	71	5.5	4.5	3.9	2.3
21	26	7.7	5.4	6.0	37	23	53	68	4.4	4.1	3.7	2.3
22	26	6.8	6.0	5.9	35	22	50	67	4.6	4.1	3.7	2.3
23	26	6.3	6.1	6.5	35	22	54	66	4.0	4.2	3.7	2.4
24	26	5.3	6.7	7.1	36	21	70	68	4.3	4.3	3.7	2.5
25	26	5.0	6.7	6.7	35	26	90	74	3.5	4.2	3.5	2.6
26	26	4.2	6.7	7.0	32	34	102	84	3.2	4.1	3.5	2.4
27	25	2.9	7.2	13	29	33	99	88	4.2	3.9	3.6	2.4
28	25	3.0	7.1	22	27	31	95	90	3.8	3.7	3.7	2.2
29	29	5.2	7.3	26	---	32	98	92	3.9	3.7	3.7	2.1
30	32	4.7	7.5	26	---	32	108	93	3.3	3.7	3.7	2.0
31	28	---	7.7	24	---	31	---	94	---	3.5	3.7	---
TOTAL	581.8	255.6	204.2	286.5	730	679	1530	2680	645.6	133.6	105.1	74.36
MEAN	18.8	8.52	6.59	9.24	26.1	21.9	51.0	86.5	21.5	4.31	3.39	2.48
MAX	32	24	9.0	26	39	34	108	148	92	5.2	4.2	3.7
MIN	2.2	2.9	5.0	5.9	12	16	26	56	3.2	3.5	2.0	.97
AC-FT	1150	507	405	568	1450	1350	3030	5320	1280	265	208	147
CAL YR 1980	TOTAL	23772.30	MEAN	65.0	MAX	1220	MIN	1.6	AC-FT	47150		
WTR YR 1981	TOTAL	7905.76	MEAN	21.7	MAX	148	MIN	.97	AC-FT	15680		

PYRAMID AND WINNEMUCCA LAKES BASIN

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 poor. No known diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134 ft³/s (3.79 m³/s) Apr. 30, 1981, gage height 2.11 ft (0.643 m); minimum daily, 0.53 ft³/s (0.015 m³/s) Sept. 10, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft³/s (3.79 m³/s) Apr. 30 (2230 hrs), gage height 2.11 ft (0.643 m), no other peak above base of 100 ft³/s (2.83 m³/s); minimum daily, 0.53 ft³/s (0.015 m³/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.1	1.7	2.2	4.8	8.2	89	13	.91	.64	.58
2	1.1	1.1	1.3	1.7	2.2	4.7	8.2	65	11	.90	.65	.59
3	1.0	1.1	2.2	1.7	2.3	4.7	7.4	44	9.9	.88	.66	.62
4	1.0	1.1	3.5	2.1	2.3	4.7	7.4	37	8.5	.89	.67	.56
5	1.0	1.1	1.9	1.9	2.3	4.6	8.7	33	7.4	.88	.66	.55
6	1.1	1.0	1.7	1.8	2.3	4.4	12	30	6.5	.86	.57	.54
7	1.1	1.0	1.6	1.8	2.3	4.4	14	28	5.8	.83	.57	.54
8	1.1	1.2	1.6	1.8	2.3	4.4	15	29	5.3	.82	.57	.56
9	.99	1.0	1.5	1.7	2.3	4.5	17	33	4.9	.80	.56	.57
10	1.0	1.0	1.5	1.7	2.3	5.0	20	36	4.4	.78	.61	.53
11	1.0	1.5	1.5	1.7	2.4	5.5	19	35	4.0	.82	.66	.54
12	1.4	1.3	1.5	1.6	2.4	5.6	19	33	3.8	.79	.67	.56
13	1.2	1.2	1.4	1.5	3.6	5.8	19	33	3.4	.76	.67	.60
14	1.3	1.1	1.4	1.5	11	5.5	22	35	3.2	.70	.68	.66
15	1.3	1.1	1.4	1.5	9.6	5.3	29	29	3.0	.68	.68	.66
16	1.3	1.1	1.5	1.6	7.5	5.3	33	24	2.8	.68	.66	.63
17	1.4	1.1	1.5	1.6	11	5.1	34	20	2.6	.68	.70	.68
18	1.3	1.0	1.6	1.6	8.8	5.1	35	44	2.5	.68	.68	.71
19	1.3	1.0	1.6	1.6	8.5	5.4	30	45	2.2	.67	.68	.69
20	1.2	1.0	1.6	1.6	10	5.3	24	30	2.0	.66	.63	.73
21	1.1	1.0	1.9	1.6	7.5	5.4	28	25	1.8	.63	.63	.77
22	1.1	1.0	2.2	1.8	6.9	5.8	48	23	1.7	.61	.61	.73
23	1.1	1.1	2.0	2.2	7.9	5.7	61	23	1.6	.62	.59	.74
24	1.1	1.1	1.8	2.1	7.3	5.7	81	25	1.4	.61	.59	.86
25	1.4	1.0	1.7	2.0	7.3	13	61	30	1.4	.61	.59	1.1
26	1.6	1.0	1.6	1.9	6.3	15	42	32	1.3	.62	.59	.81
27	1.3	1.0	1.7	3.0	5.4	10	30	26	1.2	.62	.59	.77
28	1.3	1.0	1.7	2.3	4.9	8.7	38	21	1.1	.64	.59	.77
29	1.3	1.0	1.7	2.0	---	9.6	66	19	1.1	.65	.59	.77
30	1.3	1.1	1.7	2.0	---	9.1	86	17	1.0	.66	.59	.77
31	1.3	---	1.7	2.1	---	8.2	---	15	---	.64	.56	---
TOTAL	37.09	32.4	52.6	56.7	151.1	196.3	922.9	1008	119.8	22.58	19.39	20.19
MEAN	1.20	1.08	1.70	1.83	5.40	6.33	30.8	32.5	3.99	.73	.63	.67
MAX	1.6	1.5	3.5	3.0	11	15	86	89	13	.91	.70	1.1
MIN	.99	1.0	1.1	1.5	2.2	4.4	7.4	15	1.0	.61	.56	.53
AC-FT	74	64	104	112	300	389	1830	2000	238	45	38	40

WTR YR 1981 TOTAL 2639.05 MEAN 7.23 MAX 89 MIN .53 AC-FT 5230

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

SPECIFIC CONDUCTANCE: October 1980 to September 1981.

WATER TEMPERATURES: October 1980 to September 1981.

SEDIMENT RECORDS: October 1980 to September 1981.

PERIOD OF DAILY RECORD.--

SEDIMENT RECORDS: October 1980 to September 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 65 micromhos Sept. 25; minimum recorded, 10 micromhos on several days during May.

WATER TEMPERATURES: Maximum recorded, 24.0°C July 2; minimum recorded, 0°C many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 19 mg/L Apr. 30; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 4.8 tons (4.4 metric tons) Apr. 30; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	5.0	2.5	2.5	0.5	2.0	1.0	0.5	0.0	1.5	0.5
2	---	---	5.0	2.5	2.5	2.0	2.0	1.0	0.5	0.0	2.5	1.0
3	---	---	5.0	2.5	2.5	1.0	3.0	1.5	0.5	0.0	2.5	0.5
4	---	---	5.0	2.5	1.5	1.0	2.5	1.0	0.5	0.0	2.5	1.0
5	---	---	5.0	2.5	1.0	0.0	1.5	0.5	0.5	0.0	2.0	1.0
6	---	---	5.5	2.5	0.5	0.0	1.0	0.0	0.5	0.0	3.0	1.5
7	---	---	6.0	3.0	0.5	0.0	1.0	0.0	0.5	0.0	3.5	1.5
8	---	---	6.5	4.5	0.5	0.0	1.5	0.0	0.5	0.5	3.5	1.0
9	---	---	5.5	3.5	0.5	0.0	1.0	0.0	0.5	0.5	3.5	1.0
10	---	---	5.5	3.5	0.5	0.0	1.0	0.0	1.0	0.5	3.5	1.5
11	---	---	5.0	3.5	0.5	0.0	1.0	0.0	1.5	0.5	3.5	1.0
12	---	---	4.5	2.5	0.5	0.0	1.5	0.0	1.5	0.5	3.5	1.0
13	---	---	3.5	1.5	0.5	0.0	1.5	0.5	1.0	0.5	2.0	1.5
14	---	---	3.0	1.0	0.5	0.0	1.5	0.0	1.0	0.5	3.0	0.5
15	---	---	2.5	1.0	0.5	0.0	2.0	0.5	1.5	0.5	3.0	1.0
16	---	---	3.0	1.0	0.5	0.5	2.0	1.0	2.0	0.5	3.5	1.0
17	---	---	3.0	1.5	0.5	0.0	2.0	1.0	1.5	0.5	3.0	0.5
18	---	---	2.5	1.0	1.0	0.5	2.5	1.0	2.0	0.5	2.0	1.0
19	---	---	2.5	0.5	1.0	0.5	2.5	1.5	2.5	1.0	2.5	0.5
20	---	---	2.0	0.5	1.5	0.5	2.0	1.0	1.5	0.5	2.0	0.5
21	---	---	2.5	0.5	1.5	0.5	3.5	1.5	1.5	0.0	3.0	0.5
22	6.5	3.5	3.5	1.5	2.0	0.5	4.0	2.0	1.5	0.0	4.0	1.5
23	6.0	3.0	3.0	1.5	1.0	0.0	2.5	1.0	2.0	0.5	4.0	1.0
24	6.5	3.5	2.0	0.5	1.5	0.0	1.5	0.0	1.0	0.0	4.5	1.0
25	5.0	3.5	2.0	0.0	2.5	1.5	0.5	0.0	1.0	0.0	2.5	0.0
26	5.5	3.0	2.0	0.5	2.5	1.0	1.0	0.0	1.0	0.0	1.0	0.0
27	5.0	3.0	1.5	0.0	2.0	1.0	0.5	0.0	1.0	0.0	2.0	0.5
28	5.0	2.5	2.0	0.5	2.0	1.0	0.0	0.0	1.5	0.0	4.0	1.0
29	4.5	2.0	2.5	0.5	1.5	0.5	0.5	0.0	---	---	3.0	1.0
30	4.5	2.0	2.0	1.0	1.5	0.0	0.5	0.0	---	---	3.0	0.0
31	5.5	2.0	---	---	2.0	0.5	0.0	0.0	---	---	3.5	0.5
MONTH	---	---	6.5	0.0	2.5	0.0	4.0	0.0	2.5	0.0	4.5	0.0

[illegible]

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.1	2		1.1	1		1.1	1	0
2	1.1	2		1.1	1		1.3	1	0
3	1.0	2		1.1	1		2.2	3	.02
4	1.0	2		1.1	1		3.5	2	.02
5	1.0	2		1.1	1		1.9	1	0
6	1.1	2		1.0	1		1.7	1	0
7	1.1	2		1.0	1		1.6	1	0
8	1.1	2		1.2	1		1.6	1	0
9	.99	2		1.0	1		1.5	1	0
10	1.0	2		1.0	1		1.5	1	0
11	1.0	2		1.5	1		1.5	1	0
12	1.4	2		1.3	1		1.5	1	0
13	1.2	2		1.2	1		1.4	1	0
14	1.3	2		1.1	1		1.4	1	0
15	1.3	2		1.1	1		1.4	1	0
16	1.3	1		1.1	1		1.5	1	0
17	1.4	1		1.1	1		1.5	1	0
18	1.3	1		1.0	1		1.6	1	0
19	1.3	1		1.0	1		1.6	1	0
20	1.2	1		1.0	1		1.6	1	0
21	1.1	1		1.0	1		1.9	1	0
22	1.1	1		1.0	1		2.2	1	0
23	1.1	1		1.1	1		2.0	1	0
24	1.1	1		1.1	1		1.8	1	0
25	1.4	2		1.0	1		1.7	1	0
26	1.6	1		1.0	1		1.6	1	0
27	1.3	1		1.0	1		1.7	1	0
28	1.3	1		1.0	1		1.7	1	0
29	1.3	1		1.0	1		1.7	1	0
30	1.3	1		1.1	1		1.7	1	0
31	1.3	1		---	---		1.7	1	0
TOTAL	37.09	---	0	32.4	---	0	52.6	---	.04

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	1	0	2.2	0	0	4.8	1	.01
2	1.7	1	0	2.2	0	0	4.7	1	.01
3	1.7	1	0	2.3	0	0	4.7	1	.01
4	2.1	1	0	2.3	0	0	4.7	1	.01
5	1.9	1	0	2.3	0	0	4.6	1	.01
6	1.8	1	0	2.3	0	0	4.4	1	.01
7	1.8	1	0	2.3	0	0	4.4	1	.01
8	1.8	1	0	2.3	0	0	4.4	1	.01
9	1.7	1	0	2.3	0	0	4.5	1	.01
10	1.7	1	0	2.3	0	0	5.0	1	.01
11	1.7	1	0	2.4	0	0	5.5	1	.01
12	1.6	1	0	2.4	0	0	5.6	1	.02
13	1.5	1	0	3.6	1	0	5.8	0	0
14	1.5	0	0	11	1	.03	5.5	0	0
15	1.5	0	0	9.6	1	.03	5.3	0	0
16	1.6	0	0	7.5	1	.02	5.3	0	0
17	1.6	0	0	11	1	.03	5.1	0	0
18	1.6	0	0	8.8	0	0	5.1	0	0
19	1.6	0	0	8.5	0	0	5.4	0	0
20	1.6	0	0	10	0	0	5.3	0	0
21	1.6	0	0	7.5	0	0	5.4	1	.01
22	1.8	0	0	6.9	0	0	5.8	1	.02
23	2.2	0	0	7.9	1	.02	5.7	1	.02
24	2.1	0	0	7.3	1	.02	5.7	1	.02
25	2.0	0	0	7.3	1	.02	13	4	.14
26	1.9	0	0	6.3	1	.02	15	1	.04
27	3.0	4	.03	5.4	1	.01	10	0	0
28	2.3	1	0	4.9	1	.01	8.7	0	0
29	2.0	1	0	---	---	---	9.6	0	0
30	2.0	1	0	---	---	---	9.1	0	0
31	2.1	1	0	---	---	---	8.2	0	0
TOTAL	56.7	---	.03	151.1	---	.21	196.3	---	.38

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.2	0	0	89	14	3.7	13	1	.04
2	8.2	0	0	65	7	1.3	11	1	.03
3	7.4	0	0	44	3	.36	9.9	1	.03
4	7.4	0	0	37	2	.20	8.5	1	.02
5	8.7	0	0	33	1	.09	7.4	1	.02
6	12	0	0	30	1	.08	6.5	1	.02
7	14	1	.04	28	1	.08	5.8	1	.02
8	15	1	.04	29	1	.08	5.3	1	.01
9	17	2	.09	33	1	.09	4.9	1	.01
10	20	2	.11	36	1	.10	4.4	1	.01
11	19	2	.10	35	1	.09	4.0	1	.01
12	19	1	.05	33	1	.09	3.8	1	.01
13	19	2	.10	33	1	.09	3.4	1	0
14	22	3	.18	35	1	.09	3.2	1	0
15	29	5	.39	29	1	.08	3.0	1	0
16	33	5	.45	24	1	.06	2.8	1	0
17	34	3	.28	20	1	.05	2.6	1	0
18	35	2	.19	44	8	1.5	2.5	1	0
19	30	1	.08	45	2	.24	2.2	1	0
20	24	1	.06	30	1	.08	2.0	1	0
21	28	3	.31	25	1	.07	1.8	1	0
22	48	11	1.5	23	1	.06	1.7	1	0
23	61	14	2.6	23	1	.06	1.6	1	0
24	81	14	3.5	25	2	.14	1.4	1	0
25	61	7	1.4	30	3	.24	1.4	1	0
26	42	5	.57	32	2	.17	1.3	1	0
27	30	5	.41	26	2	.14	1.2	1	0
28	38	6	.73	21	2	.11	1.1	1	0
29	66	10	2.3	19	2	.10	1.1	1	0
30	86	19	4.8	17	2	.09	1.0	1	0
31	---	---	---	15	1	.04	---	---	---
TOTAL	922.9	---	20.28	1008	---	9.67	119.8	---	.23

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.91	1		.64	1		.58	0	
2	.90	1		.65	1		.59	0	
3	.88	1		.66	1		.62	0	
4	.89	1		.67	0		.56	0	
5	.88	1		.66	0		.55	0	
6	.86	1		.57	0		.54	0	
7	.83	1		.57	0		.54	0	
8	.82	1		.57	0		.56	0	
9	.80	1		.56	0		.57	0	
10	.78	1		.61	0		.53	0	
11	.82	1		.66	0		.54	0	
12	.79	1		.67	0		.56	0	
13	.76	1		.67	0		.60	0	
14	.70	1		.68	0		.66	0	
15	.68	1		.68	0		.66	0	
16	.68	1		.66	0		.63	0	
17	.68	1		.70	0		.68	0	
18	.68	1		.68	0		.71	0	
19	.67	1		.68	0		.69	0	
20	.66	1		.63	0		.73	0	
21	.63	1		.63	0		.77	0	
22	.61	1		.61	0		.73	0	
23	.62	1		.59	0		.74	0	
24	.61	1		.59	0		.86	1	
25	.61	1		.59	0		1.1	3	
26	.62	1		.59	0		.81	1	
27	.62	1		.59	0		.77	1	
28	.64	1		.59	0		.77	0	
29	.65	1		.59	0		.77	0	
30	.66	1		.59	0		.77	0	
31	.64	1		.56	0		---	---	
TOTAL	22.58	---	0	19.39	---	0	20.19	---	0
YEAR	2639.05		31						

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
APR 30...	1945	120	6.0	33	11	26
MAY 18...	2110	78	4.0	14	2.9	10

PYRAMID AND WINNEMUCCA LAKES BASIN

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.--21 years, 35.3 ft³/s (1.000 m³/s), 25,570 acre-ft/yr (31.5 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.--Maximum discharge, 208 ft³/s (5.89 m³/s) May 1 (1845 hrs), gage height, 2.46 ft (0.750 m), no other peak above base of 200 ft³/s (5.66 m³/s); minimum daily, 1.2 ft³/s (0.034 m³/s) on many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.7	3.1	5.1	5.4	14	19	156	62	6.6	1.9	1.2
2	2.7	2.6	3.4	4.9	5.6	13	18	126	60	6.3	1.8	1.3
3	2.7	2.6	5.1	5.2	5.8	13	17	95	54	6.0	1.8	1.3
4	2.8	2.6	8.1	5.7	5.8	13	18	79	52	5.6	1.7	1.3
5	2.8	2.7	5.1	5.2	5.8	13	21	70	52	5.2	1.9	1.3
6	2.6	2.7	4.7	5.0	5.8	12	28	62	48	5.0	1.7	1.3
7	2.6	3.2	4.3	4.9	5.7	12	32	58	43	4.9	1.7	1.3
8	2.6	4.6	4.0	4.8	5.8	12	32	57	41	4.7	1.6	1.3
9	2.6	3.4	3.9	4.7	5.9	13	38	62	37	4.6	1.5	1.2
10	2.6	3.3	3.9	4.6	5.6	14	42	70	32	4.4	1.6	1.2
11	2.6	3.9	3.8	4.5	5.9	15	39	72	28	4.3	1.6	1.2
12	3.2	3.6	3.8	4.3	5.9	15	37	71	27	4.3	1.6	1.2
13	2.7	3.4	3.8	4.3	8.2	15	41	77	23	4.0	1.6	1.2
14	3.0	3.3	3.8	4.3	32	15	48	80	21	3.8	1.5	1.2
15	2.7	3.3	3.7	4.3	24	15	59	67	20	3.7	1.5	1.2
16	2.7	3.2	3.6	4.6	20	15	62	55	18	3.5	1.6	1.2
17	2.7	3.3	3.7	4.5	32	14	62	50	18	3.4	1.6	1.2
18	2.6	3.2	3.9	4.4	24	15	61	100	16	3.1	1.6	1.2
19	2.6	3.1	3.9	4.4	25	16	55	84	15	3.0	1.4	1.3
20	2.6	3.1	3.9	4.3	26	15	46	62	14	3.0	1.4	1.2
21	2.7	3.1	4.3	4.4	21	15	53	56	13	2.8	1.4	1.2
22	2.7	3.0	7.0	4.5	19	15	76	54	12	2.8	1.4	1.2
23	2.6	3.2	5.7	5.1	19	15	100	57	11	2.5	1.4	1.2
24	2.6	3.1	5.3	4.8	18	15	151	68	10	2.4	1.4	1.2
25	2.9	3.0	5.3	4.7	17	22	112	86	9.6	2.4	1.3	1.7
26	3.1	3.0	5.4	4.7	16	24	88	88	9.1	2.4	1.4	1.3
27	2.8	3.0	5.6	7.5	15	20	68	81	8.3	2.4	1.4	1.3
28	2.8	3.0	5.8	5.4	14	19	77	76	7.8	2.1	1.3	1.3
29	2.8	3.0	5.6	5.0	---	21	104	75	7.4	2.1	1.3	1.3
30	2.8	3.0	5.5	5.0	---	19	141	74	7.0	2.1	1.2	1.3
31	2.8	---	5.2	5.3	---	18	---	66	---	2.0	1.3	---
TOTAL	84.7	94.2	144.2	150.4	399.2	482	1745	2334	776.2	115.4	47.4	37.8
MEAN	2.73	3.14	4.65	4.85	14.3	15.5	58.2	75.3	25.9	3.72	1.53	1.26
MAX	3.2	4.6	8.1	7.5	32	24	151	156	62	6.6	1.9	1.7
MIN	2.6	2.6	3.1	4.3	5.4	12	17	50	7.0	2.0	1.2	1.2
AC-FT	168	187	286	298	792	956	3460	4630	1540	229	94	75

CAL YR 1980 TOTAL 17784.0 MEAN 48.6 MAX 800 MIN 2.6 AC-FT 35270
WTR YR 1981 TOTAL 6410.5 MEAN 17.6 MAX 156 MIN 1.2 AC-FT 12720

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 September 1981.

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 September 1981.

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, 34 micromhos May 30 to June 1, 1981.

WATER TEMPERATURES: Maximum recorded, 22.5°C July 27, 28, 1981; minimum recorded, 0°C on several days during January and February 1981.

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, 121 micromhos Sept. 7; minimum recorded, 34 micromhos May 30 to June 1.

WATER TEMPERATURES: Maximum recorded, 22.5°C July 27, 28; minimum recorded, 0°C on several days during January and February.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 103 mg/L Apr. 24; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 48 tons (43 metric tons) Apr. 24; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR DECEMBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	58	56	59	58	37	36	57	---	82
2			---	58	57	59	58	38	36	57	---	82
3			---	58	58	59	57	38	37	58	---	82
4			---	58	57	60	56	39	37	59	---	85
5			---	58	60	60	55	39	37	59	---	79
6			62	58	59	59	50	40	37	60	---	82
7			62	58	59	60	49	40	38	60	---	84
8			62	59	59	60	49	40	39	60	---	82
9			62	59	58	61	49	40	40	60	---	83
10			62	60	58	62	49	39	41	60	---	83
11			62	61	59	61	49	39	41	61	---	83
12			64	61	59	61	49	39	41	61	---	83
13			63	61	60	61	49	39	41	61	---	84
14			64	61	53	61	48	39	42	60	---	84
15			64	61	52	61	47	38	43	61	---	84
16			65	61	54	61	47	39	44	62	---	85
17			66	61	53	60	46	40	46	62	---	87
18			66	62	52	60	47	39	47	62	79	84
19			66	62	54	60	46	39	47	62	79	85
20			66	62	54	59	46	42	47	63	79	85
21			65	62	54	58	47	42	49	64	79	85
22			59	63	53	58	45	42	52	64	80	85
23			55	60	53	58	42	40	53	64	80	83
24			56	59	53	57	37	39	55	65	80	81
25			57	61	54	55	37	37	56	65	80	79
26			57	62	56	51	38	37	55	65	80	83
27			57	59	55	56	41	38	57	66	81	83
28			56	57	58	56	41	36	56	67	82	83
29			57	56	---	54	39	36	57	67	82	84
30			57	56	---	56	37	35	58	67	83	85
31			58	56	---	58	---	35	---	67	82	---
MONTH			61	60	56	59	47	39	46	62	---	83

TEMPERATURE (DEG. C) OF WATER, WATER YEAR DECEMBER 1980 TO SEPTEMBER 1981

[illegible]

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.7	1	0	2.7	1	0	3.1	1	0
2	2.7	1	0	2.6	1	0	3.4	1	0
3	2.7	1	0	2.6	1	0	5.1	4	.06
4	2.8	1	0	2.6	1	0	8.1	5	.11
5	2.8	1	0	2.7	1	0	5.1	1	.01
6	2.6	1	0	2.7	1	0	4.7	1	.01
7	2.6	1	0	3.2	1	0	4.3	0	0
8	2.6	1	0	4.6	2	.02	4.0	2	.02
9	2.6	1	0	3.4	4	.04	3.9	1	.01
10	2.6	1	0	3.3	2	.02	3.9	1	.01
11	2.6	1	0	3.9	2	.02	3.8	1	.01
12	3.2	1	0	3.6	2	.02	3.8	0	0
13	2.7	0	0	3.4	2	.02	3.8	0	0
14	3.0	0	0	3.3	1	0	3.8	0	0
15	2.7	0	0	3.3	1	0	3.7	0	0
16	2.7	1	0	3.2	1	0	3.6	0	0
17	2.7	1	0	3.3	1	0	3.7	0	0
18	2.6	1	0	3.2	1	0	3.9	0	0
19	2.6	2	.01	3.1	1	0	3.9	0	0
20	2.6	2	.01	3.1	1	0	3.9	0	0
21	2.7	2	.01	3.1	1	0	4.3	2	.02
22	2.7	2	.01	3.0	1	0	7.0	4	.08
23	2.6	2	.01	3.2	1	0	5.7	2	.03
24	2.6	2	.01	3.1	1	0	5.3	2	.03
25	2.9	2	.02	3.0	1	0	5.3	2	.03
26	3.1	2	.02	3.0	1	0	5.4	2	.03
27	2.8	1	0	3.0	1	0	5.6	2	.03
28	2.8	1	0	3.0	1	0	5.8	2	.03
29	2.8	1	0	3.0	1	0	5.6	1	.02
30	2.8	1	0	3.0	1	0	5.5	1	.01
31	2.8	1	0	---	---	---	5.2	1	.01
TOTAL	84.7	---	.10	94.2	---	.14	144.2	---	.56

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.1	1	.01	5.4	9	.13	14	0	0
2	4.9	1	.01	5.6	8	.12	13	0	0
3	5.2	2	.03	5.8	3	.05	13	0	0
4	5.7	2	.03	5.8	3	.05	13	0	0
5	5.2	2	.03	5.8	3	.05	13	0	0
6	5.0	3	.04	5.8	3	.05	12	0	0
7	4.9	3	.04	5.7	3	.05	12	0	0
8	4.8	3	.04	5.8	3	.05	12	0	0
9	4.7	3	.04	5.9	3	.05	13	0	0
10	4.6	3	.04	5.6	3	.05	14	0	0
11	4.5	3	.04	5.9	3	.05	15	0	0
12	4.3	3	.03	5.9	3	.05	15	0	0
13	4.3	3	.03	8.2	9	.24	15	1	.04
14	4.3	3	.03	32	21	1.9	15	1	.04
15	4.3	3	.03	24	6	.39	15	1	.04
16	4.6	3	.04	20	9	.52	15	1	.04
17	4.5	3	.04	32	11	1.1	14	1	.04
18	4.4	3	.04	24	4	.26	15	1	.04
19	4.4	3	.04	25	4	.27	16	1	.04
20	4.3	3	.03	26	2	.14	15	1	.04
21	4.4	3	.04	21	1	.06	15	1	.04
22	4.5	3	.04	19	1	.05	15	1	.04
23	5.1	3	.04	19	1	.05	15	1	.04
24	4.8	3	.04	18	1	.05	15	1	.04
25	4.7	3	.04	17	1	.05	22	4	.24
26	4.7	3	.04	16	1	.04	24	1	.06
27	7.5	9	.18	15	1	.04	20	1	.05
28	5.4	9	.13	14	0	0	19	1	.05
29	5.0	9	.12	---	---	---	21	1	.06
30	5.0	9	.12	---	---	---	19	1	.05
31	5.3	9	.13	---	---	---	18	1	.05
TOTAL	150.4	---	1.58	399.2	---	5.91	482	---	1.04

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	1	.05	156	48	24	62	5	.84
2	18	1	.05	126	30	10	60	5	.81
3	17	1	.05	95	16	4.1	54	5	.73
4	18	1	.05	79	10	2.1	52	5	.70
5	21	2	.11	70	7	1.3	52	4	.56
6	28	3	.23	62	5	.84	48	4	.52
7	32	3	.26	58	4	.63	43	4	.46
8	32	4	.35	57	4	.62	41	3	.33
9	38	5	.51	62	4	.67	37	3	.30
10	42	5	.57	70	5	.95	32	3	.26
11	39	4	.42	72	4	.78	28	3	.23
12	37	3	.30	71	4	.77	27	3	.22
13	41	4	.44	77	4	.83	23	3	.19
14	48	5	.65	80	4	.86	21	3	.17
15	59	7	1.3	67	2	.36	20	3	.16
16	62	9	1.5	55	2	.30	18	3	.15
17	62	8	1.3	50	3	.41	18	3	.15
18	61	7	1.2	100	53	18	16	3	.13
19	55	4	.59	84	10	2.7	15	3	.12
20	46	3	.37	62	2	.33	14	3	.11
21	53	8	1.4	56	4	.60	13	3	.11
22	76	24	6.2	54	3	.44	12	3	.10
23	100	62	22	57	4	.62	11	3	.09
24	151	103	48	68	6	1.1	10	3	.08
25	112	37	12	86	14	3.3	9.6	3	.08
26	88	10	2.4	88	17	4.0	9.1	3	.07
27	68	10	1.8	81	13	2.8	8.3	2	.04
28	77	14	3.3	76	7	1.4	7.8	2	.04
29	104	21	7.7	75	6	1.2	7.4	2	.04
30	141	39	18	74	6	1.2	7.0	2	.04
31	---	---	---	66	5	.89	---	---	---
TOTAL	1745	---	133.10	2334	---	88.10	776.2	---	7.83

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.6	2	.04	1.9	1	0	1.2	4	.01
2	6.3	2	.03	1.8	1	0	1.3	4	.01
3	6.0	2	.03	1.8	1	0	1.3	4	.01
4	5.6	2	.03	1.7	1	0	1.3	4	.01
5	5.2	3	.04	1.9	2	.01	1.3	4	.01
6	5.0	3	.04	1.7	2	0	1.3	4	.01
7	4.9	3	.04	1.7	2	0	1.3	3	.01
8	4.7	3	.04	1.6	2	0	1.3	3	.01
9	4.6	3	.04	1.5	3	.01	1.2	3	0
10	4.4	3	.04	1.6	2	0	1.2	3	0
11	4.3	3	.03	1.6	2	0	1.2	3	0
12	4.3	4	.05	1.6	2	0	1.2	3	0
13	4.0	4	.04	1.6	2	0	1.2	3	0
14	3.8	4	.04	1.5	2	0	1.2	3	0
15	3.7	5	.05	1.5	2	0	1.2	3	0
16	3.5	4	.04	1.6	2	0	1.2	4	.01
17	3.4	3	.03	1.6	2	0	1.2	3	0
18	3.1	2	.02	1.6	2	0	1.2	3	0
19	3.0	2	.02	1.4	2	0	1.3	3	.01
20	3.0	2	.02	1.4	2	0	1.2	3	0
21	2.8	2	.02	1.4	3	.01	1.2	3	0
22	2.8	2	.02	1.4	3	.01	1.2	3	0
23	2.5	2	.01	1.4	3	.01	1.2	3	0
24	2.4	1	0	1.4	3	.01	1.2	3	0
25	2.4	1	0	1.3	3	.01	1.7	3	.01
26	2.4	1	0	1.4	3	.01	1.3	3	.01
27	2.4	1	0	1.4	3	.01	1.3	3	.01
28	2.1	1	0	1.3	3	.01	1.3	3	.01
29	2.1	2	.01	1.3	3	.01	1.3	2	0
30	2.1	3	.02	1.2	3	0	1.3	2	0
31	2.0	2	.01	1.3	4	.01	---	---	---
TOTAL	115.4	---	.80	47.4	---	.12	37.8	---	.14
YEAR	6410.5		239.42						

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEH 14...	1515	40	2.5	25	2.7	48	--	--	--	--	--
MAR 25...	1625	27	2.0	8	.58	52	--	--	--	--	--
APR 16...	1750	68	7.5	20	3.7	34	--	--	--	--	--
23...	1930	154	5.0	208	86	41	54	71	87	98	100
24...	1455	179	7.5	249	120	29	--	--	--	--	--
30...	1845	198	6.5	118	63	34	--	--	--	--	--
MAY 01...	1415	129	9.5	38	13	25	--	--	--	--	--
18...	1340	114	4.5	98	30	16	--	--	--	--	--
18...	1910	146	3.5	58	23	27	--	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

LOCATION.--Lat 39°07'56", long 120°09'24", in NW1/4 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.--9 years, 22.5 ft³/s (0.637 m³/s), 16,300 acre-ft/yr (20.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) Jan. 13, 1980, gage height, 7.76 ft (2.365 m), from rating extended above 350 ft³/s (9.91 m³/s); no flow on may days during 1977-78.

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)
Feb. 14	1200	-- --	a*7.93 2.417
Apr. 14	1615	146 4.13	5.56 1.695
May 1	1645	*148 4.19	5.57 1.698

a Backwater from ice.

* No flow on many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.6	1.8	3.0	4.5	8.3	12	107	42	3.7	.31	.00
2	1.5	1.5	2.2	2.8	4.6	7.9	11	89	40	3.3	.31	.00
3	1.4	1.6	3.2	3.0	4.5	7.8	10	67	37	3.1	.28	.00
4	1.4	1.5	6.9	3.3	4.3	7.6	11	58	36	2.8	.28	.00
5	1.4	1.6	3.6	2.9	4.0	7.2	14	49	36	2.7	.26	.00
6	1.4	1.6	3.1	2.8	3.7	7.2	19	43	34	2.5	.19	.00
7	1.4	2.3	2.8	2.7	3.5	7.4	21	41	31	2.2	.17	.00
8	1.3	4.7	2.6	2.7	3.4	7.4	22	40	29	2.0	.13	.00
9	1.3	2.5	2.4	2.6	3.3	8.0	26	46	27	1.8	.09	.00
10	1.2	2.2	2.3	2.6	3.2	8.8	28	49	24	1.7	.08	.00
11	1.2	2.6	2.2	2.6	3.1	9.6	26	48	21	1.6	.11	.00
12	2.9	2.3	2.1	2.6	3.2	9.7	25	48	20	1.4	.09	.00
13	2.1	2.2	2.1	2.6	10	9.4	28	50	18	1.3	.08	.00
14	2.3	1.9	2.1	2.6	16	9.0	33	52	16	1.2	.08	.00
15	2.2	1.9	2.2	2.5	15	8.8	40	45	14	1.3	.06	.00
16	2.3	1.8	2.5	2.4	14	8.4	42	39	13	1.2	.06	.00
17	2.0	1.8	2.5	2.4	21	8.8	42	35	12	.98	.06	.00
18	1.9	1.7	2.6	2.4	17	8.4	40	80	12	.95	.07	.00
19	1.9	1.7	2.4	2.5	20	8.9	34	63	11	.90	.06	.00
20	1.8	1.8	2.4	2.4	19	8.6	29	44	11	.83	.04	.00
21	1.8	1.8	2.9	2.6	14	8.3	33	40	9.8	.78	.03	.00
22	1.9	1.7	4.8	3.2	13	8.6	52	37	9.1	.71	.04	.00
23	1.7	1.9	4.3	4.1	13	8.6	72	39	8.0	.60	.03	.00
24	1.6	1.8	3.9	3.5	12	9.2	102	45	7.5	.56	.01	.06
25	2.2	1.8	3.8	4.1	11	16	79	58	6.9	.55	.00	.86
26	2.5	1.8	4.1	3.9	11	17	60	61	6.1	.50	.00	.46
27	2.5	1.8	4.4	4.8	10	13	49	52	5.5	.43	.00	.35
28	2.1	1.7	3.9	4.0	9.4	12	58	49	5.0	.41	.00	.32
29	2.0	1.7	3.6	3.6	---	14	76	50	4.4	.36	.00	.34
30	1.8	1.7	3.4	3.8	---	13	99	49	4.0	.35	.00	.33
31	1.8	---	3.2	4.1	---	11	---	44	---	.34	.00	---
TOTAL	56.3	58.5	96.3	95.1	270.7	297.9	1193	1617	550.3	43.05	2.92	2.72
MEAN	1.82	1.95	3.11	3.07	9.67	9.61	39.8	52.2	18.3	1.39	.094	.091
MAX	2.9	4.7	6.9	4.8	21	17	102	107	42	3.7	.31	.86
MIN	1.2	1.5	1.8	2.4	3.1	7.2	10	35	4.0	.34	.00	.00
AC-FT	112	116	191	189	537	591	2370	3210	1090	85	5.8	5.4

CAL YR 1980	TOTAL	12789.10	MEAN	34.9	MAX	784	MIN	1.2	AC-FT	25370
WTR YR 1981	TOTAL	4283.79	MEAN	11.7	MAX	107	MIN	.00	AC-FT	8500

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 September 1981.

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 September 1981.

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.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperatures since October 1980.

COOPERATION.--Selected sediment samples furnished by University of California at Davis.

REMARKS.--Intermittent or no flow Aug. 9, 10, Aug. 14 to Sept. 24.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 82 micromhos Sept. 25, 26, 1981; minimum recorded, 22 micromhos Apr. 24, 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, 670 mg/L Jan. 13, 1980; minimum daily mean, 0 mg/L on many days each year.

SEDIMENT DISCHARGE: Maximum daily, 1,420 tons (1,290 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, 82 micromhos Sept. 25, 26; minimum recorded, 22 micromhos Apr. 24.

WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 8, 12, 13; minimum recorded, 0°C on many days during November to February.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 59 mg/L Apr. 24; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 20 tons (18 metric tons) Apr. 24; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	67	65	57	---	51	53	26	26	45	61	---
2	---	68	63	57	---	51	53	28	26	46	61	---
3	---	68	61	57	60	52	53	29	27	47	61	---
4	---	68	54	56	60	51	53	30	27	47	62	---
5	---	68	59	57	60	52	51	30	27	48	62	---
6	---	68	62	57	60	58	48	30	27	49	63	---
7	---	68	61	58	61	57	47	31	28	49	64	---
8	---	60	60	58	61	53	47	30	28	50	64	---
9	---	64	64	59	61	52	45	29	28	50	---	---
10	---	66	66	60	61	51	44	28	30	51	---	---
11	---	65	65	61	62	50	44	28	30	51	64	---
12	---	66	65	60	61	50	---	28	31	52	64	---
13	---	65	65	60	58	50	---	27	32	52	---	---
14	---	66	66	60	39	51	---	27	33	52	---	---
15	---	66	65	---	44	51	---	28	34	53	---	---
16	---	67	63	---	50	50	---	30	34	54	---	---
17	---	66	63	---	46	50	---	30	35	55	---	---
18	---	67	62	---	48	51	---	28	36	56	---	---
19	---	67	62	---	47	49	---	30	36	56	---	---
20	---	67	62	---	47	50	---	31	37	57	---	---
21	---	67	61	---	45	51	---	32	37	57	---	---
22	67	66	52	---	45	51	31	31	38	58	---	---
23	67	66	56	---	49	52	30	30	38	59	---	---
24	68	62	57	---	48	52	26	28	39	59	---	---
25	67	65	57	---	49	48	28	26	40	59	---	80
26	66	67	56	---	45	49	30	27	41	60	---	81
27	66	67	55	---	51	52	32	27	42	60	---	79
28	66	66	55	---	47	53	31	27	42	60	---	79
29	67	66	56	---	---	51	29	25	43	60	---	79
30	67	65	47	---	---	53	27	24	44	61	---	79
31	67	---	57	---	---	55	---	25	---	61	---	---
MONTH	---	66	60	---	53	52	---	28	34	54	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	5.5	2.5	1.0	0.5	1.5	0.5	---	---		
2	---	---	6.0	2.5	1.5	1.0	1.5	0.0	---	---		
3	---	---	6.0	2.5	1.5	0.0	2.5	0.0	0.0	0.0		
4	---	---	6.0	2.5	0.0	0.0	1.5	0.0	0.0	0.0		
5	---	---	6.0	2.5	0.5	0.0	1.0	0.0	0.0	0.0		
6	---	---	5.5	2.0	0.5	0.5	0.5	0.0	0.0	0.0		
7	---	---	6.0	2.5	0.5	0.5	0.5	0.0	0.0	0.0		
8	---	---	6.0	4.0	0.5	0.5	0.5	0.0	0.5	0.0		
9	---	---	5.0	3.5	0.5	0.5	0.5	0.0	0.5	0.0		
10	---	---	6.0	3.0	0.5	0.5	0.5	0.0	0.5	0.0		
11	---	---	5.0	3.5	0.5	0.0	0.5	0.0	1.0	0.0		
12	---	---	4.0	2.0	0.5	0.0	0.5	0.0	1.0	0.0		
13	---	---	3.5	1.0	0.5	0.0	0.5	0.0	1.0	0.5		
14	---	---	2.5	0.5	0.5	0.0	0.5	0.0	0.5	0.0		
15	---	---	2.0	1.0	0.5	0.0	---	---	0.5	0.0		
16	---	---	2.5	0.5	0.0	0.0	---	---	2.0	0.0		
17	---	---	2.5	1.0	0.0	0.0	---	---	---	---		
18	---	---	2.0	0.5	0.5	0.0	---	---	3.0	0.0		
19	---	---	1.0	0.5	0.5	0.0	---	---	3.5	1.0		
20	---	---	1.0	0.5	1.0	0.0	---	---	2.0	0.0		
21	---	---	1.5	0.5	1.0	0.0	---	---	0.0	0.0		
22	7.0	3.5	3.0	1.0	0.5	0.0	---	---	1.0	0.0		
23	7.0	1.5	3.0	1.0	0.5	0.0	---	---	---	---		
24	7.0	3.0	1.5	0.5	0.5	0.0	---	---	---	---		
25	6.5	4.0	0.5	0.5	1.0	0.0	---	---	---	---		
26	5.5	3.0	0.5	0.0	1.5	0.0	---	---	---	---		
27	5.5	3.5	0.5	0.0	1.5	1.0	---	---	---	---		
28	5.5	2.5	0.5	0.0	1.5	0.0	---	---	---	---		
29	5.0	1.5	1.0	0.0	1.0	0.0	---	---	---	---		
30	5.5	1.0	1.0	0.5	0.5	0.0	---	---	---	---		
31	6.0	2.0	---	---	1.0	0.0	---	---	---	---		
MONTH	---	---	6.0	0.0	1.5	0.0	---	---	---	---		
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.0	3.0	14.5	5.0	20.5	12.0	21.5	11.0	---	---
2	---	---	9.5	3.0	14.0	6.5	21.5	13.0	21.0	11.0	---	---
3	---	---	9.5	2.0	15.0	5.0	22.0	13.5	21.0	10.5	---	---
4	---	---	10.0	2.0	16.0	6.0	21.5	14.0	21.5	11.0	---	---
5	---	---	10.0	2.5	16.5	7.0	21.0	15.0	21.5	11.0	---	---
6	---	---	10.0	2.0	16.5	7.0	21.0	14.0	22.5	12.0	---	---
7	---	---	10.5	2.0	16.0	7.0	21.0	12.5	23.0	13.5	---	---
8	---	---	11.5	2.5	14.0	8.5	21.0	12.0	23.5	13.5	---	---
9	---	---	12.0	3.0	16.5	8.0	20.5	12.0	---	---	---	---
10	---	---	11.5	3.0	15.0	6.5	21.0	13.0	---	---	---	---
11	---	---	12.0	3.0	15.0	6.5	21.0	12.0	23.0	14.0	---	---
12	---	---	12.5	3.0	14.5	7.0	20.5	12.0	23.5	14.0	---	---
13	---	---	11.5	3.5	14.0	4.5	20.0	10.5	23.5	14.5	---	---
14	---	---	11.0	4.5	14.5	5.0	21.5	11.5	---	---	---	---
15	---	---	6.5	2.5	16.0	5.5	22.5	12.5	---	---	---	---
16	---	---	11.0	2.5	17.0	7.5	22.5	13.0	---	---	---	---
17	---	---	11.0	2.5	17.5	8.0	22.0	12.0	---	---	---	---
18	---	---	5.0	3.5	18.0	9.0	22.0	11.5	---	---	---	---
19	---	---	10.0	3.5	19.5	10.0	22.0	11.0	---	---	---	---
20	---	---	8.0	2.5	20.0	10.5	22.5	12.5	---	---	---	---
21	---	---	11.5	3.5	20.0	10.5	22.0	12.0	---	---	---	---
22	9.5	2.0	11.5	3.5	20.5	11.0	22.0	11.5	---	---	---	---
23	9.5	2.0	10.0	4.5	19.5	10.5	22.0	12.0	---	---	---	---
24	8.0	2.5	12.0	5.5	20.0	11.0	22.5	12.5	---	---	---	---
25	6.5	2.5	8.5	5.5	21.0	13.5	22.5	12.5	---	---	13.5	8.0
26	6.5	2.0	9.5	4.5	21.0	12.5	22.5	13.0	---	---	14.0	7.5
27	9.5	1.5	13.0	4.0	21.0	12.0	23.0	13.5	---	---	14.0	9.0
28	10.5	2.0	13.5	4.0	21.0	12.5	23.0	13.0	---	---	12.5	10.0
29	10.0	2.5	14.5	5.0	21.5	12.5	22.5	12.5	---	---	13.0	7.5
30	10.0	3.0	14.0	5.0	20.0	13.5	22.0	12.0	---	---	12.5	7.0
31	---	---	14.5	4.5	---	---	22.0	11.5	---	---	---	---
MONTH	---	---	14.5	2.0	21.5	4.5	23.0	10.5	---	---	---	---
YEAR	23.5	0.0										

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.5	1	0	1.6	0	0	1.8	1	0
2	1.5	1	0	1.5	0	0	2.2	1	0
3	1.4	1	0	1.6	0	0	3.2	1	0
4	1.4	1	0	1.5	0	0	6.9	1	.02
5	1.4	0	0	1.6	0	0	3.6	1	0
6	1.4	0	0	1.6	0	0	3.1	2	.02
7	1.4	0	0	2.3	23	.25	2.8	1	0
8	1.3	0	0	4.7	47	.69	2.6	2	.01
9	1.3	0	0	2.5	5	.03	2.4	2	.01
10	1.2	0	0	2.2	4	.02	2.3	1	0
11	1.2	0	0	2.6	3	.02	2.2	1	0
12	2.9	0	0	2.3	2	.01	2.1	1	0
13	2.1	0	0	2.2	1	0	2.1	1	0
14	2.3	0	0	1.9	0	0	2.1	1	0
15	2.2	0	0	1.9	0	0	2.2	1	0
16	2.3	0	0	1.8	0	0	2.5	1	0
17	2.0	0	0	1.8	0	0	2.5	1	0
18	1.9	0	0	1.7	0	0	2.6	1	0
19	1.9	0	0	1.7	0	0	2.4	1	0
20	1.8	0	0	1.8	0	0	2.4	1	0
21	1.8	0	0	1.8	0	0	2.9	3	.02
22	1.9	0	0	1.7	0	0	4.8	2	.03
23	1.7	0	0	1.9	0	0	4.3	1	.01
24	1.6	0	0	1.8	0	0	3.9	1	.01
25	2.2	2	.01	1.8	0	0	3.8	1	.01
26	2.5	1	0	1.8	0	0	4.1	1	.01
27	2.5	1	0	1.8	0	0	4.4	1	.01
28	2.1	1	0	1.7	0	0	3.9	1	.01
29	2.0	1	0	1.7	1	0	3.6	1	0
30	1.8	1	0	1.7	1	0	3.4	1	0
31	1.8	0	0	---	---	---	3.2	1	0
TOTAL	56.3	---	.01	58.5	---	1.02	96.3	---	.17

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.0	2	.02	4.5	2	.02	8.3	2	.04
2	2.8	2	.02	4.6	3	.04	7.9	2	.04
3	3.0	2	.02	4.5	3	.04	7.8	2	.04
4	3.3	2	.02	4.3	3	.03	7.6	2	.04
5	2.9	3	.02	4.0	3	.03	7.2	2	.04
6	2.8	3	.02	3.7	3	.03	7.2	2	.04
7	2.7	3	.02	3.5	3	.03	7.4	2	.04
8	2.7	3	.02	3.4	3	.03	7.4	2	.04
9	2.6	3	.02	3.3	3	.03	8.0	2	.04
10	2.6	3	.02	3.2	3	.03	8.8	2	.05
11	2.6	3	.02	3.1	3	.03	9.6	2	.05
12	2.6	3	.02	3.2	3	.03	9.7	2	.05
13	2.6	3	.02	10	5	.14	9.4	3	.08
14	2.6	3	.02	16	27	1.2	9.0	3	.07
15	2.5	3	.02	15	13	.53	8.8	3	.07
16	2.4	3	.02	14	8	.30	8.4	3	.07
17	2.4	3	.02	21	7	.40	8.8	3	.07
18	2.4	3	.02	17	8	.37	8.4	2	.05
19	2.5	3	.02	20	8	.43	8.9	2	.05
20	2.4	3	.02	19	5	.26	8.6	2	.05
21	2.6	3	.02	14	3	.11	8.3	2	.04
22	3.2	3	.03	13	3	.11	8.6	1	.02
23	4.1	3	.03	13	3	.11	8.6	1	.02
24	3.5	3	.03	12	3	.10	9.2	1	.02
25	4.1	4	.04	11	3	.09	16	5	.22
26	3.9	6	.06	11	3	.09	17	3	.14
27	4.8	7	.09	10	3	.08	13	1	.04
28	4.0	5	.05	9.4	2	.05	12	1	.03
29	3.6	3	.03	---	---	---	14	1	.04
30	3.8	3	.03	---	---	---	13	1	.04
31	4.1	2	.02	---	---	---	11	1	.03
TOTAL	95.1	---	.83	270.7	---	4.74	297.9	---	1.66

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	1	.03	107	23	8.2	42	3	.34
2	11	1	.03	89	10	2.5	40	2	.22
3	10	1	.03	67	8	1.4	37	2	.20
4	11	2	.06	58	6	.94	36	2	.19
5	14	5	.19	49	4	.53	36	1	.10
6	19	7	.36	43	4	.46	34	1	.09
7	21	7	.40	41	3	.33	31	1	.08
8	22	8	.48	40	4	.43	29	1	.08
9	26	10	.70	46	5	.62	27	1	.07
10	28	7	.53	49	5	.66	24	1	.06
11	26	5	.35	48	4	.52	21	1	.06
12	25	4	.27	48	3	.39	20	1	.05
13	28	7	.53	50	5	.68	18	1	.05
14	33	11	1.1	52	3	.42	16	1	.04
15	40	13	1.6	45	3	.36	14	1	.04
16	42	9	1.1	39	2	.21	13	1	.04
17	42	5	.57	35	2	.19	12	1	.03
18	40	4	.43	80	20	5.3	12	1	.03
19	34	3	.28	63	5	.85	11	1	.03
20	29	2	.16	44	2	.24	11	1	.03
21	33	6	.62	40	3	.32	9.8	0	0
22	52	18	3.3	37	3	.30	9.1	0	0
23	72	29	7.5	39	3	.32	8.0	0	0
24	102	59	20	45	3	.36	7.5	0	0
25	79	13	2.8	58	6	.94	6.9	0	0
26	60	5	.81	61	6	.99	6.1	0	0
27	49	7	.93	52	3	.42	5.5	0	0
28	58	11	2.1	49	3	.40	5.0	0	0
29	76	13	3.4	50	3	.41	4.4	0	0
30	99	23	7.5	49	3	.40	4.0	0	0
31	---	---	---	44	3	.36	---	---	---
TOTAL	1193	---	58.16	1617	---	30.45	550.3	---	1.83

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.7			.31	0		0	0	0
2	3.3			.31	0		0	0	0
3	3.1			.28	0		0	0	0
4	2.8			.28	0		0	0	0
5	2.7			.26	0		0	0	0
6	2.5			.19	0		0	0	0
7	2.2			.17	0		0	0	0
8	2.0			.13	0		0	0	0
9	1.8			.09	0		0	0	0
10	1.7			.08	0		0	0	0
11	1.6			.11	0		0	0	0
12	1.4			.09	0		0	0	0
13	1.3			.08	0		0	0	0
14	1.2			.08	0		0	0	0
15	1.3			.06	0		0	0	0
16	1.2			.06	0		0	0	0
17	.98			.06	0		0	0	0
18	.95			.07	0		0	0	0
19	.90			.06	0		0	0	0
20	.83			.04	0		0	0	0
21	.78			.03	1		0	0	0
22	.71			.04	1		0	0	0
23	.60			.03	1		0	0	0
24	.56			.01	1		.06	2	0
25	.55			0	1		.86	10	.02
26	.50			0	0		.46	3	0
27	.43			0	0		.35	2	0
28	.41			0	0		.32	2	0
29	.36			0	0		.34	2	0
30	.35			0	0		.33	2	0
31	.34			0	0		---	---	---

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
NOV 08...	1015	4.2	5.0	50	.57	98	--	--	--
FEB 14...	1545	25	.5	34	2.3	47	--	--	--
MAR 25...	1645	22	1.5	6	.36	57	--	--	--
APR 09...	1800	35	5.5	26	2.5	57	--	--	--
15...	1640	55	7.0	34	5.0	79	90	98	100
16...	1825	55	5.0	17	2.5	57	--	--	--
23...	1540	101	3.0	108	29	62	--	--	--
24...	1430	129	7.5	165	57	50	--	--	--
30...	1650	133	7.5	75	27	83	92	98	100
30...	1750	135	6.5	83	30	62	--	--	--
MAY 18...	1610	107	4.5	38	11	53	--	--	--
18...	2100	102	3.5	18	5.0	52	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

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 fair. Some small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3.3 ft³/s (0.093 m³/s) Mar. 25, 1981, gage height, 2.20 ft (0.671 m), maximum gage height, 2.49 ft (0.759 m) Jan. 29, 1981 (backwater from ice); no flow many days during July, August, and September 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.3 ft³/s (0.093 m³/s) Mar. 25, gage height, 2.20 ft (0.671 m), no peak above base of 20 ft³/s (0.57 m³/s), maximum gage height, 2.49 ft (0.759 m) Jan. 29 (backwater from ice); no flow many days during July, August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.10	.23	.22	.37	.35	1.0	.71	.18	.03	.03	.00
2	.05	.09	.30	.22	.34	.35	.85	.65	.18	.03	.02	.00
3	.05	.10	.94	.26	.31	.36	.63	.84	.16	.03	.00	.00
4	.04	.10	1.3	.35	.29	.32	.57	.99	.13	.03	.01	.01
5	.04	.10	.36	.30	.27	.31	.61	.94	.10	.02	.00	.01
6	.05	.10	.25	.27	.26	.33	.71	.87	.10	.00	.00	.01
7	.04	.14	.21	.26	.24	.31	.72	.75	.09	.00	.00	.01
8	.04	.17	.18	.25	.23	.32	.71	.74	.09	.01	.00	.01
9	.04	.14	.17	.25	.22	.37	.76	.69	.08	.03	.00	.01
10	.05	.14	.17	.24	.21	.39	.80	.76	.07	.03	.00	.01
11	.05	.26	.17	.24	.25	.39	.80	.94	.06	.03	.00	.01
12	.14	.17	.17	.24	.32	.39	.80	1.1	.06	.03	.00	.01
13	.11	.14	.16	.25	.49	.46	1.2	.96	.06	.03	.00	.01
14	.13	.14	.16	.25	1.3	.45	1.2	.93	.06	.03	.00	.01
15	.16	.19	.16	.25	.93	.40	1.4	.90	.06	.02	.00	.01
16	.17	.15	.17	.27	.93	.37	1.8	.83	.05	.03	.00	.01
17	.16	.11	.17	.22	1.4	.33	1.7	1.2	.05	.02	.01	.01
18	.12	.09	.18	.15	.97	.34	1.7	2.2	.05	.01	.01	.01
19	.11	.09	.18	.14	1.4	1.2	2.2	1.5	.05	.00	.01	.01
20	.10	.07	.20	.13	.94	.71	1.4	.88	.05	.01	.01	.01
21	.10	.07	.26	.15	.60	.95	1.1	.74	.04	.00	.01	.00
22	.10	.11	.29	.15	.57	.73	1.0	.56	.04	.01	.01	.01
23	.09	.09	.25	.17	.62	.56	1.2	.44	.04	.02	.01	.01
24	.09	.09	.23	.17	.58	.51	1.2	.40	.04	.02	.01	.04
25	.13	.09	.24	.16	.46	1.9	1.3	.40	.04	.00	.01	.15
26	.16	.09	.22	.16	.41	1.9	1.1	.71	.03	.00	.01	.10
27	.13	.09	.22	.22	.37	1.6	.90	.46	.03	.00	.01	.02
28	.11	.13	.21	.55	.37	1.2	.77	.40	.03	.00	.01	.02
29	.10	.15	.19	.54	---	1.2	.76	.30	.03	.00	.01	.03
30	.11	.20	.22	.47	---	1.3	.75	.24	.03	.01	.01	.03
31	.10	---	.22	.41	---	1.0	---	.21	---	.03	.01	---
TOTAL	2.93	3.70	8.38	7.91	15.65	21.30	31.64	24.24	2.08	.51	.21	.58
MEAN	.095	.12	.27	.26	.56	.69	1.05	.78	.069	.016	.007	.019
MAX	.17	.26	1.3	.55	1.4	1.9	2.2	2.2	.18	.03	.03	.15
MIN	.04	.07	.16	.13	.21	.31	.57	.21	.03	.00	.00	.00
AC-FT	5.8	7.3	17	16	31	42	63	48	4.1	1.0	.4	1.2

WTR YR 1981 TOTAL 119.13 MEAN .33 MAX 2.2 MIN .00 AC-FT 236

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

SPECIFIC CONDUCTANCE: June to September 1981.

WATER TEMPERATURES: June to September 1981.

SEDIMENT RECORDS: October 1980 to September 1981.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to September 1981.

WATER TEMPERATURES: June to September 1981.

SEDIMENT RECORDS: October 1980 to September 1981.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 166 micromhos Aug. 2; minimum daily, 110 micromhos Aug. 16.

WATER TEMPERATURES: Maximum recorded, 20.0°C June 4; minimum observed, 0.0°C Feb. 1.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 59 mg/L May 18; minimum daily mean, 1 mg/L on several days during November, December and March.

SEDIMENT DISCHARGE: Maximum daily, 0.43 ton (0.39 metric ton) May 18; minimum daily, 0 ton (0 metric ton) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR JUNE TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	---	142	
2									---	---	166	
3									---	---	---	
4									142	---	---	
5									138	---	---	
6									137	---	---	
7									132	---	---	
8									130	---	---	
9									131	---	---	
10									128	---	---	
11									125	---	---	
12									123	---	---	
13									124	---	---	
14									122	---	---	
15									124	---	---	
16									124	---	110	
17									124	---	113	
18									---	---	116	
19									---	---	120	
20									---	---	---	
21									---	---	---	
22									---	---	---	
23									---	---	---	
24									---	---	---	
25									---	---	---	
26									---	---	---	
27									---	---	---	
28									---	---	---	
29									---	---	---	
30									---	118	---	
31									---	132	---	
MONTH									---	---	---	

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible][illegible]

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	.06	4		.10	2		.23	2	0
2	.05	4		.09	2		.30	2	0
3	.05	4		.10	2		.94	31	.11
4	.04	4		.10	2		1.3	7	.02
5	.04	4		.10	2		.36	5	0
6	.05	4		.10	2		.25	5	0
7	.04	4		.14	2		.21	5	0
8	.04	4		.17	2		.18	5	0
9	.04	4		.14	2		.17	5	0
10	.05	4		.14	2		.17	4	0
11	.05	4		.26	2		.17	4	0
12	.14	4		.17	3		.17	4	0
13	.11	4		.14	3		.16	3	0
14	.13	4		.14	3		.16	4	0
15	.16	4		.19	3		.16	4	0
16	.17	4		.15	3		.17	5	0
17	.16	4		.11	3		.17	5	0
18	.12	3		.09	3		.18	6	0
19	.11	3		.09	3		.18	5	0
20	.10	3		.07	3		.20	5	0
21	.10	3		.07	2		.26	4	0
22	.10	3		.11	2		.29	4	0
23	.09	3		.09	1		.25	4	0
24	.09	3		.09	2		.23	3	0
25	.13	3		.09	2		.24	3	0
26	.16	3		.09	2		.22	2	0
27	.13	2		.09	2		.22	2	0
28	.11	2		.13	2		.21	2	0
29	.10	2		.15	2		.19	1	0
30	.11	2		.20	2		.22	2	0
31	.10	2		---	---		.22	2	0
TOTAL	2.93	---	0	3.70	---	0	8.38	---	.13

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	.22	2	0	.37	6	0	.35	2	0
2	.22	2	0	.34	5	0	.35	2	0
3	.26	3	0	.31	4	0	.36	1	0
4	.35	3	0	.29	3	0	.32	1	0
5	.30	3	0	.27	8	0	.31	1	0
6	.27	3	0	.26	6	0	.33	1	0
7	.26	3	0	.24	5	0	.31	1	0
8	.25	3	0	.23	5	0	.32	1	0
9	.25	4	0	.22	5	0	.37	1	0
10	.24	5	0	.21	5	0	.39	1	0
11	.24	5	0	.25	5	0	.39	1	0
12	.24	5	0	.32	5	0	.39	1	0
13	.25	7	0	.49	4	0	.46	1	0
14	.25	9	0	1.3	7	.02	.45	2	0
15	.25	10	0	.93	3	0	.40	2	0
16	.27	8	0	.93	3	0	.37	2	0
17	.22	6	0	1.4	2	0	.33	2	0
18	.15	5	0	.97	3	0	.34	2	0
19	.14	4	0	1.4	8	.04	1.2	13	.05
20	.13	3	0	.94	5	.01	.71	5	0
21	.15	2	0	.60	2	0	.95	12	.03
22	.15	3	0	.57	2	0	.73	10	.02
23	.17	4	0	.62	2	0	.56	8	.01
24	.17	5	0	.58	2	0	.51	7	0
25	.16	8	0	.46	2	0	1.9	41	.27
26	.16	9	0	.41	2	0	1.9	7	.04
27	.22	20	.01	.37	2	0	1.6	7	.03
28	.55	12	.02	.37	2	0	1.2	10	.03
29	.54	9	.01	---	---	---	1.2	10	.03
30	.47	8	.01	---	---	---	1.3	10	.04
31	.41	7	0	---	---	---	1.0	11	.03
TOTAL	7.91	---	.05	15.65	---	.07	21.30	---	.58

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.0	10	.03	.71	17	.03	.18	12	
2	.85	7	.02	.65	18	.03	.18	14	
3	.63	5	0	.84	27	.06	.16	16	
4	.57	5	0	.99	25	.07	.13	17	
5	.61	5	0	.94	23	.06	.10	15	
6	.71	5	0	.87	19	.04	.10	13	
7	.72	5	0	.75	25	.05	.09	9	
8	.71	5	0	.74	11	.02	.09	7	
9	.76	6	.01	.69	10	.02	.08	5	
10	.80	8	.02	.76	12	.02	.07	3	
11	.80	9	.02	.94	17	.04	.06	3	
12	.80	9	.02	1.1	16	.05	.06	4	
13	1.2	8	.03	.96	14	.04	.06	4	
14	1.2	7	.02	.93	14	.04	.06	4	
15	1.4	15	.06	.90	14	.03	.06	5	
16	1.8	35	.17	.83	14	.03	.05	6	
17	1.7	38	.17	1.2	14	.05	.05	7	
18	1.7	14	.06	2.2	59	.43	.05	7	
19	2.2	20	.12	1.5	9	.04	.05	8	
20	1.4	10	.04	.88	5	.01	.05	8	
21	1.1	10	.03	.74	12	.02	.04	8	
22	1.0	10	.03	.56	14	.02	.04	9	
23	1.2	7	.02	.44	14	.02	.04	9	
24	1.2	7	.02	.40	9	0	.04	9	
25	1.3	7	.02	.40	7	0	.04	9	
26	1.1	6	.02	.71	10	.02	.03	9	
27	.90	13	.03	.46	5	0	.03	8	
28	.77	9	.02	.40	5	0	.03	8	
29	.76	12	.02	.30	7	0	.03	7	
30	.75	21	.04	.24	9	0	.03	7	
31	---	---	---	.21	11	0	---	---	
TOTAL	31.64	---	1.04	24.24	---	1.24	2.08	---	0
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.03	6		.03	10		0	0	
2	.03	7		.02	10		0	0	
3	.03	7		0	0		0	0	
4	.03	7		.01	10		.01	10	
5	.02	7		0	0		.01	10	
6	0	0		0	0		.01	10	
7	0	0		0	0		.01	10	
8	.01	8		0	0		.01	10	
9	.03	8		0	0		.01	10	
10	.03	9		0	0		.01	10	
11	.03	10		0	0		.01	10	
12	.03	10		0	0		.01	10	
13	.03	11		0	0		.01	10	
14	.03	12		0	0		.01	10	
15	.02	12		0	0		.01	10	
16	.03	13		0	0		.01	10	
17	.02	13		.01	10		.01	10	
18	.01	13		.01	10		.01	10	
19	0	0		.01	10		.01	10	
20	.01	5		.01	10		.01	10	
21	0	0		.01	10		0	0	
22	.01	10		.01	10		.01	10	
23	.02	10		.01	10		.01	10	
24	.02	10		.01	10		.04	15	
25	0	0		.01	10		.15	10	
26	0	0		.01	10		.10	8	
27	0	0		.01	10		.02	8	
28	0	0		.01	10		.02	8	
29	0	0		.01	10		.03	8	
30	.01	10		.01	10		.03	8	
31	.03	10		.01	10		---	---	
TOTAL	.51	---	0	.21	---	0	.58	---	0
YEAR	119.13		3						

10336689 SNOW CREEK AT TAHOE VISTA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC 03...	1010	.46	1.5	60	.07	93	96	100	--
FEB 19...	1645	2.1	3.5	22	.12	68	--	--	--
MAR 25...	1115	2.2	2.0	81	.48	93	93	100	--
25...	1710	3.1	3.0	67	.56	26	--	--	--
MAY 18...	1820	3.0	8.0	102	.83	17	24	94	100
JUN 25...	1345	.04	24.5	9	.00	73	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

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.--8 years (1970-73, 1978-81), 7.46 ft³/s (0.211 m³/s), 5,400 acre-ft/yr (6.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 110 ft³/s (3.12 m³/s) June 26, 1971, gage height, 3.17 ft (0.966 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.--Maximum discharge, 24 ft³/s (0.68 m³/s) May 1, gage height 2.41 ft (0.735 m); maximum gage height 3.41 ft (1.039 m) Dec. 8 (backwater from ice), no peak above base of 30 ft³/s (0.85 m³/s); minimum daily, 1.3 ft³/s (0.037 m³/s) Aug 19, 30 to Sept. 3, 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.1	5.3	4.3	7.2	3.6	4.6	20	7.2	2.2	1.5	1.3
2	3.1	3.1	5.6	4.3	5.6	3.6	4.5	18	6.6	2.2	1.4	1.3
3	3.0	3.1	6.5	4.3	4.6	3.6	4.3	16	9.2	2.1	1.4	1.3
4	3.0	3.3	8.0	4.6	3.8	3.7	4.3	15	6.6	2.1	1.4	1.4
5	3.0	3.3	6.4	4.3	3.3	3.7	4.8	13	4.5	2.0	1.4	1.4
6	3.0	3.3	4.7	4.3	3.1	3.7	5.3	10	5.3	2.0	1.4	1.4
7	3.0	3.7	4.0	4.3	3.2	3.7	5.3	9.8	5.7	2.1	1.4	1.4
8	3.0	6.5	3.7	3.9	3.3	3.7	5.0	9.8	5.5	2.0	1.5	1.4
9	3.0	10	3.6	3.9	3.3	3.8	5.3	11	5.3	2.0	1.5	1.4
10	2.9	9.4	3.5	3.9	3.2	4.0	5.5	11	4.6	2.0	1.6	1.4
11	2.8	6.7	3.5	3.8	3.3	4.0	5.3	10	4.5	2.0	1.5	1.4
12	3.6	5.5	3.7	3.8	3.4	4.0	5.3	9.8	4.5	1.9	1.5	1.4
13	3.3	6.0	4.3	3.8	3.9	4.2	5.3	9.8	4.3	1.8	1.5	1.4
14	3.3	6.3	4.6	3.8	5.6	4.1	5.9	9.8	4.1	1.8	1.4	1.4
15	3.3	6.0	4.8	3.6	4.3	3.9	6.9	8.6	3.9	1.8	1.4	1.4
16	3.2	5.6	5.0	3.6	4.9	3.8	6.9	8.0	3.8	1.8	1.4	1.4
17	3.2	5.7	4.8	3.6	5.8	3.8	6.9	7.2	3.4	1.7	1.4	1.4
18	3.2	5.9	4.8	3.4	5.3	3.9	7.2	9.5	3.3	1.7	1.4	1.4
19	3.2	6.0	4.6	3.4	6.0	4.7	7.7	8.9	3.1	1.7	1.3	1.4
20	3.1	6.1	4.6	3.4	5.1	4.3	6.2	7.4	3.0	1.7	1.4	1.4
21	3.1	5.8	4.6	3.4	4.5	4.8	5.9	7.2	2.9	1.7	1.7	1.3
22	3.5	5.8	4.8	3.4	4.4	4.5	7.7	7.4	2.7	1.7	1.6	1.3
23	5.4	6.0	4.5	3.4	4.4	4.2	12	7.2	2.6	1.7	1.5	1.4
24	5.1	5.5	4.3	3.6	4.3	4.0	15	6.9	2.5	1.7	1.4	1.4
25	3.4	5.6	4.3	3.8	4.1	5.2	14	8.0	2.5	1.7	1.4	1.8
26	3.3	5.8	4.5	4.0	3.9	5.3	11	9.8	2.4	1.7	1.6	1.5
27	3.2	5.7	4.6	4.5	3.7	4.9	10	8.6	2.4	1.6	2.2	1.5
28	3.1	5.2	4.6	8.0	3.6	5.5	12	8.3	2.2	1.6	1.6	1.5
29	3.1	5.0	4.5	14	---	5.0	15	8.9	2.2	1.5	1.4	1.5
30	3.1	5.1	4.5	15	---	6.2	17	7.7	2.2	1.5	1.3	1.5
31	3.1	---	4.5	11	---	4.5	---	7.4	---	1.4	1.3	---
TOTAL	101.7	164.1	145.7	152.4	121.1	131.9	232.1	310.0	123.0	56.4	45.7	42.4
MEAN	3.28	5.47	4.70	4.92	4.33	4.25	7.74	10.0	4.10	1.82	1.47	1.41
MAX	5.4	10	8.0	15	7.2	6.2	17	20	9.2	2.2	2.2	1.8
MIN	2.8	3.1	3.5	3.4	3.1	3.6	4.3	6.9	2.2	1.4	1.3	1.3
AC-FT	202	325	289	302	240	262	460	615	244	112	91	84
CAL YR 1980	TOTAL	4135.7	MEAN	11.3	MAX	60	MIN	2.8	AC-FT	8200		
WTR YR 1981	TOTAL	1626.5	MEAN	4.46	MAX	20	MIN	1.3	AC-FT	3230		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1975, 1978 to current year.

SPECIFIC CONDUCTANCE: March to September 1981.

CHEMICAL ANALYSES: Water years 1970-73, 1975, 1978 to current year.

WATER TEMPERATURES: Water years 1980 to current year.

SEDIMENT RECORDS: Water years 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March to September 1981.

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 on several days during June to August 1981; minimum recorded, 0°C on several days during March and April 1981.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 800 mg/L June 18, 1980; minimum daily mean, 0 mg/L on several days during October 1980.

SEDIMENT DISCHARGE: Maximum daily, 123 tons (112 metric tons) June 18, 1980; minimum daily, 0 ton (0 metric ton) on many days during October 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 350 micromhos Mar. 30; minimum daily, 24 micromhos May 14.

WATER TEMPERATURES: Maximum recorded, 19.5°C on several days during June to August; minimum recorded, 0°C on several days during March and April.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 107 mg/L May 1; minimum daily mean, 0 mg/L on several days during October.

SEDIMENT DISCHARGE: Maximum daily, 5.8 tons (5.3 metric tons) May 1; minimum daily, 0 ton (0 metric ton) on many days during October.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR MARCH TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	110	46	---	59	76	81
2						---	93	38	---	62	76	80
3						---	86	37	---	66	77	80
4						---	82	34	---	67	78	78
5						---	80	36	---	67	80	76
6						---	78	40	---	69	81	78
7						---	76	44	---	68	81	79
8						---	77	44	---	68	81	79
9						---	76	43	---	67	82	80
10						---	73	41	---	66	78	81
11						---	73	39	---	66	78	81
12						---	72	35	---	66	79	81
13						---	70	30	44	66	80	81
14						---	69	24	44	62	81	80
15						---	66	26	46	---	82	80
16						---	64	28	49	---	81	80
17						---	64	30	52	---	81	79
18						---	65	34	54	---	80	79
19						---	74	34	55	---	81	82
20						---	70	32	55	---	80	81
21						---	71	36	54	---	75	80
22						---	70	34	57	---	76	79
23						---	71	34	57	---	77	---
24						73	66	38	59	---	79	---
25						79	64	36	62	---	80	---
26						94	68	32	64	---	79	---
27						140	69	---	62	---	70	---
28						94	66	---	61	---	76	---
29						84	65	---	60	---	80	---
30						148	57	---	59	76	81	72
31						90	---	---	---	76	81	---
MONTH						---	73	36	---	---	79	---

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR MARCH TO SEPTEMBER 1981

[illegible][illegible]

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.1	3	.03	3.1	10	.08	5.3	6	.09
2	3.1	2	.02	3.1	10	.08	5.6	5	.08
3	3.0	1	0	3.1	10	.08	6.5	7	.12
4	3.0	1	0	3.3	10	.09	8.0	8	.17
5	3.0	1	0	3.3	11	.10	6.4	7	.12
6	3.0	1	0	3.3	12	.11	4.7	6	.08
7	3.0	1	0	3.7	13	.13	4.0	5	.05
8	3.0	1	0	6.5	18	.32	3.7	5	.05
9	3.0	1	0	10	13	.35	3.6	5	.05
10	2.9	1	0	9.4	12	.30	3.5	5	.05
11	2.8	1	0	6.7	10	.18	3.5	5	.05
12	3.6	4	.04	5.5	9	.13	3.7	5	.05
13	3.3	1	0	6.0	8	.13	4.3	5	.06
14	3.3	0	0	6.3	7	.12	4.6	5	.06
15	3.3	0	0	6.0	7	.11	4.8	8	.10
16	3.2	0	0	5.6	6	.09	5.0	10	.14
17	3.2	0	0	5.7	6	.09	4.8	10	.13
18	3.2	0	0	5.9	5	.08	4.8	12	.16
19	3.2	0	0	6.0	5	.08	4.6	9	.11
20	3.1	0	0	6.1	4	.07	4.6	8	.10
21	3.1	1	0	5.8	4	.06	4.6	8	.10
22	3.5	1	0	5.8	5	.08	4.8	8	.10
23	5.4	1	.01	6.0	5	.08	4.5	8	.10
24	5.1	1	.01	5.5	5	.07	4.3	7	.08
25	3.4	1	0	5.6	5	.08	4.3	6	.07
26	3.3	1	0	5.8	6	.09	4.5	6	.07
27	3.2	2	.02	5.7	7	.11	4.6	7	.09
28	3.1	6	.05	5.2	7	.10	4.6	9	.11
29	3.1	8	.07	5.0	7	.09	4.5	10	.12
30	3.1	8	.07	5.1	6	.08	4.5	10	.12
31	3.1	9	.08	---	---	---	4.5	10	.12
TOTAL	101.7	---	.40	164.1	---	3.56	145.7	---	2.90

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.3	9	.10	7.2	8	.16	3.6	5	.05
2	4.3	9	.10	5.6	12	.18	3.6	5	.05
3	4.3	9	.10	4.6	12	.15	3.6	4	.04
4	4.6	9	.11	3.8	12	.12	3.7	4	.04
5	4.3	9	.10	3.3	10	.09	3.7	4	.04
6	4.3	8	.09	3.1	6	.05	3.7	4	.04
7	4.3	8	.09	3.2	6	.05	3.7	4	.04
8	3.9	8	.08	3.3	6	.05	3.7	4	.04
9	3.9	7	.07	3.3	6	.05	3.8	4	.04
10	3.9	6	.06	3.2	6	.05	4.0	4	.04
11	3.8	5	.05	3.3	7	.06	4.0	4	.04
12	3.8	4	.04	3.4	7	.06	4.0	4	.04
13	3.8	4	.04	3.9	13	.14	4.2	5	.06
14	3.8	4	.04	5.6	26	.39	4.1	5	.06
15	3.6	4	.04	4.3	16	.19	3.9	5	.05
16	3.6	4	.04	4.9	16	.21	3.8	5	.05
17	3.6	4	.04	5.8	13	.20	3.8	5	.05
18	3.4	4	.04	5.3	18	.26	3.9	5	.05
19	3.4	4	.04	6.0	29	.47	4.7	18	.23
20	3.4	4	.04	5.1	18	.25	4.3	16	.19
21	3.4	4	.04	4.5	9	.11	4.8	15	.19
22	3.4	4	.04	4.4	6	.07	4.5	11	.13
23	3.4	4	.04	4.4	5	.06	4.2	7	.08
24	3.6	4	.04	4.3	5	.06	4.0	7	.08
25	3.8	12	.12	4.1	6	.07	5.2	50	.70
26	4.0	11	.12	3.9	6	.06	5.3	30	.43
27	4.5	20	.24	3.7	6	.06	4.9	19	.25
28	8.0	20	.43	3.6	6	.06	5.5	22	.33
29	14	13	.49	---	---	---	5.0	12	.16
30	15	10	.41	---	---	---	6.2	11	.18
31	11	8	.24	---	---	---	4.5	9	.11
TOTAL	152.4	---	3.52	121.1	---	3.73	131.9	---	3.88

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.6	10	.12	20	107	5.8	7.2	8	.16
2	4.5	9	.11	18	66	3.2	6.6	10	.18
3	4.3	7	.08	16	24	1.0	9.2	10	.25
4	4.3	6	.07	15	16	.65	6.6	8	.14
5	4.8	8	.10	13	15	.53	4.5	9	.11
6	5.3	11	.16	10	12	.32	5.3	10	.14
7	5.3	13	.19	9.8	10	.26	5.7	10	.15
8	5.0	14	.19	9.8	9	.24	5.5	10	.15
9	5.3	11	.16	11	9	.27	5.3	11	.16
10	5.5	8	.12	11	13	.39	4.6	11	.14
11	5.3	6	.09	10	16	.43	4.5	10	.12
12	5.3	8	.11	9.8	14	.37	4.5	9	.11
13	5.3	12	.17	9.8	15	.40	4.3	8	.09
14	5.9	15	.24	9.8	32	.85	4.1	7	.08
15	6.9	20	.37	8.6	10	.23	3.9	6	.06
16	6.9	18	.34	8.0	7	.15	3.8	6	.06
17	6.9	13	.24	7.2	7	.14	3.4	5	.05
18	7.2	16	.31	9.5	28	.72	3.3	6	.05
19	7.7	22	.46	8.9	15	.36	3.1	6	.05
20	6.2	6	.10	7.4	7	.14	3.0	6	.05
21	5.9	10	.16	7.2	19	.37	2.9	6	.05
22	7.7	22	.46	7.4	13	.26	2.7	7	.05
23	12	34	1.1	7.2	8	.16	2.6	7	.05
24	15	42	1.7	6.9	9	.17	2.5	7	.05
25	14	30	1.1	8.0	14	.30	2.5	7	.05
26	11	12	.36	9.8	16	.42	2.4	7	.05
27	10	17	.46	8.6	11	.26	2.4	7	.05
28	12	22	.71	8.3	16	.36	2.2	7	.04
29	15	43	1.7	8.9	14	.34	2.2	8	.05
30	17	71	3.3	7.7	12	.25	2.2	8	.05
31	---	---	---	7.4	9	.18	---	---	---
TOTAL	232.1	---	14.78	310.0	---	19.52	123.0	---	2.79

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.2	8	.05	1.5	5	.02	1.3	4	.01
2	2.2	5	.03	1.4	6	.02	1.3	4	.01
3	2.1	5	.03	1.4	6	.02	1.3	4	.01
4	2.1	5	.03	1.4	6	.02	1.4	4	.02
5	2.0	5	.03	1.4	5	.02	1.4	4	.02
6	2.0	5	.03	1.4	5	.02	1.4	4	.02
7	2.1	5	.03	1.4	5	.02	1.4	4	.02
8	2.0	5	.03	1.5	5	.02	1.4	4	.02
9	2.0	5	.03	1.5	5	.02	1.4	4	.02
10	2.0	5	.03	1.6	5	.02	1.4	4	.02
11	2.0	5	.03	1.5	4	.02	1.4	4	.02
12	1.9	4	.02	1.5	4	.02	1.4	4	.02
13	1.8	4	.02	1.5	4	.02	1.4	4	.02
14	1.8	3	.01	1.4	4	.02	1.4	4	.02
15	1.8	3	.01	1.4	4	.02	1.4	4	.02
16	1.8	3	.01	1.4	4	.02	1.4	4	.02
17	1.7	3	.01	1.4	4	.02	1.4	4	.02
18	1.7	3	.01	1.4	4	.02	1.4	4	.02
19	1.7	3	.01	1.3	4	.01	1.4	4	.02
20	1.7	3	.01	1.4	4	.02	1.4	5	.02
21	1.7	3	.01	1.7	4	.02	1.3	15	.05
22	1.7	3	.01	1.6	4	.02	1.3	10	.04
23	1.7	3	.01	1.5	4	.02	1.4	4	.02
24	1.7	3	.01	1.4	4	.02	1.4	5	.02
25	1.7	4	.02	1.4	4	.02	1.8	13	.06
26	1.7	4	.02	1.6	4	.02	1.5	4	.02
27	1.6	4	.02	2.2	4	.02	1.5	4	.02
28	1.6	4	.02	1.6	4	.02	1.5	4	.02
29	1.5	4	.02	1.4	4	.02	1.5	7	.03
30	1.5	4	.02	1.3	4	.01	1.5	3	.01
31	1.4	5	.02	1.3	4	.01	---	---	---
TOTAL	56.4	---	.64	45.7	---	.59	42.4	---	.66
YEAR	1626.5		56.97						

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC											
18...	1625	5.0	4.5	16	.22	67	--	--	--	--	--
JAN											
31...	1600	9.2	.0	8	.20	43	--	--	--	--	--
FEB											
14...	1210	5.2	4.0	25	.35	76	--	--	--	--	--
19...	1550	8.3	6.0	53	1.2	90	92	95	100	--	--
MAR											
19...	1110	5.2	2.0	24	.34	79	--	--	--	--	--
25...	1025	5.7	3.0	107	1.6	67	--	--	--	--	--
APR											
08...	1740	5.2	8.0	20	.28	54	--	--	--	--	--
15...	1745	7.2	8.0	34	.66	73	--	--	--	--	--
19...	1015	8.3	2.5	32	.72	68	--	--	--	--	--
24...	1000	13	6.5	25	.88	44	--	--	--	--	--
30...	2330	21	5.0	100	5.7	19	--	--	--	--	--
MAY											
01...	1500	18	12.0	76	3.7	18	--	--	--	--	--
01...	2100	24	5.5	194	13	21	32	49	77	97	100
11...	1645	10	12.0	26	.70	28	--	--	--	--	--
14...	1205	9.8	9.5	47	1.2	89	--	--	--	--	--
18...	2145	11	3.5	32	.95	64	--	--	--	--	--
21...	1615	7.4	10.5	68	1.4	98	99	100	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW¼SE¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft (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 elevation 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 elevation in 1959. Present capacity, 11,780 acre-ft (14.5 hm³) at spillway elevation 7,838.0 ft (2,389.02 m). Figures given herein represent total contents. Stored water is used for spawning fish for Pyramid and Walker Lakes and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,160 acre-ft (15.0 hm³) Jan. 14-16, 1980, elevation, 7,838.87 ft (2,389.29 m); minimum, 10,970 acre-ft (13.5 hm³) Nov. 10-13, 1976, elevation, 7,835.8 ft (2,388.35 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,060 acre-ft (14.9 hm³) Jan. 28-30, elevation, 7,838.64 ft (2,389.22 m); minimum, 11,090 acre-ft (13.7 hm³) Sept. 30, elevation, 7,836.17 ft (2,388.46 m).

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

7,836	11,030
7,837	11,410
7,838	11,790
7,839	12,220

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11780	11770	11860	11890	12040	11950	12000	12010	11910	11760	11500	11250
2	11770	11770	11860	11890	12030	11950	11990	12000	11910	11760	11490	11240
3	11770	11770	11900	11900	12020	11940	11990	12000	11900	11750	11480	11230
4	11780	11780	11920	11910	12010	11940	11980	12000	11900	11740	11470	11220
5	11780	11780	11910	11910	12000	11940	11970	11990	11890	11740	11470	11220
6	11780	11770	11910	11910	12000	11940	11970	11980	11890	11710	11460	11200
7	11770	11770	11900	11910	11990	11940	11970	11980	11880	11710	11450	11200
8	11770	11780	11910	11910	11990	11930	11970	11980	11880	11710	11450	11190
9	11770	11780	11910	11910	11990	11930	11960	11960	11880	11700	11440	11190
10	11770	11800	11910	11910	11990	11920	11960	11960	11860	11690	11430	11190
11	11760	11830	11910	11910	11980	11920	11960	11960	11830	11680	11430	11180
12	11760	11830	11910	11910	11980	11920	11960	11940	11840	11660	11430	11170
13	11750	11830	11910	11900	11980	11940	11950	11940	11840	11660	11420	11170
14	11760	11830	11910	11900	11990	11930	11960	11920	11830	11650	11410	11170
15	11760	11830	11910	11900	11980	11930	11960	11920	11830	11650	11400	11160
16	11760	11830	11910	11910	11990	11930	11960	11900	11830	11630	11390	11160
17	11760	11830	11910	11910	11980	11930	11960	11900	11830	11630	11590	11160
18	11760	11830	11910	11910	11980	11930	11980	11900	11830	11620	11380	11160
19	11760	11830	11910	11910	11970	11940	12000	11920	11820	11610	11370	11140
20	11760	11830	11910	11900	11960	11940	12000	11930	11820	11600	11350	11140
21	11770	11830	11910	11900	11960	11950	12000	11930	11820	11590	11350	11130
22	11770	11840	11910	11900	11950	11950	12000	11930	11810	11580	11340	11130
23	11770	11850	11910	11910	11940	11940	12010	11930	11810	11580	11330	11120
24	11770	11830	11910	11910	11950	11940	12010	11930	11810	11570	11320	11110
25	11780	11840	11910	11910	11960	11980	12000	11930	11800	11560	11310	11120
26	11770	11840	11910	11930	11950	12000	12010	11930	11790	11550	11300	11120
27	11770	11850	11910	12020	11960	11990	12010	11930	11790	11540	11290	11110
28	11770	11850	11910	12060	11950	11990	12010	11930	11790	11540	11280	11110
29	11770	11830	11900	12060	---	11990	12010	11930	11780	11530	11270	11100
30	11770	11860	11900	12060	---	11990	12010	11930	11770	11520	11270	11090
31	11770	---	11900	12050	---	11990	---	11920	---	11510	11250	---
MAX	11780	11860	11920	12060	12040	12000	12010	12010	11910	11760	11500	11250
MIN	11750	11770	11860	11890	11940	11920	11950	11900	11770	11510	11250	11090
†	7837.95	7838.17	7838.27	7838.61	7838.39	7838.47	7838.53	7838.32	7837.95	7837.26	7836.59	7836.17
‡	+190	+90	+40	+150	-100	+40	+20	-90	-150	-260	-260	-160

CAL YR 1980 MAX 12160 MIN 11750 ‡ -40
WTR YR 1981 MAX 12060 MIN 11090 ‡ -490

† Elevation, 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 SE1SW1 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. 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.--8 years, 2.06 ft³/s (0.0583 m³/s), 1,490 acre-ft/yr (1.84 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, 9.2 ft³/s (0.261 m³/s) Jan. 29, gage height, 2.27 ft (0.692 m); minimum daily, 0.01 ft³/s (0.0003 m³/s) Aug. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.15	.32	1.2	6.7	2.6	4.9	5.0	2.4	.04	.02	.02
2	.05	.14	.72	1.2	6.3	2.6	4.9	5.0	2.1	.03	.02	.02
3	.05	.16	.86	1.3	5.7	2.4	4.4	4.6	2.0	.04	.02	.02
4	.05	.15	1.6	1.6	5.3	2.3	4.0	4.4	1.9	.07	.02	.02
5	.05	.12	1.3	1.6	4.9	2.5	3.8	4.3	1.7	.08	.02	.03
6	.05	.14	1.3	1.5	4.1	2.3	3.6	4.0	1.5	.12	.01	.03
7	.05	.25	1.2	1.4	3.8	2.2	3.5	3.8	1.5	.03	.01	.02
8	.05	.19	1.2	1.4	3.7	2.1	3.3	3.4	1.6	.03	.02	.03
9	.05	.14	1.2	1.4	3.8	2.1	3.2	3.2	1.2	.03	.02	.03
10	.05	.14	1.1	1.4	3.6	2.0	3.1	3.2	1.1	.03	.03	.03
11	.05	.14	1.1	1.4	3.5	2.0	3.0	2.9	1.0	.03	.03	.03
12	.03	.20	1.1	1.3	3.2	1.8	2.7	2.8	1.1	.03	.03	.03
13	.05	.21	1.1	1.3	3.3	2.4	2.7	2.8	.69	.03	.03	.03
14	.05	.20	1.1	1.3	3.5	2.5	2.6	3.2	.64	.03	.03	.03
15	.05	.32	1.1	1.3	3.3	2.5	2.6	3.1	.47	.05	.05	.03
16	.05	.25	1.0	1.5	3.2	2.6	2.6	2.5	.55	.05	.05	.03
17	.05	.14	1.0	1.6	3.1	2.4	2.6	2.3	.36	.05	.05	.05
18	.05	.14	1.1	1.6	2.9	2.3	2.8	3.2	.33	.10	.05	.05
19	.05	.14	1.1	1.6	3.4	2.9	4.6	3.9	.30	.14	.05	.05
20	.05	.12	1.1	1.5	3.0	3.2	4.6	3.7	.27	.07	.03	.05
21	.05	.22	1.2	1.5	2.7	3.3	4.4	3.5	.24	.03	.03	.05
22	.05	.11	1.2	1.5	2.5	3.1	4.3	3.3	.27	.02	.02	.07
23	.05	.19	1.1	1.8	2.5	2.9	4.4	3.2	.20	.05	.03	.05
24	.06	.15	1.2	2.1	2.9	2.8	4.6	3.3	.14	.03	.02	.05
25	.07	.07	1.2	1.9	2.9	3.8	4.8	3.1	.13	.03	.02	.03
26	.07	.05	1.2	2.0	2.9	5.8	5.1	3.4	.09	.02	.02	.03
27	.09	.05	1.3	3.9	2.7	5.3	4.8	3.3	.04	.02	.02	.03
28	.14	.06	1.2	7.1	2.6	4.8	4.7	3.0	.03	.02	.02	.03
29	.17	.08	1.2	8.3	---	5.2	4.6	2.9	.03	.02	.02	.03
30	.19	.18	1.2	8.5	---	4.6	4.8	2.8	.03	.02	.02	.03
31	.18	---	1.2	7.6	---	4.4	---	2.6	---	.02	.02	---
TOTAL	2.09	4.60	34.80	74.6	102.0	93.7	116.0	105.7	23.91	1.36	.83	1.03
MEAN	.067	.15	1.12	2.41	3.64	3.02	3.87	3.41	.80	.044	.027	.034
MAX	.19	.32	1.6	8.5	6.7	5.8	5.1	5.0	2.4	.14	.05	.07
MIN	.03	.05	.32	1.2	2.5	1.8	2.6	2.3	.03	.02	.01	.02
AC-FT	4.1	9.1	69	148	202	186	230	210	47	2.7	1.6	2.0

CAL YR 1980 TOTAL 1157.13 MEAN 3.16 MAX 14 MIN .03 AC-FT 2300
WTR YR 1981 TOTAL 560.62 MEAN 1.54 MAX 8.5 MIN .01 AC-FT 1110

PYRAMID AND WINNEMUCCA LAKES BASIN

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 November to February and August to September, which are fair. Minor diversions for local water supply.

AVERAGE DISCHARGE.--21 years, 34.6 ft³/s (0.980 m³/s), 25,070 acre-ft/yr (30.9 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.--Maximum discharge, 62 ft³/s (1.76 m³/s) Apr. 30, gage height, 6.78 ft (2.067 m), no peak above base of 100 ft³/s (2.83 m³/s); minimum daily, 5.2 ft³/s (0.15 m³/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	19	17	23	18	22	52	35	13	7.5	5.4
2	19	20	20	17	23	18	20	51	34	13	7.4	5.6
3	19	20	23	18	23	17	20	44	34	12	7.4	5.7
4	19	20	29	18	23	17	20	42	32	12	7.3	5.8
5	19	20	25	18	21	17	22	40	32	12	7.3	5.9
6	18	20	23	18	20	17	25	37	31	12	7.3	6.0
7	18	20	21	18	19	17	25	36	31	12	7.2	6.1
8	18	22	20	18	18	17	24	35	31	11	7.2	6.2
9	18	20	19	18	16	17	26	36	31	11	7.1	6.5
10	18	20	19	18	16	18	27	38	29	11	7.0	6.6
11	18	22	19	18	16	18	25	38	28	10	6.9	6.6
12	22	21	19	18	16	17	24	37	27	10	6.9	6.4
13	21	20	19	18	20	17	25	37	26	10	6.8	6.5
14	20	20	19	18	36	17	28	39	25	10	6.8	7.2
15	21	20	19	18	24	17	31	36	23	9.8	6.7	7.3
16	21	21	19	19	21	17	32	35	22	9.6	6.6	7.0
17	21	21	19	18	27	17	33	33	21	9.5	6.6	6.7
18	20	20	19	18	24	17	34	37	20	9.1	6.6	6.9
19	20	20	19	19	27	19	37	38	19	9.2	6.5	6.2
20	20	19	19	18	26	18	32	33	18	8.7	6.4	6.1
21	20	19	19	18	23	18	31	30	18	8.0	6.2	6.4
22	20	19	21	19	22	18	37	29	17	7.5	6.1	6.3
23	19	19	19	20	21	18	44	29	16	7.2	5.8	6.3
24	19	18	18	18	17	18	48	29	16	7.8	5.4	6.1
25	19	18	19	19	23	27	45	34	15	7.5	5.3	9.8
26	20	18	19	27	20	27	43	38	15	7.5	5.6	8.2
27	20	18	19	26	19	23	37	40	15	7.5	5.4	7.1
28	20	18	19	21	19	23	40	36	14	7.5	5.3	7.1
29	20	18	18	22	---	25	47	34	14	7.5	5.3	7.3
30	21	18	19	22	---	25	50	35	14	7.5	5.2	7.0
31	21	---	18	22	---	22	---	35	---	7.5	5.3	---
TOTAL	608	589	616	594	603	591	954	1143	703	297.9	200.4	198.3
MEAN	19.6	19.6	19.9	19.2	21.5	19.1	31.8	36.9	23.4	9.61	6.46	6.61
MAX	22	22	29	27	36	27	50	52	35	13	7.5	9.8
MIN	18	18	18	17	16	17	20	29	14	7.2	5.2	5.4
AC-FT	1210	1170	1220	1180	1200	1170	1890	2270	1390	591	397	393
CAL YR 1980	TOTAL	19258.0	MEAN	52.6	MAX	254	MIN	15	AC-FT	38200		
WTR YR 1981	TOTAL	7097.6	MEAN	19.4	MAX	52	MIN	5.2	AC-FT	14080		

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980 to current year.

SPECIFIC CONDUCTANCE: February to September 1981.

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 to September 1981.

WATER TEMPERATURES: February to September 1981.

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, 27 micromhos on many days during May and June 1981.

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug 12, 1981; minimum recorded, 0°C on many days during February to April 1981.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 223 mg/L July 9, 1974; minimum daily mean, 0 mg/L Oct. 15, 16, 1973.

SEDIMENT DISCHARGE: Maximum daily, 67 tons (61 metric tons) July 9, 1974; minimum daily, 0 ton (0 metric ton) Oct. 15, 16, 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 micromhos Aug. 24, minimum recorded, 27 micromhos many days during May and June.

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug 12, minimum recorded, 0°C on many days during February to April.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 65 mg/L Apr. 24; minimum daily mean, 1 mg/L on many days during September to November.

SEDIMENT DISCHARGE: Maximum daily, 8.4 tons (7.6 metric tons) Apr. 24; minimum daily, 0.02 ton (0.02 metric ton) Sept. 21-24.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), FEBRUARY TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	45	42	30	29	35	43	53
2					---	45	43	29	28	36	44	53
3					---	45	44	31	28	37	44	52
4					---	45	44	32	29	38	44	53
5					---	45	43	32	30	39	44	53
6					---	46	42	32	29	38	44	52
7					---	46	42	34	29	38	45	51
8					---	46	42	34	29	38	46	52
9					---	46	42	33	29	39	47	53
10					---	46	42	32	30	39	49	53
11					---	45	42	31	30	40	48	54
12					---	45	43	31	29	40	47	54
13					---	44	43	30	29	39	47	54
14					---	45	43	30	29	39	47	54
15					---	45	41	30	29	39	48	56
16					---	45	40	31	30	40	48	55
17					---	45	39	31	32	41	48	53
18					---	45	36	31	32	41	48	53
19					50	45	36	32	33	42	50	54
20					48	45	38	32	34	42	52	55
21					50	44	39	33	35	41	52	54
22					47	45	37	33	35	42	53	54
23					47	44	33	33	36	42	52	54
24					47	45	31	33	37	41	61	53
25					45	42	31	31	38	41	54	54
26					43	41	33	30	39	41	53	56
27					45	42	33	30	37	41	53	58
28					44	43	34	30	36	41	53	57
29					---	42	33	31	35	41	51	56
30					---	43	31	30	35	41	52	57
31					---	42	---	29	---	44	52	---
MONTH					---	44	39	31	32	40	49	54

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	--	--	--	--	2.0	--	--	--	--	2.0	--	0.0
2	--	8.5	--	--	--	--	--	3.0	--	--	--	--	--	--	--	4.0	--	1.0
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	0.0
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	0.5
5	--	--	--	--	6.0	--	--	--	--	--	--	--	--	--	--	3.0	--	0.5
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	0.5
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	--	0.5
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	0.0
9	--	--	--	--	--	--	--	0.0	--	--	1.0	--	--	--	--	7.0	--	0.0
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	0.5
11	--	--	--	--	3.5	--	--	--	--	--	--	--	--	--	--	7.0	--	0.0
12	--	--	--	--	--	--	--	0.5	--	--	--	--	--	--	--	6.0	--	0.0
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.5	--	0.5
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	0.0
15	--	--	--	--	--	--	--	1.5	--	--	--	--	--	--	--	5.0	--	0.0
16	--	--	--	--	--	--	--	--	--	--	3.0	--	--	--	--	7.0	--	0.5
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	0.0
18	--	--	--	--	2.0	--	--	--	--	--	--	--	--	--	--	3.0	--	0.0
19	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	1.5	4.0	--	0.5
20	--	--	--	--	--	--	--	--	--	--	--	--	4.0	--	0.0	5.0	--	0.0
21	--	--	--	--	--	--	--	--	--	--	4.5	--	3.0	--	0.0	4.5	--	0.0
22	--	--	--	--	--	--	--	--	--	--	--	--	4.0	--	0.0	7.5	--	1.0
23	--	--	--	--	--	--	--	--	--	--	--	--	5.0	--	0.5	6.5	--	0.0
24	--	--	--	--	--	--	--	--	--	--	--	--	1.5	--	0.0	7.0	--	0.0
25	--	--	--	--	0.0	--	--	--	--	--	--	--	1.0	--	0.0	4.5	--	1.0
26	--	--	--	--	--	--	--	3.0	--	--	--	--	2.5	--	0.0	3.5	--	0.0
27	--	--	--	--	--	--	--	--	--	--	1.5	--	1.5	--	0.0	3.0	--	0.0
28	--	5.5	--	--	--	--	--	--	--	--	--	--	2.0	--	0.0	7.0	--	0.0
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	--	0.5
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	0.0
31	--	--	--	--	--	--	--	1.5	--	--	--	--	--	--	--	4.5	--	0.0
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.2	--	0.2

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	5.0	--	0.5	10.0	--	6.0	14.0	--	8.0	19.5	--	10.0	20.5	--	9.5	22.0	--	10.5
2	7.5	--	0.5	10.5	--	6.0	15.5	--	9.0	20.0	--	11.5	20.5	--	9.0	22.0	--	9.5
3	8.0	--	0.0	10.0	--	3.0	15.5	--	7.5	20.5	--	11.5	20.0	--	8.5	22.0	--	9.5
4	8.5	--	0.0	10.0	--	3.0	17.0	--	8.5	21.0	--	12.5	21.0	--	9.5	21.5	--	9.0
5	8.5	--	1.0	10.0	--	3.5	17.5	--	10.0	21.0	--	13.0	21.0	--	9.0	21.5	--	9.0
6	8.5	--	1.5	10.0	--	3.0	17.5	--	10.0	18.0	--	13.0	22.5	--	10.5	22.0	--	9.0
7	8.5	--	1.0	10.0	--	2.5	16.5	--	9.5	19.5	--	10.5	23.0	--	11.5	21.5	--	9.0
8	9.0	--	1.0	11.5	--	3.0	14.0	--	10.5	19.5	--	9.5	22.5	--	11.5	16.0	--	10.0
9	8.5	--	2.0	12.5	--	4.5	17.0	--	9.5	19.5	--	9.5	22.0	--	12.5	21.5	--	10.0
10	8.5	--	2.0	12.5	--	5.0	15.5	--	8.5	19.5	--	10.5	23.0	--	13.0	22.5	--	10.5
11	8.5	--	1.0	12.5	--	4.5	13.5	--	8.0	19.0	--	9.5	23.5	--	12.5	23.0	--	10.5
12	8.5	--	0.5	13.0	--	5.0	14.0	--	8.0	18.5	--	9.0	24.0	--	12.5	21.5	--	11.0
13	9.5	--	1.0	13.5	--	5.5	12.5	--	5.0	18.5	--	7.5	23.5	--	12.5	20.0	--	11.5
14	10.0	--	1.5	11.5	--	7.0	13.0	--	5.0	19.5	--	9.0	23.5	--	12.5	20.5	--	10.5
15	8.5	--	2.5	7.0	--	4.5	14.0	--	5.0	20.5	--	10.0	23.0	--	11.5	20.0	--	11.0
16	9.5	--	2.5	10.5	--	3.5	16.0	--	7.0	20.0	--	11.0	22.0	--	12.0	18.5	--	10.5
17	8.5	--	3.0	10.5	--	3.0	16.5	--	8.0	20.5	--	10.5	18.5	--	12.5	15.5	--	10.0
18	6.5	--	3.5	8.0	--	5.5	17.5	--	9.0	20.0	--	9.5	20.0	--	11.0	18.0	--	8.5
19	6.5	--	2.0	10.0	--	4.5	19.0	--	9.5	20.5	--	9.0	20.5	--	11.5	19.0	--	10.0
20	8.5	--	2.0	8.0	--	3.5	19.5	--	10.0	20.5	--	10.0	20.5	--	9.5	19.0	--	9.5
21	8.5	--	2.5	11.0	--	4.5	19.0	--	10.0	20.0	--	9.5	20.0	--	9.0	18.0	--	8.0
22	11.5	--	3.5	12.5	--	5.0	19.5	--	11.0	20.0	--	9.5	21.0	--	10.0	17.0	--	6.5
23	10.0	--	4.5	11.5	--	6.5	19.5	--	10.5	20.0	--	10.5	21.0	--	9.5	13.5	--	6.5
24	8.5	--	5.5	11.5	--	7.5	19.0	--	10.0	20.5	--	10.0	21.0	--	9.5	10.5	--	6.0
25	8.5	--	4.0	10.5	--	8.0	20.0	--	12.5	20.0	--	10.0	21.0	--	9.5	13.5	--	7.5
26	6.0	--	3.5	10.5	--	7.0	20.5	--	11.5	20.5	--	10.5	22.0	--	11.0	15.0	--	7.0
27	9.0	--	2.0	13.0	--	6.5	20.0	--	11.5	21.0	--	11.5	22.5	--	11.5	15.0	--	7.5
28	11.5	--	3.5	14.5	--	6.5	20.5	--	11.5	21.0	--	11.0	22.5	--	12.0	13.0	--	8.5
29	12.0	--	4.5	14.5	--	7.5	20.5	--	11.5	20.5	--	10.5	22.0	--	11.0	14.5	--	8.0
30	10.0	--	6.0	15.5	--	8.0	19.0	--	11.5	20.0	--	9.5	22.0	--	11.0	15.0	--	6.5
31	--	--	--	15.0	--	7.5	--	--	--	20.5	--	9.5	22.5	--	10.5	--	--	--
MONTH	8.7	--	2.3	11.3	--	5.2	17.1	--	9.2	20.0	--	10.3	21.7	--	10.9	18.4	--	9.0

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	5	.26	20	1	.05	19	4	.21
2	19	5	.26	20	1	.05	20	4	.22
3	19	5	.26	20	1	.05	23	14	1.1
4	19	5	.26	20	1	.05	29	20	1.6
5	19	5	.26	20	1	.05	25	23	1.6
6	18	4	.19	20	1	.05	23	24	1.5
7	18	4	.19	20	1	.05	21	24	1.4
8	18	4	.19	22	1	.06	20	24	1.3
9	18	4	.19	20	1	.05	19	24	1.2
10	18	4	.19	20	1	.05	19	25	1.3
11	18	4	.19	22	3	.18	19	26	1.3
12	22	5	.30	21	3	.17	19	26	1.3
13	21	4	.23	20	3	.16	19	26	1.3
14	20	4	.22	20	7	.38	19	22	1.1
15	21	3	.17	20	9	.49	19	10	.51
16	21	3	.17	21	9	.51	19	7	.36
17	21	3	.17	21	9	.51	19	7	.36
18	20	2	.11	20	9	.49	19	7	.36
19	20	2	.11	20	9	.49	19	7	.36
20	20	2	.11	19	9	.46	19	6	.31
21	20	2	.11	19	9	.46	19	5	.26
22	20	2	.11	19	9	.46	21	5	.28
23	19	2	.10	19	9	.46	19	6	.31
24	19	1	.05	18	9	.44	18	6	.29
25	19	1	.05	18	9	.44	19	5	.26
26	20	1	.05	18	9	.44	19	4	.21
27	20	1	.05	18	9	.44	19	4	.21
28	20	1	.05	18	9	.44	19	4	.21
29	20	1	.05	18	5	.24	18	8	.39
30	21	1	.06	18	4	.19	19	10	.51
31	21	1	.06	---	---	---	18	9	.44
TOTAL	608	---	4.77	589	---	8.36	616	---	22.06

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17	5	.23	23	20	1.2	18	11	.53
2	17	6	.28	23	20	1.2	18	11	.53
3	18	3	.15	23	20	1.2	17	10	.46
4	18	2	.10	23	20	1.2	17	8	.37
5	18	5	.24	21	18	1.0	17	5	.23
6	18	6	.29	20	15	.81	17	4	.18
7	18	6	.29	19	15	.77	17	4	.18
8	18	6	.29	18	15	.73	17	4	.18
9	18	6	.29	16	15	.65	17	3	.14
10	18	6	.29	16	12	.52	18	3	.15
11	18	6	.29	16	10	.43	18	3	.15
12	18	6	.29	16	8	.35	17	3	.14
13	18	6	.29	20	24	1.7	17	3	.14
14	18	6	.29	36	55	5.3	17	2	.09
15	18	5	.24	24	10	.65	17	2	.09
16	19	3	.15	21	13	.74	17	2	.09
17	18	2	.10	27	15	1.1	17	2	.09
18	18	2	.10	24	10	.65	17	3	.14
19	19	2	.10	27	10	.73	19	3	.15
20	18	2	.10	26	11	.77	18	3	.15
21	18	2	.10	23	11	.68	18	3	.15
22	19	2	.10	22	11	.65	18	3	.15
23	20	2	.11	21	10	.57	18	3	.15
24	18	10	.49	17	10	.46	18	3	.15
25	19	10	.51	23	12	.75	27	52	4.6
26	27	37	3.0	20	12	.65	27	40	2.9
27	26	36	2.9	19	12	.62	23	20	1.2
28	21	22	1.2	19	12	.62	23	7	.43
29	22	20	1.2	---	---	---	25	4	.27
30	22	20	1.2	---	---	---	25	9	.61
31	22	20	1.2	---	---	---	22	16	.95
TOTAL	594	---	16.41	603	---	26.70	591	---	15.74

PYRAMID AND WINNEMUCCA LAKES BASIN
10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22	10	.59	52	34	4.8	35	11	1.0
2	20	8	.43	51	18	2.5	34	13	1.2
3	20	6	.32	44	18	2.1	34	11	1.0
4	20	4	.22	42	13	1.5	32	9	.78
5	22	4	.24	40	11	1.2	32	10	.86
6	25	5	.34	37	9	.90	31	9	.75
7	25	4	.27	36	8	.78	31	10	.84
8	24	4	.26	35	8	.76	31	9	.75
9	26	6	.42	36	12	1.2	31	8	.67
10	27	4	.29	38	13	1.3	29	8	.63
11	25	5	.34	38	13	1.3	28	7	.53
12	24	4	.26	37	9	.90	27	6	.44
13	25	6	.41	37	9	.90	26	5	.35
14	28	8	.60	39	13	1.4	25	5	.34
15	31	11	.92	36	7	.68	23	5	.31
16	32	12	1.0	35	5	.47	22	5	.30
17	33	11	.98	33	5	.45	21	5	.28
18	34	11	1.0	37	10	1.0	20	5	.27
19	37	13	1.3	38	11	1.1	19	5	.26
20	32	6	.52	33	11	.98	18	5	.24
21	31	9	.75	30	13	1.1	18	4	.19
22	37	28	3.1	29	10	.78	17	4	.18
23	44	64	7.6	29	7	.55	16	4	.17
24	48	65	8.4	29	6	.47	16	4	.17
25	45	30	3.6	34	7	.64	15	4	.16
26	43	11	1.3	38	9	.92	15	4	.16
27	37	12	1.2	40	20	2.2	15	4	.16
28	40	15	1.6	36	12	1.2	14	3	.11
29	47	25	3.2	34	10	.92	14	3	.11
30	50	33	4.5	35	8	.76	14	3	.11
31	---	---	---	35	9	.85	---	---	---
TOTAL	954	---	45.96	1143	---	36.61	703	---	13.32

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13	3	.11	7.5	6	.12	5.4	3	.04
2	13	4	.14	7.4	6	.12	5.6	3	.05
3	12	5	.16	7.4	6	.12	5.7	3	.05
4	12	5	.16	7.3	6	.12	5.8	3	.05
5	12	6	.19	7.3	7	.14	5.9	3	.05
6	12	7	.23	7.3	7	.14	6.0	3	.05
7	12	8	.26	7.2	7	.14	6.1	3	.05
8	11	9	.27	7.2	7	.14	6.2	4	.07
9	11	11	.33	7.1	7	.13	6.5	4	.07
10	11	10	.30	7.0	7	.13	6.6	4	.07
11	10	9	.24	6.9	6	.11	6.6	4	.07
12	10	8	.22	6.9	6	.11	6.4	4	.07
13	10	6	.16	6.8	6	.11	6.5	4	.07
14	10	5	.14	6.8	6	.11	7.2	4	.08
15	9.8	5	.13	6.7	5	.09	7.3	3	.06
16	9.6	5	.13	6.6	5	.09	7.0	3	.06
17	9.5	5	.13	6.6	5	.09	6.7	3	.05
18	9.1	5	.12	6.6	5	.09	6.9	2	.04
19	9.2	5	.12	6.5	5	.09	6.2	2	.03
20	8.7	5	.12	6.4	5	.09	6.1	2	.03
21	8.0	5	.11	6.2	4	.07	6.4	1	.02
22	7.5	5	.10	6.1	4	.07	6.3	1	.02
23	7.2	4	.08	5.8	4	.06	6.3	1	.02
24	7.8	4	.08	5.4	4	.06	6.1	1	.02
25	7.5	4	.08	5.3	4	.06	9.8	5	.13
26	7.5	4	.08	5.6	4	.06	8.2	4	.09
27	7.5	4	.08	5.4	4	.06	7.1	4	.08
28	7.5	4	.08	5.3	3	.04	7.1	4	.08
29	7.5	4	.08	5.3	3	.04	7.3	4	.08
30	7.5	5	.10	5.2	3	.04	7.0	4	.08
31	7.5	6	.12	5.3	3	.04	---	---	---
TOTAL	297.9	---	4.65	200.4	---	2.88	198.3	---	1.73
YEAR	7097.6		199.19						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV										
25...	1140	18	.0	9	.44	55	--	--	--	--
DEC										
09...	1330	19	.0	24	1.2	53	--	--	--	--
JAN										
27...	1440	35	1.5	66	6.2	37	--	--	--	--
FEB										
14...	1450	39	2.5	72	7.6	33	--	--	--	--
MAR										
25...	1225	26	2.5	58	4.1	62	--	--	--	--
25...	1740	39	3.5	100	11	44	60	84	97	100
APR										
15...	1440	29	8.0	9	.70	66	--	--	--	--
17...	1750	30	8.0	9	.73	70	--	--	--	--
19...	0535	38	2.0	14	1.4	56	--	--	--	--
22...	1915	44	9.5	40	4.8	54	--	--	--	--
23...	2335	59	6.5	122	19	27	--	--	--	--
26...	0315	48	5.0	16	2.1	53	--	--	--	--
28...	1915	43	10.0	11	1.3	100	--	--	--	--
30...	2130	62	10.0	58	9.7	37	--	--	--	--
MAY										
03...	2255	46	6.5	17	2.1	44	--	--	--	--
04...	0640	42	3.0	9	1.0	58	--	--	--	--
06...	0545	39	3.0	10	1.1	54	--	--	--	--
09...	1350	34	11.5	10	.92	49	--	--	--	--
16...	1705	35	10.0	7	.66	64	--	--	--	--
18...	2145	46	6.5	18	2.2	57	--	--	--	--
25...	2200	36	8.5	9	.87	48	--	--	--	--
26...	2145	42	8.5	12	1.4	57	--	--	--	--
27...	1040	41	8.0	19	2.1	35	--	--	--	--
JUN										
05...	0035	32	12.0	8	.69	63	--	--	--	--
JUL										
09...	1235	12	16.5	12	.39	53	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE¼NE¼ sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi (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. Monthend elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."

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

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft (1,895.856 m) 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 elevations 6,223 ft (1,896.8 m), natural rim of lake and 6,229.1 ft (1,898.63 m), maximum permissible elevation by Federal Court decree. Lake elevations are referred to Water and Power Resources Services datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft (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 elevation, 6,226.53 ft (1,897.846 m) June 6, 8; minimum, 6,224.54 ft (1,897.240 m) Sept. 30.

Capacity table (elevation, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.39	6.08	5.78	5.67	5.87	5.89	6.07	6.26	6.52	6.26	5.69	5.10
2	6.38	6.08	5.80	5.65	5.86	5.89	6.06	6.24	6.48	6.25	5.67	5.09
3	6.38	6.07	5.92	5.67	5.85	5.89	6.06	6.25	6.49	6.24	5.67	5.08
4	6.37	6.07	5.85	5.68	5.85	5.89	6.05	6.25	6.50	6.22	5.63	5.05
5	6.37	6.06	5.82	5.66	5.83	5.89	6.05	6.25	6.50	6.22	5.63	5.03
6	6.37	6.06	5.80	5.65	5.83	5.88	6.05	6.25	6.53	6.20	5.61	5.02
7	6.37	6.07	5.80	5.65	5.83	5.88	6.05	6.25	6.51	6.16	5.60	4.98
8	6.36	6.02	5.76	5.65	5.83	5.88	6.04	6.26	6.53	6.12	5.60	4.96
9	6.35	6.00	5.74	5.65	5.83	5.88	6.04	6.27	6.48	6.11	5.57	4.95
10	6.34	6.02	5.73	5.64	5.83	5.88	6.05	6.27	6.48	6.08	5.57	4.94
11	6.38	6.02	5.73	5.63	5.83	5.87	6.03	6.27	6.52	6.06	5.56	4.92
12	6.32	6.02	5.72	5.63	5.83	5.88	6.04	6.28	6.45	6.03	5.53	4.91
13	6.30	6.00	5.72	5.63	5.92	5.90	6.04	6.28	6.43	6.00	5.52	4.90
14	6.26	5.97	5.71	5.63	5.89	5.89	6.04	6.28	6.42	6.02	5.50	4.88
15	6.25	5.96	5.71	5.62	5.89	5.89	6.04	6.29	6.41	5.98	5.48	4.87
16	6.26	5.95	5.70	5.62	5.90	5.88	6.05	6.30	6.38	5.97	5.47	4.86
17	6.25	5.93	5.70	5.61	5.90	5.88	6.06	6.33	6.39	5.95	5.45	4.85
18	6.24	5.92	5.71	5.60	5.90	5.87	6.09	6.40	6.39	5.95	5.43	4.82
19	6.23	5.92	5.70	5.60	5.90	5.91	6.12	6.39	6.39	5.92	5.41	4.81
20	6.23	5.90	5.70	5.60	5.92	5.91	6.13	6.38	6.37	5.91	5.36	4.79
21	6.23	5.88	5.70	5.60	5.89	5.92	6.13	6.38	6.37	5.89	5.35	4.73
22	6.22	5.87	5.70	5.59	5.89	5.92	6.14	6.39	6.36	5.87	5.35	4.71
23	6.20	5.85	5.70	5.61	5.98	5.92	6.15	6.40	6.35	5.87	5.31	4.70
24	6.18	5.84	5.68	5.59	5.90	5.92	6.15	6.43	6.35	5.85	5.30	4.66
25	6.20	5.83	5.68	5.58	5.91	6.01	6.22	6.42	6.34	5.84	5.27	4.65
26	6.17	5.82	5.68	5.58	5.90	6.06	6.19	6.45	6.33	5.83	5.23	4.63
27	6.17	5.82	5.68	5.83	5.90	6.05	6.20	6.46	6.31	5.81	5.22	4.62
28	6.12	5.85	5.68	5.87	5.89	6.04	6.21	6.47	6.30	5.78	5.21	4.57
29	6.13	5.77	5.67	5.88	---	6.06	6.21	6.48	6.28	5.76	5.17	4.55
30	6.12	5.79	5.67	5.88	---	6.06	6.23	6.48	6.27	5.74	5.14	4.54
31	6.12	---	5.67	5.87	---	6.10	---	6.49	---	5.72	5.14	---
MEAN	6.27	5.95	5.73	5.67	5.88	5.93	6.10	6.34	6.41	5.99	5.44	4.84
MAX	6.39	6.08	5.92	5.88	5.98	6.10	6.23	6.49	6.53	6.26	5.69	5.10
MIN	6.12	5.77	5.67	5.58	5.83	5.87	6.03	6.24	6.27	5.72	5.14	4.54
†	379400	339200	324600	348900	351400	377000	392900	424600	397700	330700	260100	187100
‡	-33000	-40200	-14600	+24300	+2500	+25600	+15900	+31700	-26900	-67000	-70600	-73000

CAL YR 1980 † +240800
WTR YR 1981 ‡ -225300

† Usable contents, in acre-feet, at end of month.

‡ Change in contents, in acre-feet.

NOTE.--Add 6,220 ft to obtain elevation, Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN
10337500 TRUCKEE RIVER AT TAHOE CITY, CA

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LOCATION.--Lat 39°09'59", long 120°08'36", in NE1/4 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).--81 years (water years 1901-81), 242 ft³/s (6.853 m³/s), 175,300 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, 482 ft³/s (13.7 m³/s) Aug. 16, gage height 4.70 ft (1.433 m); minimum daily, 12 ft³/s (0.34 m³/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	142	218	182	145	60	62	72	72	418	424	431
2	75	144	178	182	145	62	61	72	73	404	424	432
3	75	144	175	182	145	66	61	71	72	405	425	430
4	76	143	176	182	142	67	60	71	72	405	425	428
5	76	143	172	182	140	67	59	71	70	404	426	428
6	76	119	172	182	140	67	66	70	70	394	427	428
7	75	101	171	181	139	66	80	70	70	375	427	430
8	75	99	172	181	139	66	76	69	71	373	426	419
9	76	100	172	183	139	66	73	70	83	386	426	365
10	42	101	170	183	139	66	70	71	139	421	425	354
11	13	102	172	182	140	65	70	70	162	421	425	354
12	13	101	174	182	139	65	69	69	162	419	427	353
13	13	101	174	187	141	65	69	69	162	419	428	353
14	14	101	176	207	143	69	69	69	161	424	426	329
15	13	101	176	213	139	76	70	69	197	426	452	289
16	13	103	176	213	138	75	69	69	287	426	480	289
17	12	112	176	213	116	71	69	67	313	424	458	289
18	13	128	176	214	82	66	69	71	311	424	434	288
19	13	132	176	209	67	66	70	70	311	424	430	292
20	99	131	176	198	59	65	69	69	311	421	428	295
21	150	131	181	178	57	66	69	64	310	419	430	293
22	142	133	181	153	57	65	71	70	328	424	430	292
23	141	133	181	141	59	65	71	70	345	426	361	291
24	144	149	181	137	58	66	71	71	347	426	261	289
25	144	179	181	137	57	72	71	72	374	424	235	290
26	144	179	181	137	59	68	70	73	420	421	281	291
27	143	179	179	141	61	66	68	72	424	421	368	289
28	140	179	179	144	61	63	69	70	423	421	424	290
29	141	180	177	145	---	62	70	70	423	421	435	292
30	143	220	182	145	---	62	70	71	424	424	434	297
31	143	---	182	144	---	62	---	70	---	421	433	---
TOTAL	2512	4010	5513	5440	3046	2053	2061	2172	6987	12861	12735	10190
MEAN	81.0	134	178	175	109	66.2	68.7	70.1	233	415	411	340
MAX	150	220	218	214	145	76	80	73	424	426	480	432
MIN	12	99	170	137	57	60	59	64	70	373	235	288
AC-FT	4980	7950	10940	10790	6040	4070	4090	4310	13860	25510	25260	20210
CAL YR 1980	TOTAL	40329	MEAN 110	MAX 337	MIN 12	AC-FT	79990					
WTR YR 1981	TOTAL	69580	MEAN 191	MAX 480	MIN 12	AC-FT	138000					

PYRAMID AND WINNEMUCCA LAKES BASIN

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA

LOCATION.--Lat 39°17'17", long 120°12'16", in SW¼NE¼ 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.--20 years (water years 1946-61, 1978-81), 319 ft³/s (9.034 m³/s), 231,100 acre-ft/yr (285 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, 471 ft³/s (13.3 m³/s) Aug. 15, gage height, 2.34 ft (0.713 m); minimum daily 25 ft³/s (0.71 m³/s) Oct. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	153	228	182	158	87	131	356	178	428	423	426
2	83	154	185	181	157	85	126	305	177	412	423	423
3	80	155	194	184	156	87	121	249	163	412	423	423
4	80	154	217	188	154	89	122	222	159	412	423	423
5	79	154	183	184	153	87	133	202	158	412	423	422
6	79	140	178	181	151	86	155	185	151	407	426	421
7	79	121	175	181	150	87	176	177	139	386	424	422
8	77	130	173	183	151	87	174	179	133	386	422	420
9	77	116	171	183	150	93	178	195	131	386	421	374
10	70	116	170	182	149	98	178	208	161	423	422	356
11	33	122	172	181	151	102	167	206	189	428	421	356
12	36	114	175	181	151	102	160	203	186	428	423	356
13	31	113	174	186	176	102	163	209	179	428	423	356
14	27	112	175	202	355	98	175	216	173	428	421	344
15	26	111	177	211	240	106	194	189	192	434	437	298
16	26	111	178	214	222	105	200	164	277	428	470	295
17	25	116	178	213	249	101	201	152	318	428	456	295
18	25	128	179	212	177	96	202	242	318	428	428	295
19	25	135	178	210	169	110	192	217	318	428	421	297
20	51	134	178	200	158	103	169	172	318	428	421	298
21	141	134	189	190	127	106	178	155	314	428	421	298
22	143	134	198	165	116	107	225	160	323	428	421	295
23	145	135	187	161	113	105	273	165	351	428	382	295
24	150	136	185	151	112	106	343	190	351	428	283	297
25	154	173	186	145	103	184	288	238	366	428	240	299
26	155	174	186	146	94	178	245	250	423	428	271	295
27	153	175	186	179	93	144	205	218	428	428	350	295
28	149	174	185	177	89	140	218	205	428	423	414	297
29	149	174	181	169	---	144	266	207	428	423	428	297
30	153	200	183	164	---	134	334	205	434	423	427	298
31	153	---	184	158	---	128	---	186	---	423	426	---
TOTAL	2738	4198	5688	5644	4424	3387	5892	6427	7864	13038	12614	10266
MEAN	88.3	140	183	182	158	109	196	207	262	421	407	342
MAX	155	200	228	214	355	184	343	356	434	434	470	426
MIN	25	111	170	145	89	85	121	152	131	386	240	295
AC-FT	5430	8330	11280	11190	8780	6720	11690	12750	15600	25860	25020	20360
CAL YR 1980	TOTAL	92825	MEAN 254	MAX 3000	MIN 25	AC-FT 184100						
WTR YR 1981	TOTAL	82180	MEAN 225	MAX 470	MIN 25	AC-FT 163000						

PYRAMID AND WINNEMUCCA LAKES BASIN

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10338000 TRUCKEE RIVER NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-66, 1977 to current year.

CHEMICAL ANALYSES: Water years 1951-66.

SPECIFIC CONDUCTANCE: Water years 1977 to current year.

WATER TEMPERATURES: Water years 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1977 to current year.

WATER TEMPERATURES: July 1977 to current year.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperatures since Jul; 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 231 micromhos Oct. 14, 1977; minimum recorded, 40 micromhos

June 7, 9, 14, 1978.

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug. 4, 1978; minimum recorded, 0.0°C on many days in every year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 140 micromhos Mar. 30; minimum recorded, 43 micromhos May 1.

WATER TEMPERATURES: Maximum recorded, 23.0°C July 3, 4; ; minimum recorded, 0.0°C Feb. 24.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	99	96	97	---	101	100	50	70	92	---	93
2	102	99	98	97	---	102	102	56	69	92	---	93
3	103	98	96	97	101	102	101	62	73	92	---	94
4	103	99	95	96	100	101	99	66	73	92	---	94
5	103	99	100	98	100	101	94	69	72	92	93	94
6	103	99	99	98	99	100	88	72	73	92	93	94
7	104	100	100	98	100	100	86	73	76	92	93	94
8	104	100	100	98	99	100	87	72	77	92	93	94
9	104	101	99	98	99	99	86	68	78	92	93	94
10	---	101	99	98	99	98	84	65	83	92	93	94
11	---	101	99	97	99	96	86	65	87	92	93	94
12	---	102	99	98	99	96	87	65	88	---	93	94
13	---	102	99	98	98	97	85	63	90	---	93	94
14	---	102	98	97	79	99	82	62	91	---	93	94
15	---	102	98	97	91	96	77	67	91	---	93	95
16	---	102	98	98	94	97	76	75	91	---	93	94
17	---	101	97	97	85	98	75	77	91	---	93	95
18	---	100	97	97	92	97	75	68	91	---	93	95
19	---	100	97	97	92	96	77	72	91	---	93	95
20	---	100	98	97	91	99	81	78	91	---	93	95
21	100	100	98	97	97	105	80	79	91	---	94	95
22	99	99	95	98	98	103	73	79	91	---	94	95
23	99	99	97	100	97	102	64	76	91	---	94	95
24	99	101	97	99	95	101	56	69	92	---	95	95
25	99	98	97	---	96	90	61	62	91	---	95	96
26	99	98	97	---	102	93	68	62	91	---	94	95
27	99	98	96	---	101	100	73	65	92	---	93	95
28	99	97	97	---	101	101	70	66	92	---	93	95
29	99	96	97	---	---	99	61	65	92	---	93	95
30	99	97	97	---	---	107	53	65	92	---	93	95
31	99	---	98	---	---	104	---	68	---	---	93	---
MONTH	---	100	98	---	96	99	80	68	85	---	93	94
YEAR	MAX	107	MIN	50	MEAN	92						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	9.0	11.0	8.0	6.5	3.0	6.5	4.0	---	---	6.5	2.0
2	18.0	11.0	11.0	7.5	6.0	2.0	6.5	4.0	---	---	7.0	3.0
3	18.5	11.0	12.0	---	5.0	4.0	7.0	4.5	5.0	1.5	7.5	2.0
4	18.5	11.0	12.0	8.0	4.5	3.0	6.0	4.5	5.5	1.5	5.5	3.5
5	18.5	11.0	12.0	8.5	5.5	3.5	6.0	4.5	5.0	2.5	6.0	3.5
6	18.5	11.0	12.0	8.0	4.5	2.5	5.5	3.0	5.0	2.0	8.5	2.5
7	18.0	10.5	11.0	7.5	4.5	2.0	5.5	3.5	5.5	2.0	8.0	3.5
8	18.0	10.0	11.5	8.0	3.0	0.5	6.0	3.5	5.0	3.0	9.0	3.0
9	17.5	9.5	10.0	7.0	4.0	2.0	6.0	3.0	6.5	4.0	9.0	3.0
10	---	---	10.5	7.0	4.5	2.0	5.5	3.0	6.0	2.5	9.5	3.5
11	---	---	8.5	7.5	6.0	3.0	5.0	3.5	7.5	4.5	9.0	3.0
12	---	---	9.5	6.5	5.5	3.0	6.0	4.0	8.0	4.5	8.5	3.0
13	---	---	8.5	5.0	5.5	3.5	7.0	4.5	6.5	4.5	6.0	3.5
14	---	---	8.0	4.5	6.0	3.0	6.5	4.0	5.5	3.0	8.5	3.0
15	---	---	7.5	4.5	7.0	4.5	7.0	5.0	7.0	3.5	7.5	4.0
16	---	---	6.0	3.5	6.5	4.5	7.0	5.5	7.5	3.5	9.0	3.5
17	---	---	7.5	4.0	7.0	4.5	6.5	5.5	8.0	4.0	8.0	2.5
18	---	---	8.0	5.0	7.0	6.0	7.5	5.5	8.0	4.0	6.0	3.5
19	---	---	8.0	5.0	7.0	5.0	7.0	5.5	7.0	3.5	6.0	3.0
20	---	---	8.0	4.5	7.0	5.0	7.0	5.0	6.0	2.0	5.0	2.0
21	12.5	8.5	7.5	5.0	6.5	4.5	7.5	6.5	6.0	1.0	8.0	2.5
22	13.0	8.5	8.5	6.0	7.0	5.0	7.5	6.0	7.0	1.5	8.5	4.5
23	13.0	8.5	8.5	6.0	6.0	3.5	6.5	5.0	7.0	2.5	9.5	3.5
24	12.5	9.0	7.0	4.5	6.0	4.0	6.0	3.0	4.0	0.0	10.5	3.5
25	10.5	9.0	6.5	4.0	7.5	5.5	---	---	3.0	0.5	7.5	2.0
26	11.5	8.0	7.0	4.5	7.5	5.0	---	---	3.5	0.5	4.5	1.5
27	11.0	8.5	8.0	5.0	7.0	5.0	---	---	5.0	0.5	6.0	2.5
28	10.5	6.5	8.5	5.5	7.0	5.0	---	---	5.5	0.5	9.5	2.5
29	11.0	6.5	7.0	5.5	7.0	4.0	---	---	---	---	7.0	3.5
30	11.0	7.5	5.5	3.0	6.5	4.0	---	---	---	---	8.5	1.5
31	11.5	7.5	---	---	6.0	3.5	---	---	---	---	9.0	3.5
MONTH	---	---	12.0	3.0	7.5	0.5	---	---	8.0	0.0	10.5	1.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	3.5	13.0	5.5	17.0	9.0	21.5	15.5	---	---	20.5	16.0
2	9.0	3.5	12.0	5.0	15.5	10.5	22.0	16.5	---	---	20.5	16.0
3	9.5	3.5	11.5	4.0	17.0	9.5	23.0	17.5	---	---	21.0	16.0
4	10.5	3.5	12.0	4.5	19.5	11.0	23.0	18.0	---	---	20.5	16.0
5	11.0	4.5	11.0	4.5	19.5	12.0	22.5	19.0	21.5	15.5	20.5	16.0
6	11.0	4.5	11.5	4.0	19.5	12.5	21.0	17.5	22.0	16.5	20.5	16.0
7	9.5	4.5	12.0	4.5	19.0	12.0	20.5	15.5	22.0	17.0	20.5	16.0
8	10.0	4.0	13.0	5.0	17.0	13.0	21.0	15.5	22.5	17.0	19.5	16.5
9	11.0	4.5	14.0	6.0	19.0	12.0	22.0	16.0	22.5	17.5	20.0	16.5
10	10.5	4.0	13.5	6.0	17.5	11.5	22.0	17.0	20.5	17.5	21.0	16.5
11	10.0	3.5	14.0	6.0	18.0	11.5	21.0	16.0	22.0	17.5	20.5	16.5
12	10.0	3.0	14.5	6.0	16.5	11.5	---	---	21.5	17.5	20.0	16.5
13	11.0	4.0	14.0	6.5	16.0	9.5	---	---	22.0	17.5	20.0	17.0
14	12.0	4.5	12.5	7.5	17.0	10.0	---	---	22.0	17.5	21.0	16.5
15	11.5	5.0	9.0	6.5	19.0	10.5	---	---	22.0	17.0	21.0	16.5
16	11.5	4.5	11.5	5.0	19.5	13.5	---	---	21.5	17.0	21.0	16.5
17	10.5	5.0	12.5	5.5	19.5	13.0	---	---	21.0	18.0	19.5	16.5
18	8.0	5.0	9.5	5.5	20.0	14.0	---	---	22.0	17.5	20.5	16.0
19	7.5	5.0	11.0	5.0	21.0	15.0	---	---	21.5	18.0	20.0	16.0
20	9.0	4.5	10.5	5.0	21.0	15.0	---	---	21.0	16.5	19.5	15.5
21	9.5	5.0	12.5	6.0	21.0	14.5	---	---	21.5	16.0	18.5	14.0
22	13.0	5.0	11.5	6.5	21.0	15.0	---	---	22.0	16.5	18.0	13.5
23	13.0	5.0	13.0	8.0	20.0	14.0	---	---	21.5	16.5	17.0	13.5
24	11.5	5.5	13.0	8.5	21.0	14.5	---	---	21.0	16.5	16.5	13.0
25	9.0	4.5	10.0	8.5	20.5	16.0	---	---	20.5	15.0	17.5	13.5
26	8.5	4.5	11.0	7.0	22.0	15.5	---	---	21.0	15.5	17.5	13.5
27	11.5	3.5	13.5	7.0	21.5	16.0	---	---	21.0	15.5	17.5	14.0
28	13.0	4.5	15.5	7.0	22.0	16.5	---	---	21.5	17.0	15.5	14.5
29	13.0	5.5	15.5	8.5	22.0	16.5	---	---	21.0	16.5	16.5	12.5
30	12.5	6.0	16.0	8.5	21.0	17.0	---	---	21.0	16.5	16.0	12.0
31	---	---	16.5	8.0	---	---	---	---	20.5	16.0	---	---
MONTH	13.0	3.0	16.5	4.0	22.0	9.0	---	---	22.5	15.0	21.0	12.0
YEAR	23.0	0.0										

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 good. Flow regulated by dam at outlet of Donner Lake, usable capacity, 9,500 acre-ft (11.7 hm³).

AVERAGE DISCHARGE (unadjusted).--44 years (water years 1930-35, 1937, 1940-42, 1944-52, 1956-57, 1959-81), 33.1 ft³/s (0.937 m³/s), 23,980 acre-ft/yr (29.6 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, 179 ft³/s (5.07 m³/s) Oct. 27, gage height, 3.36 ft (1.024 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	93	7.4	.14	24	36	.71	.63	30	3.6	1.8	1.6
2	.86	81	9.0	.12	22	34	1.0	.69	30	3.5	1.7	1.6
3	.71	70	12	.12	20	32	1.3	.56	25	3.3	1.3	1.6
4	.80	60	19	.11	19	31	.63	.50	20	3.4	1.2	1.5
5	.56	52	18	.09	18	30	.56	9.9	12	3.4	1.2	1.3
6	.56	45	17	.09	17	28	.48	21	7.9	3.1	1.0	1.2
7	.56	43	15	.07	16	27	.44	33	7.1	3.0	.90	1.4
8	.56	42	14	.07	15	26	.55	49	6.5	2.8	.56	1.4
9	3.1	36	13	.07	15	25	.97	40	6.2	2.9	.47	1.3
10	7.8	31	12	.07	14	25	.54	40	5.7	2.8	.33	1.2
11	7.1	28	12	.06	14	25	.37	25	5.5	2.8	1.8	1.3
12	6.4	25	11	.05	13	24	.34	16	5.2	2.9	3.5	1.7
13	6.1	22	10	.05	16	24	.30	20	4.6	2.8	3.4	1.7
14	4.7	20	9.8	.05	34	25	.28	21	4.3	2.8	3.1	1.8
15	4.1	17	9.3	.05	42	24	.40	26	4.0	2.8	2.8	1.6
16	4.0	15	9.1	.05	43	24	.57	29	3.6	2.5	2.8	1.5
17	3.9	14	8.9	.05	48	24	.56	25	3.4	2.1	2.7	1.5
18	3.8	13	8.6	.04	49	24	.56	53	3.3	2.1	2.6	1.6
19	3.6	12	8.6	13	51	14	.56	125	2.9	2.3	2.4	1.6
20	3.0	11	8.4	20	54	3.0	.57	143	2.9	2.3	2.4	1.6
21	65	11	9.0	18	51	2.8	.56	98	2.9	2.3	2.4	1.5
22	134	9.9	10	17	49	2.8	.48	56	3.0	2.3	2.3	1.3
23	123	9.5	10	18	47	2.6	.48	40	3.2	2.1	2.3	1.1
24	114	9.0	10	18	49	2.6	.50	39	3.3	2.1	2.4	1.0
25	106	8.4	9.7	17	49	2.1	.48	39	3.3	2.0	2.3	1.0
26	100	8.0	9.1	16	44	1.6	.54	32	3.3	1.9	2.3	1.0
27	135	7.4	9.2	23	41	1.6	.50	23	3.4	1.9	2.3	1.0
28	160	7.1	9.4	30	39	1.2	.50	23	3.5	2.0	2.1	.96
29	140	7.1	4.5	33	---	1.0	.51	27	3.6	1.9	1.8	.90
30	122	7.7	.48	30	---	.80	.61	32	3.7	1.9	1.6	.94
31	106	---	.16	27	---	.80	---	30	---	1.8	1.6	---
TOTAL	1368.21	815.1	313.64	281.35	913	524.90	16.85	1117.28	223.3	79.4	61.36	40.70
MEAN	44.1	27.2	10.1	9.08	32.6	16.9	.56	36.0	7.44	2.56	1.98	1.36
MAX	160	93	19	33	54	36	1.3	143	30	3.6	3.5	1.8
MIN	.56	7.1	.16	.04	13	.80	.28	.50	2.9	1.8	.33	.90
AC-FT	2710	1620	622	558	1810	1040	33	2220	443	157	122	81
CAL YR 1980	TOTAL	18350.35	MEAN	50.1	MAX	443	MIN	.16	AC-FT	36400		
WTR YR 1981	TOTAL	5755.09	MEAN	15.8	MAX	160	MIN	.04	AC-FT	11420		

PYRAMID AND WINNEMUCCA LAKES BASIN

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, 25.0°C on several days during June and July; minimum recorded, 0.0°C on many days during October to January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY FIELD (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (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)
NOV 17...	1230	6.2	124	8.0	4.5	11.3	66	.23	.32	.030	.040
APR 02...	0830	17	73	7.3	2.5	11.0	33	.09	.53	.040	.030
JUN 03...	1020	4.6	121	7.6	10.5	9.3	66	.64	.60	.070	.060
AUG 05...	1015	2.2	128	7.1	10.0	10.1	74	.16	.40	.040	.040

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10339250 MARTIS CREEK AT STATE HIGHWAY 267, NEAR TRUCKEE, CA--Continued
 SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 17...	1230	6.2	4.5	2	.03
APR 02...	0830	17	2.5	5	.23
JUN 03...	1020	4.6	10.5	6	.07
AUG 05...	1015	2.2	10.0	0	.00

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

267

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 elevations 5,745 ft (1,751.1 m), streambed elevation at dam, and 5,838 ft (1,779.4 m), elevation of spillway crest. Figures given herein represent total contents, which include 775 acre-ft (960,000 m³) of inactive storage below elevation, 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,700 acre-ft (9.49 hm³) May 11, 12, 1980, elevation, 5,815.16 ft (1,772.461 m); minimum (since storage began), 768 acre-ft (947,000 m³) Aug. 24, 1977, elevation, 5,779.88 ft (1,761.707 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 840 acre-ft (103,600 m³) Feb. 14, elevation, 5,718.02 ft (1,762.055 m); minimum, 773 acre-ft (953,100 m³) on several days during July and August, elevation 5,779.97 ft (1,761.735 m).

Capacity table (elevation, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	786	787	788	788	791	795	809	801	787	779	774	774
2	786	787	791	788	791	796	806	799	787	779	774	774
3	786	787	803	789	791	796	803	798	787	779	774	774
4	786	786	806	792	791	794	801	796	787	779	774	774
5	786	786	794	791	789	793	803	795	786	779	774	774
6	786	786	789	789	789	793	804	795	784	778	774	774
7	785	788	788	789	789	793	804	794	784	778	774	774
8	785	788	786	788	789	792	804	794	784	777	774	775
9	785	787	786	788	789	793	805	793	784	776	774	776
10	785	788	786	788	789	793	804	792	784	775	774	776
11	784	789	786	787	789	793	803	791	783	774	774	776
12	787	789	786	788	789	793	803	790	783	774	774	776
13	786	788	786	788	803	794	803	789	783	774	774	777
14	788	788	786	788	840	796	803	789	783	774	774	778
15	788	788	786	788	817	794	804	789	784	774	774	778
16	789	787	786	788	820	794	805	789	783	774	774	778
17	788	788	787	788	817	793	805	788	783	774	774	778
18	788	788	787	788	813	793	806	802	783	774	774	778
19	788	788	787	788	818	803	810	799	783	774	774	776
20	787	788	787	788	808	801	806	795	782	775	774	776
21	789	788	789	789	803	800	805	793	782	775	774	776
22	790	788	789	790	799	798	805	792	781	774	774	776
23	790	788	788	793	798	798	806	791	780	775	774	776
24	788	787	788	791	796	797	807	789	781	775	773	778
25	789	787	788	789	798	837	806	790	781	775	773	780
26	790	787	788	789	796	825	805	793	780	774	774	780
27	789	788	788	817	794	819	803	792	780	774	774	779
28	789	788	788	799	794	815	801	790	780	774	774	778
29	788	786	788	793	---	811	801	789	780	774	773	778
30	788	789	787	793	---	811	801	788	779	773	773	778
31	787	---	788	792	---	806	---	788	---	774	774	---
MAX	790	789	806	817	840	837	810	802	787	779	774	780
MIN	784	786	786	787	789	792	801	788	779	773	773	774
†	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 1980 ‡ -32
WTR YR 1981 MAX 840 MIN 773 ‡ -8

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1975 to current year.

SEDIMENT RECORDS: Water years 1975-76, 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LINIT FIELD (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 17...	1320	132	8.0	7.5	10.4	69	.05	.030	.56	.61	.040
APR 02...	0935	118	7.0	8.0	9.5	45	--	.060	.63	--	.060
JUN 03...	1210	115	9.1	18.5	10.3	63	.26	.110	.61	.87	.040
AUG 05...	1215	130	9.6	21.0	9.6	71	.17	.210	.85	1.0	.050

DATE	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)	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 17...	.010	3	2	250	80	19	4	30	20	70	20
APR 02...	.040	13	4	730	90	62	7	50	20	130	10
JUN 03...	.030	4	3	180	60	67	--	30	7	60	20
AUG 05...	.040	9	1	90	60	11	2	--	26	90	60

SUSPENDED SEDIMENT CONCENTRATION, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)
NOV 17...	1320	7.5	8
APR 02...	0935	8.0	10
JUN 03...	1210	18.5	3
AUG 05...	1215	21.0	6

PYRAMID AND WINNEMUCCA LAKES BASIN

269

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).--23 years, 22.9 ft³/s (0.649 m³/s), 16,590 acre-ft/yr (20.5 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, 86 ft³/s (2.44 m³/s) Feb. 14, gage height, 3.01 ft (0.917 m); minimum daily, 2.9 ft³/s (0.082 m³/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	8.1	10	9.3	12	15	26	20	7.3	4.1	3.1	3.6
2	7.8	7.9	11	9.4	12	15	26	19	7.0	4.0	3.1	3.6
3	7.8	7.9	15	10	12	16	23	18	6.9	4.0	3.1	3.7
4	7.7	7.9	31	13	12	15	21	16	6.7	4.2	3.1	3.7
5	7.6	7.8	19	12	11	14	21	15	6.5	4.2	3.2	3.7
6	7.6	7.7	12	11	11	14	23	14	6.2	4.3	3.2	3.7
7	7.2	8.1	11	10	11	13	23	14	5.9	3.7	3.2	3.7
8	7.0	9.4	9.6	10	11	13	23	13	5.8	3.7	3.4	3.9
9	7.0	8.8	9.8	10	11	13	23	13	5.9	3.6	3.3	4.0
10	7.0	8.7	9.3	9.7	11	14	24	12	5.6	3.5	3.3	4.0
11	7.0	9.8	9.4	9.3	11	14	23	11	5.6	3.3	3.4	4.0
12	7.9	9.8	9.5	9.4	11	14	22	10	5.5	3.3	3.4	4.0
13	8.1	9.1	9.5	10	13	15	22	9.7	5.3	3.1	3.4	4.1
14	8.1	8.9	9.4	9.8	59	15	22	9.4	5.4	3.3	3.3	4.3
15	9.1	9.3	9.6	10	45	15	23	9.4	5.4	3.3	3.3	4.3
16	9.4	8.9	9.8	10	32	14	24	9.5	5.6	3.3	3.3	3.5
17	9.1	9.2	9.9	10	37	13	24	9.4	5.2	3.1	3.4	4.3
18	8.8	9.1	10	10	31	13	24	13	5.2	3.2	3.5	4.3
19	8.5	9.0	10	10	31	18	28	19	5.2	3.2	3.6	4.2
20	8.2	8.8	10	10	32	21	26	14	4.8	3.3	3.5	3.8
21	9.3	9.0	10	10	23	19	24	12	4.5	3.3	3.5	3.7
22	9.9	9.3	11	11	20	18	24	11	4.5	3.3	3.5	3.8
23	10	9.6	11	14	19	18	24	9.9	4.3	3.4	3.5	3.7
24	9.4	9.3	10	13	18	16	26	9.5	4.3	3.4	3.5	3.8
25	9.2	8.7	10	11	16	32	25	9.3	4.3	3.3	3.4	4.4
26	10	9.0	11	11	16	50	24	11	4.3	3.3	3.3	4.5
27	9.5	9.1	11	30	15	38	22	11	4.2	3.2	3.5	4.5
28	9.1	9.2	10	25	14	34	20	9.5	4.1	2.9	3.5	4.3
29	8.9	9.4	10	15	---	31	20	8.3	4.1	3.0	3.6	4.1
30	8.9	10	9.7	13	---	29	20	7.8	4.1	3.0	3.5	4.1
31	8.5	---	9.5	13	---	27	---	7.5	---	3.0	3.5	---
TOTAL	261.2	266.8	348.0	368.9	557	606	700	375.2	159.7	106.8	104.4	119.3
MEAN	8.43	8.89	11.2	11.9	19.9	19.5	23.3	12.1	5.32	3.45	3.37	3.98
MAX	10	10	31	30	59	50	28	20	7.3	4.3	3.6	4.5
MIN	7.0	7.7	9.3	9.3	11	13	20	7.5	4.1	2.9	3.1	3.5
AC-FT	518	529	690	732	1100	1200	1390	744	317	212	207	237
CAL YR 1980	TOTAL	13478.3	MEAN	36.8	MAX	534	MIN	1.8	AC-FT	26730		
WTR YR 1981	TOTAL	3973.3	MEAN	10.9	MAX	59	MIN	2.9	AC-FT	7880		

PYRAMID AND WINNEMUCCA LAKES BASIN
10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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, 0.5°C Jan. 13, 14, Feb. 20, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 23.5°C on several days during June to August; minimum recorded, 1.0°C Jan. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	ALKA- LITY FIELD (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 17...	1400	9.3	135	8.0	7.0	10.4	68	.18	.140	.86	1.0	.030
APR 02...	1150	26	111	7.0	8.5	9.8	46	1.8	.050	.71	2.5	.060
JUN 03...	1257	6.7	117	9.1	19.5	9.4	60	.51	.080	1.00	1.5	.050
AUG 05...	1530	3.2	130	9.2	22.5	8.8	71	.61	.210	1.10	1.7	.060

DATE	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)	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 17...	.030	3	3	290	90	15	6	40	30	70	40
APR 02...	.030	7	1	700	160	24	10	40	10	130	--
JUN 03...	.040	5	2	190	30	--	--	30	10	40	6
AUG 05...	.040	4	2	350	110	21	1	60	15	60	12

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	4.5	2.5	5.5	3.0	3.5	1.5	---	---
2	15.5	11.7	---	---	4.0	3.0	5.0	3.0	3.5	2.0	---	---
3	15.5	11.5	---	---	4.0	3.0	5.5	3.0	3.5	1.5	6.0	3.5
4	16.0	12.0	---	---	3.5	2.5	5.0	3.5	4.0	2.0	5.5	4.0
5	16.0	12.0	---	---	3.0	2.5	5.0	4.0	4.0	2.0	5.5	4.0
6	16.0	12.5	9.5	6.5	4.0	2.0	5.0	3.5	4.0	2.0	6.5	4.0
7	16.0	12.0	10.0	7.0	4.0	2.5	5.0	3.0	---	---	6.5	4.5
8	16.0	12.0	10.0	7.5	4.5	2.5	4.5	3.0	---	---	7.0	4.5
9	16.0	12.0	9.5	7.0	5.0	2.5	5.0	2.5	---	---	8.0	4.5
10	16.0	12.0	8.5	7.5	5.0	2.5	5.0	2.5	---	---	8.0	5.5
11	15.5	12.0	8.0	7.0	5.0	3.0	4.5	3.0	---	---	8.5	5.0
12	15.0	12.0	8.5	6.5	5.5	3.0	4.5	3.0	---	---	8.5	5.5
13	13.0	10.5	8.0	6.0	5.0	3.0	5.5	3.0	---	---	7.5	5.5
14	13.0	10.5	8.0	5.5	5.5	3.0	5.5	3.5	---	---	9.0	6.0
15	12.0	10.0	7.5	5.5	5.5	3.5	5.5	3.5	---	---	7.5	6.0
16	---	---	6.5	5.0	5.5	3.5	5.5	4.0	---	---	8.5	6.0
17	---	---	7.0	4.5	5.5	3.5	5.5	4.0	---	---	8.5	5.5
18	---	---	6.5	4.0	5.0	4.0	6.0	4.0	---	---	7.0	6.0
19	---	---	6.5	4.5	5.5	3.5	6.0	4.0	---	---	7.0	6.0
20	---	---	6.0	4.0	5.5	3.5	5.5	4.0	---	---	8.0	5.5
21	---	---	5.5	3.5	5.0	3.5	6.0	4.5	---	---	8.0	6.0
22	---	---	5.5	4.0	5.5	3.5	6.0	4.5	---	---	8.5	6.5
23	---	---	5.5	4.0	5.0	3.0	5.5	4.5	---	---	9.0	6.5
24	---	---	5.5	3.5	5.0	3.5	5.5	4.0	---	---	8.5	6.5
25	---	---	4.5	3.0	5.5	4.0	5.5	3.5	---	---	8.0	6.5
26	---	---	5.0	2.5	5.5	4.0	5.0	3.5	---	---	7.5	6.0
27	---	---	5.5	3.0	6.0	4.0	4.0	2.5	---	---	6.5	5.5
28	---	---	6.0	3.0	6.0	4.0	3.0	1.5	---	---	7.5	5.0
29	---	---	5.5	3.5	6.0	4.0	2.5	1.0	---	---	7.0	5.5
30	---	---	4.0	2.5	6.0	3.5	3.0	1.5	---	---	7.0	5.0
31	---	---	---	---	5.5	3.5	3.5	1.5	---	---	8.0	5.0
MONTH	---	---	10.0	2.5	6.0	2.0	6.0	1.0	---	---	9.0	3.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	5.5	16.5	13.0	19.0	14.5	23.5	16.5	---	---	21.5	15.5
2	8.0	6.0	16.0	13.5	19.0	15.0	23.5	17.0	---	---	22.0	15.0
3	8.0	6.0	16.0	13.5	19.5	14.5	23.5	17.5	---	---	21.5	15.0
4	8.5	6.0	16.0	13.0	20.0	15.0	23.5	17.5	---	---	---	---
5	10.0	6.5	15.5	12.5	20.0	15.5	22.5	18.0	---	---	---	---
6	10.5	7.5	15.0	12.0	21.0	15.5	23.0	17.5	23.0	15.0	---	---
7	10.0	8.0	15.0	11.5	21.0	16.0	23.0	17.0	22.5	15.5	---	---
8	11.5	8.5	15.5	12.0	18.0	16.0	22.5	16.0	23.0	15.5	---	---
9	11.0	9.0	15.5	12.0	20.0	15.5	22.5	16.0	23.0	16.0	---	---
10	11.5	9.0	16.0	12.5	19.5	15.0	22.0	16.0	22.5	16.5	---	---
11	11.0	8.5	16.5	12.5	20.0	15.0	22.5	15.5	23.0	16.0	---	---
12	11.0	8.5	16.5	12.5	19.0	14.0	---	---	23.0	16.0	---	---
13	12.0	9.0	17.0	13.0	18.5	13.5	---	---	23.5	16.5	---	---
14	12.5	9.0	16.5	13.5	18.5	13.5	---	---	23.0	16.5	---	---
15	12.5	10.0	16.5	13.5	19.0	13.5	---	---	23.5	16.0	---	---
16	12.5	10.0	16.0	12.5	19.5	14.0	---	---	23.5	16.0	---	---
17	12.5	10.0	15.0	12.0	20.0	14.0	---	---	21.0	17.0	---	---
18	11.5	10.5	13.5	12.5	20.5	14.5	---	---	22.0	16.5	---	---
19	11.0	10.0	14.5	12.0	20.5	15.0	---	---	22.5	16.5	---	---
20	11.0	9.5	14.0	12.0	21.0	15.0	---	---	22.0	16.0	---	---
21	10.5	9.5	15.0	12.0	21.5	15.0	---	---	22.5	15.5	---	---
22	12.5	9.0	15.0	12.0	21.5	15.5	---	---	22.5	15.5	---	---
23	13.5	10.5	15.0	12.5	21.5	15.5	---	---	22.0	15.0	---	---
24	14.5	12.0	15.5	13.0	22.0	15.5	---	---	21.5	15.5	---	---
25	13.5	12.0	14.5	13.0	22.5	17.0	---	---	21.5	15.0	---	---
26	13.5	11.0	16.0	13.0	23.0	16.5	---	---	23.0	15.5	---	---
27	13.5	10.5	16.5	13.0	23.0	16.5	---	---	22.5	15.5	---	---
28	13.5	10.5	17.0	13.0	23.5	16.5	---	---	22.0	16.0	---	---
29	14.5	11.5	17.5	13.5	23.5	16.5	---	---	22.0	15.5	---	---
30	16.0	12.5	19.0	14.0	23.0	17.0	---	---	22.5	16.0	---	---
31	---	---	19.0	14.0	---	---	---	---	22.0	15.0	---	---
MONTH	16.0	5.5	19.0	11.5	23.5	13.5	---	---	23.5	15.0	---	---
YEAR	23.5	1.0										

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 17...	1400	9.3	7.0	2	.05
APR 02...	1150	26	8.5	11	.77
JUN 03...	1257	6.7	19.5	2	.04
AUG 05...	1530	3.2	22.5	12	.10

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.--Water-stage recorder with surface follower and telemark. 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 elevations, 5,660.6 ft (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm³), includes 83 acre-ft (102,000 m³) dead storage, below elevation 5,660.6 ft (1,725.35 m). Elevation of streambed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 32,269 acre-ft (39.8 hm³) June 1, 1973, elevation 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 elevation 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, 16,543 acre-ft (20.4 hm³) June 8, elevation 5,719.80 ft (1,743.395 m); minimum observed, 8,969 acre-ft (11.1 hm³) Feb. 4, elevation 5,701.07 ft (1,737.686 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	5713.73	13702	--
Oct. 31	5701.84	9216	-4486
Nov. 30	5702.10	9300	+84
Dec. 31	5702.10	9300	0
CAL YR 1980	--	--	-239
Jan. 31	5702.45	9414	+114
Feb. 28	5701.70	9171	-243
Mar. 31	5702.65	9480	+309
Apr. 30	5709.45	11932	+2452
May 31	5717.22	15286	+3354
June 30	5718.61	15955	+669
July 31	5718.08	15696	-259
Aug. 31	5717.33	12338	-358
Sep. 30	5711.57	12785	-2553
WTR YR 1980-81	--	--	-917

PYRAMID AND WINNEMUCCA LAKES BASIN

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.--37 years (1942-50, 1952-81), 84.5 ft³/s (2.393 m³/s), 61,220 acre-ft/yr (75.5 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, 264 ft³/s (7.48 m³/s) Oct. 6, gage height, 4.13 ft (1.259 m); minimum daily, 5.0 ft³/s (0.14 m³/s) May 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	40	42	47	75	43	42	119	5.6	11	7.1	9.5
2	62	40	42	47	75	42	41	126	5.8	11	7.1	11
3	143	23	42	47	76	42	60	126	5.7	11	7.1	10
4	198	9.3	43	47	39	42	74	111	5.6	11	7.1	10
5	196	9.3	42	47	12	42	74	103	8.9	11	7.1	10
6	224	9.3	42	43	12	42	54	66	11	12	7.1	10
7	241	9.7	42	23	12	42	41	41	11	12	7.1	11
8	238	9.5	43	9.8	12	42	61	23	44	12	7.1	11
9	237	9.3	43	9.8	12	42	75	10	68	12	7.1	31
10	98	9.3	24	9.8	12	42	89	10	169	12	7.0	44
11	10	9.8	11	10	12	42	98	10	162	12	7.5	71
12	10	9.8	11	10	12	42	98	10	53	11	7.7	87
13	9.8	9.8	11	10	13	21	85	10	43	9.3	7.3	86
14	10	9.8	11	10	16	6.0	76	10	43	7.3	7.3	86
15	10	9.8	11	10	13	5.8	55	56	43	7.3	7.3	86
16	10	9.9	11	10	62	5.8	42	90	43	7.3	7.3	62
17	41	25	11	10	102	5.7	61	89	44	7.3	7.3	44
18	59	35	11	10	145	5.6	77	41	44	7.4	6.9	68
19	59	21	11	10	173	6.3	77	5.7	25	7.5	6.6	85
20	59	10	11	10	130	61	90	52	12	7.3	6.6	84
21	59	10	11	11	103	99	100	83	12	7.3	6.6	84
22	59	10	11	12	103	99	100	82	27	7.3	6.3	84
23	59	10	11	12	102	84	100	82	39	7.3	6.5	60
24	59	10	32	12	102	75	65	83	39	7.3	6.6	44
25	59	10	47	12	102	56	42	37	38	7.3	6.6	43
26	59	10	47	29	101	42	42	5.0	22	7.3	6.6	43
27	48	10	47	44	47	91	109	51	11	7.3	6.3	43
28	38	29	47	61	30	123	153	83	11	7.3	6.3	23
29	23	42	47	75	---	123	85	98	11	7.3	6.3	10
30	9.3	42	47	75	---	72	79	108	11	7.3	6.3	10
31	26	---	47	73	---	42	---	47	---	7.3	6.3	---
TOTAL	2477.1	501.6	909	846.4	1705	1528.2	2245	1867.7	1067.6	279.0	213.4	1360.5
MEAN	79.9	16.7	29.3	27.3	60.9	49.3	74.8	60.2	35.6	9.00	6.88	45.4
MAX	241	42	47	75	173	123	153	126	169	12	7.7	87
MIN	9.3	9.3	11	9.8	12	5.6	41	5.0	5.6	7.3	6.3	9.5
AC-FT	4910	995	1800	1680	3380	3030	4450	3700	2120	553	423	2700
CAL YR 1980	TOTAL	43295.7	MEAN	118	MAX	1490	MIN	9.3	AC-FT	85880		
WTR YR 1981	TOTAL	15000.5	MEAN	41.1	MAX	241	MIN	5.0	AC-FT	29750		

PYRAMID AND WINNEMUCCA LAKES BASIN

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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 fair October to November, poor thereafter. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft (21.6 hm³).

AVERAGE DISCHARGE (unadjusted).--18 years (water years 1903-7, 1969-81), 26.6 ft³/s (0.753 m³/s), 19,270 acre-ft/yr (23.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 286 ft³/s (8.10 m³/s) June 23, 1907, gage height, 3.9 ft (1.19 m) site and datum then in use; no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft³/s (2.32 m³/s) Nov. 7, gage height, 3.52 ft (1.073 m); maximum gage height, 4.67 ft (1.423 m) Oct. 22, backwater from beaver dam; minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	61	14	8.5	5.9	3.8	6.4	4.4	3.9	3.7	2.3	1.9
2	20	61	14	8.4	5.8	3.8	6.3	4.4	3.8	4.0	2.3	1.8
3	20	61	14	8.3	5.7	3.8	6.5	4.3	3.8	3.8	2.3	1.8
4	20	61	13	8.1	5.6	3.8	6.5	4.3	3.8	3.7	2.3	1.8
5	20	60	13	8.0	5.5	3.8	7.0	4.3	3.8	3.7	2.2	1.8
6	20	71	13	7.9	5.4	3.8	7.3	4.3	3.8	3.6	2.2	1.7
7	20	82	13	7.8	5.3	3.9	7.3	4.3	3.8	3.6	2.2	1.7
8	21	80	13	7.7	5.2	4.2	7.5	4.3	3.7	3.6	2.2	1.7
9	20	79	12	7.6	5.1	4.0	7.6	4.2	3.7	3.6	2.2	1.6
10	20	78	12	7.5	5.0	4.1	7.4	4.2	3.7	3.5	2.2	1.6
11	20	79	12	7.4	4.9	4.2	6.6	4.2	3.7	3.5	2.1	1.6
12	20	79	12	7.3	4.8	4.4	6.4	4.2	3.7	3.5	2.1	1.6
13	20	77	12	7.5	4.8	4.6	6.6	4.2	3.7	3.4	2.1	1.5
14	19	76	11	7.5	4.7	4.7	6.8	4.1	3.7	3.4	2.1	1.5
15	19	76	11	7.5	4.6	4.8	6.2	4.1	3.7	3.3	2.1	1.5
16	19	75	11	7.6	4.6	4.9	6.6	4.1	3.8	3.3	2.1	1.4
17	18	74	11	7.6	4.5	4.8	6.4	4.1	3.8	3.2	2.0	1.4
18	18	74	11	7.8	4.4	5.0	6.1	4.1	3.8	3.2	2.0	1.4
19	18	73	10	8.3	4.4	5.2	5.7	4.1	3.8	3.1	2.0	1.3
20	17	72	10	7.8	4.3	5.2	5.6	4.1	3.8	3.1	2.0	1.3
21	17	72	10	8.1	4.2	5.2	5.3	4.0	3.8	3.0	2.0	1.3
22	16	71	10	7.5	4.2	5.5	5.8	4.0	3.8	2.9	2.0	1.2
23	31	71	9.8	7.3	4.1	5.8	5.5	4.0	3.7	2.8	2.0	1.2
24	45	40	9.6	7.2	4.1	6.0	5.0	4.0	3.8	2.8	1.9	1.2
25	56	16	9.4	7.0	4.0	6.5	4.5	4.0	4.2	2.7	1.9	1.1
26	62	16	9.3	6.8	4.0	6.4	4.5	4.0	4.3	2.6	1.9	1.1
27	62	15	9.2	6.7	3.9	6.3	4.5	3.9	3.9	2.6	1.9	1.1
28	61	15	9.0	6.5	3.9	6.5	4.4	3.9	3.8	2.5	1.9	1.0
29	61	15	8.9	6.4	---	6.7	4.4	3.9	3.7	2.5	1.9	1.0
30	61	14	8.8	6.2	---	6.7	4.4	3.9	3.7	2.3	1.9	1.0
31	61	---	8.6	6.1	---	6.3	---	3.9	---	2.3	1.9	---
TOTAL	922	1794	344.6	231.9	132.9	154.7	181.1	127.8	114.0	98.8	64.2	43.1
MEAN	29.7	59.8	11.1	7.48	4.75	4.99	6.04	4.12	3.80	3.19	2.07	1.44
MAX	62	82	14	8.5	5.9	6.7	7.6	4.4	4.3	4.0	2.3	1.9
MIN	16	14	8.6	6.1	3.9	3.8	4.4	3.9	3.7	2.3	1.9	1.0
AC-FT	1830	3560	684	460	264	307	359	253	226	196	127	85
CAL YR 1980	TOTAL	12873.6	MEAN	35.2	MAX	146	MIN	8.6	AC-FT	25530		
WTR YR 1981	TOTAL	4209.1	MEAN	11.5	MAX	82	MIN	1.0	AC-FT	8350		

PYRAMID AND WINNEMUCCA LAKES BASIN

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.--28 years, 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 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.--Maximum discharge, 33 ft³/s (0.93 m³/s) Apr. 24, gage height, 2.39 ft (0.728 m), no peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 1.3 ft³/s (0.037 m³/s) on many days during August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.6	3.1	3.1	3.7	4.7	7.5	20	5.5	1.9	1.4	1.4
2	2.3	2.6	3.8	3.1	3.6	4.6	7.1	18	5.4	1.9	1.4	1.4
3	2.3	2.6	5.6	3.4	3.7	4.6	7.0	15	5.1	1.8	1.4	1.4
4	2.3	2.6	7.6	3.6	3.6	4.7	7.6	14	4.7	1.8	1.4	1.4
5	2.3	2.6	4.1	3.5	3.5	4.5	9.8	13	4.5	1.7	1.4	1.4
6	2.3	2.6	3.6	3.2	3.4	4.6	12	11	4.3	1.7	1.4	1.4
7	2.2	3.2	3.3	3.1	3.4	4.5	12	11	4.0	1.7	1.3	1.4
8	2.2	3.7	3.1	3.0	3.4	4.6	12	10	4.0	1.6	1.3	1.5
9	2.3	2.9	3.0	3.0	3.4	4.8	14	10	3.8	1.6	1.3	1.5
10	2.3	2.8	2.9	2.9	3.4	5.1	14	9.6	3.5	1.6	1.3	1.4
11	2.3	3.4	2.8	2.8	3.5	5.4	12	9.0	3.4	1.6	1.3	1.5
12	4.0	3.3	2.8	2.8	3.6	5.4	12	8.5	3.4	1.6	1.3	1.5
13	2.9	3.0	2.8	2.9	6.3	5.4	14	8.2	3.3	1.6	1.3	1.5
14	3.2	2.8	2.8	2.9	2.2	5.2	16	9.0	3.2	1.6	1.3	1.5
15	3.1	2.9	2.9	2.9	9.6	5.2	17	8.8	3.0	1.5	1.3	1.5
16	3.2	2.7	2.9	3.0	8.3	5.1	19	8.0	2.9	1.5	1.3	1.5
17	3.0	2.8	3.0	3.0	9.1	5.0	20	7.3	2.8	1.5	1.4	1.5
18	2.9	2.7	3.2	3.1	7.8	4.9	19	19	2.6	1.5	1.4	1.5
19	2.8	2.7	3.2	3.1	9.9	5.3	18	13	2.6	1.5	1.3	1.5
20	2.7	2.7	3.2	3.2	8.7	5.0	16	9.7	2.6	1.5	1.3	1.5
21	2.7	2.7	4.0	3.8	7.0	5.2	17	8.5	2.6	1.4	1.3	1.5
22	2.7	2.9	4.5	4.3	6.4	5.6	20	7.9	2.4	1.4	1.3	1.5
23	2.6	2.9	3.7	4.4	6.2	5.7	23	7.5	2.3	1.4	1.3	1.5
24	2.6	2.8	3.4	3.7	6.0	5.9	26	7.3	2.3	1.4	1.3	1.6
25	3.3	2.7	4.0	3.4	5.7	14	24	8.6	2.2	1.4	1.3	2.3
26	3.4	2.7	4.2	3.4	5.2	11	21	10	2.2	1.4	1.3	1.7
27	3.1	2.7	4.3	4.0	5.0	8.0	17	8.1	2.1	1.4	1.3	1.7
28	2.8	2.8	3.9	4.0	4.9	8.5	18	7.0	2.1	1.4	1.3	1.7
29	2.8	2.8	3.6	3.9	---	8.6	19	6.6	2.0	1.4	1.3	1.7
30	2.7	3.1	3.5	3.9	---	7.9	20	6.3	2.0	1.4	1.3	1.6
31	2.7	---	3.3	3.9	---	7.4	---	5.8	---	1.4	1.3	---
TOTAL	84.3	85.3	112.1	104.3	170.3	186.4	471.0	315.7	96.8	48.1	41.1	46.0
MEAN	2.72	2.84	3.62	3.36	6.08	6.01	15.7	10.2	3.23	1.55	1.33	1.53
MAX	4.0	3.7	7.6	4.4	22	14	26	20	5.5	1.9	1.4	2.3
MIN	2.2	2.6	2.8	2.8	3.4	4.5	7.0	5.8	2.0	1.4	1.3	1.4
AC-FT	167	169	222	207	338	370	934	626	192	95	82	91

CAL YR 1980	TOTAL	6401.8	MEAN	17.5	MAX	173	MIN	2.2	AC-FT	12700
WTR YR 1981	TOTAL	1761.4	MEAN	4.83	MAX	26	MIN	1.3	AC-FT	3490

PYRAMID AND WINNEMUCCA LAKES BASIN

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10343500 SAGEHEN CREEK NFAR TRUCKEE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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...	1600	2.2	10.0	9	.05
13...	0740	3.0	--	2	.02
20...	0845	2.7	--	2	.01
27...	0930	3.1	--	2	.02
NOV					
03...	0920	2.6	--	1	.01
10...	0830	2.8	--	2	.02
17...	0950	2.7	--	2	.01
24...	0900	2.6	--	1	.01
DEC					
01...	1400	3.1	--	3	.03
03...	0800	3.6	--	3	.03
22...	1220	4.3	--	4	.05
29...	0900	3.6	--	3	.03
JAN					
05...	1300	3.4	--	2	.02
17...	1015	3.0	--	1	.01
19...	1538	3.1	--	4	.03
28...	1030	4.3	--	40	.46
FEB					
02...	1550	3.6	--	2	.02
14...	1530	21	--	11	.62
18...	1415	7.6	--	3	.06
24...	1430	6.2	--	3	.05
MAR					
02...	1515	4.7	--	2	.03
09...	1130	4.7	--	1	.01
17...	0915	5.7	--	2	.03
24...	1200	5.1	--	2	.03
30...	1030	7.9	--	5	.11
APR					
05...	1630	13	--	3	.11
06...	1630	15	--	5	.20
13...	1020	11	--	6	.18
16...	1750	24	--	9	.58
17...	1820	24	--	6	.39
18...	1740	19	--	2	.10
20...	1710	19	--	4	.21
22...	1550	24	--	10	.65
23...	1655	31	--	23	1.9
24...	0930	22	--	4	.24
24...	1700	33	--	20	1.8
25...	1840	26	--	5	.35
27...	0910	16	--	2	.09
27...	1825	19	--	3	.15
28...	1900	23	--	4	.25
29...	1930	23	--	3	.19
30...	2040	24	--	4	.26
MAY					
01...	1800	24	--	4	.26
04...	0835	14	--	1	.04
09...	1630	9.7	11.0	3	.08
11...	1130	9.0	--	3	.07
13...	1830	8.2	--	9	.20
17...	1645	7.1	8.5	2	.04
18...	1130	25	--	15	1.0
18...	1615	30	6.0	21	1.7
25...	1130	9.0	--	2	.05
JUN					
01...	1335	5.5	--	2	.03
08...	0900	4.1	--	2	.02
15...	1115	3.3	--	1	.01
22...	1030	3.1	--	2	.02
29...	0830	2.1	--	2	.01
JUL					
06...	0800	1.7	--	2	.01
13...	0950	1.6	--	1	.00
20...	0900	1.6	--	1	.00
27...	0840	1.5	--	1	.00
AUG					
03...	1315	1.4	--	2	.01
10...	0900	1.4	--	3	.01
17...	0950	1.4	--	3	.01
24...	1410	1.3	--	1	.00
31...	0615	1.3	--	0	.00
SEP					
07...	0815	1.5	--	0	.00
14...	1015	1.6	--	0	.00
21...	0830	1.6	--	2	.01
28...	1030	1.7	--	2	.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10344300 STAMPEDE RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°28'24", long 120°06'06", in SW¼NW¼ 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 elevations 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 elevation 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm³), includes 660 acre-ft (814,000 m³) dead storage, below elevation 5,798.3 ft (1,767.32 m). 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, elevation, 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, elevation, 5,853.60 ft (1,784.177 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 146,344 acre-ft (180 hm³) Dec. 4, elevation, 5,922.37 ft (1,805.138 m); minimum, 70,893 acre-ft (87.4 hm³) Sept. 30, elevation, 5,886.95 ft (1,794.342 m).

Capacity table (elevation, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145445	144682	145947	141288	142093	142483	142640	142353	80508	76573	74574	72625
2	145405	144603	146013	141262	142119	142327	142692	141495	80311	76512	74498	72542
3	145366	144524	146079	141297	142015	142171	142744	140483	80204	76452	74422	72475
4	145348	144392	146344	141332	141911	142015	142944	139472	80151	76423	74337	72409
5	145330	144261	146105	141366	141742	141898	143144	137504	80222	76394	74252	72354
6	145313	144209	145824	141340	141573	141781	143345	136818	80275	76366	74210	72299
7	145287	144157	145543	141314	141478	141634	143489	134798	80320	76271	74168	72243
8	145261	144253	145261	141249	141383	141487	143632	132523	80365	76177	74117	72185
9	145221	144349	145089	141184	141288	141340	143777	130089	80383	76099	74066	72127
10	145182	144445	144918	141184	141132	141132	143921	127655	80400	76022	74016	72094
11	145112	144643	144721	141184	140977	140925	144052	125221	80391	75932	73965	72061
12	145042	144840	144524	141184	140850	140796	144183	121567	80382	75842	73915	72000
13	144971	144919	144105	141223	140744	140667	144314	120273	80275	75751	73856	71939
14	144905	144997	143686	141262	140865	140572	144538	117773	80159	75708	73797	71879
15	144840	145076	143266	141184	140986	140477	144761	115273	80044	75665	73724	71821
16	144919	145155	142966	141107	141107	140382	144985	112277	79902	75613	73651	71764
17	144997	145234	142666	141150	141327	140382	145208	109478	79635	75562	73578	71722
18	144962	145327	142353	141193	141547	140382	145630	106680	79493	75494	73519	71681
19	144927	145419	142041	141236	141742	140525	145709	103925	79157	75426	73461	71610
20	144892	145525	141859	141249	141937	140667	145498	101170	78858	75357	73394	71539
21	144892	145630	141677	141262	142119	140770	145076	98215	78559	75297	73327	71467
22	144892	145709	141495	141353	142301	140874	144577	95261	78260	75237	73266	71401
23	144866	145788	141417	141444	142483	140977	144301	92090	77810	75186	73205	71336
24	144840	145868	141340	141418	142588	141029	144025	89609	77631	75135	73143	71286
25	144945	145868	141314	141392	142692	141081	143894	87437	77345	75067	73059	71237
26	145050	145868	141288	141366	142613	141431	143842	85450	77040	74999	72976	71193
27	145155	145828	141245	141730	142535	141781	143790	84191	76798	74931	72917	71149
28	145050	145788	141202	142093	142562	141902	143436	83036	76729	74863	72859	71106
29	144945	145868	141158	142106	---	142023	143083	82163	76677	74795	72798	71057
30	144853	145947	141171	142119	---	142145	142822	81386	76642	74718	72737	70893
31	144761	---	141184	142223	---	142249	---	80865	---	74642	72675	---
MAX	145445	145947	146344	142223	142692	142483	145709	142353	80508	76573	74574	72625
MIN	144761	144157	141158	141107	140744	140382	142640	80865	76642	74642	72675	70893
†	5921.77	5922.22	5920.40	5920.80	5920.93	5920.81	5921.03	5892.77	5890.37	5889.20	5888.03	5886.95
‡	-684	+1186	-4763	+1039	+339	-313	+573	-61957	-4223	-2000	-1967	-1782
CAL YR 1980	MAX	165047	MIN	59752	‡	+81733						
WTR YR 1981	MAX	146344	MIN	70893	‡	-74552						

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

‡ Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

279

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

LOCATION.--Lat 39°26'09", long 120°05'00", in SW¼SW¼ sec.3, T.18 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 excellent. 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).--49 years (water years 1904-10, 1940-81), 185 ft³/s (5.239 m³/s), 134,000 acre-ft/yr (165 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, 1,750 ft³/s (49.6 m³/s) May 18, gage height, 3.22 ft (0.981 m); minimum, 24 ft³/s (0.68 m³/s) on many days during July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	108	33	34	79	118	38	637	240	25	24	26
2	31	108	34	38	87	128	38	734	174	25	24	26
3	32	124	45	43	87	128	38	773	125	25	25	26
4	32	141	109	43	96	128	37	773	88	25	24	26
5	32	123	250	42	103	128	37	830	64	24	24	26
6	32	110	109	42	103	128	37	1100	41	24	24	26
7	32	67	108	42	103	128	37	1250	30	24	24	26
8	32	35	108	42	103	128	37	1360	29	24	24	26
9	31	34	108	39	103	128	37	1390	29	24	25	26
10	31	35	108	34	103	128	37	1420	28	24	25	26
11	31	35	134	34	103	128	36	1440	28	24	25	26
12	33	35	189	34	103	128	36	1500	38	24	25	26
13	32	34	212	34	94	130	36	1530	56	24	25	26
14	33	34	212	34	92	128	36	1540	62	24	25	26
15	33	34	211	34	87	128	37	1580	90	24	25	26
16	34	34	211	34	59	75	37	1660	119	24	25	26
17	33	34	211	34	41	38	37	1680	125	24	25	26
18	32	34	212	34	41	37	94	1710	143	24	25	26
19	32	32	165	34	41	38	265	1700	151	24	25	26
20	32	32	108	34	40	37	303	1690	151	24	25	26
21	32	32	108	34	38	37	364	1690	152	24	25	26
22	32	32	107	34	38	37	404	1610	155	24	25	26
23	32	32	106	34	37	37	405	1470	155	24	25	26
24	32	32	87	34	38	37	445	1410	154	24	25	26
25	32	32	57	34	66	41	403	1250	154	24	25	27
26	32	32	57	39	85	41	289	1010	138	24	25	26
27	50	32	57	48	96	40	329	770	86	24	25	26
28	108	32	57	47	105	40	359	639	37	24	25	26
29	110	32	49	46	---	40	410	532	25	24	25	63
30	153	34	34	57	---	40	538	437	25	24	25	158
31	141	---	34	68	---	38	---	336	---	24	25	---
TOTAL	1393	1545	3630	1214	2171	2565	5236	37451	2892	748	768	950
MEAN	44.9	51.5	117	39.2	77.5	82.7	175	1208	96.4	24.1	24.8	31.7
MAX	153	141	250	68	105	130	538	1710	240	25	25	158
MIN	29	32	33	34	37	37	36	336	25	24	24	26
AC-FT	2760	3060	7200	2410	4310	5090	10390	74280	5740	1480	1520	1880
CAL YR 1980	TOTAL	48778.6	MEAN 133	MAX 1630	MIN 5.4	AC-FT 96750						
WTR YR 1981	TOTAL	60563.0	MEAN 166	MAX 1710	MIN 24	AC-FT 120100						

PYRAMID AND WINNEMUCCA LAKES BASIN

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 elevations 5,521 ft (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m) top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m³), below outlet sill. Figures given herein represent usable contents 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, elevation, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m³) Mar. 4-9, 1955, elevation, 5,521.65 ft (1,682.999 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 35,579 acre-ft (43.9 hm³) May 16, elevation, 5,599.40 ft (1,706.697 m); minimum, 17,105 acre-ft (21.1 hm³) Jan. 26, 30, 31, elevation, 5,575.60 ft (1,699.443 m).

Capacity table (elevation, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29723	24572	18425	18755	17422	21685	27003	28387	31850	28223	29177	28141
2	29386	24611	18196	18589	17614	21972	27124	28511	31177	28264	29218	28141
3	28968	24649	18066	18491	17742	22225	27205	28760	30488	28305	29218	28099
4	28885	24726	18066	18392	17871	22517	27245	29051	29765	28387	29218	28099
5	28801	24802	18131	18327	18066	22773	27326	29135	29135	28429	29218	28099
6	28760	24879	18458	18196	18327	23068	27407	29428	28305	28470	29218	28099
7	28760	24802	18524	18066	18524	23365	27488	30232	27732	28470	29218	28058
8	28843	24649	18556	17936	18722	23664	27569	31264	27245	28470	29218	28058
9	28885	24306	18556	17775	18921	23889	27650	32326	26763	28511	29218	28058
10	28926	24040	18589	17678	19054	24192	27732	33290	26325	28511	29218	28058
11	28429	23589	18589	17614	19188	24420	27772	33867	26285	28511	29218	28058
12	27854	23365	18589	17422	19390	24687	27813	34358	26127	28553	29218	28099
13	27407	22994	18722	17359	19593	24918	27854	34808	25891	28553	29218	28099
14	26883	22700	18954	17295	19763	25188	27895	35124	25734	28635	29218	28099
15	26484	22407	19054	17232	19866	25421	27895	35442	25538	28677	29218	28099
16	25891	22189	19188	17232	20023	25694	27895	35579	25499	28718	29218	28099
17	25421	22008	19262	17232	20347	25718	27977	35442	25616	28760	29218	28099
18	25034	21721	19593	17232	20382	25734	28017	35351	25812	28760	29218	28099
19	24611	21435	19661	17232	20520	25812	27732	34943	26166	28801	29218	28099
20	24230	21151	19695	17232	20569	25891	27732	34853	26523	28843	29218	28099
21	23814	20835	19661	17232	20625	25969	27854	34853	26683	28885	29135	28058
22	23701	20590	19627	17232	20695	26048	27977	34943	26963	28885	29177	28058
23	23739	20278	19593	17232	20765	26048	28223	34853	27124	28926	29177	28058
24	23776	20037	19525	17168	20870	26127	28429	34492	27326	28968	29051	28058
25	23852	19661	19424	17168	20975	26206	29135	34492	27569	29009	28760	28058
26	23927	19323	19323	17105	21116	26364	29302	34672	27813	29051	28511	28099
27	24002	19121	19390	17168	21258	26523	28926	34492	28058	29051	28223	28099
28	24078	18854	19255	17232	21471	26603	28718	34224	28182	29051	28182	28099
29	24116	18755	19121	17168	---	26723	28387	33778	28223	29093	28182	28141
30	24306	18589	18988	17105	---	26843	28223	33158	28223	29093	28141	28223
31	24534	---	18854	17105	---	26923	---	32457	---	29135	28141	---
MAX	29723	24879	19695	18755	21471	26923	29302	35579	31850	29135	29218	28223
MIN	23701	18589	18066	17105	17422	21685	27003	28387	25499	28223	28141	28058
†	5586.25	5577.90	5578.30	5575.60	5582.10	5589.30	5590.90	5595.90	5590.90	5592.00	5590.80	5590.90
‡	-5741	-5945	+265	-1749	+4366	+5452	+1300	+4234	-4234	+912	-994	+82

CAL YR 1980 ‡ +5170
WTR YR 1981 ‡ -2052

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

PYRAMID AND WINNEMUCCA LAKES BASIN

281

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).--46 years (water years 1912-15, 1940-81), 182 ft³/s (5.154 m³/s), 131,900 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, 1,890 ft³/s (53.5 m³/s) May 18, gage height, 5.55 ft (1.692 m); minimum daily, 0.40 ft³/s (0.011 m³/s) Feb. 4-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	99	122	100	.45	.45	.59	586	552	.74	.78	17
2	187	79	122	100	.45	.45	.61	629	509	.76	.78	17
3	126	77	110	100	.45	.45	.61	631	467	.74	9.3	17
4	60	98	100	100	.40	.45	.61	717	420	.70	18	17
5	60	110	86	101	.40	.45	.61	752	413	.71	18	17
6	33	118	67	102	.40	.45	.65	727	370	.70	18	17
7	.80	140	67	109	.40	.45	.67	732	278	.70	18	17
8	.80	159	79	119	16	.49	.67	789	245	.70	18	17
9	.80	159	108	106	42	.50	.67	895	244	.70	18	17
10	155	181	118	92	42	.50	.67	1010	134	.71	18	17
11	294	196	128	91	26	.50	.68	1130	47	.70	18	17
12	270	189	133	80	11	.50	.67	1190	120	.67	18	17
13	265	185	140	69	11	2.3	18	1250	145	.71	18	17
14	264	172	141	56	11	16	38	1270	141	.78	18	17
15	281	161	141	41	11	16	23	1370	125	.78	18	17
16	291	160	142	41	11	16	.95	1590	87	.78	18	17
17	247	160	142	41	11	16	21	1660	28	.78	18	17
18	227	160	142	41	4.0	16	230	1750	.73	.79	18	17
19	228	173	135	41	.45	16	298	1730	13	.80	18	17
20	228	179	129	41	.45	9.7	301	1580	24	.79	18	17
21	161	179	129	41	.45	.50	301	1580	28	.78	18	17
22	21	179	129	41	.45	.50	313	1580	43	.78	18	17
23	.45	179	128	41	.45	.50	323	1570	43	.78	31	17
24	.45	179	122	41	.45	.50	219	1440	32	.78	130	17
25	.50	178	114	41	.45	.58	196	1160	24	.77	148	17
26	.50	168	88	41	.45	.56	401	1060	15	.77	148	17
27	18	148	67	42	.45	.56	508	940	.78	.78	86	17
28	45	135	122	42	.45	.55	507	837	.77	.75	26	17
29	45	122	111	42	---	.57	516	833	.76	.75	16	17
30	45	122	100	42	---	.56	524	786	.76	.77	17	53
31	71	---	100	18	---	.55	---	669	---	.77	17	---
TOTAL	3878.30	4544	3562	2003	203.45	119.57	4745.66	34443	4550.80	23.22	971.86	546
MEAN	125	151	115	64.6	7.27	3.86	158	1111	152	.75	31.4	18.2
MAX	294	196	142	119	42	16	524	1750	552	.80	148	53
MIN	.45	77	67	18	.40	.45	.59	586	.73	.67	.78	17
AC-FT	7690	9010	7070	3970	404	237	9410	68320	9030	46	1930	1080
CAL YR 1980	TOTAL	52134.80	MEAN	142	MAX	863	MIN	.45	AC-FT	103400		
WTR YR 1981	TOTAL	59590.86	MEAN	163	MAX	1750	MIN	.40	AC-FT	118200		

PYRAMID AND WINNEMUCCA LAKES BASIN

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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca" March to October 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

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 (Water and Power Resources Service bench mark). See WSP 2127 for history of changes prior to Aug 26, 1957.

REMARKS.--Records good. 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.--82 years (1900-1981), 784 ft³/s (22.20 m³/s), 568,000 acre-ft/yr (700 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, 2,530 ft³/s (71.6 m³/s) May 18, gage height, 5.59 ft (1.704 m); minimum, 221 ft³/s (6.26 m³/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	476	438	483	394	320	255	281	1290	888	472	468	493
2	406	413	435	392	317	249	274	1290	841	458	469	495
3	395	384	435	395	319	246	281	1180	792	452	472	494
4	407	381	516	409	295	249	294	1180	716	451	480	493
5	405	380	430	400	246	239	305	1200	713	453	485	491
6	404	383	381	396	243	231	321	1120	664	451	487	491
7	390	368	375	386	240	232	329	1070	560	428	484	493
8	386	410	372	380	247	230	345	1130	523	423	484	494
9	385	388	404	374	282	232	370	1220	550	419	483	469
10	404	396	396	351	278	237	390	1350	547	454	482	448
11	417	426	391	350	273	244	390	1460	511	469	483	469
12	391	412	400	343	254	245	372	1500	452	467	486	494
13	380	400	403	332	265	242	381	1580	460	465	488	496
14	376	386	404	329	546	225	408	1640	451	462	486	489
15	387	373	408	330	506	231	417	1730	419	466	486	442
16	397	369	407	331	441	232	390	1980	463	467	533	413
17	374	379	410	328	594	225	408	2040	465	466	532	388
18	383	400	413	324	519	221	607	2210	425	463	502	405
19	384	413	411	328	523	234	713	2300	416	462	491	426
20	384	401	397	332	527	250	679	2060	409	461	489	437
21	439	399	399	327	414	290	690	2010	402	464	486	430
22	427	401	428	303	386	295	765	1980	430	462	489	420
23	395	400	412	307	374	284	862	1940	472	466	479	414
24	390	399	411	289	376	263	874	1860	463	465	469	389
25	387	424	419	275	359	315	724	1620	456	465	438	411
26	388	433	415	289	347	420	862	1490	495	464	446	398
27	390	407	363	367	299	366	956	1360	477	466	472	397
28	454	409	428	385	242	392	1020	1270	475	465	476	384
29	424	410	417	385	---	401	1050	1260	474	463	493	365
30	392	418	395	373	---	349	1140	1260	474	464	492	387
31	401	---	396	347	---	280	---	1090	---	463	494	---
TOTAL	12418	12000	12754	10851	10032	8404	16898	47670	15883	14216	15004	13315
MEAN	401	400	411	350	358	271	563	1538	529	459	484	444
MAX	476	438	516	409	594	420	1140	2300	888	472	533	496
MIN	374	368	363	275	240	221	274	1070	402	419	438	365
AC-FT	24630	23800	25300	21520	19900	16670	33520	94550	31500	28200	29760	26410
CAL YR 1980	TOTAL	286320	MEAN 782	MAX 5100	MIN 301	AC-FT 567900						
WTR YR 1981	TOTAL	189445	MEAN 519	MAX 2300	MIN 221	AC-FT 375800						

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-61, 1964-81. Published as Truckee River at Floriston (station 10345900) January 1964 to September 1971.

CHEMICAL ANALYSES: Water years 1951-61, 1964 to April 1981 (discontinued).

BIOLOGICAL DATA: Water years 1975-77, 1980.

SPECIFIC CONDUCTANCE: Water years 1964-80.

WATER TEMPERATURES: Water years 1964 to March 1981 (discontinued).

SEDIMENT RECORDS: Water years 1974-78.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1964 to September 1980.

WATER TEMPERATURES: January 1964 to March 1981 (discontinued).

REMARKS.--Water-quality at this site is considered comparable with that of Truckee River at Floriston (station 10345900), which was operated 2.5 mi (4.0 km) upstream. Daily specific conductance and temperature data were collected at Farad powerplant, 0.7 mi (1.1 km) upstream from gage when the powerplant is in operation. Unpublished specific conductance records are included in extremes and are available in files of district office. This station was part of a National Water Quality Surveillance System.

COOPERATION.--Conductivity and temperature data furnished by Sierra Pacific Power Company.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum observed, 377 micromhos Dec. 27, 1979; minimum observed, 39 micromhos Dec. 23, 1964.

WATER TEMPERATURES: Maximum observed, 21.0°C Aug. 2, 6, 1971; minimum observed, 0.0°C on several days during winter periods of most years.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum observed, 9.0°C Oct. 21, 22, 24, Nov. 5; minimum observed, 0.0°C Dec. 8, Jan. 28, 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	ALKA- LITY FIELD (MG/L AS CAC03)
OCT 03...	1100	401	86	7.9	12.5	3.2	9.6	12	K3	38
NOV 05...	0915	374	116	7.9	8.0	1.0	10.1	13	K20	--
20...	1140	401	96	7.6	6.0	.90	11.1	13	K1	42
DEC 04...	1050	548	97	7.6	4.5	12	9.8	12	--	--
JAN 06...	1230	394	102	7.4	4.5	.90	11.1	2	--	--
FEB 04...	1300	313	113	7.3	3.0	--	11.5	1	--	--
MAR 05...	1000	246	125	7.6	4.5	--	10.6	13	<1	33
APR 03...	1040	267	133	6.5	6.5	--	10.6	15	K1	41

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	0	.000	.40	.000	.51	.91	.020	220	3.6
NOV 05...	0	.000	.00	.070	.62	.62	.050	160	4.1
20...	0	.000	.00	.090	.54	.54	.010	190	4.1
DEC 04...	17	.000	.05	.040	.55	.60	.100	750	2.9
JAN 06...	7	.010	.10	.030	.31	.41	.030	260	4.2
FEB 04...	1	--	.07	--	.65	.72	.020	--	--
MAR 05...	3	--	.12	.050	.39	.51	.030	--	--
APR 03...	3	--	.00	--	.69	.69	.020	--	--

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1980 TO MARCH 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	3.5	---	---	4.0						
2	---	8.0	---	3.0	---	5.0						
3	---	7.5	4.5	4.5	---	3.5						
4	---	7.5	4.0	4.0	---	---						
5	---	9.0	3.0	4.5	0.5	---						
6	---	8.0	2.5	3.5	1.0	3.5						
7	---	8.5	2.5	3.0	---	5.0						
8	---	---	0.0	2.5	---	4.0						
9	---	---	0.5	3.0	---	---						
10	---	8.0	0.5	---	---	5.0						
11	---	8.0	1.0	---	---	5.0						
12	---	7.5	2.0	2.0	---	6.0						
13	---	6.0	3.0	4.0	---	4.5						
14	---	6.0	3.0	3.0	3.0	4.5						
15	---	---	3.0	3.5	3.0	5.0						
16	---	---	---	4.0	3.5	7.0						
17	---	6.0	3.0	4.0	4.5	4.5						
18	---	5.0	---	4.5	4.5	5.0						
19	---	5.5	---	---	---	5.0						
20	---	5.5	3.5	5.0	4.0	5.5						
21	9.0	4.5	3.5	---	3.5	4.0						
22	9.0	4.5	5.0	5.0	4.5	---						
23	8.5	6.0	3.5	---	4.0	5.0						
24	9.0	4.0	3.0	4.5	---	7.5						
25	---	---	5.0	2.0	3.0	6.0						
26	---	4.0	4.0	2.5	3.0	3.5						
27	8.0	4.0	---	4.0	2.0	---						
28	7.5	4.0	4.5	0.0	2.0	5.0						
29	7.5	4.0	3.5	0.0	---	---						
30	8.5	4.0	3.0	0.5	---	4.5						
31	7.0	---	---	---	---	---						
MONTH	---	6.0	3.0	---	---	---						

PYRAMID AND WINNEMUCCA LAKES BASIN

285

10347600 HUNTER CREEK NEAR RENO, NV

LOCATION.--Lat 39°29'25", long 119°53'55", in SW¼SW¼ sec.19, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank 1.0 mi (1.6 km) upstream from mouth, 1.2 mi (1.9 km) upstream from Hunter Creek Reservoir and 5 mi (8.0 km) southwest of Reno.

DRAINAGE AREA.--11.5 m² (29.8 km²).

PERIOD OF RECORD.--October 1961 to September 1971, October 1977 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,070 ft (1,545 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years (1962-1971, 1978-1981) 9.87 ft³/s (0.280 m³/s), 7,150 acre-ft/yr (8.82 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 986 ft³/s (27.9 m³/s) Jan. 31, 1963, gage height, 6.93 ft (2.112 m), from floodmarks, from rating curve extended above 54 ft³/s (1.53 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.4 ft³/s (0.040 m³/s) Dec. 20, 21, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) May 1, gage height 1.40 ft (0.427 m), no peak above base of 20 ft³/s (0.57 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) Aug. 28 to Sept. 5, 12-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.3	5.7	5.3	5.9	5.0	5.0	9.7	7.4	4.3	3.4	2.0
2	5.7	6.2	5.7	5.3	5.9	5.0	5.0	8.7	7.4	4.3	3.4	2.0
3	5.7	6.1	6.0	5.7	6.2	5.0	5.0	8.3	7.0	4.3	3.4	2.0
4	5.7	6.0	6.7	5.7	6.6	5.0	5.0	8.3	7.0	4.3	3.4	2.0
5	5.7	6.0	5.0	5.7	5.4	5.0	5.0	8.3	6.6	4.3	3.1	2.0
6	5.7	6.0	5.0	5.3	5.4	5.0	5.4	8.3	6.6	4.3	3.1	2.3
7	5.7	6.0	5.0	5.7	5.8	5.0	5.0	7.9	6.2	4.0	3.1	2.3
8	5.7	6.4	5.3	5.7	5.4	5.0	5.0	7.9	6.2	3.7	2.8	2.3
9	5.7	6.4	5.3	5.7	5.4	5.0	5.4	7.9	6.6	3.7	2.8	2.3
10	5.7	6.4	5.7	5.6	5.4	5.0	5.4	7.9	6.2	3.7	2.8	2.3
11	5.7	6.7	5.7	5.6	5.4	5.0	5.4	7.9	6.2	4.0	2.8	2.3
12	6.7	6.4	5.7	5.7	5.4	5.0	5.4	7.9	6.2	4.0	2.8	2.0
13	6.0	6.0	6.0	5.7	5.8	5.0	5.4	7.9	6.2	4.0	2.8	2.0
14	6.7	6.4	6.0	5.7	7.0	5.0	5.4	8.3	6.2	4.0	2.8	2.0
15	6.4	6.4	5.7	5.7	5.8	5.0	5.8	8.3	6.2	4.0	2.8	2.0
16	6.4	6.4	5.7	5.7	5.4	5.0	5.8	8.3	5.8	4.0	2.8	2.0
17	6.4	6.0	5.7	5.3	5.8	4.7	5.8	7.9	5.8	4.0	3.1	2.0
18	6.4	5.7	5.7	5.3	5.4	5.0	5.8	8.7	5.8	3.7	3.4	2.0
19	6.4	5.7	5.3	5.3	5.8	5.0	5.4	8.3	5.8	3.7	3.1	2.0
20	6.4	5.7	5.3	5.3	5.4	5.0	5.0	8.3	5.4	3.7	2.5	2.0
21	6.4	5.7	5.3	5.7	5.8	5.0	5.4	7.9	5.4	3.7	2.8	2.0
22	6.4	5.7	5.7	5.7	5.4	5.0	7.0	7.4	5.4	3.7	2.5	2.0
23	6.4	5.7	5.3	5.7	5.4	4.7	8.3	7.0	5.0	3.7	2.5	2.0
24	6.4	5.3	5.3	5.7	5.4	4.7	9.2	7.0	5.0	3.7	2.3	2.3
25	6.7	5.5	5.7	5.0	5.4	5.4	7.9	8.3	5.0	3.7	2.3	4.7
26	6.7	5.6	5.7	5.7	5.8	5.0	7.0	9.7	5.0	3.7	2.3	3.7
27	6.7	5.7	5.3	6.4	5.8	5.0	7.0	8.7	5.0	3.4	2.3	3.4
28	6.6	5.7	5.3	5.7	5.4	5.0	7.9	7.9	5.0	3.4	2.0	3.1
29	6.5	5.7	5.3	6.0	---	5.0	8.3	7.9	4.7	3.4	2.0	3.7
30	6.5	5.7	5.3	5.8	---	5.0	8.7	7.9	4.7	3.4	2.0	3.7
31	6.4	---	5.3	5.8	---	5.0	---	7.9	---	3.4	2.0	---
TOTAL	192.2	179.5	171.7	174.2	159.0	154.5	183.1	252.6	177.0	119.2	85.2	72.4
MEAN	6.20	5.98	5.54	5.62	5.68	4.98	6.10	8.15	5.90	3.85	2.75	2.41
MAX	6.7	6.7	6.7	6.4	7.0	5.4	9.2	9.7	7.4	4.3	3.4	4.7
MIN	5.7	5.3	5.0	5.0	5.4	4.7	5.0	7.0	4.7	3.4	2.0	2.0
AC-FT	381	356	341	346	315	306	363	501	351	236	169	144

CAL YR 1980 TOTAL 4093.2 MEAN 11.2 MAX 38 MIN 3.0 AC-FT 8120
WTR YR 1981 TOTAL 1920.6 MEAN 5.26 MAX 9.7 MIN 2.0 AC-FT 3810

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.--55 years (1906-21, 1925-26, 1930-34, 1946-81), 657 ft³/s (18.61 m³/s), 476,000 acre-ft/yr (587 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, 2,280 ft³/s (64.6 m³/s) May 19, gage height, 5.36 ft (1.634 m); minimum, 90 ft³/s (2.55 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	323	474	390	330	277	288	1060	640	224	183	180
2	177	319	459	384	331	274	291	1170	550	213	191	194
3	166	280	441	388	324	269	264	1030	490	204	195	177
4	180	267	574	409	317	269	274	997	408	202	200	180
5	177	279	466	397	254	268	281	1040	390	203	202	181
6	173	287	395	395	244	257	302	945	335	190	214	180
7	163	272	376	397	242	258	300	857	270	194	202	184
8	161	338	357	381	243	258	308	915	261	169	196	188
9	154	315	388	380	276	255	328	997	290	165	198	192
10	155	307	400	356	286	261	345	1120	291	183	198	167
11	205	376	385	350	285	264	354	1220	253	200	192	175
12	190	379	398	350	261	263	334	1260	212	200	196	191
13	179	363	399	343	278	274	320	1320	184	199	203	206
14	186	343	399	351	503	248	338	1380	176	197	210	200
15	214	316	403	346	596	245	347	1420	161	200	205	181
16	228	308	407	343	453	250	287	1650	170	192	224	151
17	231	342	410	331	611	245	244	1760	198	177	245	143
18	222	380	409	329	560	242	345	1870	176	171	246	114
19	237	386	415	326	547	246	590	2130	165	170	237	137
20	235	384	400	344	578	259	553	1830	149	167	223	139
21	281	389	394	338	458	309	534	1800	135	173	229	153
22	293	381	418	317	420	320	555	1740	159	174	207	159
23	262	375	417	301	402	321	630	1690	197	176	191	158
24	255	375	402	297	399	295	734	1650	209	181	178	137
25	250	389	415	276	387	294	557	1440	201	191	161	153
26	263	428	423	277	378	424	652	1350	240	184	135	137
27	251	408	351	378	361	348	711	1210	220	186	183	120
28	313	405	415	432	264	396	798	1070	220	188	172	127
29	326	414	421	434	---	412	860	1040	230	189	173	118
30	290	427	393	398	---	402	895	1070	224	188	183	106
31	278	---	387	381	---	303	---	930	---	190	190	---
TOTAL	6979	10555	12791	11119	10588	9006	13619	40961	7804	5840	6162	4828
MEAN	225	352	413	359	378	291	454	1321	260	188	199	161
MAX	326	428	574	434	611	424	895	2130	640	224	246	206
MIN	154	267	351	276	242	242	244	857	135	165	135	106
AC-FT	13840	20940	25370	22050	21000	17860	27010	81250	15480	11580	12220	9580

CAL YR 1980 TOTAL 248040 MEAN 678 MAX 6520 MIN 154 AC-FT 492000
WTR YR 1981 TOTAL 140252 MEAN 384 MAX 2130 MIN 106 AC-FT 278200

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.

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); minimum, 2.0 ft³/s (0.057 m³/s), Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,270 ft³/s (64.3 m³/s) May 19, gage height, 7.16 ft (2.182 m); minimum daily, 82 ft³/s (2.32 m³/s), Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	297	492	351	302	232	256	986	635	158	106	134
2	162	300	473	348	307	232	267	1070	558	148	108	147
3	134	270	466	353	291	232	243	943	519	138	115	132
4	146	249	558	366	290	232	237	915	403	136	113	133
5	135	255	447	362	241	229	233	974	405	143	118	137
6	133	267	375	357	218	222	242	887	374	131	125	134
7	125	258	345	357	221	222	248	817	280	138	125	137
8	123	314	330	349	219	218	255	859	215	117	121	143
9	117	303	358	344	243	218	271	930	221	119	120	153
10	121	292	370	332	257	222	280	1050	211	122	124	127
11	152	362	357	317	268	229	287	1170	204	142	121	139
12	152	373	357	311	245	225	275	1200	164	138	118	140
13	157	351	362	299	238	236	261	1270	147	130	126	153
14	153	333	359	299	429	216	278	1340	129	128	133	160
15	197	307	364	299	596	206	286	1380	117	129	125	146
16	195	297	367	307	420	209	250	1610	117	122	138	117
17	201	329	367	305	550	207	222	1710	141	110	155	108
18	192	372	363	303	523	204	290	1850	131	107	165	82
19	205	374	367	291	496	213	533	2120	108	105	167	103
20	204	376	351	303	517	228	489	1800	102	104	156	88
21	233	369	346	303	412	267	468	1780	90	107	158	99
22	273	365	369	299	368	272	495	1710	104	105	149	107
23	238	364	370	277	358	283	559	1650	129	103	133	119
24	218	364	357	273	344	257	661	1620	143	109	129	95
25	214	387	370	261	340	280	495	1400	137	112	117	113
26	226	424	375	255	332	402	583	1300	169	109	94	108
27	219	407	319	332	319	332	654	1160	155	110	109	88
28	281	398	370	393	236	357	729	1020	150	108	119	99
29	308	412	379	392	---	379	779	964	162	114	119	94
30	287	432	357	358	---	388	813	998	157	113	126	85
31	265	---	350	341	---	272	---	873	---	113	140	---
TOTAL	6009	10201	11790	10037	9580	7921	11939	39356	6577	3768	3972	3620
MEAN	194	340	380	324	342	256	398	1270	219	122	128	121
MAX	308	432	558	393	596	402	813	2120	635	158	167	160
MIN	117	249	319	255	218	204	222	817	90	103	94	82
AC-FT	11920	20230	23390	19910	19000	15710	23680	78060	13050	7470	7880	7180
CAL YR 1980	TOTAL	233457	MEAN 638	MAX 5660	MIN 117	AC-FT 463100						
WTR YR 1981	TOTAL	124770	MEAN 342	MAX 2120	MIN 82	AC-FT 247500						

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.--7 years (1975-1981) 2.71 ft³/s (0.0767 m³/s), 1,960 acre-ft/yr (2.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s (4.11 m³/s) Feb. 21, 1980, gage height 2.48 ft (0.756 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, 9.8 ft³/s (0.278 m³/s) Apr. 24, gage height, 1.65 ft (0.503 m); maximum gage height 1.95 ft (0.594 m) Mar. 17 (backwater from ice); minimum daily discharge, 0.85 ft³/s (0.024 m³/s) Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.0	2.0	1.8	2.0	2.0	2.6	6.3	2.0	2.0	2.2	2.0
2	1.9	2.0	2.2	1.8	2.0	2.0	2.9	5.8	2.0	2.0	2.2	2.0
3	1.9	2.2	2.4	1.8	1.9	2.0	2.3	4.9	2.0	2.0	2.2	2.0
4	1.7	2.2	2.7	1.9	1.9	1.9	2.3	4.6	2.0	2.0	2.2	2.0
5	1.7	2.1	2.5	1.9	1.9	2.0	2.4	4.4	2.0	2.0	2.2	2.0
6	1.7	2.0	2.3	1.8	1.8	2.0	2.8	4.1	2.0	2.0	2.2	2.3
7	1.7	2.0	2.2	1.8	1.8	2.0	3.2	3.8	2.4	2.0	2.2	2.3
8	1.7	2.0	2.0	1.8	1.8	2.0	3.3	3.8	2.6	2.3	2.2	2.3
9	1.8	2.0	2.0	1.8	1.9	2.0	3.9	3.8	2.7	2.7	2.2	2.3
10	1.8	2.1	2.0	1.8	1.8	2.1	4.2	3.8	2.6	2.7	2.3	2.3
11	1.8	2.4	2.0	1.8	1.9	2.1	3.9	3.8	2.4	2.9	2.6	2.3
12	2.1	2.5	1.9	1.8	1.9	2.1	3.8	3.6	2.4	2.9	2.6	2.3
13	2.2	2.5	1.9	1.8	2.2	2.2	3.9	3.6	2.6	2.9	2.4	2.3
14	2.2	2.3	1.8	1.8	3.3	2.2	4.6	3.6	2.6	2.0	2.4	2.3
15	2.1	2.3	1.8	1.8	2.9	2.2	4.5	3.4	2.0	1.6	2.4	2.3
16	2.1	2.3	1.8	1.8	2.6	2.2	5.2	3.1	1.2	1.3	2.4	2.0
17	2.4	2.2	1.9	1.8	3.1	2.2	5.7	3.1	1.1	1.3	2.4	1.6
18	2.3	2.2	1.9	1.9	2.7	2.2	5.1	4.4	1.1	1.2	2.4	1.6
19	2.3	2.2	1.9	1.9	2.9	2.2	5.5	5.1	1.1	1.2	2.4	1.5
20	2.3	2.0	1.5	1.9	2.9	2.3	5.3	3.6	1.4	1.5	2.4	1.3
21	2.3	2.0	1.9	1.9	2.5	2.4	5.7	2.3	1.3	2.0	2.4	1.2
22	2.2	2.0	2.0	2.0	2.3	2.4	6.4	2.3	1.4	2.0	2.4	.98
23	2.2	2.0	2.0	2.2	2.3	2.3	7.1	2.2	1.9	2.0	2.4	.98
24	2.2	2.0	1.9	2.3	2.4	2.3	8.0	2.4	2.0	2.0	2.3	.92
25	2.2	2.0	2.0	2.1	2.2	2.9	6.8	2.7	2.0	2.0	2.3	.94
26	2.2	2.0	2.0	2.0	2.2	2.9	5.8	3.1	2.0	2.0	2.3	.87
27	2.2	2.0	2.1	3.0	2.1	2.8	4.9	3.1	2.0	2.0	2.3	.85
28	2.2	2.0	2.2	6.7	2.0	2.6	5.0	2.6	2.0	2.0	2.0	.85
29	2.2	2.0	2.0	5.9	---	2.6	5.4	2.1	2.0	2.2	2.0	.85
30	2.2	2.0	1.9	2.6	---	2.5	5.7	2.0	2.0	2.2	2.0	.85
31	2.2	---	1.9	2.2	---	2.5	---	2.0	---	2.2	2.0	---
TOTAL	64.3	63.5	63.0	69.4	63.2	70.1	138.2	109.4	58.8	63.1	70.9	50.29
MEAN	2.07	2.12	2.03	2.24	2.26	2.26	4.61	3.53	1.96	2.04	2.29	1.68
MAX	2.4	2.5	2.7	6.7	3.3	2.9	8.0	6.3	2.7	2.9	2.6	2.3
MIN	1.7	2.0	1.8	1.8	1.8	1.9	2.3	2.0	1.1	1.2	2.0	.85
AC-FT	128	126	125	138	125	139	274	217	117	125	141	100
CAL YR 1980	TOTAL	1298.50	MEAN	3.55	MAX	38	MIN	1.2	AC-FT	2580		
WTR YR 1981	TOTAL	884.19	MEAN	2.42	MAX	8.0	MIN	.85	AC-FT	1750		

10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°16'30", long 119°47'35", in S1SE1 sec.1, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on Washoe County boatdock on northeast shore about 6.8 mi (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi² (217 km²), including Little Washoe Lake.

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

GAGE.--Reference mark. Datum of gage is 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 hm²) between elevations 5,017.5 ft (1,529.33 m) and 5,031.0 ft (1,533.45 m). Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from 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 elevation 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 elevation observed, 5,026.6 ft (1,532.11 m) April 29; minimum observed, 5,024.1 ft (1,531.35 m) Aug. 26.

MONTHEND ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,025.8	20,750	--
Oct. 31	5,025.6	19,840	-910
Nov. 30	5,025.5	19,400	-440
Dec. 31	5,025.8	20,750	+1,350
CAL YR 1980	--	--	+9,500
Jan. 31	5,026.2	22,660	+1,910
Feb. 28	5,026.5	24,120	+1,460
Mar. 31	5,026.5	24,120	0
Apr. 30	5,026.6	24,610	+490
May 31	5,026.2	22,660	-1,950
June 30	5,025.5	19,400	-3,260
July 31	5,024.6	15,700	-3,700
Aug. 31	5,024.0	13,400	-2,300
Sept. 30	5,023.5	11,590	-1,810
WTR YR 1980-81	--	--	-9,160

NOTE.--Monthend elevations 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 elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; no contents Sept. 13 to Dec. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5,026.9 ft (1,532.20 m) Mar. 29; minimum observed, 5022.3 (1,530.80 m), Sept. 21.

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

5,022	10	5,025	200
5,023	50	5,026	300
5,024	125	5,027	400

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.72	5.47	5.89	6.44	6.70	6.69	6.87	6.62	6.23	5.35	3.69	2.89
2	5.70	5.46	5.94	6.47	6.69	6.65	6.79	6.63	6.20	5.35	3.64	2.87
3	5.69	5.46	5.99	6.51	6.67	6.65	6.74	6.61	6.18	5.34	3.61	2.87
4	5.68	5.45	6.04	6.54	6.66	6.64	6.73	6.60	6.17	5.34	3.57	2.85
5	5.67	5.45	6.09	6.54	6.66	6.64	6.76	6.56	6.15	5.33	3.55	2.84
6	5.66	5.44	6.14	6.53	6.66	6.63	6.71	6.53	6.13	5.33	3.53	2.84
7	5.66	5.46	6.19	6.54	6.65	6.62	6.71	6.50	6.10	5.29	3.51	2.82
8	5.64	5.43	6.21	6.54	6.64	6.61	6.74	6.49	6.08	5.25	3.50	2.79
9	5.64	5.44	6.21	6.56	6.64	6.61	6.77	6.47	6.04	5.23	3.45	2.75
10	5.63	5.43	6.20	6.56	6.64	6.60	6.80	6.45	6.02	5.20	3.44	2.72
11	5.61	5.44	6.20	6.57	6.64	6.58	6.82	6.44	5.99	5.16	3.42	2.68
12	5.59	5.46	6.20	6.57	6.63	6.60	6.75	6.42	5.97	5.15	3.38	2.64
13	5.58	5.46	6.20	6.58	6.70	6.62	6.71	6.40	5.94	5.12	3.37	2.60
14	5.57	5.45	6.18	6.58	6.75	6.62	6.69	6.40	5.93	5.10	3.35	2.56
15	5.56	5.45	6.22	6.58	6.73	6.66	6.71	6.39	5.92	5.06	3.33	2.53
16	5.56	5.44	6.24	6.58	6.73	6.64	6.70	6.37	5.89	5.02	3.31	2.50
17	5.56	5.45	6.27	6.58	6.73	6.63	6.66	6.37	5.87	4.99	3.31	2.46
18	5.56	5.47	6.30	6.58	6.74	6.66	6.63	6.39	5.86	4.97	3.27	2.43
19	5.55	5.51	6.31	6.58	6.75	6.73	6.69	6.38	5.84	4.93	3.27	2.40
20	5.55	5.54	6.32	6.57	6.77	6.75	6.66	6.37	5.81	4.90	3.22	2.37
21	5.54	5.57	6.35	6.57	6.78	6.77	6.63	6.36	5.80	4.90	3.17	2.34
22	5.53	5.57	6.39	6.57	6.76	6.73	6.62	6.35	5.76	4.86	3.15	---
23	5.53	5.58	6.41	6.60	6.78	6.72	6.65	6.34	5.70	4.82	3.14	---
24	5.52	5.61	6.41	6.62	6.80	6.71	6.66	6.33	5.64	4.63	3.11	---
25	5.52	5.62	6.39	6.63	6.77	6.84	6.70	6.33	5.59	4.41	3.07	---
26	5.51	5.65	6.41	6.64	6.76	6.75	6.70	6.33	5.54	4.28	3.04	---
27	5.50	5.70	6.42	6.65	6.73	6.66	6.66	6.32	5.49	4.17	3.03	---
28	5.50	5.76	6.42	6.66	6.72	6.68	6.63	6.30	5.44	4.04	2.99	---
29	5.49	5.83	6.43	6.67	---	6.93	6.61	6.27	5.38	3.90	2.97	---
30	5.49	5.84	6.41	6.69	---	6.83	6.60	6.26	5.36	3.84	2.93	---
31	5.48	---	6.42	6.70	---	6.88	---	6.24	---	3.76	2.93	---
MAX	5.72	5.84	6.43	6.70	6.80	6.93	6.87	6.63	6.23	5.35	3.69	---
MIN	5.48	5.43	5.89	6.44	6.63	6.58	6.60	6.24	5.36	3.76	2.93	---

CAL YR 1980 MAX 5027.60 MIN 5025.43
WTR YR 1981 MAX 5026.93 MIN 5022.34

NOTE.--Add 5020 ft to obtain elevation, in feet NGVD, at 2400 hrs.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10348900 GALENA CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°21'45", long 119°49'30", 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 fair except those for winter months which are 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.--20 years, 8.38 ft³/s (0.237 m³/s), 6,070 acre-ft/yr (7.48 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)
Nov. 21	0800	Ice Jam	*4.00 1.219
Apr. 23	1900	*29 0.82	2.65 0.808
May 1	2000	26 0.74	2.62 0.800

Minimum daily, 0.50 ft³/s Jan. 7,8, result of freeze up.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.7	2.2	1.5	.60	.84	.58	19	14	7.4	4.2	3.8
2	6.6	6.6	2.3	1.5	.70	.77	.64	19	12	7.4	4.2	3.8
3	6.6	6.4	3.9	.70	.70	.77	.58	18	12	7.0	4.2	3.8
4	6.3	6.3	3.5	.70	.58	.77	.58	15	12	6.6	4.2	3.6
5	6.3	6.3	3.0	.77	.70	.70	1.4	13	13	6.6	4.2	2.9
6	6.3	6.3	3.0	.60	.80	.70	5.0	12	14	6.3	3.9	2.7
7	6.0	7.0	3.1	.50	.70	.70	4.7	12	13	6.3	3.9	2.7
8	6.0	7.8	3.2	.50	.80	.70	4.7	12	15	6.6	3.9	2.9
9	6.0	6.6	3.2	.60	1.2	.58	5.6	14	14	5.6	3.7	2.9
10	6.0	7.0	3.1	.99	1.2	.58	6.0	14	13	5.6	3.9	2.9
11	6.0	7.4	2.9	.99	.91	.64	5.6	13	13	5.6	4.2	2.9
12	8.2	7.0	2.8	1.1	.84	.64	5.6	13	13	5.6	3.9	2.9
13	8.2	7.0	2.7	1.1	.99	.70	6.3	14	12	6.0	3.7	2.9
14	8.2	6.7	2.5	.99	1.5	.64	7.4	13	12	6.0	4.2	2.9
15	8.2	3.5	2.5	.99	.99	.64	9.1	13	11	6.0	3.9	2.9
16	8.2	1.5	2.3	.91	.91	.53	10	12	11	5.6	3.7	2.9
17	7.8	1.4	2.3	.91	1.1	.64	11	11	10	5.6	3.9	2.9
18	8.2	1.4	2.3	.91	.91	.70	13	13	10	5.6	4.2	2.9
19	8.2	1.5	2.3	.91	.99	.77	13	12	10	4.7	4.2	2.7
20	8.2	1.7	2.3	.91	.84	.58	10	11	9.5	4.7	4.2	2.9
21	8.2	1.8	2.3	.91	.85	.64	11	11	9.5	4.7	4.2	3.0
22	8.2	2.0	2.5	.91	.90	.64	14	11	9.1	5.0	4.2	2.9
23	8.1	2.2	2.3	.91	.91	.64	18	11	8.6	4.7	3.9	2.9
24	7.9	2.3	2.3	.84	.84	.53	25	11	8.6	4.7	4.2	4.2
25	7.8	2.3	2.3	.90	.91	.84	22	12	8.6	5.0	4.2	4.4
26	7.6	2.3	2.5	.90	.90	.64	21	14	8.6	4.7	3.9	3.7
27	7.5	2.3	2.5	.90	.90	.64	14	13	7.8	5.0	3.9	3.0
28	7.3	2.3	2.5	.99	.90	.64	14	13	7.4	4.7	3.9	3.7
29	7.2	2.2	2.2	.80	---	.64	16	13	7.4	4.4	3.8	3.7
30	7.0	2.0	2.2	.60	---	.64	18	14	*7.8	4.4	3.8	3.7
31	6.9	---	1.6	.70	---	.58	---	14	---	4.4	3.8	---
TOTAL	225.8	127.8	80.6	27.44	25.07	20.66	293.78	410	326.9	172.5	124.2	96.0
MEAN	7.28	4.26	2.60	.89	.90	.67	9.79	13.2	10.9	5.56	4.01	3.20
MAX	8.2	7.8	3.9	1.5	1.5	.84	25	19	15	7.4	4.2	4.4
MIN	6.0	1.4	1.6	.50	.58	.53	.58	11	7.4	4.4	3.7	2.7
AC-FT	448	253	160	54	50	41	583	813	648	342	246	190

CAL YR 1980 TOTAL 3156.17 MEAN 8.62 MAX 49 MIN .64 AC-FT 6260
WTR YR 1981 TOTAL 1930.75 MEAN 5.29 MAX 25 MIN .50 AC-FT 3830

PYRAMID AND WINNEMUCCA LAKES BASIN

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft (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, Sept. 5-30, which is fair. 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.--20 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, 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, 28 ft³/s (0.79 m³/s) Dec. 4, gage height, 1.69 ft (0.515 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	6.5	4.5	3.8	4.3	3.8	4.5	6.7	5.6	1.1	.44	.02
2	3.0	6.7	4.7	3.6	4.6	3.8	5.1	4.9	5.3	1.2	.34	.04
3	3.2	7.5	11	3.7	4.4	3.6	4.1	4.0	5.3	1.1	.34	.09
4	2.3	7.6	15	4.5	4.4	3.5	3.1	4.2	5.1	.73	.36	.16
5	2.1	6.6	5.6	4.0	4.3	3.8	2.4	3.9	5.8	.81	.27	.25
6	2.3	5.5	4.2	3.7	4.2	3.7	3.3	3.2	4.2	1.0	.17	.20
7	2.2	6.1	4.6	3.6	4.0	3.5	3.8	4.3	4.2	1.0	.21	.20
8	2.5	6.8	4.4	3.6	4.3	3.4	3.6	4.7	4.7	1.1	.13	.25
9	2.5	6.4	5.2	3.6	4.9	3.3	3.9	5.0	4.2	1.0	.09	.35
10	3.1	6.7	6.1	3.5	4.4	3.0	3.2	5.0	4.2	.76	.09	.37
11	5.5	11	7.4	3.4	4.3	3.0	3.1	5.2	3.3	1.0	.07	.37
12	4.9	8.4	8.2	3.3	4.2	3.0	2.9	4.6	3.6	.78	.17	.37
13	5.5	8.9	8.1	3.1	4.5	4.1	3.1	6.1	2.0	.83	.21	.37
14	4.5	9.2	7.7	3.0	6.8	3.5	2.7	6.9	2.1	1.1	.16	.38
15	7.0	8.3	7.6	3.1	5.1	2.9	2.3	5.2	1.9	.98	.11	.39
16	6.8	3.5	6.1	3.3	4.5	3.0	2.8	4.2	1.8	.77	.10	.39
17	6.4	3.5	5.7	3.4	4.7	3.0	3.0	3.7	1.5	.53	.11	.39
18	6.3	3.5	5.7	3.6	4.5	3.1	3.2	4.4	1.2	.44	.13	.38
19	6.2	3.7	5.4	3.3	4.1	5.0	5.5	4.9	1.6	.33	.15	.20
20	6.5	3.7	5.5	2.9	4.1	3.7	4.2	4.3	1.5	.30	.14	.30
21	6.8	3.7	5.6	3.0	3.8	3.5	3.4	4.7	1.6	.28	.21	.41
22	6.4	4.0	5.8	3.0	3.9	3.1	3.9	4.1	1.4	.26	.18	.39
23	5.8	4.3	5.2	2.9	3.6	3.1	5.9	5.4	1.9	.32	.10	.39
24	5.8	4.5	5.1	3.1	3.7	2.9	12	5.7	2.3	.60	.05	1.2
25	5.8	3.7	5.3	3.1	4.0	3.9	11	6.7	2.0	1.0	.03	1.6
26	6.1	3.9	5.2	2.9	3.9	5.5	9.1	11	1.4	.68	.05	1.0
27	6.7	4.4	5.2	13	3.8	4.2	7.0	8.8	.91	.57	.03	.50
28	4.8	4.6	5.0	11	3.8	3.6	5.5	6.3	1.2	1.5	.07	.69
29	5.9	4.1	5.0	6.4	---	4.1	5.8	6.8	1.4	.68	.03	.70
30	6.6	4.2	4.9	5.1	---	3.9	6.6	7.6	1.5	.58	.03	.71
31	6.5	---	4.8	4.6	---	4.3	---	7.2	---	.64	.02	---
TOTAL	152.9	171.5	189.8	128.1	121.1	111.8	140.0	169.7	84.71	23.97	4.59	13.06
MEAN	4.93	5.72	6.12	4.13	4.33	3.61	4.67	5.47	2.82	.77	.15	.44
MAX	7.0	11	15	13	6.8	5.5	12	11	5.8	1.5	.44	1.6
MIN	2.1	3.5	4.2	2.9	3.6	2.9	2.3	3.2	.91	.26	.02	.02
AC-FT	303	340	376	254	240	222	278	337	168	48	9.1	26

CAL YR 1980 TOTAL 4609.40 MEAN 12.6 MAX 288 MIN 1.8 AC-FT 9140
WTR YR 1981 TOTAL 1311.23 MEAN 3.59 MAX 15 MIN .02 AC-FT 2600

PYRAMID AND WINNEMUCCA LAKES BASIN

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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). Water-quality records for the current year are published for Truckee River at Lockwood (see next page), 2.1 mi (3.4 km) downstream. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--53 years, 780 ft³/s (22.09 m³/s), 565,100 acre-ft/yr (697 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, 2,670 ft³/s (75.6 m³/s) May 19, gage height, 6.61 ft (2.015 m); minimum discharge 241 ft³/s (6.83 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	459	628	492	448	317	344	1200	849	236	187	236
2	347	465	649	484	448	308	399	1330	755	212	198	249
3	291	427	689	488	437	308	351	1140	714	212	209	231
4	285	410	876	522	427	317	332	1060	558	210	202	234
5	269	413	652	507	363	317	317	1160	544	222	216	234
6	272	430	515	499	332	302	320	1060	521	210	214	241
7	280	406	466	496	326	297	323	965	430	212	209	246
8	269	484	437	477	329	297	326	1030	334	192	213	251
9	267	469	466	462	366	285	354	1110	315	190	204	259
10	262	448	492	451	393	285	376	1230	320	190	212	229
11	302	560	481	437	376	297	389	1380	314	214	208	234
12	324	567	484	426	351	294	357	1420	281	212	209	241
13	333	534	499	420	338	338	329	1500	256	214	229	262
14	327	507	492	420	556	317	341	1580	243	211	244	272
15	386	462	507	409	782	285	347	1620	235	210	231	262
16	405	451	507	430	575	280	288	1920	216	202	241	231
17	434	469	511	434	710	283	272	2090	241	192	275	217
18	402	538	507	430	693	272	342	2250	230	190	272	178
19	418	530	518	427	673	288	710	2540	212	182	285	207
20	396	542	511	423	706	311	669	2180	201	189	264	202
21	408	522	452	430	567	351	629	2150	180	192	256	219
22	463	522	530	420	511	376	657	2090	178	190	248	227
23	434	511	526	386	488	366	718	2020	210	191	225	241
24	411	515	507	389	469	341	862	1980	238	191	224	219
25	396	522	518	376	473	370	677	1740	217	196	204	246
26	400	571	526	363	451	553	748	1660	249	198	181	244
27	405	553	448	492	430	473	839	1540	241	206	196	218
28	469	542	515	657	329	503	946	1320	234	201	212	225
29	482	556	534	649	---	522	1000	1250	239	204	222	220
30	442	571	503	575	---	526	1020	1290	231	202	229	205
31	424	---	488	522	---	389	---	1150	---	194	244	---
TOTAL	11463	14956	16474	14393	13347	10768	15582	47955	9986	6270	6963	6980
MEAN	370	499	531	464	477	347	519	1547	333	202	225	233
MAX	482	571	876	657	782	553	1020	2540	849	236	285	272
MIN	262	406	437	363	326	272	272	965	178	182	181	178
AC-FT	22740	29670	32680	28550	26470	21360	30910	95120	19810	12440	13810	13840
CAL YR 1980	TOTAL	292975	MEAN 800	MAX 6880	MIN 262	AC-FT 581100						
WTR YR 1981	TOTAL	175137	MEAN 480	MAX 2540	MIN 178	AC-FT 347400						

PYRAMID AND WINNEMUCCA LAKES BASIN

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 current year.

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 current year, twice per hour.

INSTRUMENTATION.--Temperature recorder since August 1972.

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, 26.5°C June 26, July 3, 4; minimum, freezing point Dec. 9-11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	19.0	15.5	10.0	8.5	6.0	5.0	5.0	3.0	5.0	3.0	7.0	5.0
2	19.0	15.5	11.5	8.5	7.0	5.5	5.0	3.0	5.0	3.5	8.5	5.5
3	20.0	15.5	11.5	9.0	7.0	6.0	6.5	4.0	5.0	3.0	9.5	6.0
4	20.5	15.5	11.5	9.0	7.0	5.5	7.0	6.0	5.5	3.0	9.0	7.0
5	20.0	15.5	11.5	9.0	5.5	3.5	6.5	5.0	6.0	3.5	7.5	7.0
6	19.5	15.5	12.0	10.0	4.0	2.5	5.5	4.0	6.0	3.5	9.5	6.5
7	19.5	15.0	12.0	10.0	3.0	2.0	5.0	3.5	6.5	3.5	10.0	7.0
8	19.5	15.0	12.0	10.0	2.0	1.0	4.5	3.0	5.5	4.0	11.0	7.5
9	18.5	15.0	10.0	8.5	1.5	.0	4.5	2.5	7.0	4.0	12.0	7.5
10	18.5	14.5	10.0	8.5	1.5	.0	4.5	3.0	7.0	5.0	12.5	8.0
11	16.5	14.0	9.5	8.5	1.5	.0	4.0	2.5	9.0	6.0	12.0	8.0
12	15.5	13.0	9.0	8.0	2.0	.5	4.5	3.0	9.5	7.0	12.0	8.0
13	13.5	11.0	8.5	6.5	2.5	1.0	5.5	3.0	8.5	7.0	9.5	8.0
14	12.0	9.5	7.5	5.5	2.5	1.0	5.5	3.5	9.5	7.5	11.5	7.5
15	10.0	9.5	7.5	6.0	3.5	1.5	5.5	4.0	8.5	7.0	10.5	8.5
16	11.0	9.0	6.0	4.5	4.0	2.0	7.0	5.0	8.5	6.5	10.5	7.5
17	12.0	9.5	6.5	4.5	4.5	2.5	7.0	6.0	9.5	7.5	11.0	7.0
18	12.5	9.5	7.0	5.0	5.5	3.5	7.0	5.5	9.5	7.0	9.0	7.0
19	12.5	9.5	7.0	4.5	6.0	4.0	8.0	6.5	9.5	8.0	9.5	7.0
20	13.0	10.0	6.5	4.5	5.5	4.0	7.5	5.5	8.0	6.0	9.5	7.0
21	13.0	10.5	5.5	4.5	5.5	4.0	7.5	6.5	7.0	5.0	11.0	7.5
22	12.5	10.5	7.5	5.0	6.0	5.0	8.5	7.0	7.5	5.0	11.0	8.5
23	12.0	9.5	7.5	6.5	5.0	4.0	9.0	7.5	8.5	6.0	11.5	8.5
24	12.5	9.5	7.0	5.0	5.0	4.0	7.5	6.5	8.0	6.0	11.5	8.0
25	11.5	10.0	5.5	3.0	7.0	5.0	7.0	5.0	6.5	5.0	12.0	9.5
26	11.0	9.0	5.0	2.5	7.0	6.0	6.5	4.5	6.5	4.0	9.5	7.0
27	11.5	9.0	5.0	3.0	7.5	6.0	7.0	5.5	7.0	4.0	7.0	6.0
28	10.5	8.5	5.5	3.5	8.0	6.5	6.5	5.0	7.0	4.5	9.5	5.5
29	10.0	7.0	7.0	5.0	7.0	5.5	5.0	3.5	---	---	11.0	9.0
30	9.5	7.5	7.0	5.0	6.0	4.5	4.0	3.0	---	---	10.5	8.5
31	10.0	7.5	---	---	5.5	4.0	5.0	3.0	---	---	11.0	8.0
MONTH	20.5	7.0	12.0	2.5	8.0	.0	9.0	2.5	9.5	3.0	12.5	5.0

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

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).

REMARKS.--Records fair. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs and other lakes, powerplants, and many diversions for irrigation.

AVERAGE DISCHARGE.--9 years, 650 ft³/s (18.41 m³/s), 470,900 acre-ft/yr (581 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); minimum, 22 ft³/s (0.623) Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) May 19, gage height, 7.64 ft (2,329 m); minimum, 162 ft³/s (4.59 m³/s) June 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399	428	536	483	436	331	356	984	786	242	187	249
2	356	449	553	477	423	334	393	1110	696	222	187	246
3	294	421	538	482	419	331	367	989	667	222	212	245
4	290	405	738	498	405	334	355	923	544	217	212	239
5	274	406	649	497	378	338	343	1000	521	228	220	242
6	277	417	539	485	338	332	337	928	512	217	225	239
7	284	402	486	483	336	324	344	852	446	215	214	247
8	278	428	465	473	337	327	348	924	380	198	221	250
9	288	455	468	457	361	319	362	987	352	187	212	259
10	282	426	490	452	384	318	379	1090	342	189	215	231
11	293	492	484	440	372	328	388	1260	334	212	203	233
12	319	529	464	435	372	329	371	1300	294	207	208	231
13	331	499	461	430	339	355	349	1390	253	207	209	247
14	318	480	461	423	430	353	360	1470	236	204	244	274
15	362	455	461	417	687	327	373	1530	239	202	221	262
16	372	434	461	424	534	327	349	1840	209	199	236	233
17	401	433	477	431	585	329	323	2020	228	185	266	225
18	388	491	488	430	616	322	344	2080	228	185	277	194
19	400	484	498	425	583	331	596	2580	209	180	275	208
20	391	490	494	419	592	348	606	2140	199	182	258	200
21	386	484	479	427	524	366	561	2120	178	182	238	210
22	440	488	494	422	472	387	594	2020	173	182	243	220
23	424	485	506	392	457	381	625	1930	173	180	220	230
24	405	481	493	396	439	362	731	1890	204	185	226	218
25	392	477	500	383	446	375	626	1640	197	187	213	228
26	392	518	512	367	424	481	626	1490	212	192	200	212
27	391	514	476	416	408	458	692	1450	228	197	205	210
28	433	497	481	576	360	461	781	1200	228	194	232	210
29	456	516	517	555	---	472	835	1120	233	199	234	210
30	430	512	496	526	---	484	828	1150	236	209	246	200
31	414	---	480	473	---	400	---	1050	---	194	246	---
TOTAL	11160	13996	15645	13994	12457	11264	14542	44457	9737	6201	7005	6902
MEAN	360	467	505	451	445	363	485	1434	325	200	226	230
MAX	456	529	738	576	687	484	835	2580	786	242	277	274
MIN	274	402	461	367	336	318	323	852	173	180	187	194
AC-FT	22140	27760	31030	27760	24710	22340	28840	88180	19310	12300	13890	13690
CAL YR 1980	TOTAL	286367	MEAN	782	MAX	5830	MIN	274	AC-FT	568000		
WTR YR 1981	TOTAL	167360	MEAN	459	MAX	2580	MIN	173	AC-FT	332000		

10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to current year.

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 current year, twice per hour.

INSTRUMENTATION.--Temperature recorder since October 1972.

REMARKS.--Temperature recorder malfunctioned Oct. 11 to Nov. 13 and Sept. 16-30.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 1977; minimum, freezing point on several days in January 1973, January 1974, December 1978, January 1979, and December 1980.

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

WATER TEMPERATURES: Maximum, 26.0 °C July 3, 4; minimum, freezing point Dec. 9-11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	18.5	15.5	---	---	5.5	4.5	4.5	3.0	4.0	2.0	3.5	3.5
2	19.0	15.5	---	---	7.0	5.0	4.5	3.0	4.5	2.5	7.0	3.5
3	19.5	15.0	---	---	6.5	5.5	6.5	4.5	5.0	2.0	8.5	4.5
4	20.0	15.5	---	---	7.0	5.0	7.5	6.0	5.0	2.5	8.0	6.0
5	19.5	15.5	---	---	5.0	3.5	6.5	5.0	5.5	3.0	6.5	6.0
6	19.5	15.5	---	---	3.5	2.5	5.5	4.0	5.5	3.0	8.5	5.5
7	19.0	15.0	---	---	2.5	1.5	5.0	3.5	6.0	3.0	10.0	7.0
8	19.0	14.5	---	---	2.0	.5	4.5	3.0	5.0	3.5	11.0	7.5
9	18.5	14.5	---	---	2.0	.0	4.5	2.5	7.0	4.0	12.0	7.5
10	16.0	14.5	---	---	1.5	.0	4.5	2.5	7.0	5.0	12.0	8.0
11	---	---	---	---	2.0	.0	4.0	2.5	8.5	5.5	12.0	8.5
12	---	---	---	---	2.5	.5	4.0	2.5	9.0	6.5	12.0	8.0
13	---	---	---	---	2.5	1.0	5.0	3.0	8.5	7.0	10.0	8.0
14	---	---	7.0	5.5	3.0	1.5	5.0	3.5	9.5	7.0	11.5	7.5
15	---	---	7.5	5.5	3.5	2.0	5.0	4.0	8.5	7.0	10.5	8.5
16	---	---	6.0	4.0	4.0	2.5	6.5	4.5	8.0	6.0	10.5	7.5
17	---	---	6.5	4.0	4.5	3.0	7.0	5.5	9.0	7.0	10.5	7.0
18	---	---	6.5	5.0	5.5	3.5	7.0	5.0	9.0	6.5	9.0	7.0
19	---	---	7.0	4.5	6.0	4.0	8.0	6.5	9.0	---	9.0	7.0
20	---	---	6.5	4.5	5.5	4.0	7.0	5.5	8.5	6.5	10.0	7.0
21	---	---	5.0	4.5	5.5	4.5	7.0	6.5	6.5	5.0	11.0	7.5
22	---	---	7.0	4.5	6.0	5.0	8.5	7.0	6.0	6.0	11.5	8.5
23	---	---	7.5	6.5	5.5	4.0	8.5	7.0	6.0	6.0	11.5	8.5
24	---	---	7.0	4.5	5.0	4.0	7.0	6.0	6.0	6.0	11.5	8.0
25	---	---	5.0	2.5	7.0	5.0	6.5	4.5	6.0	3.5	12.0	9.5
26	---	---	4.5	2.5	---	---	6.5	4.0	5.0	3.0	9.5	7.0
27	---	---	4.5	2.5	---	---	7.0	5.0	5.5	3.0	7.0	6.5
28	---	---	5.0	3.5	8.0	6.5	6.5	5.0	4.0	3.5	10.0	5.5
29	---	---	6.5	4.5	7.0	5.5	4.5	3.0	---	---	11.0	9.0
30	---	---	7.0	5.0	6.0	4.5	3.5	2.5	---	---	10.5	8.5
31	---	---	---	---	5.5	4.0	4.5	2.5	---	---	11.0	8.0
MONTH	20.0	14.5	7.5	2.5	8.0	.0	8.5	2.5	9.5	2.0	12.0	3.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

299

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 current year.

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 current year, twice per hour.

INSTRUMENTATION.--Temperature recorder since April 1972.

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

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, presumably not measured (see "Remarks"); minimum, freezing point Dec. 9-11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	19.0	15.5	10.0	8.5	5.5	5.0	5.0	3.5	4.5	2.5	7.0	5.0
2	19.0	16.0	11.0	8.5	7.0	5.0	5.0	3.0	5.0	3.0	8.5	5.0
3	20.0	15.5	---	---	6.5	6.0	6.5	4.5	5.0	2.5	9.5	6.0
4	20.5	16.0	---	---	7.0	5.0	7.5	6.0	5.0	3.0	9.0	7.0
5	20.0	16.0	---	---	5.0	3.5	6.5	5.5	5.5	3.5	7.5	7.0
6	19.5	16.0	---	---	3.5	2.5	5.5	4.5	6.0	3.5	9.5	6.5
7	19.5	15.5	---	---	3.0	2.0	5.0	3.5	6.5	3.5	10.5	7.0
8	19.5	15.0	---	---	2.0	.5	4.5	3.0	5.5	3.5	11.0	7.5
9	19.0	15.0	---	---	2.0	.0	4.5	2.5	7.0	4.5	---	---
10	18.0	15.0	---	---	1.5	.0	4.5	3.0	7.0	5.0	---	---
11	16.5	14.0	---	---	2.0	.0	4.0	2.5	8.5	6.0	---	---
12	15.5	13.5	---	---	2.5	1.0	4.0	2.5	9.0	7.0	---	---
13	13.0	11.5	8.5	6.5	2.5	1.0	5.0	3.0	9.0	7.0	---	---
14	12.0	10.0	7.0	5.5	3.0	1.5	5.0	3.5	9.5	7.5	---	---
15	10.0	9.5	7.5	6.0	3.5	2.0	5.0	4.0	8.5	7.0	---	---
16	11.0	9.0	6.0	4.0	4.5	2.5	6.5	5.0	8.5	6.5	---	---
17	12.0	9.5	6.5	4.0	4.5	3.0	7.0	6.0	9.5	7.5	---	---
18	12.0	9.0	6.5	5.0	5.5	3.5	7.0	5.5	9.5	7.5	---	---
19	12.5	9.5	7.0	4.5	6.0	4.0	8.0	6.5	10.0	8.0	---	---
20	13.0	10.0	6.5	4.5	5.5	4.5	7.0	5.5	8.0	6.0	---	---
21	13.0	10.5	5.0	4.5	5.5	4.5	7.0	6.5	7.0	5.0	---	---
22	12.5	10.5	7.5	5.0	6.5	5.0	8.5	7.0	7.5	5.0	---	---
23	12.0	9.5	7.5	6.5	5.5	4.0	9.0	7.5	8.5	6.0	---	---
24	12.0	9.5	7.0	5.0	5.5	4.0	7.0	6.0	8.0	6.0	---	---
25	11.5	10.0	5.0	3.0	7.0	5.0	7.0	5.0	6.5	5.0	---	---
26	11.0	9.0	4.5	2.5	7.5	6.5	6.5	4.5	6.5	4.0	---	---
27	11.5	9.0	5.0	2.5	7.5	6.0	7.0	5.0	7.0	4.0	---	---
28	10.5	8.5	5.5	3.5	8.0	7.0	6.5	5.0	7.0	4.5	---	---
29	10.0	7.0	6.5	4.5	7.0	5.5	5.0	3.5	---	---	---	---
30	9.5	7.5	7.0	5.0	6.0	4.5	3.5	2.5	---	---	---	---
31	10.0	7.5	---	---	5.5	4.0	5.0	2.5	---	---	---	---
MONTH	20.5	7.0	11.0	2.5	8.0	.0	9.0	2.5	10.0	2.5	11.0	5.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

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; Oct. 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.--Temperature recorder malfunctioned Oct. 1-10.

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 in January 1973 and January 1974.

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

WATER TEMPERATURES: Maximum, 27.0°C June 22, 26-29, July 3-4; minimum, 0.5°C Dec. 9-11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	---	---	9.5	8.5	5.5	5.0	4.5	3.5	5.0	3.5	7.5	6.5
2	---	---	10.5	8.5	6.5	5.0	4.5	3.0	5.0	3.5	9.0	6.5
3	---	---	11.0	9.0	6.5	6.0	6.0	4.5	5.0	3.0	10.0	7.5
4	---	---	11.0	9.0	7.0	6.0	7.0	6.0	5.5	3.5	9.5	8.0
5	---	---	10.5	9.0	5.5	4.0	6.5	5.5	6.0	4.0	9.0	8.0
6	---	---	11.5	9.5	4.0	3.0	5.5	4.5	6.0	4.0	10.0	7.5
7	---	---	11.5	10.0	3.5	2.0	4.5	4.0	6.0	4.0	10.5	8.5
8	---	---	11.5	10.0	2.0	1.5	4.5	3.0	6.0	4.5	11.5	9.0
9	---	---	11.0	9.5	2.0	.5	4.0	3.0	7.5	5.0	12.0	9.0
10	---	---	10.0	8.5	1.5	.5	4.0	3.0	7.5	6.0	12.5	9.5
11	17.0	14.5	9.5	8.5	2.0	.5	4.0	3.0	8.5	6.5	12.0	9.5
12	15.5	14.0	9.0	8.5	2.0	1.0	4.0	3.0	9.5	7.5	12.0	9.5
13	14.0	12.0	8.5	7.0	2.5	1.0	4.5	3.0	9.0	7.5	11.5	10.0
14	12.0	11.0	7.0	6.5	2.5	1.5	5.0	3.5	9.5	8.5	12.0	9.5
15	11.0	9.5	7.5	6.5	3.0	2.0	5.0	4.0	9.5	8.5	11.0	9.5
16	10.5	9.5	6.5	5.0	4.0	2.5	6.5	5.0	9.0	7.5	11.0	9.5
17	11.5	9.5	6.5	5.0	4.0	2.5	7.0	5.5	10.0	8.5	11.0	9.0
18	12.0	9.5	6.5	5.0	5.0	3.5	7.0	5.5	10.0	9.0	10.5	9.0
19	12.0	9.5	7.0	5.0	5.5	4.0	7.5	6.5	10.5	9.0	10.5	9.0
20	12.5	10.0	6.0	5.0	5.5	4.0	7.5	6.0	9.5	7.5	11.0	9.0
21	12.5	10.5	6.0	5.0	5.5	4.5	7.5	6.5	7.5	6.5	11.5	9.5
22	12.5	10.5	7.0	5.0	6.0	5.0	8.0	7.0	8.0	6.0	12.0	10.0
23	12.0	10.0	7.0	6.5	5.5	4.5	8.5	7.5	9.0	7.0	12.5	10.0
24	12.0	9.5	7.0	5.5	5.0	4.0	8.0	7.0	9.0	7.5	12.5	10.0
25	11.5	10.5	5.5	4.5	6.5	5.0	7.0	5.5	7.5	7.0	12.5	11.0
26	10.5	9.5	4.5	3.5	7.0	6.0	6.5	5.0	7.5	5.5	12.0	10.0
27	11.0	9.5	4.5	3.0	7.5	6.0	7.5	5.5	7.5	5.5	10.0	8.5
28	10.0	9.0	5.0	3.5	7.5	6.5	7.0	5.5	7.5	5.5	11.0	7.5
29	9.5	7.5	6.5	4.5	7.0	6.0	6.5	5.0	---	---	12.5	10.0
30	9.0	7.5	6.5	5.0	6.0	4.5	6.0	3.5	---	---	12.0	10.5
31	9.5	8.0	---	---	5.5	4.0	5.0	3.5	---	---	11.5	10.0
MONTH	17.0	7.5	11.5	3.0	7.5	.5	8.5	3.0	10.5	3.0	12.5	6.5

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

303

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.--15 years, 280 ft³/s (7.930 m³/s), 202,860 acre-ft/yr (250 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 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	115	446	438	47	336	373	364	396	196	148	188
2	266	124	458	439	47	341	374	369	373	180	134	184
3	203	116	437	439	47	333	376	367	384	159	138	188
4	221	116	479	448	48	327	357	361	399	159	153	175
5	221	114	496	462	48	331	380	362	334	158	158	155
6	218	115	487	447	47	334	366	359	325	163	156	164
7	200	119	429	446	48	322	364	354	325	153	159	177
8	208	120	409	356	48	322	362	358	304	153	152	186
9	212	121	393	142	47	319	366	381	279	141	144	191
10	208	112	428	69	49	314	374	423	276	142	156	187
11	208	121	427	68	50	314	363	417	275	134	161	174
12	241	121	421	68	51	318	357	382	251	145	159	159
13	255	121	428	68	52	344	335	376	213	150	150	177
14	250	115	433	68	51	365	322	383	214	157	170	207
15	232	111	434	68	56	340	335	425	222	153	185	214
16	163	101	434	68	56	333	325	511	215	146	192	207
17	105	104	440	68	56	332	277	519	205	137	208	202
18	122	110	440	68	59	328	277	497	229	122	226	190
19	123	113	442	68	56	336	351	514	222	127	229	163
20	115	253	450	68	57	361	343	461	194	123	215	181
21	118	436	437	66	58	368	345	521	175	121	193	194
22	120	440	438	34	57	398	353	513	157	119	185	207
23	130	437	459	23	56	401	348	462	171	117	175	229
24	129	433	450	56	54	397	383	476	186	124	175	237
25	115	430	451	62	136	389	387	456	197	145	173	236
26	114	440	461	61	381	432	368	431	190	149	158	262
27	117	449	453	63	402	492	384	427	203	149	148	262
28	118	439	407	66	402	434	351	409	191	152	164	253
29	117	439	468	67	---	447	357	404	181	153	175	267
30	121	435	463	61	---	470	356	405	190	158	187	249
31	113	---	441	48	---	425	---	428	---	159	191	---
TOTAL	5366	6820	13739	4973	2566	11303	10609	13115	7476	4544	5317	6065
MEAN	173	227	443	160	91.6	365	354	423	249	147	172	202
MAX	283	449	496	462	402	492	387	521	399	196	229	267
MIN	105	101	393	23	47	314	277	354	157	117	134	155
AC-FT	10640	13530	27250	9860	5090	22420	21040	26010	14830	9010	10550	12030
CAL YR 1980	TOTAL	73139.8	MEAN	200	MAX	606	MIN	4.9	AC-FT	145100		
WTR YR 1981	TOTAL	91893.0	MEAN	252	MAX	521	MIN	23	AC-FT	182300		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION (REVISED).--Lat 39°29'56", long 119°02'29", in SW¼ 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.--14 years (1967-80) 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 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 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	87	427	410	43	382	382	207	278	14	12	77
2	166	97	455	411	41	338	348	238	238	43	38	78
3	107	103	460	411	41	336	372	182	231	11	13	71
4	105	95	458	413	41	329	354	194	268	2.7	3.4	99
5	141	101	488	415	41	329	307	187	206	28	10	54
6	170	78	492	405	41	334	329	244	151	65	64	31
7	142	66	469	420	40	329	311	245	166	38	38	78
8	105	59	433	366	40	323	317	245	189	14	23	102
9	109	63	407	87	40	334	304	245	156	19	16	121
10	73	56	403	73	40	336	326	284	172	21	14	87
11	99	66	421	72	39	332	323	359	160	20	35	23
12	150	90	416	72	39	324	324	361	152	6.5	44	11
13	177	97	409	72	39	309	316	361	110	9.2	24	19
14	191	102	414	72	39	370	235	361	77	16	23	19
15	220	103	413	71	39	358	204	361	107	19	57	56
16	169	103	416	70	44	329	176	397	70	52	70	63
17	116	102	417	70	44	315	112	428	54	55	65	93
18	91	115	419	70	42	317	108	444	57	14	64	78
19	81	184	418	70	45	335	213	447	30	10	113	39
20	79	189	421	69	39	360	260	414	30	48	62	28
21	104	341	420	69	38	380	231	434	36	14	60	40
22	99	401	410	54	38	408	251	465	33	12	38	44
23	76	403	421	19	38	410	266	434	15	12	42	82
24	76	398	428	11	38	408	253	432	3.8	7.0	81	110
25	78	393	422	50	102	394	265	427	1.5	5.1	79	93
26	76	393	422	60	357	414	289	402	1.7	7.6	78	77
27	74	406	429	61	386	453	294	400	1.7	7.0	55	116
28	74	406	402	64	416	450	240	371	1.0	2.0	33	143
29	90	403	413	66	---	444	252	326	3.4	3.8	67	150
30	104	408	435	67	---	443	232	294	2.4	6.0	78	147
31	88	---	424	54	---	433	---	274	---	6.0	118	---
TOTAL	3607	5908	13282	4694	2230	11356	8194	10463	3001.5	587.9	1517.4	2229
MEAN	116	197	428	151	79.6	366	273	338	100	19.0	48.9	74.3
MAX	220	408	492	420	416	453	382	465	278	65	118	150
MIN	73	56	402	11	38	309	108	182	1.0	2.0	3.4	11
AC-FT	7150	11720	26340	9310	4420	22520	16250	20750	5950	1170	3010	4420
CAL YR 1980	TOTAL	57830.3	MEAN	158	MAX	568	MIN	3.0	AC-FT	114700		
WTR YR 1981	TOTAL	67069.8	MEAN	184	MAX	492	MIN	1.0	AC-FT	133000		

10351590 TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR, NV

WATER-QUALITY RECORDS

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 September 1981 (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, 393 micromhos Feb. 3, 1981; minimum, 105 micromhos May 21, 1981.

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.

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, 393 micromhos Feb. 3; minimum, 105 micromhos May 21.

WATER TEMPERATURES: Maximum, 24.5°C June 21; minimum, freezing point Dec. 10, 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	DIS- SOLVED (PER- CENT SATUR- ATION)
OCT							
15...	0930	E226	268	7.8	11.0	7.8	83
NOV							
19...	0835	E105	252	7.9	3.5	10.2	89
DEC							
17...	0935	E415	226	7.9	2.0	11.0	92
JAN							
13...	1355	E72	215	8.0	3.5	11.6	101
MAR							
19...	1050	E467	301	7.6	8.0	8.0	79
APR							
09...	0810	E299	274	7.5	12.0	6.9	75
MAY							
06...	0850	E245	122	7.2	11.5	--	--
JUN							
10...	0840	E176	196	--	19.5	7.7	97
JUL							
15...	1215	E12	270	--	24.0	14.0	194
AUG							
12...	0815	E55	--	7.9	22.5	6.4	86
SEP							
17...	1205	E96	251	8.5	22.0	9.4	125

E: ESTIMATED.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351590 TRUCKEE CANAL AT US 50 ABOVE LAHONTAN RESERVOIR, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 15...	1.20	.120	.190	.78	2.3	.400	.380
NOV 19...	.83	.040	.220	.50	1.6	.200	.170
DEC 17...	.51	.020	.760	.44	1.7	.360	.350
JAN 13...	.66	.030	.530	--	--	.290	.310
MAR 19...	.75	.090	--	--	2.7	.050	.020
APR 09...	.87	.070	.790	1.0	2.7	.690	.640
MAY 06...	.39	.030	.150	.31	.88	.190	.140
JUN 10...	.86	.140	.130	.59	1.7	--	.610
JUL 15...	.66	.060	.130	.55	1.4	.410	.350
AUG 12...	.69	.090	.150	.73	1.7	.340	.310
SEP 17...	1.10	.230	.240	.69	2.2	.640	.620

10351590 TRUCKEE CANAL AT US 50 ABOVE LAHONTAN RESERVOIR, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	4.5	4.0	2.0	5.5	8.5	17.0	---	23.0	17.0	20.5
2		---	4.5	3.0	2.5	6.0	9.0	16.0	17.0	23.0	20.0	21.0
3		---	5.5	3.5	2.0	6.0	10.0	15.0	17.0	24.0	19.0	21.0
4		---	6.0	4.5	2.0	7.5	9.5	14.5	17.0	22.0	17.5	20.0
5		9.5	5.5	5.0	2.5	7.0	10.0	13.0	19.0	19.5	17.0	19.0
6		10.0	4.5	4.5	3.0	7.0	12.0	12.0	21.0	23.5	20.0	19.0
7		10.5	2.5	3.0	3.0	7.0	13.0	12.0	19.0	21.5	23.5	19.5
8		---	1.0	3.0	2.5	8.0	12.5	13.0	19.5	20.5	23.0	20.5
9		10.0	.5	3.0	4.0	9.5	12.5	13.5	19.5	20.5	23.0	20.5
10		9.5	.0	3.0	4.0	9.5	13.0	15.0	20.5	20.5	20.0	20.0
11		9.5	.5	1.5	4.5	---	12.0	14.0	18.0	20.0	23.0	---
12		8.5	.5	2.0	5.5	---	10.5	15.5	18.0	20.0	23.0	18.5
13		7.0	.0	2.0	6.5	8.0	11.0	15.0	16.0	17.0	23.0	19.0
14		7.0	.5	2.0	6.5	9.0	13.0	15.0	16.0	19.0	21.5	18.5
15		6.0	1.0	2.0	6.5	9.5	14.0	14.0	17.0	21.0	21.0	20.0
16		5.0	1.5	3.0	7.0	10.0	14.5	13.5	18.0	22.0	23.0	20.0
17		4.5	2.0	3.5	9.0	9.0	14.5	13.0	18.5	---	22.0	20.0
18		4.5	3.0	3.0	9.0	---	13.5	14.0	19.5	21.0	23.0	20.0
19		4.0	3.5	4.0	10.5	8.5	12.0	12.0	21.0	19.0	24.0	20.0
20		4.5	4.0	4.0	6.5	9.0	13.0	11.0	22.0	23.0	21.5	19.0
21		---	4.0	---	7.0	10.0	13.0	11.0	24.5	21.0	22.0	18.0
22		---	4.5	5.5	6.0	9.5	13.0	14.0	24.0	22.0	20.0	18.0
23		5.5	4.5	6.5	7.5	11.0	15.0	14.5	21.0	22.0	21.0	17.5
24		4.5	4.0	5.0	6.5	---	16.0	15.5	21.0	18.0	20.0	15.5
25		4.5	4.5	4.5	6.0	10.5	14.5	15.0	21.5	16.5	20.0	14.0
26		3.5	5.5	4.0	5.5	10.0	11.5	15.0	19.5	19.0	21.0	15.0
27		2.5	6.0	5.0	---	8.0	11.0	15.5	18.0	20.5	21.0	16.0
28		3.5	6.0	4.0	6.0	7.0	13.0	16.0	19.0	20.5	21.0	15.0
29		3.5	6.0	4.0	---	8.0	14.0	17.0	20.0	18.0	21.0	15.5
30		5.0	5.0	4.0	---	9.0	15.5	15.5	20.0	20.0	21.0	14.0
31		---	4.0	2.5	---	10.0	---	15.5	---	20.0	21.0	---
MEAN		6.0	3.5	3.5	5.5	8.5	12.5	14.5	19.5	20.5	21.0	18.5
MAX		10.5	6.0	6.5	10.5	11.0	16.0	17.0	24.5	24.0	24.0	21.0
MIN		2.5	.0	1.5	2.0	5.5	8.5	11.0	16.0	16.5	17.0	14.0
WTR YR 1981	MEAN	12.5	MAX	24.5	MIN	.0						

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	223	231	247	224	221	140	132	265	265	260
2		---	223	226	295	254	259	140	132	265	290	270
3		---	200	217	393	270	287	131	146	285	290	270
4		---	200	224	379	263	283	123	153	265	290	260
5		236	204	221	299	281	272	123	153	265	285	270
6		231	242	236	262	281	259	129	175	239	285	260
7		241	---	239	269	267	267	133	185	260	280	260
8		258	270	231	262	274	259	133	185	260	270	270
9		250	242	239	259	281	272	136	192	260	270	270
10		250	245	231	259	281	259	140	200	255	275	260
11		256	228	234	269	---	247	136	233	260	265	260
12		241	270	236	287	---	247	133	221	260	265	270
13		241	212	217	276	277	226	119	241	250	265	270
14		241	212	229	287	277	228	115	241	285	270	255
15		241	220	248	287	274	253	115	229	285	265	281
16		256	216	236	297	289	241	115	253	260	275	260
17		250	212	241	293	335	238	115	267	265	275	255
18		244	212	268	288	---	226	110	257	255	265	248
19		236	217	259	288	---	238	111	264	260	255	248
20		232	217	278	208	306	267	106	283	260	250	279
21		---	231	---	208	287	184	105	267	260	245	279
22		---	231	292	239	295	177	111	267	270	235	279
23		223	221	---	204	299	198	112	260	270	250	279
24		223	228	292	204	---	194	112	287	270	275	291
25		219	224	292	204	256	169	112	271	275	255	281
26		215	221	299	226	265	163	116	275	280	260	281
27		207	224	278	---	317	169	119	279	265	270	281
28		200	221	292	231	221	158	120	279	265	270	307
29		207	238	285	---	214	151	126	292	265	275	270
30		215	226	307	---	236	145	133	260	270	270	281
31		---	221	307	---	228	---	133	---	275	---	---
MEAN		234	225	255	267	271	225	123	229	265	269	270
MAX		258	270	307	393	335	287	140	292	285	290	307
MIN		200	200	217	204	214	145	105	132	239	235	248
WTR YR 1981	MEAN	239	MAX	393	MIN	105						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW¼ 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.--62 years (1918-57, 1958-81), 326 ft³/s (9.232 m³/s), 236,200 acre-ft/yr (291 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, 2,050 ft³/s (58.1 m³/s) May 19, gage height, 5.99 ft (1.826 m); minimum daily, 6.8 ft³/s (0.19 m³/s) Apr. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	293	26	40	389	16	8.9	614	475	40	28	21
2	107	323	48	28	364	16	8.2	734	381	40	26	15
3	57	297	23	22	360	15	7.7	661	306	36	26	15
4	30	276	163	19	349	14	7.2	618	203	32	27	27
5	29	273	143	15	324	14	7.1	688	209	32	27	41
6	44	281	23	12	284	14	7.1	635	200	32	28	41
7	60	272	16	11	278	14	7.1	564	142	31	28	42
8	59	277	15	238	276	14	6.8	605	91	31	27	44
9	59	316	15	370	292	13	6.8	610	65	29	26	45
10	57	289	17	364	321	13	16	653	67	29	26	46
11	57	339	17	352	313	12	29	851	86	32	25	43
12	59	392	17	344	310	12	29	903	80	34	25	35
13	62	370	16	341	276	13	29	972	75	34	25	34
14	64	349	15	329	345	15	29	1030	75	34	40	34
15	132	321	15	326	697	14	29	972	57	35	26	41
16	224	296	17	331	548	13	30	1120	39	35	25	44
17	275	293	17	340	560	12	28	1340	30	35	25	42
18	271	344	16	338	631	12	29	1360	18	34	26	45
19	280	347	18	335	580	12	200	1770	31	33	30	46
20	276	155	24	334	593	12	295	1460	56	33	39	47
21	260	26	15	360	536	13	231	1400	52	39	28	50
22	311	22	17	408	464	14	249	1370	44	38	27	47
23	302	20	23	347	442	15	262	1330	33	30	25	49
24	282	18	29	313	421	15	321	1300	39	27	23	49
25	275	18	34	295	202	14	267	1160	42	27	23	52
26	267	27	21	278	68	18	239	1020	40	27	20	49
27	265	33	21	314	46	21	334	1040	42	27	20	50
28	297	20	16	493	23	15	421	801	41	27	20	50
29	326	26	27	476	---	13	482	725	40	27	21	58
30	309	22	25	477	---	12	482	748	40	28	22	65
31	286	---	32	431	---	11	---	688	---	30	23	---
TOTAL	5471	6335	921	8681	10292	431	4097.9	29742	3099	998	807	1267
MEAN	176	211	29.7	280	368	13.9	137	959	103	32.2	26.0	42.2
MAX	326	392	163	493	697	21	482	1770	475	40	40	65
MIN	29	18	15	11	23	11	6.8	564	18	27	20	15
AC-FT	10850	12570	1830	17220	20410	855	8130	58990	6150	1980	1600	2510
CAL YR 1980	TOTAL	203837.0	MEAN	557	MAX	7110	MIN	10	AC-FT	404300		
WTR YR 1981	TOTAL	72141.9	MEAN	198	MAX	1770	MIN	6.8	AC-FT	143100		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°38'19", long 119°16'09", in SW1SW1 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.--16 years, 506 ft³/s (14.33 m³/s), 366,600 acre-ft/yr (452 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, 1,970 ft³/s (558 m³/s) May 19, gage height, 7.88 ft (2.402 m); minimum daily, 11 ft³/s (0.31 m³/s) Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	260	56	40	406	37	26	627	546	34	29	29
2	103	309	86	40	367	30	21	763	420	37	29	28
3	110	296	67	40	364	28	19	733	357	32	21	25
4	90	268	210	40	354	28	14	679	221	44	22	25
5	71	264	361	45	335	27	13	719	218	41	25	37
6	54	277	119	44	277	24	18	706	215	38	27	41
7	62	277	62	42	267	23	22	621	159	33	27	42
8	64	271	48	196	265	27	21	675	101	33	25	44
9	65	343	38	382	277	30	12	690	59	34	26	45
10	64	309	41	375	319	30	11	719	66	36	22	46
11	64	350	46	361	306	29	27	909	83	36	18	45
12	72	404	44	354	306	28	35	995	79	33	22	44
13	84	379	44	350	262	29	36	1140	78	34	27	43
14	88	364	44	329	299	29	26	1240	74	36	27	40
15	129	343	43	329	685	30	30	1190	69	36	32	42
16	184	316	44	336	551	26	33	1310	58	36	35	43
17	230	312	45	354	504	25	33	1460	45	36	38	45
18	215	379	45	354	646	24	30	1400	33	36	35	47
19	215	401	45	354	568	23	81	1790	35	35	32	48
20	218	256	46	357	582	22	305	1520	38	31	50	47
21	198	62	46	371	582	22	212	1440	60	33	45	49
22	249	52	43	420	495	23	207	1410	59	33	40	51
23	249	46	48	371	491	25	215	1390	50	30	36	55
24	222	43	49	309	487	24	248	1360	31	25	33	57
25	230	41	46	290	364	24	269	1260	34	26	29	58
26	217	41	46	266	84	22	182	1090	37	22	25	55
27	219	63	48	297	84	30	278	1120	35	26	24	51
28	256	50	34	516	46	30	400	876	37	26	25	55
29	302	46	45	501	---	31	484	780	42	21	24	60
30	282	52	48	515	---	29	519	806	33	25	27	63
31	254	---	44	448	---	29	---	760	---	27	30	---
TOTAL	4950	6874	2031	9026	10573	838	3827	32178	3372	1005	907	1360
MEAN	160	229	65.5	291	378	27.0	128	1038	112	32.4	29.3	45.3
MAX	302	404	361	516	685	37	519	1790	546	44	50	63
MIN	54	41	34	40	46	22	11	621	31	21	18	25
AC-FT	9820	13630	4030	17900	20970	1660	7590	63830	6690	1990	1800	2700
CAL YR 1980	TOTAL	206048	MEAN 563	MAX 7800	MIN 11	AC-FT 408700						
WTR YR 1981	TOTAL	76941	MEAN 211	MAX 1790	MIN 11	AC-FT 152600						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW¼NW¼ sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank 1.0 mi (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.--24 years, 421 ft³/s (11.92 m³/s), 305,000 acre-ft/yr (376 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, 2,000 ft³/s (56.6 m³/s) May 19, gage height, 6.29 ft (1.917 m); minimum daily, 18 ft³/s (0.51 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	327	78	62	445	61	40	568	586	32	28	31
2	93	350	90	62	403	51	35	709	444	38	30	29
3	95	332	99	62	402	48	33	710	390	30	28	29
4	64	313	96	63	394	45	33	653	235	46	20	25
5	48	309	261	64	386	48	33	677	229	43	22	25
6	42	317	147	65	336	44	33	695	230	39	25	39
7	49	313	93	63	324	42	34	626	200	37	27	42
8	67	293	74	78	320	41	34	620	146	33	28	43
9	65	355	67	357	328	39	37	645	104	35	25	45
10	62	332	76	368	357	38	36	660	87	37	27	46
11	58	347	69	360	357	38	36	836	93	37	20	46
12	63	416	67	357	355	39	55	938	100	37	18	46
13	63	407	65	356	326	43	56	1010	97	33	24	44
14	75	387	66	345	332	42	53	1100	93	36	28	41
15	81	367	65	345	607	42	53	1080	87	37	26	39
16	175	340	67	341	605	41	55	1130	71	36	34	43
17	268	332	68	355	515	39	56	1350	53	36	34	44
18	293	359	68	354	657	39	55	1400	44	37	39	44
19	282	391	68	354	585	39	63	1760	32	36	36	49
20	293	351	69	356	584	38	292	1650	35	35	31	48
21	282	112	70	349	589	38	234	1500	55	31	52	47
22	289	93	67	428	483	38	226	1440	61	34	44	47
23	310	84	68	416	459	39	234	1430	59	33	41	54
24	293	79	71	341	437	38	251	1380	44	26	40	56
25	282	75	69	333	387	39	293	1290	31	25	34	57
26	274	73	68	314	120	39	216	1130	38	27	28	59
27	281	83	70	320	107	38	289	1140	35	21	23	55
28	301	85	66	467	77	45	391	925	36	26	26	50
29	339	75	61	506	---	40	452	779	43	26	24	57
30	331	80	70	513	---	41	486	779	35	21	24	62
31	310	---	67	477	---	39	---	759	---	26	29	---
TOTAL	5601	7777	2500	9231	11277	1291	4194	31369	3793	1026	915	1342
MEAN	181	259	80.6	298	403	41.6	140	1012	126	33.1	29.5	44.7
MAX	339	416	261	513	657	61	486	1760	586	46	52	62
MIN	42	73	61	62	77	38	33	568	31	21	18	25
AC-FT	11110	15430	4960	18310	22370	2560	8320	62220	7520	2040	1810	2660
CAL YR 1980	TOTAL	213429	MEAN	583	MAX	8000	MIN	29	AC-FT	423300		
WTR YR 1981	TOTAL	80316	MEAN	220	MAX	1760	MIN	12	AC-FT	159300		

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 current year, monthly.

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 current year, monthly.

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 current year, monthly.

INSTRUMENTATION.--Specific-conductance and temperature recorder since May 1980.

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 1,110 micromhos Nov. 18, 1977; minimum, 96 micromhos May 17, June 1, 1969.

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; minimum, freezing point on 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, 941 micromhos June 21; minimum, 179 micromhos May 5.

WATER TEMPERATURES: Maximum, 28.5°C July 3, 4; minimum, freezing point Dec. 8-11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 (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											
08...	1130	67	588	8.5	16.5	5.0	9.0	--	K19	K11	150
DEC											
05...	1130	271	296	8.2	5.0	5.6	10.8	98	K28	240	75
JAN											
07...	1100	62	624	8.4	3.5	2.0	11.0	95	<2	K4	160
MAR											
09...	0900	39	852	8.7	9.5	2.8	10.0	100	K1	190	210
APR											
08...	1030	35	912	8.7	12.0	1.2	10.0	108	<2	K5	230
MAY											
05...	1130	674	179	7.6	12.5	16	9.4	101	K49	96	53
JUN											
09...	1030	109	441	8.8	19.5	1.9	8.7	110	K22	K70	110
JUL											
14...	1030	37	900	8.9	20.5	3.2	8.0	103	K15	220	220
AUG											
11...	1000	20	921	8.4	22.5	1.7	5.7	76	K10	480	230
SEP											
16...	1115	42	685	8.6	21.5	1.9	8.1	105	K13	290	170

K: NON-IDEAL COLONY COUNT.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 08...	37	15	59	2.1	6.6	140	3	120	64	73	.1
DEC 05...	18	7.2	24	1.2	5.1	94	0	77	27	23	.2
JAN 07...	37	16	64	2.2	5.1	120	2	100	83	85	.1
MAR 09...	48	21	97	2.9	5.9	150	9	140	100	150	.1
APR 08...	55	23	100	2.9	7.1	--	--	--	120	160	.2
MAY 05...	13	4.9	14	.8	2.4	67	0	55	18	11	.1
JUN 09...	26	10	43	1.8	4.5	100	5	90	47	55	.1
JUL 14...	51	22	100	2.9	8.6	150	9	140	120	150	.1
AUG 11...	55	23	100	3.1	8.9	--	--	--	110	150	.2
SEP 16...	42	17	71	2.5	7.2	160	7	140	70	99	.1

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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 08...	18	346	346	62.6	.00	.010	.00	.040	.040	.70
DEC 05...	17	170	172	124	.82	.030	.72	.120	.060	1.1
JAN 07...	16	376	369	62.9	.50	.010	.52	.010	.030	.60
MAR 09...	25	512	531	53.9	.30	.010	.11	.040	.030	--
APR 08...	15	550	553	52.0	.00	.000	.00	.030	.020	.96
MAY 05...	13	118	112	215	--	--	.38	.150	.040	.67
JUN 09...	16	260	250	76.5	.09	.020	.15	.100	.120	.74
JUL 14...	23	551	553	55.0	.09	.030	.05	.130	.050	.72
AUG 11...	24	564	561	30.5	--	.000	<.10	.100	.120	.48
SEP 16...	18	407	410	46.2	--	.010	<.10	.060	<.060	.83

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (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, TOTAL (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- PENDE TOTAL (MG/L AS C)
OCT 08...	.63	.74	.67	.230	.210	.210	.220	--	5.0	.3
DEC 05...	.86	2.0	1.6	.330	.230	.270	.240	--	--	--
JAN 07...	.58	1.1	1.1	.220	.180	.200	.170	--	3.3	.2
MAR 09...	.62	--	.76	.200	--	.160	.180	5.9	--	--
APR 08...	.58	.99	.60	.150	.150	.090	.100	--	4.4	.0
MAY 05...	.61	1.2	1.0	.290	.170	.180	.120	6.3	--	--
JUN 09...	.77	.95	1.0	.230	.220	--	.260	5.6	--	--
JUL 14...	.78	.97	.88	.210	.180	.210	.140	--	3.6	.3
AUG 11...	.32	--	--	.200	.150	.120	.120	3.3	--	--
SEP 16...	--	--	--	.120	.110	.120	.070	3.0	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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)
OCT 08...	1130	16	14	100	70	0	<1	10	0	1
JAN 07...	1100	10	9	100	60	0	1	0	0	0
APR 08...	1030	12	12	100	80	0	<1	20	10	1
JUL 14...	1030	13	13	100	90	0	<1	--	10	1

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 08...	<3	15	4	280	20	3	2	110	40	.1
JAN 07...	<3	4	0	140	30	1	1	90	80	.1
APR 08...	<3	5	1	200	40	2	1	40	30	.1
JUL 14...	<3	3	2	240	30	1	0	100	20	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 08...	.1	5	2	0	0	0	0	40	<3
JAN 07...	.0	2	0	0	0	0	0	10	10
APR 08...	.2	3	3	0	0	0	0	50	10
JUL 14...	.2	2	2	0	0	0	0	30	20

DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 08...	1130	18	3.3
DEC 05...	1130	25	18
JAN 07...	1100	2	.33
MAR 09...	0900	7	.74
APR 08...	1030	4	.38
MAY 05...	1130	63	115
JUN 09...	1030	4	1.2
JUL 14...	1030	20	2.0
AUG 11...	1000	7	.38
SEP 16...	1115	5	.57

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

	NOV 6,80	MAR 9,81	MAY 5,81	JUN 9,81
TIME	1000	0900	1130	1030
TOTAL CELLS/ML	2700	660	8400	1500
DIVERSITY: DIVISION	0.6	0.7	0.5	1.3
..CLASS	0.6	0.7	0.5	1.3
..ORDER	1.6	1.5	1.1	2.4
...FAMILY	1.8	1.5	1.2	2.8
....GENUS	2.6	1.5	1.2	3.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	-	--	-	--	-	--	-
.....COCCONEIS	*	0	--	-	*	0	13	1
.....RHOICOSPHEA	--	-	--	-	*	0	--	-
..BACILLARIALES								
...NITZSCHIALES								
....NITZSCHIA	210	8	13	2	190	2	150	10
..EPITHEMIALES								
...EPITHEMIA	--	-	--	-	--	-	--	-
..EUPODISCALES								
...COSCONODISCACEAE								
....CYCLOTELLA	90	3	--	-	64	1	490#	32
....MELOSIRA	*	0	--	-	64	1	130	8
....STEPHANODISCUS	--	-	490#	75	--	-	--	-
..FRAGILARIALES								
...FRAGILARIACEAE								
....DIATOMA	540#	20	--	-	--	-	--	-
....FRAGILARIA	1200#	45	26	4	7000#	83	130	8
....SYNEDRA	52	2	--	-	52	1	13	1
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	13	1
....CYMBELLA	--	-	--	-	*	0	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	52	2	--	-	*	0	--	-
...NAVICULACEAE								
....NAVICULA	180	7	39	6	260	3	52	3
..SURIPELLALES								
...SURIPELLACEAE								
....SURIPELLA	--	-	--	-	*	0	--	-
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE								
.....SCHROEDERIA	--	-	--	-	--	-	13	1
.....TETRAEDRON	--	-	--	-	--	-	--	-
...DICTYOSPHAERIALES								
....DICTYOSPHAERIUM	--	-	--	-	--	-	100	7
...HYDRODICTYACEAE								
....PEDIASTRUM	100	4	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	--	-	--	-	39	3
....CHODATELLA	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	13	1
....TREUBARIA	--	-	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	150	6	52	8	150	2	100	7
....TETRASTRUM	--	-	--	-	--	-	100	7
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	13	2	*	0	26	2
....LOBOMONAS	--	-	--	-	--	-	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....GONIUM	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	210	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

(CONTINUED)

DATE TIME	NOV 6,80 1000		MAR 9,81 0900		MAY 5,81 1130		JUN 9,81 1030	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	13	2	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	52	2	--	-	170	2	100	7
...NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	130	2	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	13	2	--	-	26	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 14,81	AUG 11,81	SEP 16,81
TIME	1030	1000	1115
TOTAL CELLS/ML	12000	4400	4500
DIVERSITY: DIVISION	0.7	1.4	1.4
..CLASS	0.7	1.4	1.4
..ORDER	1.1	2.1	2.4
...FAMILY	1.2	3.3	2.8
....GENUS	1.4	3.6	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
....ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	140	3
....COCCONEIS	--	-	--	-	--	-
....RHOICOSPHEA	--	-	--	-	--	-
..BACILLARIALES						
...NITZSCHIA	--	-	28	1	56	1
...EPITHEMIALES						
....EPITHEMIA	--	-	*	0	140	3
..EUPODISCALES						
...COSCINODISCACEAE						
....CYCLOTELLA	8700#	72	42	1	310	7
....MELOSIRA	240	2	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-
..FRAGILARIALES						
...FRAGILARIACEAE						
....DIATOMA	--	-	--	-	42	1
....FRAGILARIA	960	8	690#	16	1800#	40
....SYNEDRA	--	-	--	-	*	0
..NAVICULALES						
...CYMBELLACEAE						
....AMPHORA	--	-	*	0	28	1
....CYMBELLA	--	-	--	-	28	1
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	*	0
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
..SURIPELLALES						
...SURIPELLACEAE						
....SURIPELLA	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....CHLOROCOCCACEAE						
....SCHROEDERIA						
....TETRAEDRON	80	1	*	0	*	0
...DICTYOSPHAERIALES						
....DICTYOSPHAERIUM	--	-	830#	19	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	360	8	84	2
...MICRACTINIACEAE						
....GOLENKINIA	--	-	*	0	--	-
....MICRACTINIUM	--	-	28	1	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	160	1	510	12	250	6
....CHODATELLA	--	-	*	0	--	-
....FRANCEIA	--	-	*	0	--	-
....KIRCHNERIELLA	--	-	--	-	*	0
....OOCYSTIS	--	-	97	2	--	-
....SELENASTRUM	--	-	42	1	28	1
....TREUBARIA	80	1	--	-	--	-
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	*	0	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	--	-	83	2	--	-
....SCENEDESMUS	1800	15	190	4	700#	15
....TETRASTRUM	--	-	110	3	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	80	1	28	1	200	4
....LOBOMONAS	--	-	97	2	--	-
...PHACOTACEAE						
....PTEROMONAS	--	-	*	0	28	1
...VOLVOCAEAE						
....GONIUM	--	-	220	5	--	-
....PANDORINA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

(CONTINUED)

DATE TIME	JUL 14,81 1030		AUG 11,81 1000		SEP 16,81 1115	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	--	-	340	7
....ANACYSTIS	--	-	150	3	290	6
...NOSTOCALES						
...NOSTOCACEAE						
....ANABAENA	--	-	690#	16	--	-
...OSCILLATORIALES						
...OSCILLATORIA						
....OSCILLATORIA	--	-	83	2	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	*	0	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

[illegible]

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

BLACK ROCK DESERT BASIN

10352500 McDERMITT CREEK NEAR McDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE¼SE¼ sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on right bank at mouth of canyon, 6.5 mi (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 fair except those for winter months and periods of no gage-height record, Nov. 13 to Dec. 16 and Aug. 2 to Sept. 30, which are poor. 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.--33 years, 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 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.--Maximum discharge, 70 ft³/s (1.98 m³/s) Feb. 17; gage height 2.20 ft (0.671 m), no peak above base of 150 ft³/s (4.25 m³/s); no flow Aug. 22 to Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	6.7	7.2	10	9.2	13	18	18	12	2.5	.15	.00
2	4.3	6.7	8.0	9.5	9.0	12	16	22	12	2.5	.10	.00
3	4.3	6.7	10	9.0	9.0	11	15	21	13	2.5	.09	.00
4	4.4	6.7	8.6	9.0	9.2	12	14	19	12	2.4	.08	.00
5	4.5	6.7	8.1	8.5	9.5	12	14	18	10	2.3	.07	.00
6	4.5	6.7	8.0	8.0	10	12	14	16	9.4	3.7	.06	.00
7	4.5	6.7	7.2	8.0	8.9	11	11	15	8.6	3.0	.05	.00
8	4.5	7.3	6.7	8.0	8.9	11	10	14	9.0	2.8	.04	.00
9	4.5	7.3	7.0	8.1	9.3	10	9.9	12	9.6	2.7	.05	.01
10	4.5	7.3	7.5	8.3	9.4	8.8	11	11	9.4	2.3	.06	.02
11	4.5	8.0	7.9	8.6	9.4	7.7	10	10	9.0	2.1	.06	.03
12	4.7	8.0	8.0	8.7	9.0	7.7	9.8	9.2	8.2	2.0	.06	.04
13	5.3	8.0	8.1	8.8	10	8.0	9.8	8.6	8.1	1.8	.05	.04
14	6.1	7.6	8.5	8.8	16	8.0	9.6	9.8	8.4	1.9	.05	.05
15	6.5	8.0	8.5	8.8	22	7.7	9.8	17	7.9	1.9	.05	.05
16	7.0	7.9	8.5	8.8	17	6.7	9.2	19	7.0	1.8	.05	.06
17	7.1	7.6	8.6	8.8	42	6.1	9.4	14	6.4	1.4	.04	.06
18	6.9	7.8	8.6	8.8	24	6.7	9.5	15	6.2	1.2	.04	.07
19	6.8	8.0	8.6	8.8	20	8.8	11	19	6.2	1.3	.03	.07
20	6.7	7.8	9.0	8.8	20	13	14	18	5.8	1.5	.02	.08
21	6.7	8.0	9.7	9.2	16	11	15	16	5.3	1.2	.01	.08
22	6.4	8.8	9.2	9.2	16	9.2	14	14	4.8	.91	.00	.09
23	6.4	8.0	10	9.2	15	8.8	14	13	4.4	.74	.00	.09
24	6.4	8.0	11	9.2	15	9.2	15	14	4.0	.62	.00	.10
25	6.7	7.7	12	8.8	14	10	18	20	3.4	.53	.00	.10
26	6.7	7.2	11	8.4	14	16	22	23	3.0	.47	.00	.11
27	7.0	7.5	10	9.0	13	20	22	20	2.8	.42	.00	.12
28	7.0	7.6	10	9.0	13	27	18	15	2.7	.38	.00	.13
29	6.7	8.1	10	9.0	---	22	17	14	2.7	.33	.00	.14
30	6.7	8.7	10	9.0	---	20	19	13	2.6	.29	.00	.15
31	6.7	---	10	9.0	---	18	---	13	---	.25	.00	---
TOTAL	179.3	227.1	275.5	273.1	397.8	364.4	409.0	480.6	213.9	49.74	1.21	1.69
MEAN	5.78	7.57	8.89	8.81	14.2	11.8	13.6	15.5	7.13	1.60	.039	.056
MAX	7.1	8.8	12	10	42	27	22	23	13	3.7	.15	.15
MIN	4.3	6.7	6.7	8.0	8.9	6.1	9.2	8.6	2.6	.25	.00	.00
AC-FT	356	450	546	542	789	723	811	953	424	99	2.4	3.4
CAL YR 1980	TOTAL	13554.90	MEAN	37.0	MAX	500	MIN	4.2	AC-FT	26890		
WTR YR 1981	TOTAL	2873.34	MEAN	7.87	MAX	42	MIN	.00	AC-FT	5700		

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LOCATION.--Lat 41°59'00", long 117°35'00", in sec.9, T.47 N., R.39 E., Humboldt County, Hydrologic Unit 16040201, in Fort McDermitt Indian Reservation, on right bank 1 mi (2 km) downstream from South Fork and 7 mi (11 km) east of McDermitt.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from topographic map.

REMARKS.--Records fair except for periods of no gage-height record, Jan. 6 to Feb. 12, Feb. 19 to Apr. 15, 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."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s (36.0 m³/s) Jan. 15, 1956, gage height, 8.52 ft (2.597 m); minimum, 0.10 ft³/s (0.003 m³/s) Sept. 6, 7, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/s (1.02 m³/s) Feb. 17, gage height, 3.31 ft (1.009 m), no peak above base of 100 ft³/s (2.83 m³/s); minimum daily, 0.14 ft³/s (0.004 m³/s) July 29, Aug. 1.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.6	5.1	6.1	6.1	9.4	16	16	14	.76	.14	.57
2	2.9	3.5	5.9	5.5	6.0	9.1	15	15	14	.72	.15	.56
3	2.9	3.6	5.8	5.3	6.1	8.8	14	15	13	.66	.16	.51
4	2.9	3.6	6.3	5.3	6.2	8.8	13	15	12	.62	.18	.45
5	3.1	3.7	5.6	5.2	6.3	8.9	12	14	11	.53	.18	.41
6	3.1	3.5	5.0	5.2	6.8	9.0	12	14	10	.93	.18	.41
7	3.1	4.0	4.3	5.2	6.4	9.1	13	14	9.9	.85	.18	.41
8	3.1	4.5	3.7	5.2	6.4	9.0	14	13	9.6	.70	.16	.39
9	3.0	4.9	4.0	5.2	6.4	8.7	14	12	11	.58	.19	.39
10	3.0	5.3	4.5	5.2	6.7	8.3	15	12	10	.43	.20	.53
11	2.9	5.6	4.7	5.2	6.4	8.1	16	12	9.3	.29	.27	.58
12	3.2	5.4	5.0	5.2	6.7	8.1	16	11	9.0	.35	.32	.53
13	3.2	4.7	5.1	5.2	6.8	8.1	17	10	10	.32	.35	.45
14	3.3	4.4	5.1	5.2	10	8.2	18	11	10	.29	.37	.41
15	3.5	4.3	5.2	5.2	8.5	8.0	19	12	8.6	.24	.35	.39
16	3.7	4.3	5.2	5.3	11	7.5	19	13	8.0	.24	.32	.37
17	3.6	4.2	5.3	5.4	33	7.2	19	13	7.1	.21	.29	.35
18	3.5	4.2	5.4	5.4	23	6.8	19	14	5.8	.21	.35	.35
19	3.5	4.3	5.3	5.5	19	7.5	20	15	4.7	.20	.39	.37
20	3.5	4.4	5.4	5.6	16	8.0	23	17	3.8	.19	.41	.37
21	3.5	4.6	5.7	6.0	15	8.4	22	18	2.9	.18	.41	.32
22	3.5	5.9	6.0	6.4	14	8.6	21	17	2.5	.16	.43	.35
23	3.4	6.4	5.7	7.0	13	8.1	20	16	2.1	.15	.57	.35
24	3.4	5.9	6.0	6.6	12	7.6	20	16	1.8	.15	.60	.32
25	3.5	4.4	7.3	6.2	11	8.5	19	22	1.4	.15	.74	.35
26	3.7	4.2	7.5	6.1	10	9.3	20	22	1.3	.16	.74	.27
27	3.7	4.4	7.0	6.0	10	11	19	19	1.2	.16	.67	.24
28	3.6	4.9	6.8	6.2	9.8	14	18	18	1.1	.15	.67	.35
29	3.6	5.7	6.6	6.3	---	16	17	17	1.0	.14	.70	.41
30	3.6	6.5	6.5	6.4	---	18	16	16	.84	.16	.60	.43
31	3.6	---	6.4	6.2	---	17	---	16	---	.15	.59	---
TOTAL	102.9	138.9	173.4	176.0	298.6	293.1	516	465	206.94	11.03	11.86	12.19
MEAN	3.32	4.63	5.59	5.68	10.7	9.45	17.2	15.0	6.90	.36	.38	.41
MAX	3.7	6.5	7.5	7.0	33	18	23	22	14	.93	.74	.58
MIN	2.8	3.5	3.7	5.2	6.0	6.8	12	10	.84	.14	.14	.24
AC-FT	204	276	344	349	592	581	1020	922	410	22	24	24
CAL YR 1980	TOTAL	10066.20	MEAN	27.5	MAX	276	MIN	2.0	AC-FT	19970		
WTR YR 1981	TOTAL	2405.92	MEAN	6.59	MAX	33	MIN	.14	AC-FT	4770		

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. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--33 years, 33.5 ft³/s (0.949 m³/s), 24,270 acre-ft/yr (29.9 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, 2.9 ft³/s (0.082 m³/s) Mar. 20, gage height, 0.38 ft (0.116 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.81	.92	.89	1.1	1.8	2.0	1.1	.88	.49	.57	.36
2	.83	.79	.92	.89	1.1	1.8	2.0	1.0	.97	.49	.58	.38
3	.83	.79	.93	.92	1.3	1.7	1.8	.97	1.1	.53	.59	.34
4	.83	.79	.94	.92	1.2	1.8	1.7	.99	1.0	.52	.60	.34
5	.83	.80	.92	.92	1.3	1.9	1.6	1.0	.92	.52	.59	.36
6	.83	.80	.92	.83	1.3	1.8	1.5	1.0	.85	.69	.53	.35
7	.83	.81	.83	.83	1.2	1.8	1.5	1.0	.81	.57	.48	.32
8	.75	.74	.98	.83	1.3	1.8	1.5	1.0	.83	.57	.48	.43
9	.75	.76	.91	.83	1.4	1.8	1.6	1.1	.82	.48	.46	.49
10	.75	.77	.91	.83	1.3	1.7	1.7	1.1	.80	.47	.46	.41
11	.75	.82	.89	.83	1.4	1.7	1.6	1.0	.69	.49	.47	.42
12	.83	.73	.89	.83	1.4	1.7	1.5	.97	.71	.48	.46	.40
13	.83	.73	.83	.83	1.4	1.7	1.4	.91	.78	.50	.45	.40
14	.83	.83	.91	.83	1.9	1.7	1.4	1.0	.72	.46	.49	.40
15	.83	.80	.92	.83	1.9	1.6	1.4	1.4	.70	.46	.46	.37
16	.83	.84	.87	.83	1.9	1.8	1.3	1.8	.65	.47	.46	.35
17	.83	.78	.92	.83	2.1	1.6	1.4	1.4	.66	.47	.46	.37
18	.83	.85	.87	.83	2.1	1.6	1.3	1.4	.64	.47	.47	.35
19	.83	.83	.92	.84	2.2	1.9	1.4	1.5	.64	.41	.50	.30
20	.83	.87	.87	.94	2.2	2.7	1.5	1.8	.61	.41	.48	.41
21	.83	.85	.91	.95	2.2	2.3	1.6	1.7	.61	.44	.41	.43
22	.83	.92	.90	.92	2.1	2.1	1.5	1.4	.60	.40	.36	.37
23	.83	.98	.92	1.0	2.1	1.9	1.3	1.2	.60	.43	.35	.38
24	.83	.92	.91	1.1	2.1	1.9	1.3	1.3	.58	.43	.32	.39
25	.83	.92	.94	1.0	1.9	1.8	1.3	1.8	.55	.47	.32	.42
26	.83	.92	.88	1.0	1.9	2.2	1.5	1.7	.59	.49	.32	.38
27	.83	.92	.87	1.1	1.9	2.2	1.4	1.4	.55	.52	.35	.38
28	.83	.91	.83	1.6	1.9	1.9	1.3	1.2	.58	.52	.35	.46
29	.83	.92	.83	1.4	---	2.0	1.2	1.1	.49	.54	.37	.41
30	.79	.92	.83	1.2	---	1.9	1.2	1.0	.49	.55	.37	.40
31	.81	---	.86	1.3	---	1.9	---	.97	---	.56	.37	---
TOTAL	25.27	25.12	27.75	29.68	47.1	58.0	44.7	38.21	21.42	15.30	13.93	11.57
MEAN	.82	.84	.90	.96	1.68	1.87	1.49	1.23	.71	.49	.45	.39
MAX	.83	.98	.98	1.6	2.2	2.7	2.0	1.8	1.1	.69	.60	.49
MIN	.75	.73	.83	.83	1.1	1.6	1.2	.91	.49	.40	.32	.30
AC-FT	50	50	55	59	93	115	89	76	42	30	28	23
CAL YR 1980	TOTAL	14798.77	MEAN	40.4	MAX	306	MIN	.66	AC-FT	29350		
WTR YR 1981	TOTAL	358.05	MEAN	.98	MAX	2.7	MIN	.30	AC-FT	710		

BLACK ROCK DESERT BASIN

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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 current year, monthly.
 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 specific-conductance and temperature are due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 832 micromhos Feb. 28, 1981; minimum, 313 micromhos Feb. 27, 1980.
 PHYTOPLANKTON: Maximum, 51,000 cells/mL July 12, 1978; minimum, 100 cells/mL May 28, 1980.
 FECAL STREPTOCOCCI: Maximum, 3,000 colonies/100 mL (non-ideal colony count) Dec. 29, 1978; minimum, 10 colonies/100 mL (non-ideal colony count) Sept. 20, 1978.
 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, 832 micromhos Feb. 28; minimum, 593 micromhos Feb. 15.
 WATER TEMPERATURES: Maximum, 31.0°C June 21, 23; minimum, freezing point Feb. 1-4, 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 CENT SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 29...	1430	.86	661	--	8.5	1.4	12.8	125	K21	K45
NOV 24...	1500	.84	667	--	5.0	8.0	12.6	113	K52	210
DEC 29...	1600	.83	681	8.4	6.5	2.0	12.8	120	K76	--
JAN 29...	1300	1.5	648	8.2	5.0	6.5	10.9	100	--	>1000
FEB 19...	1300	2.3	638	8.5	9.5	16	11.1	113	--	K460
MAR 27...	1115	2.2	660	8.6	7.5	13	11.1	109	K100	K270
APR 21...	1300	1.7	697	8.3	16.0	4.5	11.4	134	K16	94
MAY 27...	1500	1.3	685	8.8	24.5	2.7	14.3	199	--	--
JUN 24...	1430	.57	691	9.1	28.0	3.4	15.4	230	K4	K80
JUL 23...	1215	.47	704	8.7	23.0	2.4	15.2	208	K29	K30
AUG 21...	1310	.41	728	8.7	23.5	4.9	15.6	173	K28	53
SEP 25...	1300	.41	731	8.7	15.0	2.1	15.1	174	100	140

K: NON-IDEAL COLONY COUNT.

BLACK ROCK DESERT BASIN

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 29...	110	31	8.5	99	4.1	8.0	--	--	--	84
NOV 24...	110	30	8.4	95	4.0	9.7	--	--	--	87
DEC 29...	120	33	9.0	100	4.0	7.1	220	2	180	98
JAN 29...	130	35	11	87	3.3	6.3	240	0	190	74
FEB 19...	150	40	12	85	3.0	6.7	230	6	190	71
MAR 27...	150	39	12	87	3.1	6.3	230	8	200	72
APR 21...	140	36	11	97	3.6	7.7	230	0	190	86
MAY 27...	120	30	9.9	100	4.0	7.9	180	13	170	85
JUN 24...	100	26	9.1	110	4.7	8.5	140	28	160	120
JUL 23...	110	27	9.6	110	5.0	9.3	180	9	160	100
AUG 21...	110	27	9.6	110	5.0	9.6	190	9	170	100
SEP 25...	120	33	10	110	4.6	8.2	180	11	170	110

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, 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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 29...	48	1.5	52	432	440	1.0	.00	.000	.00	.020
NOV 24...	46	1.2	49	438	435	.99	.03	.000	.02	.020
DEC 29...	45	1.4	52	453	454	1.0	.00	.000	.00	.010
JAN 29...	42	.7	44	411	414	1.7	--	.000	.03	.040
FEB 19...	41	1.1	45	406	422	2.5	.00	.000	.01	.010
MAR 27...	42	1.2	45	421	419	2.5	.00	.000	.00	.060
APR 21...	45	1.4	48	451	447	2.1	.04	.010	.01	.080
MAY 27...	51	1.6	40	438	434	1.5	.01	.000	.02	.070
JUN 24...	53	1.5	45	454	463	.70	.01	.000	.01	.050
JUL 23...	57	1.6	36	438	447	.56	.09	.020	.10	.140
AUG 21...	59	1.6	38	447	457	.49	--	<.010	.02	.100
SEP 25...	53	1.8	47	481	482	.53	.09	.020	.11	.140

BLACK ROCK DESERT BASIN

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10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 29...	.050	.41	.31	.43	.36	.230	.200	--	3.2	.5
NOV 24...	.020	.46	.33	.51	.37	.210	.120	16	--	--
DEC 29...	.010	.45	.28	.46	.29	.150	.110	3.4	--	--
JAN 29...	.050	--	.78	--	.86	.120	.100	--	--	--
FEB 19...	.020	.51	.55	.52	.58	.080	.050	12	--	--
MAR 27...	.030	.40	.37	.46	.40	.130	.090	5.5	--	--
APR 21...	.080	1.2	.39	1.4	.48	.140	.080	--	10	1.8
MAY 27...	.080	.92	.43	1.0	.53	.110	.070	9.3	--	--
JUN 24...	.050	1.2	.74	1.2	.80	.060	.030	--	4.0	.5
JUL 23...	.090	.49	.52	.74	.71	.020	.010	--	6.2	.2
AUG 21...	.080	.53	--	.64	--	.040	.020	2.2	--	--
SEP 25...	.130	.42	.36	.67	.60	.040	.020	3.4	--	--

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)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
OCT 29...	1430	14	16	100	50	0	<1	0	0	1
JAN 29...	1300	17	16	100	50	0	<1	10	0	2
APR 21...	1300	18	18	100	40	0	<1	10	0	1
JUL 23...	1215	15	16	100	50	0	<1	10	10	1

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 29...	<3	6	3	220	10	4	1	80	70	.1
JAN 29...	<3	5	0	630	20	5	3	160	140	.1
APR 21...	<3	7	2	380	20	7	4	210	160	.3
JUL 23...	<3	4	0	190	11	1	0	100	30	.2

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 29...	.1	4	4	0	0	0	0	20	5
JAN 29...	.0	6	0	0	0	1	0	40	8
APR 21...	.1	4	0	0	0	0	0	10	5
JUL 23...	.1	3	1	0	0	0	0	20	10

BLACK ROCK DESERT BASIN

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 29...	1430	8	.02
DEC 29...	1600	9	.02
JAN 29...	1300	16	.06
FEB 19...	1300	32	.20
MAR 27...	1115	28	.17
APR 21...	1300	9	.04
MAY 27...	1500	15	.05
JUN 24...	1430	8	.01
JUL 23...	1215	4	.01
AUG 21...	1310	17	.02
SEP 25...	1300	6	.01

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEC 29,80	MAR 27,81	MAY 27,81	JUN 24,81
TIME	1600	1115	1500	1430
TOTAL CELLS/ML	3800	490	880	1400
DIVERSITY: DIVISION	0.2	1.3	0.6	1.5
..CLASS	0.2	1.3	0.6	1.5
..ORDER	1.2	2.3	1.8	2.6
...FAMILY	1.5	2.6	1.9	2.6
....GENUS	1.5	2.6	1.9	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIAEAE								
....NITZSCHIA	200	5	190#	39	65	7	64	5
..EPITHEMIALES								
...EPITHEMIAEAE								
....EPITHEMIA	51	1	--	-	13	1	26	2
....RHOPALODIA	--	-	--	-	--	-	--	-
..EUPODISCALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	100	12	210	14
....STEPHANODISCUS	--	-	39	8	--	-	--	-
..FRAGILARIALES								
...FRAGILARIAEAE								
....FRAGILARIA	730#	19	--	-	570#	65	340#	23
....SYNEDRA	--	-	--	-	--	-	52	4
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	13	1	13	1
....CYMBELLA	2600#	67	52	11	13	1	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	13	3	--	-	--	-
..NAVICULACEAE								
....DIPLONEIS	--	-	--	-	--	-	--	-
....GYROSIGMA	51	1	--	-	--	-	--	-
....NAVICULA	130	3	26	5	26	3	--	-
..SURIRELLALES								
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	--	-	13	1
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	13	1
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	100	3	--	-	--	-	310#	22
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	39	8	39	4	52	4
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
..ZYGNEMATAEAE								
....SPIROGYRA	--	-	52	11	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	26	3	13	1
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	77#	16	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIAEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	--	-	340#	23
....SPIRULINA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	13	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 23,81	AUG 21,81	SEP 25,81
TIME	1215	1310	1300
TOTAL CELLS/ML	1700	560	1500
DIVERSITY: DIVISION	1.5	0.6	0.6
...CLASS	1.5	0.6	0.6
...ORDER	2.5	2.7	1.1
...FAMILY	2.7	2.8	1.1
...GENUS	3.0	3.4	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
...ACHNANTHACEAE						
...COCCONEIS	--	-	43	8	28	2
...RHOICOSPHENIA	--	-	14	3	--	-
..BACILLARIALES						
...NITZSCHIA						
...NITZSCHIA	72	4	14	3	28	2
...EPITHEMIALES						
...EPITHEMIA	29	2	87#	15	14	1
...RHOPALODIA	29	2	43	8	14	1
..EUPODISCALES						
...COSCINODISCACEAE						
...CYCLOTELLA	58	3	140#	26	14	1
...STEPHANODISCUS	--	-	--	-	--	-
..FRAGILARIALES						
...FRAGILARIA	29	2	29	5	--	-
...SYNEDRA	43	3	--	-	--	-
..NAVICULALES						
...CYMBELLACEAE						
...AMPHORA	--	-	14	3	--	-
...CYMBELLA	--	-	14	3	--	-
...GOMPHONEMACEAE						
...GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
...DIPLONEIS	--	-	14	3	--	-
...GYROSIGMA	--	-	14	3	--	-
...NAVICULA	58	3	43	8	41	3
..SURIPELLALES						
...SURIPELLACEAE						
...CYMATOPLEURA	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...OOCYSTACEAE						
...ANKISTRODESMUS	240	15	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	14	1
...OOCYSTIS	72	4	--	-	--	-
...SCENEDESMACEAE						
...SCENEDESMUS	58	3	58	10	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	29	2	--	-	14	1
..ZYGNEMATALES						
...DESMIDIACEAE						
...COSMARIUM	--	-	29	5	--	-
...ZYGNEMATA						
...SPIROGYRA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...ANACYSTIS	580#	34	--	-	--	-
..NOSTOCALES						
...NOSTOCACEAE						
...ANABAENA	--	-	--	-	83	6
..OSCILLATORIALES						
...OSCILLATORIA						
...LYNGBYA	--	-	--	-	170	11
...OSCILLATORIA	350#	21	--	-	1000#	72
...SPIRULINA	14	1	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
...TRACHELOMONAS	14	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	669	656	678	652	---	---	682	644	745	642
2	---	---	670	662	665	654	---	---	682	662	734	659
3	---	---	670	661	665	647	---	---	712	672	767	663
4	---	---	671	664	659	643	---	---	727	677	752	666
5	---	---	674	664	661	647	---	---	695	668	769	668
6	---	---	677	665	667	643	---	---	753	672	753	673
7	---	---	681	666	693	656	---	---	730	682	724	676
8	---	---	681	665	719	676	---	---	735	677	718	682
9	---	---	674	663	720	670	---	---	728	679	765	685
10	---	---	671	662	713	661	---	---	738	678	747	692
11	---	---	666	647	694	648	---	---	741	655	735	683
12	---	---	660	656	691	652	---	---	729	650	759	694
13	---	---	674	657	719	654	---	---	700	650	776	698
14	---	---	691	657	714	662	---	---	687	625	786	699
15	---	---	670	659	685	652	---	---	676	593	729	698
16	---	---	687	660	671	652	---	---	637	612	715	674
17	---	---	676	657	675	654	---	---	635	610	723	673
18	---	---	673	663	678	660	---	---	645	612	713	684
19	---	---	676	666	681	661	---	---	646	613	827	676
20	---	---	684	668	679	662	---	---	650	641	726	660
21	---	---	696	668	676	650	---	---	657	652	714	668
22	---	---	681	667	686	653	---	---	711	659	694	642
23	---	---	678	655	687	667	---	---	715	666	699	681
24	---	---	---	---	689	674	---	---	749	650	708	691
25	---	---	662	647	727	666	---	---	705	650	706	669
26	---	---	674	650	735	677	---	---	699	631	710	664
27	---	---	675	651	740	676	---	---	713	681	688	657
28	---	---	661	644	721	682	---	---	832	656	808	661
29	---	---	663	649	---	---	650	632	---	---	691	635
30	668	658	666	653	---	---	711	650	---	---	675	658
31	669	659	---	---	---	---	737	648	---	---	673	657
MONTH	669	658	696	644	740	643	737	632	832	593	827	635

[illegible]

BLACK ROCK DESERT

331

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, 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.--11 years (1962-68, 1978-81), 4.65 ft³/s (0.132 m³/s), 3,370 acre-ft/yr (4.16 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 discharge, 35 ft³/s (0.99 m³/s) May 1, gage height, 2.27 ft (0.692 m); minimum daily, 0.49 ft³/s (0.014 m³/s) Aug. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.2	2.6	2.5	3.2	3.2	7.3	21	8.2	1.5	.74	.64
2	1.3	2.2	2.7	2.5	3.3	3.1	7.0	18	9.3	1.4	.76	.63
3	1.3	2.2	2.8	2.5	3.1	3.1	6.8	13	8.5	1.4	.79	.68
4	1.3	2.2	2.8	2.4	3.0	3.1	6.5	10	7.4	1.3	.81	.64
5	1.4	2.1	2.8	2.5	3.3	3.3	6.9	9.5	7.3	1.2	.77	.65
6	1.3	2.1	2.9	2.5	3.5	3.1	7.4	9.0	6.5	2.3	.73	.72
7	1.4	2.3	3.0	2.5	3.3	3.1	7.5	8.1	6.3	1.7	.67	.71
8	1.3	2.6	3.2	2.5	3.5	2.9	7.5	8.3	5.9	1.5	.61	.68
9	1.3	2.4	3.2	2.5	3.7	3.0	7.4	8.9	6.2	1.4	.57	.68
10	1.4	2.4	3.0	2.5	3.5	3.0	7.3	9.7	5.1	1.2	.60	.62
11	1.4	2.6	2.9	2.5	3.2	2.9	6.7	8.9	4.8	1.2	.63	.62
12	1.6	2.4	3.0	2.5	3.0	3.0	6.3	8.1	4.7	1.3	.61	.60
13	1.8	2.5	3.2	2.5	2.6	3.0	6.1	8.1	5.2	1.2	.61	.58
14	1.9	2.4	3.3	2.5	3.9	3.0	6.2	9.5	4.8	1.2	.72	.62
15	2.1	2.6	3.2	2.5	3.4	3.0	6.7	8.2	4.5	1.1	.64	.62
16	2.3	2.5	3.0	2.5	5.2	3.4	7.2	7.5	3.8	1.1	.59	.62
17	2.2	2.4	2.8	2.5	5.5	3.8	7.3	7.1	3.2	1.0	.53	.63
18	2.1	2.5	2.6	2.4	4.1	3.7	7.6	8.2	3.0	1.0	.56	.65
19	2.0	2.3	2.5	2.4	4.5	3.6	9.3	8.2	2.8	.95	.65	.68
20	2.0	2.5	2.5	2.4	4.5	3.6	8.5	7.8	2.6	.93	.61	.83
21	1.9	2.6	2.6	2.4	4.3	3.1	8.6	7.5	2.4	.91	.58	.84
22	1.8	2.5	2.5	2.4	4.2	3.0	8.7	7.5	2.2	.89	.59	.90
23	1.8	2.9	2.4	3.0	4.2	3.1	10	7.5	2.1	.85	.53	.97
24	1.9	2.4	2.4	2.8	4.1	3.3	14	8.8	2.0	.83	.52	1.1
25	2.0	2.5	2.9	2.6	4.2	4.6	14	13	1.8	.82	.52	1.4
26	2.2	2.6	2.8	2.7	4.1	5.0	12	11	1.9	.88	.51	1.2
27	2.5	2.6	2.8	2.7	4.2	5.6	9.9	10	1.8	.87	.50	1.2
28	2.2	2.5	2.6	2.8	3.6	6.5	11	9.7	1.7	.82	.49	1.5
29	2.2	2.4	2.5	2.8	---	8.1	13	8.9	1.7	.75	.49	1.4
30	2.3	2.5	2.4	3.0	---	7.8	17	8.9	1.6	.78	.54	1.2
31	2.2	---	2.5	3.3	---	7.6	---	9.3	---	.80	.66	---
TOTAL	55.8	72.9	86.4	80.1	106.2	121.6	261.7	299.2	129.3	35.08	19.13	24.81
MEAN	1.80	2.43	2.79	2.58	3.79	3.92	8.72	9.65	4.31	1.13	.62	.83
MAX	2.5	2.9	3.3	3.3	5.5	8.1	17	21	9.3	2.3	.81	1.5
MIN	1.3	2.1	2.4	2.4	2.6	2.9	6.1	7.1	1.6	.75	.49	.58
AC-FT	111	145	171	159	211	241	519	593	256	70	38	49

CAL YR 1980 TOTAL 2855.00 MEAN 7.80 MAX 57 MIN 1.3 AC-FT 5660
WTR YR 1981 TOTAL 1292.22 MEAN 3.54 MAX 21 MIN .49 AC-FT 2560

BLACK ROCK DESERT BASIN

10353650 QUINN RIVER NEAR DENIO, NV

LOCATION.--Lat 41°27'50", long 118°16'50", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.42 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on right bank 8 mi (13 km) downstream from Kings River and 42 mi (68 km) southeast of Denio.

DRAINAGE AREA.--3,520 mi² (9,117 km²), approximately.

PERIOD OF RECORD.--October 1963 to September 1967, October 1977 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft (1,250 m), from topographic map.

REMARKS.--No flow since May 4, 1980.

AVERAGE DISCHARGE.--8 years (1964-67, 1978-81), 1.86 ft³/s (0.0527 m³/s), 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft³/s (6.43 m³/s) May 8, 1978, gage height 4.66 ft (1.42 m), no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

BLACK ROCK DESERT BASIN

333

10353700 LEONARD CREEK NEAR DENIO, NV

LOCATION.--Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, Hydrologic Unit 16040202, on right bank 0.3 mi (0.5 km) upstream from concrete diversion structure, 0.7 mi (1.1 km) upstream from Leonard Creek ranch buildings, about 18 mi (29 km) upstream from Quinn River, and 32 mi (51 km) south of Denio.

DRAINAGE AREA.--52 mi² (135 km²), approximately.

PERIOD OF RECORD.--October 1960 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,310 m) from topographic AMS map. Prior to Aug. 21, 1969, at site 50 ft (15 m) downstream at datum 0.28 ft (0.085 m) lower.

REMARKS.--Records fair except those for period of no gage height record, Apr. 16 to June 17, which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--21 years, 5.92 ft³/s (0.168 m³/s), 4,290 acre-ft/yr (5.29 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 612 ft³/s (17.3 m³/s) Feb. 1, 1963, gage height, 4.98 ft (1.518 m), from rating curve extended above 15 ft³/s (0.42 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day July 23 to Aug. 5, 1961, Jan. 11, 12, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and gage height unknown about May 2., minimum daily, 1.8 ft³/s (0.051 m³/s) Sept. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.1	3.7	3.1	3.2	3.3	7.0	29	12	4.7	4.5	4.4
2	3.7	4.1	4.3	3.5	3.6	3.3	7.0	25	13	4.4	4.8	4.0
3	3.7	4.1	4.3	3.8	3.7	3.6	6.9	18	12	4.2	4.8	3.7
4	4.1	4.0	7.8	4.0	3.3	3.8	7.7	15	11	4.2	5.2	3.4
5	4.1	3.7	4.4	3.7	4.0	4.2	8.8	13	11	3.6	5.1	3.4
6	3.7	3.7	4.3	3.4	3.8	3.7	11	13	10	5.9	4.9	3.3
7	3.7	3.7	4.1	3.5	4.1	3.7	9.7	12	9.9	4.5	4.8	3.5
8	3.8	3.7	3.5	3.7	4.5	3.6	9.1	12	9.9	4.1	4.6	3.2
9	3.3	3.7	4.0	3.9	4.7	3.6	8.8	13	11	3.8	4.7	2.9
10	2.8	3.7	4.3	4.4	4.8	3.6	8.9	14	10	3.4	4.7	2.5
11	2.4	3.7	4.5	4.4	4.3	3.7	8.4	12	9.6	3.4	4.8	2.3
12	2.7	3.6	4.4	4.4	4.2	3.6	8.6	11	9.5	3.3	4.6	2.1
13	2.9	3.5	4.0	4.3	4.4	3.7	9.0	12	10	3.5	4.8	2.1
14	3.0	3.3	4.7	4.1	7.8	3.6	9.4	13	10	3.5	5.2	2.1
15	3.1	3.2	5.2	3.9	6.2	3.5	10	11	11	3.3	4.9	1.9
16	3.9	3.4	4.9	3.7	14	4.2	9.7	10	12	3.1	4.5	1.8
17	4.3	3.6	4.2	3.6	6.0	4.0	10	10	12	3.2	4.4	1.8
18	4.0	3.7	3.7	3.6	3.8	3.3	11	12	12	3.3	5.1	1.9
19	3.9	3.6	3.7	3.6	4.9	3.8	13	12	11	3.5	6.3	1.9
20	3.9	3.5	3.3	3.3	4.0	3.9	12	11	10	3.8	5.3	2.3
21	3.9	3.8	3.3	3.2	4.5	3.7	12	11	8.9	3.7	5.0	2.5
22	3.5	3.9	3.3	3.0	4.1	3.6	13	11	8.1	3.6	4.7	2.8
23	3.3	3.8	3.2	3.1	4.1	3.5	15	11	7.8	4.0	4.3	3.1
24	3.3	3.7	3.3	3.3	3.8	3.3	20	13	7.3	4.0	4.0	3.8
25	3.3	3.6	3.9	3.5	3.5	3.9	20	18	6.4	4.0	3.7	4.8
26	3.4	3.4	4.2	3.2	3.5	4.6	17	16	5.9	4.3	3.6	4.6
27	4.1	3.5	4.1	4.0	3.5	5.9	14	14	5.6	4.4	4.2	4.4
28	4.6	3.8	3.8	3.9	3.4	12	16	13	5.3	4.2	4.2	6.2
29	4.9	4.1	3.7	3.9	---	12	19	13	5.2	4.5	3.8	5.2
30	4.6	4.1	3.4	4.4	---	7.7	24	12	4.8	4.5	3.9	4.6
31	4.3	---	3.3	4.0	---	7.2	---	13	---	4.6	4.1	---
TOTAL	113.9	111.3	126.8	115.4	129.7	141.1	356.0	423	282.2	122.5	143.5	96.5
MEAN	3.67	3.71	4.09	3.72	4.63	4.55	11.9	13.6	9.41	3.95	4.63	3.22
MAX	4.9	4.1	7.8	4.4	14	12	24	29	13	5.9	6.3	6.2
MIN	2.4	3.2	3.2	3.0	3.2	3.3	6.9	10	4.8	3.1	3.6	1.8
AC-FT	226	221	252	229	257	280	706	839	560	243	285	191

CAL YR 1980	TOTAL	5961.2	MEAN	16.3	MAX	134	MIN	2.4	AC-FT	11820
WTR YR 1981	TOTAL	2161.9	MEAN	5.92	MAX	29	MIN	1.8	AC-FT	4290

HUALAPAI FLAT

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank 150 ft (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 period of no gage height record, Nov. 2 to Dec. 4, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--8 years (1974-81) 0.55 ft³/s (0.0156 m³/s), 398 acre-ft/yr (490,700 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 490 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, 0.59 ft³/s (0.017 m³/s) Feb. 15, gage height, 0.55 ft (0.168 m); no flow Oct. 29-31, and July 22 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.04	.02	.07	.21	.34	.27	.24	.21	.00	.00
2	.01	.01	.04	.02	.06	.21	.34	.27	.24	.21	.00	.00
3	.01	.01	.04	.02	.06	.21	.37	.24	.24	.21	.00	.00
4	.01	.01	.04	.02	.05	.21	.34	.24	.24	.21	.00	.00
5	.01	.01	.04	.02	.05	.24	.37	.24	.24	.21	.00	.00
6	.01	.01	.03	.03	.06	.24	.37	.21	.24	.21	.00	.00
7	.01	.01	.03	.03	.06	.24	.37	.24	.24	.21	.00	.00
8	.01	.01	.03	.03	.06	.24	.37	.23	.25	.21	.00	.00
9	.01	.01	.03	.03	.07	.24	.37	.21	.26	.21	.00	.00
10	.01	.01	.03	.03	.07	.24	.37	.21	.25	.21	.00	.00
11	.01	.01	.04	.03	.09	.24	.37	.21	.27	.21	.00	.00
12	.02	.01	.04	.03	.10	.24	.41	.21	.27	.21	.00	.00
13	.02	.01	.04	.04	.12	.24	.37	.21	.27	.21	.00	.00
14	.02	.01	.04	.04	.19	.24	.37	.20	.27	.21	.00	.00
15	.01	.02	.03	.04	.45	.24	.37	.19	.27	.21	.00	.00
16	.05	.02	.04	.04	.37	.24	.37	.19	.27	.20	.00	.00
17	.07	.02	.03	.04	.41	.21	.37	.19	.25	.19	.00	.00
18	.07	.02	.03	.04	.34	.21	.37	.19	.24	.19	.00	.00
19	.07	.02	.03	.04	.30	.21	.41	.19	.24	.18	.00	.00
20	.09	.02	.04	.05	.30	.24	.41	.21	.24	.15	.00	.00
21	.09	.02	.04	.07	.27	.24	.37	.22	.24	.07	.00	.00
22	.07	.02	.03	.09	.27	.24	.37	.24	.24	.00	.00	.00
23	.02	.02	.03	.09	.27	.24	.34	.24	.24	.00	.00	.00
24	.01	.03	.04	.07	.27	.24	.30	.24	.24	.00	.00	.00
25	.01	.03	.03	.06	.24	.27	.30	.24	.24	.00	.00	.00
26	.01	.03	.03	.06	.24	.30	.30	.25	.23	.00	.00	.00
27	.01	.03	.03	.07	.21	.30	.27	.26	.21	.00	.00	.00
28	.01	.03	.03	.09	.21	.34	.30	.24	.21	.00	.00	.00
29	.00	.03	.03	.09	---	.37	.30	.24	.21	.00	.00	.00
30	.00	.03	.02	.07	---	.34	.27	.24	.21	.00	.00	.00
31	.00	---	.02	.07	---	.34	---	.24	---	.00	.00	---
TOTAL	.76	.53	1.04	1.47	5.26	7.81	10.55	7.00	7.30	4.13	.00	.00
MEAN	.025	.018	.034	.047	.19	.25	.35	.23	.24	.13	.000	.000
MAX	.09	.03	.04	.09	.45	.37	.41	.27	.27	.21	.00	.00
MIN	.00	.01	.02	.02	.05	.21	.27	.19	.21	.00	.00	.00
AC-FT	1.5	1.1	2.1	2.9	10	15	21	14	14	8.2	.00	.00

CAL YR 1980 TOTAL 713.35 MEAN 1.95 MAX 125 MIN .00 AC-FT 1410
WTR YR 1981 TOTAL 45.85 MEAN .13 MAX .45 MIN .00 AC-FT 91

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 mile 35.1 (56.5 km).

DRAINAGE AREA.--633 mi² (1,640 km²). Mean altitude, 6,030 ft (1,837.9 m).

WATER-DISCHARGE RECORDS

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 (1,453.9 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 sta 13083500).

AVERAGE DISCHARGE.--67 years, 46.6 ft³/s (1.32 m³/s), 33,760 acre-ft/yr (41.62 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, 99 ft³/s (2.80 m³/s) Apr. 28, gage height, 2.57 ft (0.783 m); minimum 0.95 ft³/s (0.027 m³/s) July 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	27	30	37	26	37	43	83	27	2.3	1.4	2.1
2	17	27	28	35	24	38	44	77	23	2.4	1.4	2.1
3	17	26	29	33	23	38	45	75	21	2.1	1.5	2.1
4	17	26	30	31	24	38	43	73	28	2.2	1.5	2.3
5	17	27	30	31	24	38	41	67	26	1.9	2.0	2.0
6	18	27	29	28	23	39	40	48	11	1.5	1.7	1.6
7	18	27	27	27	24	39	39	53	8.5	1.3	1.5	1.5
8	18	26	24	27	25	38	40	53	9.1	1.4	1.4	1.4
9	19	26	21	28	25	38	41	44	9.5	1.4	1.4	1.4
10	19	26	25	28	23	38	41	43	11	1.5	1.4	1.8
11	19	27	27	28	22	38	41	33	8.5	1.7	1.1	2.1
12	19	30	29	29	23	38	39	27	6.7	1.5	1.1	2.1
13	20	31	29	28	25	39	40	27	6.7	1.5	1.1	2.0
14	21	31	25	26	25	39	41	21	7.0	1.3	1.1	1.9
15	22	28	23	25	26	39	42	21	6.5	1.3	1.1	1.8
16	24	27	27	24	41	40	43	24	6.7	1.1	1.3	1.8
17	25	28	31	25	50	41	43	24	6.2	1.1	1.3	1.8
18	29	29	31	26	45	39	47	19	6.0	1.1	1.4	1.8
19	28	29	32	26	43	39	52	18	6.2	1.0	1.5	1.8
20	27	29	34	27	40	41	62	19	7.0	1.0	1.5	1.8
21	26	30	34	27	41	43	74	16	6.0	1.0	1.6	1.9
22	26	30	35	28	38	43	75	20	5.3	1.0	1.9	2.0
23	25	31	35	28	42	40	75	25	4.1	1.0	1.9	2.1
24	25	30	35	27	42	39	72	22	3.6	1.0	2.2	2.4
25	26	27	39	26	40	39	74	23	3.4	1.1	2.9	2.6
26	26	28	46	24	40	40	78	33	3.3	1.4	2.1	4.3
27	27	28	44	24	39	45	85	43	3.1	1.5	2.0	6.2
28	26	29	40	25	38	47	94	38	2.9	1.5	2.0	4.3
29	26	30	37	26	---	45	89	24	2.9	1.5	2.1	4.3
30	27	30	37	27	---	44	87	21	2.4	1.6	2.3	4.8
31	27	---	38	26	---	43	---	24	---	1.4	2.3	---
TOTAL	698	847	981	857	901	1242	1670	1138	278.6	44.6	51.0	72.1
MEAN	22.5	28.2	31.6	27.6	32.2	40.1	55.7	36.7	9.29	1.44	1.65	2.40
MAX	29	31	46	37	50	47	94	83	28	2.4	2.9	6.2
MIN	17	26	21	24	22	37	39	16	2.4	1.0	1.1	1.4
AC-FT	1380	1680	1950	1700	1790	2460	3310	2260	553	88	101	143

CAL YR 1980	TOTAL	23816.0	MEAN	65.1	MAX	797	MIN	13	AC-FT	47240
WTR YR 1981	TOTAL	8780.3	MEAN	24.1	MAX	94	MIN	1.0	AC-FT	17420

GOOSE CREEK BASIN

13082500 GOOSE CREEK ABOVE TRAPPER CREEK NEAR OAKLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1949 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
OCT 02...	1130	--	442	--	11.5	--	--	--	--	--
NOV 05...	1130	27	389	7.4	6.5	150	45	9.7	17	.6
DEC 12...	1155	26	373	--	2.0	--	--	--	--	--
JAN 26...	1400	22	346	--	.0	--	--	--	--	--
MAR 09...	1200	38	368	--	6.0	--	--	--	--	--
APR 14...	1200	41	316	--	10.5	--	--	--	--	--
JUN 05...	1145	25	468	8.6	19.5	200	60	12	22	.7
JUL 15...	1330	1.3	572	--	23.0	--	--	--	--	--
AUG 18...	1215	1.5	577	8.0	20.5	210	62	13	29	.9

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 02...	--	--	--	--	--	--	--	--	--
NOV 05...	6.9	22	19	.3	32	248	18.1	.00	.070
DEC 12...	--	--	--	--	--	--	--	--	--
JAN 26...	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--
JUN 05...	12	5.4	22	.3	44	310	20.9	.02	.190
JUL 15...	--	--	--	--	--	--	--	--	--
AUG 18...	11	7.0	34	.4	49	338	1.4	.01	.060

SALMON FALLS CREEK BASIN

337

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.--69 years (1911-16, 1919-81), 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, 276 ft³/s (7.82 m³/s) Mar. 27, 28, gage height, 6.11 ft (1.862 m) in gage well, 6.67 ft (2.03 m) from flood marks; minimum daily, 9.0 ft³/s (0.255 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	61	59	70	58	77	93	190	100	18	14	21
2	49	61	58	68	55	78	107	195	95	22	14	21
3	49	62	59	68	54	73	107	200	91	24	11	20
4	50	62	60	69	60	79	101	180	88	23	11	24
5	50	60	60	71	59	78	95	172	86	21	11	24
6	50	57	58	65	61	82	95	162	74	20	11	24
7	50	57	55	58	59	81	102	159	65	18	11	26
8	51	60	46	60	59	75	103	146	57	18	11	27
9	50	58	36	61	62	70	103	123	51	18	11	28
10	51	58	43	63	55	72	103	111	51	17	11	28
11	51	61	54	60	55	75	97	107	52	16	11	28
12	51	64	57	59	66	73	95	105	50	18	11	29
13	51	62	49	62	65	65	94	97	55	19	11	29
14	53	59	50	61	65	65	95	93	56	18	10	28
15	56	56	62	61	69	76	96	91	57	19	12	30
16	58	53	63	58	76	72	100	91	54	20	12	30
17	58	51	65	63	92	75	105	88	50	23	11	30
18	57	53	63	65	120	75	98	84	45	23	11	30
19	55	54	62	66	98	73	108	88	42	19	11	30
20	54	54	62	66	86	76	144	78	39	16	10	31
21	54	54	64	66	85	77	187	84	36	19	11	31
22	53	57	66	62	79	66	212	90	34	18	13	31
23	53	59	67	64	81	74	208	99	33	16	14	32
24	53	58	66	66	80	73	200	90	30	15	12	33
25	54	47	64	64	82	73	193	84	29	16	13	34
26	56	49	83	56	84	79	198	100	27	17	13	36
27	56	54	86	64	80	84	237	120	21	17	13	36
28	56	58	79	65	78	84	239	107	19	17	13	36
29	56	58	74	64	---	82	210	96	18	17	13	36
30	57	59	69	66	---	88	200	92	16	16	13	37
31	59	---	70	65	---	93	---	96	---	16	12	---
TOTAL	1650	1716	1909	1976	2023	2363	4125	3618	1521	574	366	880
MEAN	53.2	57.2	61.6	63.7	72.3	76.2	138	117	50.7	18.5	11.8	29.3
MAX	59	64	86	71	120	93	239	200	100	24	14	37
MIN	49	47	36	56	54	65	93	78	16	15	10	20
AC-FT	3270	3400	3790	3920	4010	4690	8180	7180	3020	1140	726	1750
CAL YR 1980	TOTAL	73494	MEAN	201	MAX	1180	MIN	23	AC-FT	145800		
WTR YR 1981	TOTAL	22721	MEAN	62.2	MAX	239	MIN	10	AC-FT	45070		

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 1980 TO SEPTEMBER 1981

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
OCT 03...	1200	49	257	--	15.0	--	--	--	--	--
NOV 06...	1400	57	235	7.5	10.5	86	26	5.2	14	.7
DEC 10...	1400	46	281	--	3.0	--	--	--	--	--
JAN 22...	1300	67	231	--	6.0	--	--	--	--	--
MAR 02...	1230	81	200	--	7.5	--	--	--	--	--
JUN 03...	1410	91	271	8.2	19.0	98	29	6.1	14	.6
AUG 03...	1445	12	329	--	22.0	--	--	--	--	--
SEP 03...	1220	20	296	8.5	18.0	120	37	7.5	13	.5

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 03...	--	--	--	--	--	--	--	--	--
NOV 06...	6.4	13	10	.4	45	180	27.7	.01	.040
DEC 10...	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--
JUN 03...	7.5	2.0	6.2	.4	43	180	44.3	.02	.490
AUG 03...	--	--	--	--	--	--	--	--	--
SEP 03...	6.7	12	9.0	.4	32	196	10.7	.05	.020

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, 70,900 acre-ft (87.4 hm³) May 13, gage height, 40.45 ft (12.329 m); minimum observed, 7,300 acre-ft (9.0 hm³) May days, gage height, 5.50 ft (1.676 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 1980 TO SEPTEMBER 1981
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52400	53000	54300	56200	57900	60000	62500	68300	62700	45800	22400	7300
2	52500	---	54400	---	---	60100	62500	68700	62300	45000	21700	7300
3	52500	53100	54500	56300	---	60200	62800	69000	61700	44200	21000	7300
4	52500	53200	54600	---	58000	60300	62900	69400	61300	43400	20400	7300
5	52500	53300	---	---	---	---	63000	69600	60800	42500	19700	7300
6	52500	53300	---	56400	58100	60500	63100	69800	60300	41700	19100	7300
7	52500	---	54700	56500	58200	60600	63200	70100	59700	40900	18500	7300
8	52500	53400	---	56600	---	60700	63400	70310	59200	40000	17800	7300
9	52600	---	---	56700	---	60800	---	70500	58500	39200	17200	7300
10	52600	53500	54700	56800	58300	---	63500	70700	57900	38500	16600	7300
11	52600	---	---	---	---	60900	63600	70800	57200	37600	15900	7300
12	52600	53600	54800	56900	58400	61000	63700	70800	56700	36800	15300	7300
13	52600	---	---	---	---	61100	63800	70900	56200	35900	14625	7300
14	52600	53700	---	---	58500	---	63900	70500	55600	35100	14000	7300
15	52600	---	---	57000	58600	---	---	70300	55100	34400	12600	7300
16	52600	---	54900	---	58700	61200	64000	69800	54600	33600	12800	7300
17	52700	53800	---	57100	59000	61300	64100	69300	64200	32700	12200	7300
18	52700	---	55000	---	---	---	64200	68800	53800	31900	11600	7300
19	52700	---	55100	57200	59100	61400	64300	68300	53300	31300	11000	7300
20	52800	53900	55200	---	59300	61500	64600	67900	52800	30600	10400	7300
21	52800	---	---	57300	59400	61600	64900	67300	52300	29900	9800	7300
22	52800	---	55300	57400	59500	---	65200	66900	51800	29200	9200	7300
23	52900	54000	---	57400	59600	61700	65500	66500	51300	28600	8600	7400
24	52900	---	55400	57600	59700	---	65800	66000	50800	27800	8000	7400
25	52900	54100	55500	---	---	62000	66000	65600	50200	27100	7500	7400
26	52900	---	55600	---	59800	62100	66500	65300	49600	26300	7400	7400
27	52900	---	55700	57700	59900	62200	66800	64900	48900	25700	7400	7400
28	52900	54200	55800	---	60000	62300	67200	64400	48200	25100	7400	7400
29	52900	---	55900	57800	---	---	67500	64100	47400	24400	7400	7400
30	53000	54300	56000	---	---	62400	68000	63700	46700	23700	7300	7400
31	53000	---	56100	57800	---	62500	---	63200	---	23000	7300	---
MAX	53000	---	---	---	---	---	---	70900	64200	45800	22400	7400
MIN	52400	---	---	---	---	---	---	63200	46700	23000	7300	7300
†	32.10	32.75	33.65	34.45	35.50	36.65	39.20	37.00	28.95	15.90	5.50	5.60
‡	+600	+1300	+1800	+1600	+2100	+2500	+5500	-4800	-16500	-23700	-15700	+100
CAL YR 1980	‡ +25700											
WTR YR 1981	‡ -45000											

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi (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 except those for winter months which are fair. Minor 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.--20 years, 115 ft³/s (3.257 m³/s), 83,320 acre-ft/yr (103 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.--Maximum discharge, 160 ft³/s (4.53 m³/s) Apr. 27, gage height 3.75 ft (1.143 m), no peak above base of 200 ft³/s (5.66 m³/s); minimum daily discharge, 2.5 ft³/s (0.07 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	26	26	26	19	34	58	133	135	18	3.6	3.3
2	19	26	30	26	18	32	58	136	132	18	4.2	3.0
3	19	26	32	28	18	31	54	129	132	18	4.2	3.3
4	19	26	33	32	18	31	51	120	120	16	3.9	3.0
5	19	27	30	21	18	33	48	112	111	14	3.9	2.8
6	19	26	27	22	18	32	54	106	105	13	3.9	3.0
7	19	26	29	34	19	30	52	101	101	13	3.6	3.3
8	19	25	28	35	25	32	49	95	94	12	3.3	3.3
9	19	25	31	28	25	31	50	87	94	11	3.3	3.9
10	19	25	35	25	23	30	50	82	87	10	3.3	4.4
11	19	25	37	23	26	31	48	83	80	9.8	3.6	4.2
12	20	29	32	29	28	31	48	77	73	9.2	3.6	3.3
13	21	28	29	29	27	31	49	73	70	8.8	3.6	3.0
14	22	22	33	29	29	30	50	69	70	8.3	3.6	3.0
15	24	23	38	25	30	30	56	78	65	7.5	3.6	3.0
16	28	23	37	26	31	32	64	80	59	6.9	3.6	3.0
17	29	24	34	30	44	33	65	80	53	6.3	3.6	2.8
18	29	24	31	24	47	31	68	76	51	5.5	3.3	2.5
19	28	25	29	24	51	34	72	92	47	5.3	3.6	2.8
20	28	24	29	23	53	37	115	114	43	5.0	4.4	2.8
21	27	25	27	23	36	37	134	142	39	5.1	4.4	3.3
22	27	29	28	24	41	37	145	129	35	5.3	3.9	3.6
23	26	28	26	24	43	37	155	120	32	5.0	3.6	4.2
24	25	26	26	26	40	36	157	114	30	4.7	3.0	4.4
25	25	24	37	23	38	36	152	126	28	5.0	3.6	6.0
26	26	26	42	17	37	41	145	157	25	6.2	3.9	7.8
27	27	27	39	20	31	48	152	150	22	5.4	3.6	6.1
28	25	27	35	22	33	51	135	143	21	4.7	3.0	5.4
29	26	27	31	24	---	72	130	140	20	4.2	3.0	5.2
30	27	29	30	25	---	70	132	142	19	3.6	3.0	6.5
31	26	---	29	24	---	59	---	145	---	3.9	3.0	---
TOTAL	724	773	980	791	866	1160	2596	3431	1993	268.7	111.7	116.2
MEAN	23.4	25.8	31.6	25.5	30.9	37.4	86.5	111	66.4	8.67	3.60	3.87
MAX	29	29	42	35	53	72	157	157	135	18	4.4	7.8
MIN	18	22	26	17	18	30	48	69	19	3.6	3.0	2.5
AC-FT	1440	1530	1940	1570	1720	2300	5150	6810	3950	533	222	230
CAL YR 1980	TOTAL	46165.5	MEAN	126	MAX 774	MIN 9.7	AC-FT	91570				
WTR YR 1981	TOTAL	13810.6	MEAN	37.8	MAX 157	MIN 2.5	AC-FT	27390				

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 elevations 6,138.50 ft (1,871.015 m), sill of outlet gate, and 6,205 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed 77,780 acre-ft (95.9 hm³) May 1, elevation 6,198.41 ft (1,889.20 m); minimum observed, 20,960 acre-ft (25.8 hm³) Sept. 30, elevation 6,181.68 ft (1,884.15 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 53,340 acre-ft (65.8 hm³) May 1, elevation 6,198.41 ft (1,889.28 m); minimum observed, 20,960 acre-ft (25.8 hm³) Sept. 30, elevation 6,181.68 ft (1,844.18 m).

Capacity table (elevation, 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	6,196	47,520
6,187	29,340	6,197	49,880
6,188	31,110	6,198	52,310
6,189	32,940	6,199	54,810
6,190	34,820		

MONTHEND ELEVATIONS AND TOTAL CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	6,196.62	48,980	--
Oct. 31.	6,196.03	47,590	- 1,390
Nov. 30.	6,196.15	47,870	+ 280
Dec. 31.	6,196.38	48,410	+ 540
CAL YR 1980			+15,100
Jan. 31.	6,196.66	49,070	+ 660
Feb. 28.	g	50,360	+ 1,290
Mar. 31.	6,193.76	51,720	+ 1,360
Apr. 30.	6,198.34	53,160	+ 1,440
May 31.	6,197.89	52,040	- 1,120
June 30.	6,194.29	43,650	- 8,390
July 31.	6,188.85	32,660	-10,990
Aug. 31.	6,185.07	26,100	- 6,560
Sep. 30.	6,181.68	20,960	- 5,140
WTR YR 1980-81.	--	--	-28,020

g Interpolated.

OWYHEE RIVER BASIN

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'15", long 115°50'38", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank 500 ft (150 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft (1,864.995 m), Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi (0.5 km) upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft (76 m) downstream at different datum, while new dam was being constructed 300 ft (91 m) downstream from old dam.

REMARKS.--Records good except those for winter months, which are fair. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir, capacity, 71,660 acre-ft (88.4 hm³), 0.1 mi (0.2 km) upstream beginning Mar. 18, 1938.

AVERAGE DISCHARGE.--53 years (1917-25, 1936-81), 42.3 ft³/s (1.198 m³/s), 30,650 acre-ft/yr (37.8 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft³/s (51.3 m³/s) May 5, 1922, gage height, 10.11 ft (3.082 m), site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 244 ft³/s (6.91 m³/s) Sept. 30, gage height, 2.69 ft (0.820 m); minimum daily, 0.03 ft³/s (0.0008 m³/s) Apr. 3, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	3.3	2.2	2.4	3.3	.10	.04	.12	65	154	145	83
2	46	3.3	2.2	2.4	3.3	.10	.04	.12	65	152	144	83
3	48	3.3	2.2	2.4	3.3	.09	.03	.08	67	153	144	82
4	50	3.4	2.4	2.4	3.3	.08	.04	.10	81	152	146	81
5	42	3.4	2.5	2.4	3.1	.08	.04	.14	88	152	145	80
6	42	3.4	2.5	2.4	2.8	.08	.05	.08	88	152	119	79
7	42	3.4	2.5	2.4	2.6	.08	.05	.08	87	153	86	78
8	42	3.4	2.5	2.4	2.4	.08	.05	.08	89	152	85	77
9	42	3.4	2.5	2.4	.10	.08	.04	.10	88	152	86	76
10	42	3.4	2.5	2.5	.10	.08	.04	.08	88	151	86	76
11	42	3.4	2.5	2.8	.10	.07	.05	.12	90	149	85	62
12	42	3.4	2.5	3.0	.10	.07	.04	.12	105	147	85	54
13	43	3.4	2.5	3.3	.10	.06	.03	.12	130	149	85	53
14	26	3.4	2.5	3.3	.10	.05	.12	17	153	149	97	53
15	2.2	3.4	2.4	3.3	.10	.06	.35	45	156	149	104	55
16	2.2	3.4	2.4	3.3	.10	.07	.28	46	158	149	105	54
17	4.2	3.4	2.4	3.3	.10	.06	.24	59	159	148	105	53
18	4.2	3.4	2.4	3.3	.10	.05	.24	68	161	148	104	39
19	4.2	2.1	2.4	3.3	.10	.04	.21	69	162	147	105	10
20	4.2	.19	2.4	3.3	.10	.05	.18	69	164	150	96	10
21	4.0	.89	2.4	3.3	.10	.04	.18	69	162	150	90	39
22	4.0	2.2	2.4	3.3	.10	.04	.18	69	159	149	90	57
23	4.0	2.3	2.4	3.3	.10	.05	.12	70	158	149	90	53
24	4.0	2.4	2.4	3.3	.10	.04	.10	70	156	150	90	53
25	4.0	2.4	2.4	3.3	.10	.04	.10	72	157	152	96	50
26	4.0	2.3	2.4	3.3	.10	.05	.10	68	156	151	101	41
27	3.6	2.2	2.4	3.3	.10	.07	.10	64	156	150	87	41
28	3.6	2.2	2.4	3.3	.10	.06	.10	65	155	148	87	45
29	3.6	2.2	2.4	3.3	---	.05	.10	65	155	144	86	50
30	3.3	2.2	2.4	3.3	---	.05	.10	65	154	146	85	74
31	3.3	---	2.4	3.3	---	.05	---	65	---	142	84	---
TOTAL	658.6	84.48	74.8	92.6	26.10	1.97	3.34	1116.34	3812	4639	3143	1741
MEAN	21.2	2.82	2.41	2.99	.93	.064	.11	36.0	127	150	101	58.0
MAX	50	3.4	2.5	3.3	3.3	.10	.35	72	164	154	146	83
MIN	2.2	.19	2.2	2.4	.10	.04	.03	.08	65	142	84	10
AC-FT	1310	168	148	184	52	3.9	6.6	2210	7560	9200	6230	3450
CAL YR 1980	TOTAL	14859.64	MEAN	40.6	MAX	231	MIN	.00	AC-FT	29470		
WTR YR 1981	TOTAL	15393.23	MEAN	42.2	MAX	164	MIN	.03	AC-FT	30530		

OWYHEE RIVER BASIN

343

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW¼ sec.6, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft (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 good except for period of no gage height record, Nov. 26 to Feb. 3, 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.--42 years, 143 ft³/s (4.050 m³/s), 103,600 acre-ft/yr (128 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, 289 ft³/s (8.18 m³/s) May 25, gage height, 4.61 ft (1.405 m), minimum daily, 19 ft³/s (0.54 m³/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	29	28	31	25	32	63	161	173	156	139	82
2	56	30	31	30	26	31	62	153	157	155	134	80
3	54	31	35	30	28	30	58	140	162	155	136	80
4	54	31	33	29	29	30	54	125	158	154	136	79
5	53	31	31	29	30	30	52	114	168	145	135	79
6	53	32	30	28	30	31	65	105	161	148	127	79
7	53	32	29	27	30	29	64	95	158	148	96	79
8	52	32	28	27	30	30	58	85	154	148	80	79
9	52	32	27	29	31	31	58	75	159	147	80	81
10	53	32	26	30	31	30	59	69	148	146	76	81
11	54	32	26	30	31	30	58	72	138	145	75	81
12	51	32	26	30	29	31	58	64	133	145	76	68
13	46	32	28	30	29	30	61	57	166	144	77	63
14	42	32	29	31	53	30	65	60	196	145	71	62
15	39	32	30	30	70	29	76	105	199	148	88	60
16	34	32	31	28	50	35	86	122	192	148	93	60
17	30	35	32	28	75	35	89	114	188	148	99	59
18	28	31	33	30	54	32	93	130	187	148	99	58
19	27	28	34	31	49	33	103	213	185	150	100	43
20	28	29	34	32	51	37	163	197	175	151	101	22
21	27	28	34	34	46	36	183	229	167	150	88	19
22	26	28	34	36	42	37	179	232	166	149	83	44
23	25	32	34	35	42	38	186	216	165	148	82	60
24	26	31	34	32	41	36	196	212	164	147	82	61
25	28	28	34	28	37	38	200	240	163	147	80	66
26	28	27	34	28	34	49	197	253	161	146	88	58
27	26	27	33	28	29	54	191	222	158	145	88	48
28	26	28	33	30	30	55	175	207	157	145	79	45
29	26	35	32	30	---	75	171	196	160	141	81	51
30	27	33	32	28	---	73	168	180	157	145	76	57
31	28	---	31	28	---	60	---	182	---	139	81	---
TOTAL	1210	924	966	927	1082	1177	3291	4625	4975	4576	2926	1884
MEAN	39.0	30.8	31.2	29.9	38.6	38.0	110	149	166	148	94.4	62.8
MAX	58	35	35	36	75	75	200	253	199	156	139	82
MIN	25	27	26	27	25	29	52	57	133	139	71	19
AC-FT	2400	1830	1920	1840	2150	2330	6530	9170	9870	9080	5800	3740
CAL YR 1980	TOTAL	64034	MEAN	175	MAX	1300	MIN	24	AC-FT	127000		
WTR YR 1981	TOTAL	28563	MEAN	78.3	MAX	253	MIN	19	AC-FT	56650		

OWYHEE RIVER BASIN

13177800 SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV

LOCATION.--Lat 41°48'00", long 116°29'00", in NE¼ sec.16, T.45 N., R.49 E., Elko County, Hydrologic Unit 17050105, on left bank 500 ft (150 m) downstream from Rye Grass Creek, 1.8 mi (2.9 km) upstream from Chimney Creek, and 17 mi (27 km) northwest of Whiterock.

DRAINAGE AREA.--1,080 mi² (2,800 km²), approximately.

PERIOD OF RECORD.--October 1955 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,490 m), from topographic map.

REMARKS.--Records good except for winter months, which are poor. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs, total capacity, about 16,100 acre-ft (19.8 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--26 years, 161 ft³/s (4.560 m³/s), 116,600 acre-ft/yr (144 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,830 ft³/s (108 m³/s) June 5, 1963, gage height, 7.55 ft (2.301 m); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 543 ft³/s (15.4 m³/s) May 26, gage height 4.81 ft (1.466 m), maximum gage height 6.32 ft (1.92 m) Nov. 21 (backwater from ice), no peak above base of 600 ft³/s (17.0 m³/s); minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	34	34	33	33	69	90	100	215	60	22	12
2	28	34	34	33	33	69	90	90	144	55	24	11
3	28	34	34	33	33	68	82	86	102	53	24	11
4	28	35	33	33	33	66	78	79	82	53	32	11
5	27	35	33	33	33	65	72	68	46	55	37	10
6	27	35	33	33	34	64	71	59	43	54	28	10
7	27	35	33	33	36	64	72	52	43	43	24	10
8	27	34	33	33	37	62	71	44	43	39	22	11
9	28	34	33	33	39	62	62	40	44	32	21	9.5
10	28	35	33	33	41	61	58	42	44	29	24	9.5
11	29	35	33	33	45	58	56	43	44	32	19	9.5
12	29	35	33	33	50	58	54	34	44	31	18	9.0
13	29	37	33	33	55	56	53	33	43	31	17	9.0
14	30	37	33	33	60	52	53	36	43	31	17	8.6
15	31	36	33	33	65	48	54	39	43	33	16	8.6
16	33	35	33	33	68	47	50	43	44	34	15	9.0
17	34	35	33	33	68	52	49	46	44	36	16	9.0
18	35	35	33	33	72	49	49	54	44	36	14	9.5
19	34	35	33	33	72	46	52	118	67	37	14	9.5
20	33	35	33	33	76	54	138	217	85	34	15	9.5
21	32	35	33	33	69	65	206	225	81	27	16	9.9
22	32	35	33	33	76	68	168	277	78	24	14	10
23	31	35	33	33	81	65	136	259	76	23	13	11
24	32	35	33	33	78	64	120	260	78	21	13	13
25	33	35	33	33	72	64	114	317	75	21	12	26
26	32	35	33	33	71	66	124	506	72	22	12	23
27	33	35	33	33	69	87	139	472	72	24	13	13
28	35	35	33	33	68	102	139	375	72	24	12	12
29	35	35	33	33	---	124	128	327	61	23	12	13
30	34	35	33	33	---	120	114	287	61	24	11	14
31	34	---	33	33	---	102	---	269	---	24	11	---
TOTAL	956	1050	1026	1023	1567	2097	2742	4897	2033	1065	558	341.1
MEAN	30.8	35.0	33.1	33.0	56.0	67.6	91.4	158	67.8	34.4	18.0	11.4
MAX	35	37	34	33	81	124	206	506	215	60	37	26
MIN	27	34	33	33	33	46	49	33	43	21	11	8.6
AC-FT	1900	2080	2040	2030	3110	4160	5440	9710	4030	2110	1110	677

CAL YR 1980 TOTAL 78283.0 MEAN 214 MAX 1900 MIN 26 AC-FT 155300
WTR YR 1981 TOTAL 19355.1 MEAN 53.0 MAX 506 MIN 8.6 AC-FT 38390

OWYHEE RIVER BASIN

345

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 17050167, 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 excellent. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft (86.3 hm³), increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft (40.3 hm³), and numerous small reservoirs. Diversions above station for irrigation.

AVERAGE DISCHARGE.--32 years, 895 ft³/s (25.35 m³/s), 648,400 acre-ft/yr (799 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 CURENT YEAR.--Maximum discharge, 6,060 ft³/s (172 m³/s) Apr. 21, gage height, 7.82 ft (2.384 m) no other peak above base of 5,400 ft³/s (153 m³/s); minimum, 80 ft³/s (2.27 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	192	155	345	252	363	783	625	801	193	144	85
2	182	185	175	303	211	344	742	564	745	194	141	83
3	181	186	190	273	196	330	658	546	693	186	135	83
4	182	183	210	274	193	322	667	513	636	182	138	83
5	182	179	180	285	190	318	660	480	576	177	135	85
6	176	179	165	306	190	313	580	481	524	182	135	85
7	169	177	150	296	200	303	531	443	461	170	126	88
8	166	177	140	272	200	296	496	420	401	161	126	91
9	162	178	135	240	190	287	465	389	366	162	144	94
10	154	182	135	210	190	283	449	364	365	162	144	91
11	154	183	135	190	190	279	430	331	369	151	135	91
12	155	187	135	190	190	274	413	290	347	135	129	91
13	157	186	135	190	200	269	390	267	338	121	126	91
14	155	178	135	190	236	263	378	256	351	114	117	88
15	154	183	135	180	344	259	365	263	342	112	114	85
16	160	174	150	185	2090	260	365	273	333	113	111	83
17	164	183	150	195	1470	263	365	269	325	109	105	83
18	169	168	145	200	1670	259	362	318	308	110	100	85
19	178	167	145	200	1240	255	383	339	307	108	100	88
20	184	172	145	200	884	296	826	369	287	111	100	88
21	208	172	170	210	720	376	3840	486	269	128	97	88
22	197	170	242	220	607	534	3150	790	255	136	97	88
23	188	170	238	240	531	739	1950	907	253	134	100	91
24	182	170	248	256	493	898	1340	802	248	138	94	91
25	180	150	266	263	457	942	1040	1000	243	135	97	97
26	183	135	318	266	481	899	876	1060	230	135	97	100
27	183	135	475	256	425	1140	860	985	215	135	97	105
28	188	150	716	267	389	1170	812	1260	201	135	91	115
29	193	155	529	255	---	1300	757	1050	195	141	91	120
30	193	165	471	238	---	1280	691	896	192	141	91	123
31	191	---	406	256	---	923	---	856	---	141	91	---
TOTAL	5455	5171	7124	7451	14629	16037	25624	17892	11176	4452	3548	2759
MEAN	176	172	230	240	522	517	854	577	373	144	114	92.0
MAX	208	192	716	345	2090	1300	3840	1260	801	194	144	123
MIN	154	135	135	180	190	255	362	256	192	108	91	83
AC-FT	10820	10260	14130	14780	29020	31810	50830	35490	22170	8830	7040	5470
CAL YR 1980	TOTAL	312514	MEAN 854	MAX 9000	MIN 135	AC-FT 619900						
WTR YR 1981	TOTAL	121318	MEAN 332	MAX 3840	MIN 83	AC-FT 240600						

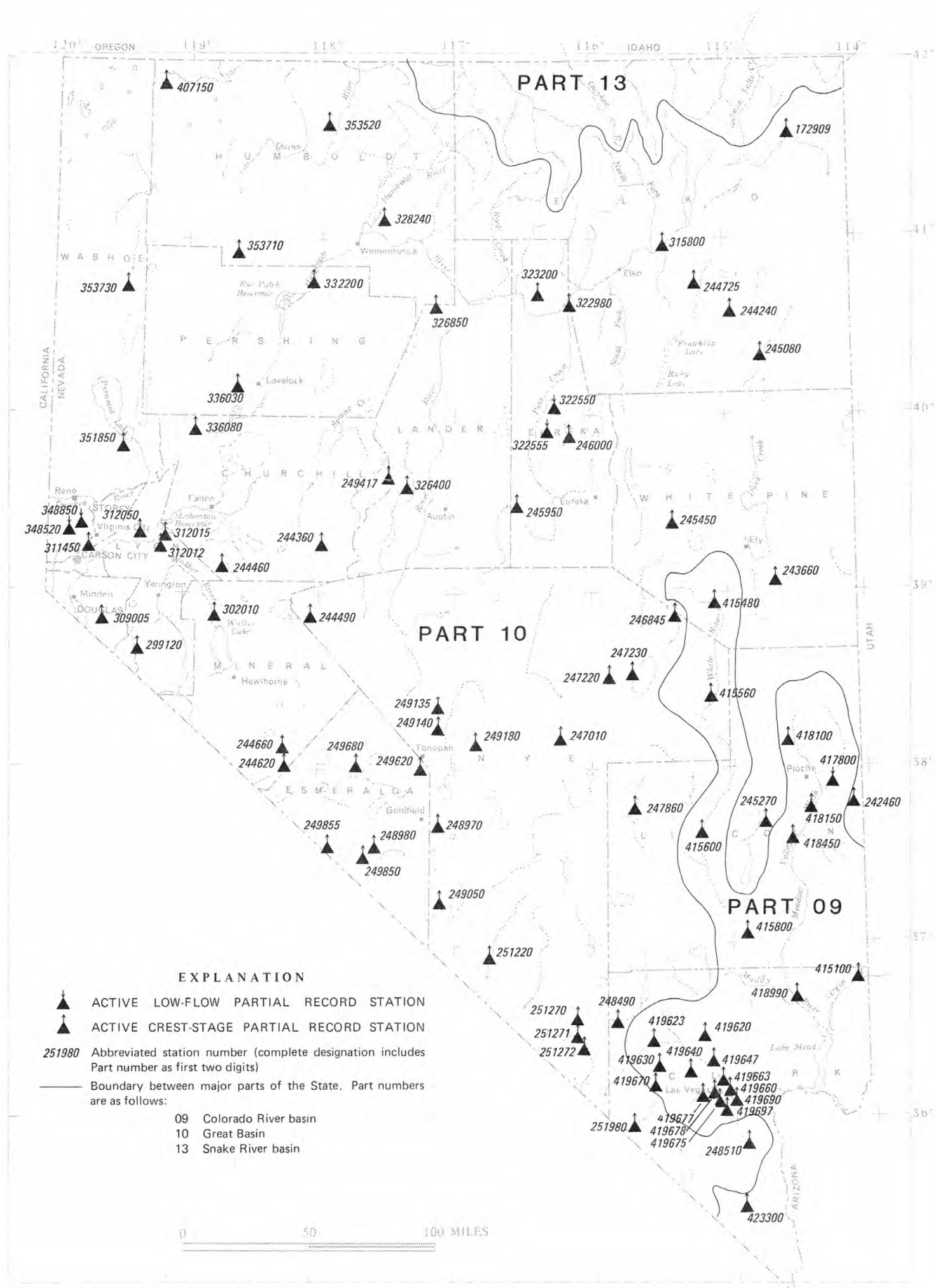


FIGURE 9.—Streamflow partial-record stations listed in this report.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analysis, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give a better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the State at low-flow partial-record stations are given in the following table. Generally, this category is used mostly for low-flow analysis when streamflow is primarily from ground-water storage so that the low-flow potentiality of the stream may be obtained by comparison with a nearby stream where continuous records are available. In this State, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained by similar comparison. The column headed "Period of Record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1981

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Virgin River basin						
09417800	Meadow Valley Wash at Echo Point, near Ursine, Nev.	Lat 37°54'30", long 114°15'40", in SW¼SW¼ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 mi (9.7 km) southwest of Ursine.	354	1970-81	2-24-81 4-28-81	8.44 2.37
Ruby Valley						
10244725	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NW¼NW¼ sec. 2, T.31 N., R.59 E., Elko County, 0.8 mi (1.3 km) west of McCrea Ranch and 13.5 mi (21.7 km) northeast of Ruby Valley Post Office.	7.56	1965-81	10-29-80 1-15-81 5-22-81 7-14-81 9-09-81	2.18 1.52 8.45 4.00 1.78
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE¼ sec. 20, T.25 N., R.51 E., Eureka County, 1.5 mi (2.4 km) upstream from Pete Hanson Creek, 11 mi (18 km) from mouth, and 42 mi (68 km) south of Palisade.	150	1972-81	10-16-80 1-22-81 4-14-81 7-13-81	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 mi (21 km) from mouth, 52 mi (84 km) south of Palisade, and 33 mi (53 km) northwest of Eureka.	5.0	1972-81	1-22-81 4-14-81 7-13-81	0 0 0.22
Pyramid and Winnemucca Lakes basin						
10348480	McCrays Canyon near Carson City, Nev.	Lat 39°12'13", long 119°52'48", in SW¼SW¼ sec.32, T.16 N., R.19 E., Washoe County, 0.5 mi (0.8 km) upstream from mouth, and 6.5 mi (10.5 km) west-northwest of Carson City.	.64	1974-81	1-09-81 5-29-81 6-23-81	.15 .54 .23
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE¼SE¼ T.17 N., R.19 E., Washoe County, at toe of hill, and 8.0 mi (12.9 km) southwest of Steamboat.	4.2	1972-81	3-02-81 7-08-81	2.18 .13
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE¼NW¼ sec.14, T.17 N., R.19 E., Washoe County, 1.5 mi (2.4 km) upstream from mouth and 5.0 mi (8.0 km) southwest of Steamboat.	3.6	1972-81	3-02-81 6-08-81	5.49 .06

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 1981. 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 no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Virgin River basin							
09415100	Pulsipher Wash near Mesquite, Nev.	Lat 36°48'04", long 114°06'37", in NW¼SW¼ sec.18, T.13 S., R.71 E., Clark County, at culvert on State Highway 170, 2.5 miles west of Mesquite.	4.58	1963-81	1981	--	0
09415480	White River tributary near Preston, Nev.	Lat 38°53'30", long 115°11'40", in N¼ sec.23, T.12 N., R.60 E., White Pine County, at culvert on U.S. Highway 6, 2 miles upstream from White River and 7.5 miles west of Preston.	A26	1962-81	8-10-81	--	E1.5
09415560	White River tributary near Sunnyside, Nev.	Lat 38°19'30", long 115°02'50", Nye County, about 0.4 mile downstream from ford on State Highway 318, 8 miles south of Sunnyside, and 37 miles south of Lund.	A20	1981	8-10-81	--	280
09415600	Pahranagat Valley tributary near Hiko, Nev.	Lat 37°29'20", long 115°20'10", in NE¼ sec.27, T.5 S., R.59 E., Lincoln County, at culvert on State Highway 375, 10 miles southwest of Hiko and 47 miles west of Caliente.	A17	1963-81	8-10-81	--	E0.01
09415800	Muddy River tributary near Alamo, Nev.	Lat 37°02'00", long 114°58'50", Lincoln County, at abandoned culvert on former U.S. Highway 93, 25 miles southeast of Alamo.	A2	1964-81	8-10-81	--	22
09418100	Patterson Wash tributary near Pioche, Nev.	Lat 38°09'00", long 114°35'10", Lincoln County, at culvert on U.S. Highway 93, 15 miles northwest of Pioche.	A5	1964-81	1981	--	0
09418150	Caselton Wash near Panaca, Nev.	Lat 37°45'46", long 114°25'44", in NW¼SE¼NW¼ sec.24, T.2 S., R.68 E., Lincoln County, 0.35 mile upstream from bridge on U.S. Highway 93 and 3 miles southwest of Panaca.	70.2	1963-81	8-10-81	8.68	74
09418450	Meadow Valley Wash tributary near Caliente, Nev.	Lat 37°36'00", long 114°39'30", in sec.13, T.4 S., R.65 E., Lincoln County, at abandoned culvert about 100 feet upstream from U.S. Highway 93, 1.2 miles east of Oak Springs Summit and 8 miles west of Caliente.	0.23	1964-81	1981	--	0
09418990	Weiser Wash near Glendale, Nev.	Lat 36°40'05", long 114°32'10", in SW¼SE¼ sec.31, T.14 S., R.67 E., Clark County, at culvert on Interstate Highway 15, 2 miles east of Glendale.	A43	1966-81	1981	--	0
Las Vegas Valley							
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE¼SW¼ sec.27, T.17 S., R.60 E., Clark County, above Mormon Wells road crossing, 6 miles east of Corn Creek Springs Headquarters of U.S. Fish and Wildlife Service and 20 miles north of Las Vegas.	A115	1962-81	5-81	--	1.3

E: ESTIMATED.

A: APPROXIMATE.

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Las Vegas Valley--Continued							
09419623	Deer Creek near Charleston Park, Nev.	Lat 36°18'45", long 115°37'10", in NE¼SE¼ sec.7, T.19 S., R.57 E., Clark County, 200 feet upstream from culvert on Deer Creek Springs Road, 4.0 miles north-east of Charleston Park.	1.27	1967-81	1981	--	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	1962-81	1981	--	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	1961-81	1981	--	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	1963-81	1981	--	0
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	1961-81	1981	--	0
09419663	Las Vegas Wash tributary south of Nellis Air Force Base, Nev.	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, 0.1 mile south of Lake Mead Boulevard and 3.7 miles south of main gate of Nellis Air Force Base.	A1.2	1963-81	1981	--	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	1962-81	9-7-81	--	12
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'56", long 115°11'03", in SW¼ sec.17, T.21 S., R.61 E., Clark County, 80 feet upstream from Union Pacific Railroad bridge, 4 miles southwest of Las Vegas Post Office.	A86	1966-81	9-5-81	2.15	240
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	1969-81	3-2-81	2.44	E10
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	1969-81	3-2-81	7.01	60
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	1961-81	1981	--	0

E: ESTIMATED.

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Las Vegas Valley--Continued							
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NW¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466, 0.7 mile southeast of Whitney.	239	1961-81	3-2-81	--	20
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE¼SE¼ sec.15, T.22 S., R.62 E., Clark County, at culvert on State Highway 41, 2.5 miles west of downtown Henderson.	1.17	1967-81	1981	--	0
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.62 E., Clark County, at culvert on State Highway 164, 1 mile west of Searchlight.	A3.4	1967-81	6-4-81	--	E0.1
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	1981	10-80	--	E0.4
Escalante Valley							
10242460	Escalante Valley tributary near Panaca, Nev.	Lat 37°44'10", long 114°08'20", Lincoln County, at culvert on State Highway 319, 3.5 miles east of Modena Summit, 5 miles west of Nevada-Utah boundary, and 14 miles east of Panaca.	A7.9	1964-81	8-10-81	5.34	74
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	1962-81	1981	--	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	1968-81	1981	--	0
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	1961-81	11-80	--	2.4
Rawhide Flats							
10244460	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S¼SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95, 14 miles north of Schurz.	0.96	1967-81	1981	--	0

E: ESTIMATED.
A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Gabbs Valley							
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW¼NW¼ sec.31, T.10 N., R.36 E., Mineral County, 3.9 miles upstream from State Highway 361 and about 12 miles south of Gabbs.	207	1981	11-80	7.27	630
Teels Marsh Valley							
10244620	Teels Marsh tributary at Basalt, Nev.	Lat 38°00'07", long 118°16'48", Mineral County, at culvert on U.S. Highway 6, 0.75 mile southwest of Basalt.	1.07	1967-81	1981	--	0
Rhodes Salt Marsh Valley							
10244660	Rhodes Salt Marsh tributary near Candelaria, Nev.	Lat 38°09'17", long 118°12'50", Mineral County, at culvert on State Highway 360, 7 miles west of Candelaria.	A0.4	1961-81	1981	--	0
Steptoe Valley basin							
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93, 2.5 miles northwest of Currie.	A0.7	1961-81	1981	--	0
Dry Lake Valley							
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW¼ sec.11, T.4 S., R.64 E., Lincoln County, at culvert on U.S. Highway 93, 14.5 miles west of Caliente.	A11	1967-81	1981	--	0
Jakes Valley							
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 feet upstream from Illipah Creek and 10.5 miles northeast of Hamilton.	5.47	1962-81	1981	--	0
Monitor and Diamond Valleys basin							
10245950	Bean Flat tributary near Austin, Nev.	Lat 39°29'32", long 116°32'00", Eureka County, at culvert on U.S. Highway 50, 29 miles east of Austin.	A1.1	1961-81	1981	--	0
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, at culvert on State Highway 278, 24 miles northwest of Eureka.	2.12	1962-81	1981	--	0

E: ESTIMATED.

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Hot Creek and Railroad (Northern Part) Valleys							
10246845	Currant Creek tributary near Currant, Nev.	Lat 38°49'10", long 115°19'35", near line common to NW¼NE¼ and NE¼NW¼ sec.15, T.11 N., R.59 E., Nye County, at culvert on U.S. Highway 6, 9.5 miles northeast of Currant.	3.13	1962-81	8-10-81	--	E 5.0
10247010	Hot Creek tributary near Warm Springs, Nev.	Lat 38°12', long 116°13', in sec.15, T.4 N., R.51 E., Nye County, at culvert on State Highway 375, 9 miles east of Warm Springs and 57 miles east of Tonopah.	0.77	1964-81	1981	--	0
10247220	Black Rock Summit tributary near Currant, Nev.	Lat 38°30'25", long 115°53'20", Nye County, at culvert on U.S. Highway 6, 28 miles southwest of Currant.	6.35	1967-81	1981	--	0
10247230	Railroad Valley tributary near Currant, Nev.	Lat 38°32'34", long 115°47'52", in NW¼NW¼ sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6, 22.5 miles southwest of Currant.	0.37	1962-81	1981	--	0
Penoyer Valley basin							
10247860	Penoyer Valley tributary near Tempiute, Nev.	Lat 37°35'07", long 115°40'48", in SE¼NE¼ sec.21, T.4 S., R.56 E., Lincoln County, at culvert on State Highway 375, 1 mile northwest of Coyote Summit and 5.3 miles south of Tempiute.	1.48	1963-81	1981	--	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	1964-81	5-27-81	--	1.2
Eldorado Valley							
10248510	Eldorado Valley tributary near Nelson, Nev.	Lat 35°48'35", long 114°53'05", in SE¼SE¼ sec.36, T.24 S., R.63 E., Clark County, at culvert on State Highway 165, 8 miles northwest of Nelson.	1.41	1964-77, 1979-81	1981	--	0
Stonewall and Sarcobatus Flats basin							
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE¼NE¼ sec.13, T.4 S., R.42 E., Esmeralda County, at culvert on U.S. Highway 95, 8 miles south of Goldfield.	0.53	1964-79, 1981	1981	--	E0.3
10248980	Lida Pass tributary near Lida, Nev.	Lat 37°26'05", long 117°33'25", in SE¼NE¼ sec.8, T.6 S., R.40 E., Esmeralda County, at culvert on State Highway 266, 4 miles southwest of Lida.	1.59	1968-81	1981	--	0
10249050	Sarcobatus Flat tributary near Springdale, Nev.	Lat 37°13'18", long 117°07'35", Nye County, at culvert on highway at Bonnie Clare, 24 miles northwest of Springdale.	37.1	1961-81	8-10-81	2.30	6.4

E: ESTIMATED.
A: APPROXIMATE.

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Stone Cabin and Ralston Valleys							
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 376, 19 miles north of Tonopah.	3.42	1965-81	1981	--	0
10249140	Ralston Valley tributary near Tonopah, Nev.	Lat 38°17'23", long 117°05'59", in SW¼NE¼ sec.13, T.5 N., R.43 E., Nye County, at culvert on State Highway 376, 17 miles northeast of Tonopah.	0.20	1961-81	1981	--	0
10249180	Saulsbury Wash near Tonopah, Nev.	Lat 38°07'30", long 116°48'30", in S¼SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6, 23 miles east of Tonopah.	A56	1962-81	1981	--	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	1981	--	0
Ione and Big Smoky (Tonopah Flat) Valleys							
10249620	Big Smoky Valley tributary near Tonopah, Nev.	Lat 38°01'52", long 117°13'52", in SW¼NE¼ sec.14, T.2 N., R.42 E., Esmeralda County, at culvert on U.S. Highway 95, 2.5 miles south of Tonopah.	2.39	1961-81	1981	--	0
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	1961-81	6-81	--	E0.5
Fish Lake Valley and Columbus Salt Marsh							
10249850	Palmetto Wash tributary near Lida, Nev.	Lat 37°26'30", long 117°41'25", in SW¼SE¼ sec.6, T.6 S., N.39E., Esmeralda County, at culvert on State Highway 266, 7 miles west of Lida Summit and 11 miles west of Lida.	4.73	1967-81	1981	--	E0.2
10249855	Palmetto Wash tributary near Oasis, Calif.	Lat 37°27'25", long 117°46'10", in W¼SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 266, 8 miles southeast of Oasis, Calif.	A0.24	1968-81	1981	--	0
Death Valley basin							
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW¼NE¼ sec.30, T.12 S., R.47 E., Nye County, 170 feet downstream from airport road and 2.8 miles south of Beatty.	A470	1963-68†, 1969-81	1981	--	0
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", in sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95, 9 miles southwest of Mercury.	110	1963-81	1981	--	0
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE¼SE¼ sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 160, 3.5 miles northwest of Johnnie.	2.21	1967-81	1981	--	0
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W¼NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 160, 1.2 miles north of Johnnie.	2.49	1968-81	1981	--	0

†: OPERATED AS A CONTINUOUS-RECORD STATION.

E: ESTIMATED.

A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Pahrump Valley basin							
10251980	Lovell Wash near Blue Diamond, Nev.	Lat 36°00'10", long 115°38'38", in NE¼SW¼ sec.25, T.22 S., R.56 E., Clark County, 0.2 mile downstream from county road and 13.7 miles west of Blue Diamond.	2.30	1965-81	1981	--	0
Walker Lake basin							
10299120	O'Banion Canyon near Wellington, Nev.	Lat 38°38'05", long 119°15'50", Lyon County, at culvert on State Highway 338, 10 miles southeast of Wellington.	5.05	1965-81	1981	--	0
10302010	Reese River Canyon near Schurz, Nev.	Lat 36°51'00", long 118°46'55", in NE¼NW¼ 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	1963-81	6-81	--	35
Carson River basin							
10309005	Bodie Flat tributary near Gardnerville, Nev.	Lat 38°50'08", long 119°37'52", in NW¼NE¼ sec.9, T.11 N., R.21 E., Douglas County, at culvert on U.S. Highway 395, 9 miles southeast of Gardnerville.	0.46	1967-79, 1981	1981	--	E0.05
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW¼NE¼ sec.13, T.15 N., R.20 E., Carson City, 0.3 mile upstream from mouth and 2.5 miles east of New Empire.	12.7	1966-78, 1980-81	1981	--	0
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95, 4.8 miles northwest of Wabuska.	5.75	1968-81	7-81	--	E0.15
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13'45", long 119°13'40", in NW¼NW¼ sec.30, T.16 N., R.25 E., Lyon County, at abandoned culvert on former Alternate U.S. Highway 95, 4.6 miles southeast of Weeks.	0.12	1968-81	7-81	--	E0.25
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE¼SW¼ sec.32, T.18 N., R.24 E., Lyon County, at culvert on private road, 0.3 mile south of U.S. Highway 50, 5.5 miles southwest of Silver Springs.	4.39	1962-78, 1981	1981	--	0
Humboldt River basin							
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58'10", long 115°26'50", in NW¼NW¼ sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80, 1.5 miles north of Halleck.	A 3	1966-79, 1981	1981	--	0
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-81	2-81	--	E0.2
10323200	Bob Creek near Beowawe, Nev.	Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80, 6 miles northeast of Beowawe.	13.9	1962-81	1981	3.15	U

E: ESTIMATED.
A: APPROXIMATE.
U: UNABLE TO DETERMINE.

Annual maximum discharge at crest-stage partial-record stations, water year 1981--continued

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Humboldt River basin--Continued							
10326400	Reese River tributary near Austin, Nev.	Lat 39°28'29", long 117°19'10", in NE¼NW¼ sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50, 14 miles west of Austin.	8.27	1968-79, 1981	6-81		80
10326850	Reese River tributary near Battle Mountain, Nev.	Lat 40°32'30", long 117°03'00", in SW¼ sec.20, T.31 N., R.44 E., Lander County, at culvert on State Highway 305, 9 miles southwest of Battle Mountain.	A0.2	1962-79, 1981	10-80	--	E5
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE¼NE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80, 5 miles northeast of Winnemucca.	A1.9	1968-78, 1981	1980-81	--	E1.5
10332200	Raspberry Creek near Mill City, Nev.	Lat 40°47'14", long 117°59'54", in SW¼SW¼ sec.25, T.34 N., R.35 E., Pershing County, at culvert on access road upstream from Cosgrove Interchange on Interstate Highway 80, 8.5 miles northeast of Mill City.	9.38	1981	1981	--	E0.3
10336030	Toulon Drain tributary near Lovelock, Nev.	Lat 40°06'30", long 118°33'25", in NW¼SE¼ sec.24, T.26 N., R.30 E., Pershing County, at culvert on Interstate Highway 80, 75 miles southwest of Lovelock.	0.80	1962-78, 1981	1981	--	0
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51'05", long 118°55'40", in NE¼NE¼ sec.22, T.23 N., R.27 E., Churchill County, at culvert on U.S. Highway 40 and 95, 6.5 miles northeast of Bradys Hot Springs.	11.0	1962-81	1981	--	0
Pyramid and Winnemucca Lakes basin							
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on former Southern Pacific Railroad right-of-way, 6.5 miles west of Nixon.	1.94	1968-79, 1981	1981	--	0
Black Rock Desert basin							
10353520	Eagle Creek near Orovada, Nev.	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95, 5.6 miles north of Orovada.	3.44	1962-78, 1981	1980-81	--	E0.05
10353710	Black Rock Desert tributary near Sulphur, Nev.	Lat 40°54'00", long 118°37'40", Humboldt County, at culvert on highway, 7.5 miles east of Sulphur.	A33	1967-78, 1981	1980-81	3.46	E24
10353730	Dry Creek near Gerlach	Lat 40°43'43", long 119°27'07", in SE¼NE¼ sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 447 and 7.5 miles west of Gerlach.	A3.5	1968-81	10-8-80	--	0.4
Tumtum Lake basin							
10407150	Big Spring Reservoir tributary near Denio, Nev.	Lat 41°56'53", long 119°17'51", Humboldt County, at culvert on State Highway 140, 3.4 miles southwest of Nevada-Oregon State line and 35 miles west of Denio.	1.02	1963-78, 1981	1980-81	--	0

E: ESTIMATED.
A: APPROXIMATE.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1981

Measurements of streamflow at miscellaneous sites during the water year are given in the following table. Generally, this category of measurements represents base flow conditions and were made when streamflow was primarily from ground-water storage to give areal coverage to low-flow and drought conditions. However, where miscellaneous measurements were made to document peak flows, verify existing stage-discharge relationships, or meet other project needs, appropriate footnotes are used.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Walker Lake basin						
Walker River	Walker Lake	Lat 39°02'42", long 118°51'31", in NE¼SW¼ sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 50 ft (15 m) downstream from Weber Dam and 8.5 mi (13.7 km) northwest of Schurz.	--	1977-81	10-27-80	113
					11-18-80	47.3
					11-30-80	^a 10
					12-16-80	61.2
					1-15-81	44.0
					3-31-81	44.6
					4-29-81	85.0
					5-27-81	109
					7-01-81	95.8
					7-30-81	96.2
					8-27-81	47.1
					9-29-81	34.0
Walker River	Walker Lake	Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 2 mi (3.2 km) downstream from Weber Reservoir and 6 mi (9.7 km) northwest of Schurz.	--	1977-81	10-27-80	205
					11-18-80	108
					11-30-80	^a 10
					12-16-80	98.2
					1-15-81	56.4
					3-31-81	59.4
					4-29-81	93.3
					5-27-81	106
					7-01-81	85.5
					7-30-81	46.3
					8-27-81	46.4
					9-29-81	32.7
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 mi (1.8 km) west of Fredricksburg, CA.	3.45	1972-73 1976-77	5-12-81	3.94
					6-11-81	2.47
					7-30-81	2.05
					9-10-81	1.82
					10-26-81	1.75
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 mi (3.9 km) northwest of Fredricksburg, CA, at split box.	4.42	1976-77	5-05-81	2.75
					6-11-81	1.61
					7-27-81	1.35
					9-10-81	1.70
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 mi (5.6 km) northwest of Fredricksburg, CA.	--	--	5-05-81	1.90
					7-30-81	1.54
					9-10-81	1.51
					10-26-81	1.30
Indian Creek	East Fork Carson River	Lat 38°52'46", long 119°42'05", in NW¼NE¼ sec.26, T.12 N., R.20 E., Douglas County, Hydrologic Unit 16050201, approx. 0.6 mi (1.0 km) southwest of Lahontan Fish Hatchery.	--	--	6-10-81	0.71
					7-30-81	1.09
					9-10-81	.322
Joes 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 mi (5.8 km) southwest of Centerville.	2.97	1976	6-12-81	1.49
					7-28-81	1.43
					9-10-81	1.36
Barber Creek	West Fork Carson River	Lat 38°53'40", long 119°50'28", in NW¼NW¼ sec.22, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.6 mi (5.8 km) southwest of Centerville, Nev.	0.39	--	6-12-81	.684
					7-28-81	.495
					9-10-81	.307
Sheridan Creek	West Fork Carson River	Lat 38°53'46", long 119°50'48", in SE¼SE¼ sec.16, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.8 mi (6.1 km) west of Centerville.	.23	--	6-12-81	.76
					7-28-81	.714
					9-10-81	.770

† Operated as a crest-stage partial-record station.

‡ Operated as a continuous-record station.

^a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1981--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Carson River basin--Continued						
Stutler Canyon Creek	West Fork Carson River	Lat 38°54'35", long 119°50'31", in NW¼NW¼ sec.15, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, approx. 3.5 mi (5.6 km) west of Centerville.	1.90	--	7-28-81	0.245
					9-09-81	.178
					10-26-81	.353
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 mi (5.9 km) northwest of Centerville.	2.26	--	5-05-81	2.93
					6-10-81	2.17
					7-27-81	2.12
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 mi (1.1 km) west of Mottsville.	1.93	1969,71 1972,73 1976,77	5-12-81	3.19
					6-10-81	2.17
					7-27-81	1.88
					9-11-81	1.75
					10-26-81	1.92
					11-16-81	2.23
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 mi (0.48 km) southwest of Genoa.	2.20	1969,72 1976,77	5-05-81	.835
					6-10-81	.807
					7-27-81	.394
					9-09-81	.400
					11-16-81	1.15
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 mi (1.4 km) northwest of Genoa.	3.12	1976,77	5-12-81	1.02
					7-27-81	.62
					9-09-81	.415
					10-26-81	.674
					11-16-81	1.29
10310500 Clear Creek	Carson River	Lat 39°06'50", long 119°47'50", in NW¼NW¼ sec.1, T.14 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 3 mi (5 km) upstream from mouth and 3.5 mi (5.6 km) southwest of Carson City.	15.5	1948-62‡ 1963-81†	1-08-81	4.01

‡ Operated as a crest-stage partial-record station..

† Operated as a continuous-record station.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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 1980 TO SEPTEMBER 1981*

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (UMHOS)	PH, WATER (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									
02...	1035	10.0	1090	7.7	17.0	8.1	320	81	29
02...	1125	269	1100	7.0	17.0	5.4	320	80	28
14...	0945	10.0	1100	8.0	16.0	8.3	--	--	--
14...	1036	279	1020	7.3	15.0	4.1	--	--	--
FEB									
25...	1000	10.0	1080	7.9	13.5	9.0	330	81	30
25...	1020	301	1180	7.9	16.0	7.6	350	87	32
MAY									
28...	1000	10.0	1090	8.4	24.0	9.8	320	77	31
28...	1020	300	1000	7.8	16.0	7.3	330	83	30
AUG									
26...	0950	10.0	1120	--	29.5	--	350	82	35
26...	1005	270	920	7.5	23.0	--	360	90	33

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
DEC									
02...	110	2.7	7.0	150	100	300	95	.4	7.9
02...	100	2.5	7.1	160	110	290	95	.4	8.3
14...	--	--	--	--	100	--	--	--	--
14...	--	--	--	--	100	--	--	--	--
FEB									
25...	100	2.4	4.4	140	100	290	93	.3	8.4
25...	110	2.6	5.0	150	110	330	100	.3	9.3
MAY									
28...	110	2.7	4.7	130	100	310	100	.3	6.8
28...	100	2.4	4.3	160	110	290	90	.3	8.9
AUG									
26...	110	2.6	5.3	--	85	310	94	.3	7.3
26...	100	2.3	4.7	--	100	290	92	.3	7.5

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	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, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC									
02...	704	.25	.000	.25	.27	.010	.72	.98	.010
02...	689	.42	.000	.42	.38	.000	.60	1.0	.030
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
FEB									
25...	681	.29	.010	.30	.32	.020	.54	.86	.060
25...	754	.46	.050	.51	.50	.290	.61	1.4	.140
MAY									
28...	700	.03	.010	.04	.04	.040	1.1	1.1	.020
28...	680	.39	.000	.39	.36	.020	.51	.92	.030
AUG									
26...	710	.01	.000	.01	.01	.030	.44	.48	.010
26...	702	.36	.000	.36	.18	.010	.47	.84	.030

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
DEC	
02...	47
14...	42
FEB	
25...	39
MAY	
28...	13
AUG	
26...	18

* Samples and field data collected by U.S. Bureau of Reclamation.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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COLORADO RIVER MAIN STEM

09420950 LAKE MEAD AT SADDLE ISLAND, NV (LAT 36°03'45", LONG 114°47'40")

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981*

DATE	TIME	SAM- PLING DEPTH (FT)	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									
03...	0835	10.0	1100	8.2	18.0	7.6	320	77	30
03...	0845	150	1100	8.2	17.0	7.2	--	--	--
03...	0900	400	1090	8.0	14.0	6.3	330	84	29
14...	1210	10.0	1040	8.2	19.5	7.6	--	--	--
14...	1240	146	1060	7.9	18.0	7.8	--	--	--
14...	1315	308	1040	7.8	13.5	5.6	--	--	--
FEB									
25...	1200	10.0	1060	8.1	16.0	9.0	330	81	30
25...	1215	150	1100	8.1	14.0	8.8	--	--	--
MAY									
28...	1045	10.0	1090	8.3	21.5	9.5	330	81	31
28...	1050	146	1000	8.0	18.5	8.3	--	--	--
28...	1100	290	1050	7.8	13.5	7.2	320	80	29
AUG									
26...	1230	10.0	1180	7.6	25.0	8.5	360	84	36
26...	1245	146	920	7.6	23.5	7.4	--	--	--
26...	1310	298	1020	7.7	15.0	6.7	370	92	33

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD AS HCO3)	ALKA- LINITY FIELD 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									
03...	110	2.7	7.0	150	95	300	94	.4	8.0
03...	--	--	--	--	98	--	--	--	--
03...	100	2.4	6.8	160	110	290	94	.4	8.2
14...	--	--	--	--	98	--	--	--	--
14...	--	--	--	--	98	--	--	--	--
14...	--	--	--	--	120	--	--	--	--
FEB									
25...	100	2.4	4.3	--	110	290	91	.3	8.5
25...	--	--	--	--	110	--	--	--	--
MAY									
28...	110	2.6	4.5	140	100	300	95	.3	8.5
28...	--	--	--	--	120	--	--	--	--
28...	100	2.4	4.3	150	120	280	87	.3	8.6
AUG									
26...	110	2.5	5.2	--	86	320	99	.3	7.2
26...	--	--	--	--	110	--	--	--	--
26...	100	2.3	4.8	--	100	290	99	.3	7.9

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	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, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC									
03...	700	.26	.000	.26	.26	.010	.43	.70	.010
03...	--	--	--	--	--	--	--	--	--
03...	692	.39	.000	.39	.40	.010	.50	.90	.010
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
FEB									
25...	679	.29	.010	.30	.30	.010	.80	1.1	.070
25...	--	--	--	--	--	--	--	--	--
MAY									
28...	697	.11	.010	.12	.13	.030	.70	.85	.020
28...	--	--	--	--	--	--	--	--	--
28...	663	.38	.000	.38	.34	.030	.61	1.0	.030
AUG									
26...	728	.02	.000	.02	.01	.100	.80	.92	.020
26...	--	--	--	--	--	--	--	--	--
26...	706	.37	.000	.37	.18	.050	.44	.86	.050

* 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")--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981*

DATE	TRANSPARENCY, SECCHI DISK (FEET)
DEC	
03...	20
14...	48
FEB	
25...	--
MAY	
28...	21
AUG	
26...	26

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 16...	1045	1125	8.1	16.0	320	81	28	110

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	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 16...	2.7	5.5	130	280	100	8.3	692	.23	

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 16...	0930	1110	7.8	16.0	350	87	31	110

DATE	TIME	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	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 16...	2.6	5.5	320	99	9.0	741	.28	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DEPTH (FT)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA- LITY, TOTAL (MG/L AS CaCO ₃)
------	---------------	--	-------------------------	---------------------------------------	-------------------------------	--

09420600 LAKE MEAD AT ICEBERG CANYON AZ-NV
(RIVER MILE 295.0; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 20 FT)*

OCT						
20...	0	940	8.6	25.0	9.1	90
20...	10	980	8.6	23.5	9.3	94
20...	25	990	8.7	23.5	9.5	94
20...	50	945	8.7	23.0	8.6	94
20...	75	920	8.4	21.5	8.6	104
20...	79	920	8.4	21.5	8.6	110

09420650 LAKE MEAD AT SANDY POINT, AZ
(RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 39 FT)*

OCT						
20...	0	940	8.5	23.5	8.2	96
20...	10	980	8.6	23.5	8.4	96
20...	25	985	8.7	23.0	8.3	96
20...	50	985	8.7	22.0	8.2	96
20...	75	920	8.5	24.0	7.9	103
20...	100	920	8.4	21.0	8.0	103
20...	150	880	8.4	20.5	7.5	105
20...	200	890	8.2	18.0	4.0	122
20...	230	890	8.0	18.0	4.3	124

09420700 LAKE MEAD AT VIRGIN CANYON, AZ-NV
(RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 47 FT)*

OCT						
21...	0	1050	8.3	20.0	8.3	98
21...	10	1040	8.6	21.0	8.6	98
21...	25	1040	8.6	21.5	8.6	98
21...	50	1030	8.6	22.0	8.6	100
21...	75	900	8.5	21.0	8.5	104
21...	100	890	8.5	19.0	8.5	106
21...	150	980	8.4	18.0	8.4	115
21...	200	950	8.4	15.5	8.4	116
21...	250	970	8.2	14.0	8.2	118
21...	300	1010	8.2	13.0	8.2	118
21...	324	1010	8.2	13.0	8.2	118

09420750 LAKE MEAD NEAR OVERTON BEACH, NV
(RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 15 FT)*

OCT						
22...	0	1250	8.5	21.0	9.4	93
22...	5	1250	8.9	21.0	9.5	93
22...	10	1250	8.7	21.0	9.5	93
22...	23	1310	8.6	21.0	9.2	93

09420800 LAKE MEAD AT OVERTON ISLANDS, NV
(RIVER MILE 9.5; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 54 FT)*

OCT						
22...	0	1060	8.6	22.0	9.1	92
22...	10	1100	8.7	23.5	9.0	93
22...	25	1100	8.7	22.0	8.9	95
22...	75	900	8.4	20.5	7.3	110
22...	100	920	8.3	19.5	6.9	115
22...	125	1000	8.2	18.5	6.1	112
22...	175	1040	8.1	16.0	6.2	110
22...	225	1060	8.2	15.0	6.5	112
22...	275	1070	8.2	14.0	7.5	110
22...	300	1080	8.2	13.0	7.4	110
22...	313	1080	8.2	13.0	7.4	110

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

COLORADO RIVER MAIN STEM

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 32 FT)*						
OCT						
23...	0	1020	8.5	24.0	8.4	88
23...	5	1040	--	23.5	--	--
23...	10	1050	8.5	23.0	8.4	88
23...	15	1060	--	22.0	--	--
23...	20	1060	--	22.0	--	--
23...	25	1070	8.6	21.5	8.4	86
23...	30	1080	--	21.5	--	--
23...	40	1070	--	21.5	--	--
23...	50	1080	--	21.5	--	--
23...	60	1040	--	21.5	--	--
23...	70	910	--	20.5	--	--
23...	75	890	8.2	20.0	6.7	103
23...	80	910	--	19.0	--	--
23...	90	930	--	18.5	--	--
23...	100	940	--	18.5	--	--
23...	125	1020	8.0	18.0	6.0	104
23...	150	1060	--	16.5	--	--
23...	175	1070	8.1	15.5	6.4	103
23...	200	1080	--	15.0	--	--
23...	225	1090	8.1	14.0	6.9	100
23...	250	1080	--	13.5	--	--
23...	275	1090	8.0	13.0	7.1	100
23...	300	1090	--	13.0	--	--
23...	325	1090	8.1	13.0	7.0	100
23...	350	1100	--	13.0	--	--
23...	375	1100	8.1	13.0	6.8	103
23...	400	1100	--	13.0	--	--
23...	425	1100	8.1	12.0	6.3	102
23...	430	1100	8.1	12.0	5.8	104

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

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 1980 TO SEPTEMBER 1981*

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)	HARD- NESS (MG/L AS CaCO ₃)
APR 28...	1025	E588	74	7.6	6.5	2.0	10.5	26
SEP 16...	1000	E41	129	7.9	14.5	1.0	8.8	42

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- LITY FIELD (MG/L AS CaCO ₃)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
APR 28...	7.2	2.0	4.4	.4	1.0	29	1.5	50
SEP 16...	12	3.2	8.8	.6	1.6	58	4.0	77

* Data from Calif. Dept. of Water Resources.

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)
09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV (LAT 37 33 20 LONG 114 33 50)									
JAN, 1981					MAY, 1981				
28...	1400	9.0	928	7.5	27...	0915	7.0	1100	15.5
FEB					JUN				
23...	1400	9.0	911	15.5	25...	0900	2.0	817	19.0
MAR					JUL				
25...	1315	9.0	1010	16.0	28...	0915	2.0	792	--
APR					SEP				
28...	0930	6.0	990	13.0	24...	0845	2.0	845	16.5
09419000 MUDDY RIVER NEAR GLENDALE, NV (LAT 36 38 35 LONG 114 32 20)									
OCT, 1980					MAY, 1981				
03...	1400	26	1560	24.5	04...	0930	32	1560	21.5
17...	1300	26	1480	18.5	JUN				
DEC					04...	1200	33	1480	24.5
04...	1000	35	1600	18.5	JUL				
30...	1015	38	1540	17.0	03...	1200	30	1470	25.5
FEB, 1981					AUG				
03...	1030	38	1600	15.5	07...	1100	29	1430	26.0
MAR					SEP				
03...	1115	46	1610	18.5	02...	1045	32	1670	26.0
31...	1315	35	1520	19.5					
10244720 FRANKLIN RIVER NEAR ARTHUR, NV (LAT 40 49 25 LONG 115 08 10)									
OCT, 1980					MAY, 1981				
29...	1405	1.9	215	6.5	22...	1030	8.3	77	7.5
NOV					JUL				
21...	1150	1.5	212	1.0	14...	1120	1.4	154	15.0
JAN, 1981					SEP				
15...	1305	2.4	190	1.0	09...	1100	.72	258	11.0
MAR									
05...	1020	2.2	199	2.0					
10244745 OVERLAND CREEK NEAR RUBY VALLEY, NV (LAT 40 27 30 LONG 115 23 30)									
OCT, 1980					MAY, 1981				
29...	1115	1.5	89	3.0	22...	1405	14	65	11.5
JAN, 1981					JUL				
15...	1050	1.6	85	.0	14...	1655	3.4	79	17.0
MAR					SEP				
05...	1205	1.6	84	3.0	09...	1505	1.1	102	14.0
10245900 PINE CREEK NEAR BELMONT, NV (LAT 38 47 40 LONG 116 51 13)									
NOV, 1980					JUN, 1981				
18...	0915	1.8	70	.0	23...	1500	5.3	54	12.5
MAR, 1981					AUG				
24...	1200	1.3	76	3.0	31...	1705	1.3	73	11.0
MAY									
12...	1020	7.3	58	6.5					
10245910 MOSQUITO CREEK NEAR BELMONT, NV (LAT 38 48 22 LONG 116 40 43)									
NOV, 1980					MAY, 1981				
19...	0800	1.0	114	.0	12...	1120	2.1	84	7.0
FEB, 1981					JUN				
10...	1455	.59	100	1.0	21...	1050	3.6	94	10.0
MAR					SEP				
25...	0735	.57	104	2.0	01...	1025	.70	98	9.5
10245925 STONEBERGER CREEK NEAR AUSTIN, NV (LAT 39 08 24 LONG 116 36 05)									
NOV, 1980					MAY, 1981				
17...	1640	.25	488	3.0	12...	0900	1.3	306	7.0
FEB, 1981					JUN				
10...	1145	.41	452	5.0	23...	1245	1.3	283	15.5
MAR					AUG				
24...	0945	.38	443	2.5	31...	1505	.12	510	14.0
10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV (LAT 38 50 50 LONG 115 22 00)									
OCT, 1980					MAY, 1981				
20...	1530	1.6	377	9.0	14...	0845	6.8	329	8.0
NOV					JUN				
21...	0835	2.1	394	1.5	18...	0835	6.0	350	8.5
DEC					JUL				
18...	0755	1.3	342	2.0	23...	0925	1.5	340	10.0
JAN, 1981					AUG				
21...	1150	.81	331	3.0	20...	0935	.96	340	12.0
MAR					SEP				
18...	1325	1.1	347	2.5	22...	1805	.48	346	12.5
APR									
23...	0950	6.7	318	10.5					

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)		
10249190 WILLOW CREEK NEAR WARM SPRINGS, NV (LAT 38 34 35 LONG 116 35 05)											
NOV, 1980					MAY, 1981						
18...	1100	.20	274	.0	12...	1330	.28	202	12.0		
FEB, 1981					JUN						
10...	1645	.08	239	1.0	24...	1320	.13	219	24.5		
MAR											
25...	1420	.58	210	7.0							
10249200 MCCLUSKY CREEK NEAR AUSTIN, NV (LAT 39 56 23 LONG 116 31 14)											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH, FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)
OCT, 1980						JUN, 1981					
16...	1215	.02	549	--	5.0	15...	1330	.32	486	8.8	22.0
APR, 1981						JUL					
14...	1330	.52	462	8.4	20.5	13...	1255	E.15	518	8.8	22.0
10249280 KINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV (LAT 39 12 45 LONG 117 06 45)											
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, 1980					MAY, 1981						
17...	1505	5.1	429	5.0	11...	1310	6.4	325	9.0		
FEB, 1981					JUN						
09...	1520	4.0	371	2.5	25...	1230	5.9	408	12.0		
MAR					SEP						
23...	1600	2.9	371	7.5	02...	0815	4.0	387	7.5		
10288500 WALKER LAKE NEAR HAWTHORNE, NV (LAT 38 35 05 LONG 118 42 15)											
DATE	TIME	ELE- VATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ELE- VATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)		
OCT, 1980					APR, 1981						
20...	--	3956.39	14700	16.0	20...	0945	3956.39	14770	14.0		
NOV					JUL						
18...	0815	3956.24	15000	11.5	20...	0935	3955.52	15000	24.0		
JAN, 1981											
19...	0915	3956.19	14740	7.5							
10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA (LAT 38 21 39 LONG 119 26 38)											
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, 1980					MAY, 1981						
24...	1250	20	217	1.5	28...	1440	86	99	11.5		
DEC					JUN						
29...	1300	17	196	.5	29...	1145	47	137	15.5		
JAN, 1981					JUL						
26...	1210	18	253	.0	28...	1230	12	250	19.0		
FEB					AUG						
24...	1110	24	224	1.0	28...	1140	9.6	316	12.0		
APR											
27...	1340	48	144	12.0							

E: ESTIMATED.

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)
10296500 WEST WALKER RIVER NEAR COLEVILLE, CA (LAT 38 30 55 LONG 119 27 15)									
NOV, 1980					MAY, 1981				
24...	1050	62	146	1.5	28...	1130	730	42	8.5
DEC					JUN				
29...	1020	65	143	.5	29...	1015	228	77	13.0
JAN, 1981					JUL				
26...	1015	26	161	.0	28...	1030	76	134	15.5
FEB					AUG				
24...	0915	91	149	2.5	28...	0945	48	173	13.5
APR									
27...	1115	400	66	4.0					
10297500 WEST WALKER RIVER AT HOYE BRIDGE NEAR WELLINGTON, NV (LAT 38 43 40 LONG 119 25 40)									
OCT, 1980					MAY, 1981				
22...	1115	134	242	10.0	28...	1035	301	174	9.0
NOV					JUN				
26...	1330	49	236	5.5	29...	1340	383	140	20.0
JAN, 1981					JUL				
12...	1245	23	303	6.0	22...	1330	192	150	24.0
FEB					AUG				
19...	1230	8.9	--	10.5	19...	1300	206	147	22.5
APR					SEP				
21...	1340	308	204	13.0	16...	1300	88	163	17.0
10300600 WALKER RIVER NEAR MASON, NV (LAT 38 55 11 LONG 119 11 20)									
NOV, 1980					APR, 1981				
26...	1030	105	472	2.0	16...	1040	194	318	16.5
JAN, 1981					MAY				
02...	1015	83	472	6.0	21...	1230	352	269	14.0
FEB					JUN				
19...	1045	82	520	9.0	25...	1300	302	229	23.5
MAR					SEP				
18...	1200	136	358	5.5	15...	1330	95	346	20.0
10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK NEAR MARKLEEVILLE, CA (LAT 38 42 50 LONG 119 45 50)									
OCT, 1980					DEC, 1980				
30...	0945	88	135	3.0	18...	1330	85	129	2.5
NOV									
25...	1210	49	153	.5					
10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV (LAT 38 50 50 LONG 119 42 10)									
JAN, 1981					MAY, 1981				
28...	1120	147	174	2.0	28...	1330	700	65	10.5
FEB					JUL				
26...	1200	136	168	4.0	02...	1100	147	137	20.5
MAR					31...	1125	49	200	19.0
30...	1445	178	170	9.0	AUG				
APR					25...	1145	52	198	19.0
28...	1315	608	81	13.0					
10309100 EAST FORK CARSON RIVER AT MINDEN, NV (LAT 38 56 48 LONG 119 46 45)									
OCT, 1980					MAY, 1981				
30...	1315	6.1	217	13.0	03...	1230	387	73	9.5
DEC					28...	1300	337	74	14.0
10...	1010	10	226	2.0	JUL				
JAN, 1981					28...	1450	.99	190	24.0
20...	0950	11	208	4.5	AUG				
FEB					31...	0900	.70	204	16.0
23...	1005	98	193	7.0					
MAR									
24...	1010	58	185	8.0					
10310405 CARSON RIVER AT GENOA, NV (LAT 38 59 52 LONG 119 49 21)									
OCT, 1980					MAR, 1981				
30...	1115	62	227	8.5	24...	1130	80	210	6.0
DEC					MAY				
10...	1215	50	265	2.0	04...	1330	330	97	12.5
JAN, 1981					28...	1200	367	110	17.0
20...	1105	49	265	7.0					
FEB									
23...	1145	140	208	8.0					

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)
10311000 CARSON RIVER NEAR CARSON CITY, NV (LAT 39 06 30 LONG 119 42 40)									
OCT, 1980					MAR, 1981				
31...	1100	143	290	7.5	31...	1145	248	268	10.0
DEC					JUN				
01...	1200	139	315	4.5	04...	1150	432	200	19.0
JAN, 1981					JUL				
06...	1015	171	303	3.0	06...	1000	17	622	20.0
28...	1520	405	295	4.0	AUG				
FEB					07...	1500	5.4	800	30.0
26...	1440	238	254	7.0	25...	1345	5.1	780	25.0
10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV (LAT 39 09 14 LONG 119 48 24)									
NOV, 1980					FEB, 1981				
03...	1415	1.9	72	6.0	03...	1605	1.4	99	.0
DEC					MAR				
04...	0950	1.8	70	2.5	03...	1350	1.4	98	5.0
JAN, 1981					APR				
09...	1430	1.3	71	2.0	02...	1430	1.5	124	6.0
10311200 ASH CANYON CREEK NEAR CARSON CITY, NV (LAT 39 10 35 LONG 119 48 16)									
NOV, 1980					FEB, 1981				
03...	1045	2.6	77	5.5	03...	1420	2.8	79	1.0
DEC					MAR				
04...	1420	2.8	85	.5	03...	1030	2.5	84	3.0
JAN, 1981					APR				
09...	1125	2.3	80	1.5	02...	1100	2.5	85	3.0
10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV (LAT 39 10 52 LONG 119 41 40)									
JAN, 1981					APR, 1981				
12...	1400	170	337	2.0	07...	1345	283	254	13.0
FEB					MAY				
03...	1400	231	354	2.5	14...	1015	424	173	13.5
MAR					SEP				
03...	1140	219	281	6.5	10...	1025	4.0	774	18.5
10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV (LAT 39 28 25 LONG 118 35 50)									
NOV, 1980					MAY, 1981				
05...	1030	61	712	10.0	05...	1045	41	885	12.0
DEC					JUN				
02...	1015	24	1680	5.0	02...	1040	51	810	15.0
JAN, 1981					JUL				
07...	1000	11	2120	1.0	07...	1015	50	850	20.0
FEB					AUG				
02...	1420	7.1	3030	5.0	05...	1030	58	690	22.5
MAR					SEP				
03...	1030	8.2	2810	7.0	03...	1100	66	673	19.5
APR									
02...	1005	11	1570	6.0					
10312260 INDIAN LAKES CANAL NEAR FALLON, NV (LAT 39 34 30 LONG 118 41 30)									
OCT, 1980					APR, 1981				
02...	1045	4.2	509	19.0	01...	1015	20	543	8.0
NOV					MAY				
14...	1100	31	609	11.0	26...	1045	32	602	17.0
DEC					JUN				
01...	1045	30	685	5.0	01...	0950	20	414	18.0
JAN, 1981					JUL				
06...	1040	20	798	3.0	06...	1105	2.6	460	28.0
FEB					SEP				
02...	0850	14	816	5.0	02...	1045	2.8	469	19.0
MAR									
02...	1045	10	766	7.0					
10312265 INDIAN LAKES CANAL BELOW EAST LAKE NEAR STILLWATER, NV (LAT 39 36 21 LONG 118 34 46)									
NOV, 1980					APR, 1981				
04...	1325	12	507	9.0	01...	1140	3.7	864	7.5
DEC					MAY				
01...	1305	16	578	6.5	04...	1235	4.9	855	20.0
JAN, 1981					JUN				
06...	1235	15	685	5.0	01...	1205	3.8	875	20.0
FEB					AUG				
02...	1130	14	747	5.0	04...	1420	3.7	940	28.0
MAR									
02...	1245	12	772	9.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (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)
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10312270 PIAUTE DRAIN AT WILDLIFE ENTRANCE NEAR STILLWATER, NV (LAT 39 36 33 LONG 118 33 19)

NOV, 1980					MAY, 1981				
04...	1430	26	682	12.0	04...	1335	13	1260	19.0
DEC					JUN				
01...	1410	26	981	6.5	01...	1310	8.8	990	21.5
JAN, 1981					JUL				
06...	1330	20	870	5.0	06...	1250	3.4	950	28.0
FEB					AUG				
02...	1230	14	982	14.5	04...	1530	23	640	26.5
MAR					SEP				
02...	1315	13	1110	9.0	02...	1300	12	1430	21.0
APR									
01...	1230	8.8	2430	8.0					

10312280 CARSON RIVER BELOW FALLON, NV (LAT 39 40 10 LONG 118 39 20)

OCT, 1980					MAR, 1981				
02...	1205	20	617	19.0	02...	1140	1.3	1410	9.5
NOV					APR				
04...	1220	31	374	12.5	01...	1055	1.5	1460	10.0
DEC					MAY				
01...	1155	5.3	1000	7.0	04...	1140	6.0	1200	15.0
JAN, 1981					JUN				
06...	1140	1.4	1110	2.5	01...	1050	1.1	1360	26.0
FEB									
02...	1030	1.6	1180	2.5					

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK NEAR DEETH, NV (LAT 41 15 10 LONG 115 15 20)

OCT, 1980					APR, 1981				
06...	1515	4.1	393	18.5	10...	1255	28	258	12.5
DEC					JUL				
10...	1410	13	319	.5	13...	1305	2.7	385	14.5
FEB, 1981					AUG				
10...	1435	16	292	2.5	20...	1430	1.7	431	--

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV (LAT 40 41 30 LONG 115 28 30)

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)
NOV, 1980						APR, 1981					
09...	0905	9.3	178	--	4.5	29...	1420	46	134	7.8	12.5
JAN, 1981						JUN					
16...	1520	3.6	131	--	2.0	15...	1520	71	129	7.0	12.0
FEB						AUG					
24...	1235	3.6	183	--	5.0	21...	1620	4.2	190	--	18.5

10317400 NORTH FORK HUMBOLDT RIVER NEAR NORTH FORK, NV (LAT 41 34 30 LONG 115 54 40)

OCT, 1980					MAY, 1981				
19...	1140	1.0	242	4.0	12...	1455	11	112	9.5
NOV					JUL				
18...	1105	.83	232	2.0	15...	1400	1.4	187	19.5
JAN, 1981					SEP				
14...	1420	1.3	192	1.5	16...	1135	.08	269	11.0

10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE NEAR HALLECK, NV (LAT 41 10 50 LONG 115 29 35)

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)
OCT, 1980						JUL, 1981					
06...	1245	13	337	--	19.0	17...	1225	3.5	321	8.6	24.0
FEB, 1981						AUG					
10...	1150	16	338	--	.0	20...	1155	3.7	325	8.4	25.0
APR											
15...	1150	25	327	8.4	18.0						

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

10318500 HUMBOLDT RIVER NEAR ELKO, NV (LAT 40 56 00 LONG 115 38 00)					10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK NEAR ELKO, NV (LAT 40 41 05 LONG 115 48 45)						
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)		
OCT, 1980					APR, 1981						
28...	1120	48	449	6.0	15...	1435	92	551	18.0		
DEC					JUN						
11...	1300	85	547	.0	11...	1325	132	491	19.0		
FEB, 1981					AUG						
06...	1250	75	556	1.0	14...	1220	1.1	561	23.5		
10322500 HUMBOLDT RIVER AT PALISADE, NV (LAT 40 36 25 LONG 116 12 05)											
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)
OCT, 1980						APR, 1981					
28...	1420	23	452	--	8.5	29...	1035	70	366	8.4	15.0
DEC						JUN					
11...	1350	40	269	--	.0	12...	1410	233	250	8.4	16.0
FEB, 1981						AUG					
24...	1315	49	562	--	7.0	21...	1225	2.4	477	8.4	22.0
10323400 HUMBOLDT RIVER NEAR DUNPHY, NV (LAT 40 41 53 LONG 116 30 25)											
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)		
OCT, 1980					MAY, 1981						
30...	1120	95	539	2.5	26...	1520	206	445	19.0		
NOV					JUL						
25...	1310	127	525	1.0	28...	1430	14	614	24.5		
DEC					AUG						
23...	1145	148	525	.5	27...	1300	15	566	23.0		
FEB, 1981					SEP						
25...	1140	215	520	5.5	24...	1130	19	575	12.5		
MAR											
30...	1240	204	571	8.0							
10323500 HUMBOLDT RIVER NEAR ARGENTA, NV (LAT 40 40 45 LONG 116 38 45)											
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)		
OCT, 1980					MAY, 1981						
17...	1435	37	583	12.5	13...	1145	59	560	16.0		
NOV					JUL						
19...	1315	82	540	4.5	21...	1500	.75	556	28.0		
JAN, 1981					SEP						
21...	1530	127	594	4.5	25...	1400	.16	676	--		
MAR											
24...	1525	132	650	13.5							
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)		
DEC, 1980					JUN, 1981						
17...	1150	86	636	1.5	04...	1520	279	359	22.0		
FEB, 1981					AUG						
11...	1335	142	628	3.0	17...	1820	2.5	762	29.0		
APR											
22...	1215	141	589	14.0							
10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 49 30 LONG 116 34 45)											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (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)
OCT, 1980						MAR, 1981					
17...	1212	7.8	341	--	10.0	24...	1250	8.8	391	8.8	13.0
NOV						MAY					
18...	1445	6.6	330	--	3.0	13...	1355	.84	425	8.9	19.0
JAN, 1981						JUL					
21...	1255	11	347	8.8	5.0	16...	1405	.51	407	9.5	27.0

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (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)
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10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV (LAT 40 40 00 LONG 116 55 50)

OCT, 1980					APR, 1981				
17...	1525	47	629	10.0	23...	1435	101	610	20.0
DEC					JUN				
17...	1405	122	623	.0	11...	1500	279	428	22.5
FEB, 1981					AUG				
12...	1435	147	635	6.0	13...	1240	.67	1200	23.5

10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 10 16 LONG 117 12 23)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (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)
OCT, 1980						APR, 1981					
17...	1240	1.1	588	--	12.5	23...	1205	.72	588	8.6	25.0
DEC						JUN					
17...	1110	1.0	518	--	7.5	11...	1250	.64	608	8.5	26.5
FEB, 1981						AUG					
12...	1115	1.0	591	--	10.0	13...	1420	.42	591	8.1	26.0

10327500 HUMBOLDT RIVER AT COMUS, NV (LAT 40 59 33 LONG 117 19 00)

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (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)
OCT, 1980					MAY, 1981				
21...	1515	42	706	10.5	15...	1110	69	656	15.0
NOV					JUL				
18...	1020	92	627	.5	30...	--	E.32	2570	23.0
JAN, 1981					SEP				
20...	1345	228	600	2.5	15...	1600	.26	2920	25.0
MAR									
31...	1730	122	669	--					

10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 29 30 LONG 117 07 30)

OCT, 1980					JUL, 1981				
07...	1620	1.8	311	17.5	08...	1355	.38	281	25.5
MAR, 1981					SEP				
13...	1135	5.9	214	5.0	29...	1520	1.1	385	18.0
MAY									
14...	1610	8.2	164	17.5					

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 27 00 LONG 117 06 00)

OCT, 1980					MAY, 1981				
07...	1345	.50	416	17.5	14...	1355	.47	445	18.0
MAR, 1981									
13...	1330	2.7	397	6.5					

10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM NEAR PARADISE VALLEY, NV (LAT 41 23 25 LONG 117 11 00)

OCT, 1980					JUL, 1981				
07...	1640	1.2	306	--	08...	1105	E.49	353	20.0
MAR, 1981					SEP				
13...	1010	.88	320	7.0	29...	1625	E.40	395	19.0
MAY									
14...	1805	9.9	303	12.0					

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 24 55 LONG 117 22 22)

OCT, 1980					MAY, 1981				
08...	1545	7.7	395	19.5	14...	1605	14	400	19.5
NOV					JUL				
17...	1350	8.2	400	10.0	07...	1240	7.1	397	24.0
JAN, 1981					SEP				
20...	1615	6.8	406	10.5	29...	1915	7.2	403	19.0
MAR									
12...	1355	7.6	417	12.5					

E: ESTIMATED.

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)
10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV (LAT 41 32 00 LONG 117 25 40)											
OCT, 1980						MAY, 1981					
08...	1720	6.9	240	--	21.5	14...	1450	28	147	7.4	--
NOV						JUL					
17...	1535	14	203	--	5.5	09...	1105	7.1	226	--	21.5
JAN, 1981						SEP					
20...	1730	16	195	--	5.0	29...	1305	5.8	268	--	19.5
MAR											
12...	1430	12	198	8.6	12.5						

10336715 MARLETTE CREEK NEAR CARSON CITY, NV (LAT 39 10 20 LONG 119 54 25)

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)
OCT, 1980					MAR, 1981				
22...	1145	.05	57	9.0	31...	1100	4.4	44	1.0
DEC					MAY				
24...	1225	.86	42	4.0	29...	1120	2.9	40	13.0

10348000 TRUCKEE RIVER AT RENO, NV (LAT 39 31 55 LONG 119 47 05)

NOV, 1980					APR, 1981				
05...	0945	255	127	8.0	01...	1235	278	154	8.0
DEC					30...	1100	939	100	12.5
05...	1040	467	116	3.0	JUN				
JAN, 1981					08...	1212	263	109	17.0
08...	1230	392	113	3.0	JUL				
FEB					09...	1110	152	143	18.5
04...	1515	325	138	4.0	AUG				
MAR					03...	1125	194	138	17.0
06...	1200	273	141	4.5	27...	0949	181	120	16.5

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV (LAT 39 12 12 LONG 119 52 17)

OCT, 1980					MAY, 1981				
22...	1400	2.2	61	8.0	29...	1315	2.1	46	14.5
JAN, 1981					JUL				
09...	1130	1.8	57	2.5	29...	1030	2.3	56	13.0
MAR									
31...	1330	2.5	52	4.5					

10348700 WASHOE LAKE NEAR CARSON CITY, NV (LAT 39 16 30 LONG 119 47 35)

DATE	TIME	ELE- VATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	ELE- VATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)
NOV, 1980					APR, 1981				
04...	0845	5025.54	800	8.0	29...	0905	5026.58	755	13.0
DEC					JUN				
01...	1410	5025.51	800	5.0	04...	1400	5026.15	784	28.0
JAN, 1981					JUL				
07...	1020	5025.88	786	4.0	08...	1110	5025.26	897	18.0
FEB					AUG				
02...	0905	5026.25	745	2.0	03...	0835	5024.56	1000	17.5
MAR					26...	0945	5024.06	1100	19.0
02...	0850	5026.51	730	2.5					

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV (LAT 39 19 45 LONG 119 48 00)

NOV, 1980					APR, 1981				
04...	0930	5025.45	325	10.0	29...	1000	5026.65	392	17.0
DEC					JUN				
01...	1445	5025.89	347	6.0	04...	1440	5026.20	363	28.5
JAN, 1981					JUL				
06...	1245	5026.56	342	6.0	06...	1250	5025.33	314	26.0
FEB					29...	1245	5023.90	390	22.0
02...	1005	5026.73	332	2.0	AUG				
MAR					26...	1020	5023.04	510	23.0
02...	0930	5026.74	353	3.5					
31...	1350	5026.86	364	10.0					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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)									
NOV, 1980					APR, 1981				
04...	1400	6.4	70	6.0	29...	1300	13	62	12.0
DEC					JUN				
02...	1125	2.4	67	3.5	08...	0853	15	53	9.5
JAN, 1981					JUL				
08...	0940	.43	84	.0	06...	1525	6.4	73	19.0
FEB					29...	0845	5.0	70	9.0
02...	1150	.58	82	.0	AUG				
MAR					26...	1320	4.1	75	17.0
02...	1230	.79	81	4.5					
31...	1500	.58	88	9.0					
10351650 TRUCKEE RIVER AT WADSWORTH, NV (LAT 39 38 19 LONG 119 16 09)									
OCT, 1980					MAR, 1981				
07...	1130	58	351	15.5	04...	1400	27	297	9.0
NOV					APR				
05...	1600	263	260	11.0	08...	1610	25	347	18.0
DEC					MAY				
03...	1305	57	315	7.5	07...	1530	596	148	23.0
JAN, 1981					JUL				
07...	1507	42	332	6.0	09...	1500	33	280	25.0
FEB					AUG				
05...	1225	363	279	4.0	07...	0900	30	310	20.0
10352500 MC DERMITT CREEK NEAR MC DERMITT, NV (LAT 41 58 00 LONG 117 50 01)									
OCT, 1980					APR, 1981				
07...	1346	4.4	374	21.0	15...	1435	9.9	457	18.5
DEC					JUN				
16...	1345	8.4	298	.5	16...	1620	6.7	462	23.0
FEB, 1981									
12...	1440	11	268	5.5					
10353000 EAST FORK QUINN RIVER NEAR MC DERMITT, NV (LAT 41 59 00 LONG 117 35 00)									
OCT, 1980					APR, 1981				
07...	1355	3.2	222	16.0	15...	1640	18	131	15.0
DEC					AUG				
16...	1450	5.3	202	3.5	25...	1710	.74	238	23.5
FEB, 1981									
12...	1630	6.9	191	5.5					
10353600 KINGS RIVER NEAR OROVADA, NV (LAT 41 54 25 LONG 118 18 30)									
DEC, 1980					JUN, 1981				
16...	1555	3.0	144	.0	17...	1035	3.3	135	13.5
FEB, 1981					JUL				
12...	1047	3.0	151	2.0	20...	1810	.87	165	25.0
APR					SEP				
16...	1110	7.1	139	13.0	14...	1800	.66	183	21.0
10353700 LEONARD CREEK NEAR DENIO, NV (LAT 41 31 40 LONG 118 42 45)									
OCT, 1980					JUN, 1981				
08...	1235	4.2	181	18.0	17...	1335	12	114	21.0
DEC					JUL				
16...	1250	5.6	206	.5	20...	1425	4.7	130	25.5
FEB, 1981					SEP				
11...	1425	4.8	230	4.0	15...	1520	2.4	163	24.0
APR									
16...	1405	9.6	176	16.0					
13161500 BRUNEAU RIVER AT ROWLAND, NV (LAT 41 56 00 LONG 115 40 25)									
OCT, 1980					APR, 1981				
16...	1300	28	303	8.0	24...	1215	156	119	13.5
DEC					AUG				
05...	1320	25	163	2.0	19...	1520	3.9	267	23.5
FEB, 1981									
10...	1330	23	218	.5					

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)
13174500 OWYHEE RIVER NEAR GOLD CREEK, NV (LAT 41 41 15 LONG 115 50 38)				
OCT, 1980				
30...	1200	3.2	205	--
JAN, 1981				
28...	1345	3.3	243	3.5
MAY				
27...	1305	64	209	11.5
JUN				
26...	1345	159	244	16.0
AUG				
27...	1230	87	235	18.0
13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM NEAR OWYHEE, NV (LAT 41 55 20 LONG 116 04 10)				
OCT, 1980				
15...	1400	42	237	6.0
NOV				
18...	1345	32	284	1.0
JAN, 1981				
14...	1215	30	271	1.0
MAR				
09...	1220	30	245	6.0
MAY				
12...	1300	65	148	11.0
JUL				
15...	1705	156	224	22.0
SEP				
16...	1410	58	240	18.0
13177800 SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV (LAT 41 48 00 LONG 116 29 00)				
OCT, 1980				
15...	1310	31	406	5.5
DEC				
10...	1315	33	566	.0
FEB, 1981				
17...	1300	67	386	8.0
APR				
16...	1245	49	383	13.5
JUN				
19...	1420	85	498	21.5
AUG				
12...	1455	18	466	26.0

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) Orovida Subarea
(B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek--Tenmile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpnickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
(A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V.

85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
(A) Silver Lake Subarea
(B) Lemmon Subarea
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skeddadle 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. Kobe V.
140. Monitor V.
(A) Northern Part
(B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
(A) Northern Part
(B) Central Park
(C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
(A) Groom Lake V.
(B) Papoose Lake V.

159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
(A) Northern Part
(B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. 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. Pahrnanagat 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

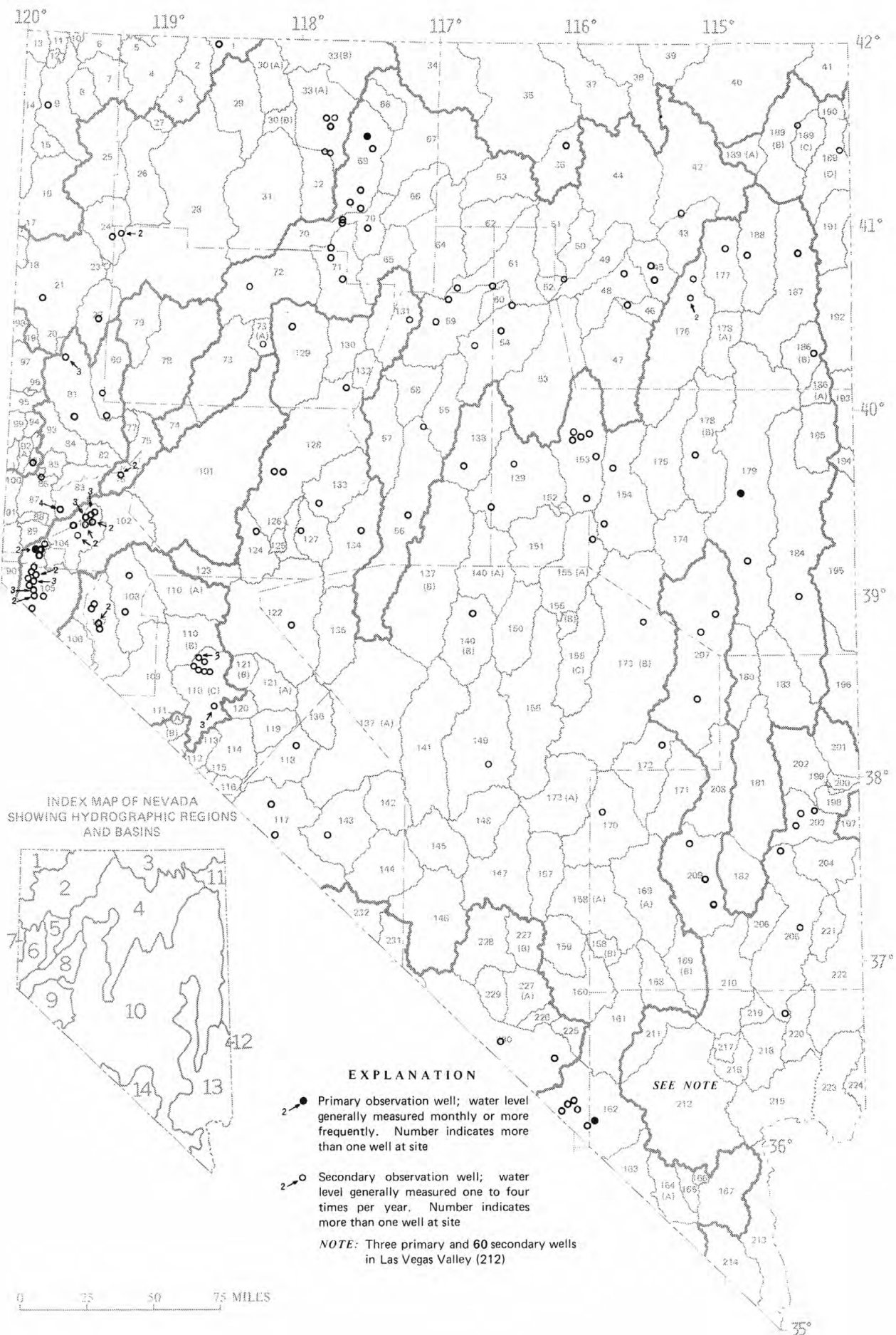


FIGURE 10.—Observation wells listed in this report.

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 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 30	7.99	Jan. 29	6.94	Apr. 27	4.74	July 23	6.05
Nov. 25	8.01	Feb. 19	6.00	May 20	2.82	Aug. 21	7.62
Dec. 30	7.93	Mar. 27	5.67	June 24	4.30	Sept. 28	8.65

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 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.		Jan. 9	83.16	Apr. 2	83.00	July 10	83.44
Nov. 3	84.22	Feb. 3	82.81	May 11	83.16	Aug.	
Dec. 4	83.76	Mar. 3	82.81	June 10	83.90	Sept.	

391044119470201. Local number, 104 N15 E20 07CBAAL.

LOCATION.--Lat 39°10'44", long 119°47'02", Hydrologic Unit 16050201, in Carson City.

Owner: James Harkenrider, formerly 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, 84.91 ft (25.88 m) below land-surface datum, Aug. 10, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.		Jan. 9	81.77	Apr. 2	80.90	July	
Nov. 3	83.19	Feb. 3	81.56	May		Aug. 10	84.91
Dec. 4	82.44	Mar. 3	81.46	June		Sept.	

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10AC1.

LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.

Owner: E. S. Bowman.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in. (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 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	110.64	--	--	--	100.86	102.42	106.66	107.76	109.89	110.29	111.42	111.19
10	110.08	--	--	--	100.95	102.42	--	107.60	109.53	109.83	110.99	110.10
15	109.28	--	--	--	100.96	102.42	106.36	107.76	109.39	110.32	--	--
20	108.67	--	--	--	102.07	104.29	105.31	--	109.39	110.38	--	110.97
25	107.60	--	--	--	101.93	104.30	104.89	--	110.56	110.82	--	110.72
EOM	106.74	--	--	--	--	105.49	104.89	--	110.97	111.30	--	110.10

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, 10.42 ft (3.18 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 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 21	11.72	Jan. 21	11.13	Apr. 22	10.69	July 22	11.60
Nov. 20	11.39	Feb.		May 13	10.67	Aug. 19	11.97
Dec. 16	11.35	Mar. 19	10.85	June 17	10.42	Sept. 22	12.02

LAS VEGAS VALLEY

361843115161001. Local number 212 S19 E60 09BC1.

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 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	154.77	--	152.62	151.25	150.39	149.36	149.78	151.02	153.82	154.56	152.67	152.84
10	154.54	153.94	152.32	151.86	150.14	149.00	149.85	150.98	154.46	--	152.75	152.39
15	154.25	152.96	152.10	154.89	149.77	149.85	150.90	150.99	154.81	--	152.46	152.38
20	154.79	153.14	151.85	151.75	149.92	149.17	150.54	150.53	154.68	--	152.51	152.15
25	153.96	153.11	151.74	151.44	149.58	148.66	150.27	151.04	154.76	--	153.20	151.10
EOM	153.42	152.66	151.43	150.69	--	150.10	151.09	150.18	154.78	152.63	152.90	151.43

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 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 6	78.50	Nov. 3	76.39	Dec. 1	74.10	Jan. 5	75.41	Feb. 2	72.03	Mar. 2	71.77	April 6	72.10
13	77.95	10	77.40	8	74.10	12	72.84	9	71.80	9	70.76	13	72.64
20	77.50	17	75.44	15	74.55	19	72.73	17	71.57	17	70.73	20	72.93
27	75.58	24	75.63	22	73.36	26	72.40	23	71.07	30	73.27	27	73.69
				29	73.03								

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
May 4	74.68	June 1	77.80	July 6	80.69	Aug. 10	80.14	Sept. 8	79.75		
11	75.06	8	76.20	13	80.97	17	78.35	14	78.32		
18	75.55	15	77.10	20	81.45	31	79.77	21	79.60		
26	75.80	22	79.40	27	80.58			28	77.78		
		29	78.30								

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 1980 TO SEPTEMBER 1981

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 6	154.10	Nov. 3	153.80	Dec. 1	152.86	Jan. 5	152.98	Feb. 2	151.83	Mar. 2	152.40
13	153.85	10	153.58	8	152.78	12	152.08	9	151.85	9	151.77
20	154.10	17	153.60	15	152.64	19	151.68	17	151.64	17	151.69
27	153.85	24	153.10	22	152.23	26	151.66	23	151.80	30	152.40
				29	152.05						

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 6	152.84	May 4	154.08	June 1	154.23	July 6	155.29	Aug. 17	155.78	Sept. 8	155.98
13	153.22	11	154.38	8	154.86	13	155.54	31	156.13	14	155.68
20	153.63	18	154.45	15	155.40	20	155.30			21	155.92
27	153.75	26	154.46	22	155.60	27	156.10			28	155.87
				29	155.42						

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.
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 E23 35CD 1	405211119202901	USGS	27	U	110VLFL	U	134.
24 N35 E24 32DDC 1	405208119161501	USGS	27	U	110VLFL	W	15.
24 N35 E24 32DDC 2	405208119161502	USGS	27	U	110VLFL	A	66.
32 N42 E37 32AAAC1	412854117495001	E F RUNOW	13	I	110VLFL	U	250.
32 N42 E37 33BDAB1	413310117482002	DREES	13	I	110VLFL	U	95.
33A N42 E37 03BBAB1	413320117482001	GEORGE REED	13	I	110VLFL	U	160.
33A N42 E37 04BDCA1	413300117494001	DONALD MORRIS	13	I	110VLFL	U	360.
33A N44 E37 33AAAA1	412934117483001	ALBISU	13	I	110VLFL	U	550.
36 N41 E52 28AADA2	412534116072602	ELLISON	7	U	110VLFL	U	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 24CDD1	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.
52 N33 E52 27DDBA1	404240116025001	CARLIN TOWN GOVT	7	U	110VLFL	U	500.
54 N29 E48 03BDCB1	402450116324001	DEAN RANCH	11	S	110VLFL	U	
54 N29 E48 29CACC2	402100116352001	BEOVAWE FARMS	11	I	110VLFL	U	300.
54 N31 E49 05CACCC1	403500116284501	WILLIAM CONNELLY	11	H	110VLFL	W	10.
56 N18 E43 06D 1	392700117110001	DARRELL BLANTON	15	I	110VLFL	U	241.
56 N24 E43 35CC 1	395335117062401	STIENEN RANCH	15	I	110VLFL	U	202.
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 E39 15CBC 1	410448117344901	USGS	13	U	110VLFL	W	30.
69 N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	58.
69 N38 E39 28CDD1	410806117353501	W G LONG	13	I	110VLFL	U	256.
69 N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
70 N36 E38 05DDCD1	410111117431801	USGS	13	U	110VLFL	W	24.
70 N36 E38 16BCCA1	405940117423001	GEORGE HAY CO	13	I	110VLFL	U	55.
70 N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71 N33 E38 32BABB1	404138117441501	BLM GUTHRIE WELL	27	U		W	55.
71 N34 E37 22ACAA1	404940117475001	J BALLARD	27	U	110VLFL	U	50.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

Depths, diameter, and altitude: Depths are referenced to land-surface datum (LSD). 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	WATER LEVELS (FEET BELOW LAND SURFACE)			
				HIGHEST	LOWEST	DATE	CURRENT DATE
16.		4380.	1968-	45.58	56.80	03/20/68	03/17/81
6.		5200.	1968-	10.22	14.66	03/13/72	04/07/81
6.		4000.	1966-	37.91	54.97	09/15/66	03/24/81
6.		4013.	1966-	45.20	50.11	04/09/69	03/23/81
2.	131.- 134.	4250.	1979-	29.53	31.25	04/17/79	03/23/81
2.		4031.	1967-	3.77	14.21	04/16/73	03/23/81
2.		4031.	1967-	-2.25	9.37	06/14/67	03/23/81
16.	150.- 250.	4200.	1971-	50.96	78.11	04/30/73	03/17/81
18.		4220.	1948-	36.54	116.58	04/21/48	03/17/81
12.	10.- 150.	4260.	1949-	16.55	123.19	01/20/50	03/17/81
16.		4235.	1973-	88.02	108.39	03/18/74	03/17/81
16.	175.- 545.	4280.	1972-	95.69	138.66	04/06/78	03/17/81
2.		5700.	1970-	46.59	47.78	04/16/71	04/16/81
48.		5350.	1938-	0.32	20.80	04/28/69	03/19/81
48.		5950.	1934-	0.09	18.00	04/28/46	03/31/81
8.		5550.	1944-	-1.48	7.10	02/26/53	03/31/81
6.		5650.	1964-	77.48	90.92	04/05/79	03/23/81
42.		5500.	1944-	4.30	11.48	06/28/58	03/20/81
20.		4920.	1938-	2.77	9.05	02/20/51	03/18/81
8.		4740.	1973-	-0.09	0.40	04/10/78	03/18/81
14.		4800.	1958-	54.66	69.28	04/10/78	03/18/81
48.		4698.	1948-	5.48	8.33	04/30/69	03/18/81
16.		5750.	1969-	6.87	8.40	04/07/80	03/23/81
12.		6000.	1961-	-1.33	2.78	03/19/76	03/20/81
		4609.	1947-	5.25	6.77	04/30/69	03/18/81
2.		4557.	1964-	29.81	32.48	04/13/71	03/18/81
0.		4582.	1960-	2.32	8.30	04/30/69	03/18/81
6.		4520.	1949-	4.08	10.88	07/10/52	03/18/81
1.	28.- 30.	4326.	1968-	22.77	26.27	04/18/72	03/23/81
10.	20.- 75.	4317.	1968-	8.10	29.80	11/08/71	03/23/81
16.		4317.	1968-	9.86	24.33	04/18/72	03/25/81
8.		4414.	1970-	0.69	5.77	04/23/71	03/26/81
1.		4400.	1960-	4.86	13.49	04/25/69	03/17/81
12.		4292.	1959-	14.01	21.37	04/25/69	03/17/81
6.		5200.	1949-	20.17	46.10	09/01/58	03/17/81
6.		4432.	1939-	28.40	39.46	07/24/46	03/16/81
6.		4329.	1946-	9.31	13.78	03/21/56	03/16/81

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
71 N35 E37 34AACA2	405130117480002		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 N24 E22 31CCC 2	395357119333401	USBIA	31	U	110VLFL	U	226.
81 N27 E21 09BDA 1	401352119380201	USGS	31	U	110VLFL	U	47.
81 N27 E21 16ABD 1	401245119374401	USGS	31	U	110VLFL	U	44.
81 N28 E21 33CCD 1	401443119381201	USGS	31	U	110VLFL	U	60.
83 N17 E21 06ADCA1	392212119394101	CARLSBURG DEVEL CORP	29	U	122ALTA	U	290.
83 N18 E21 32ABCD1	392313119384201	JOHN CHOATE	29	H	122ALTA	U	300.
83 N18 E21 32CBBD1	392254119392001	MICHAEL DEVANY	29	H	122ALTA	U	180.
83 N18 E21 33BABC1	392320119375301	CARLSBURG DEVEL CORP	29	U	121KTPK	U	300.
87 N20 E20 30DA 1	393415119462101	BASQUE CLUB	31	H	110VLFL	U	12.
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 02CDCC1	392143119222401	USGS	19	U	110VLFL	U	86.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

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DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
14.		4301.	1946-	05/16/46	03/28/79	03/20/81
		4150.	1954-	03/31/81	03/25/70	03/31/81
12.	100.- 395.	4300.	1968-	04/23/69	04/12/78	03/31/81
6.		4134.	1953-	07/07/55	03/27/78	03/23/81
10.		4135.	1953-	09/02/53	03/27/78	03/23/81
6.		3845.	1969-	07/31/69	07/14/70	04/09/81
48.		3800.	1968-	04/18/73	04/09/79	03/23/81
8.		3988.	1970-	03/09/72	03/16/81	03/16/81
2.	45.- 47.	3845.	1967-	07/28/67	03/16/81	03/16/81
2.	42.- 44.	3810.	1967-	07/28/67	05/04/79	03/16/81
2.	58.- 60.	3865.	1967-	07/28/67	03/16/81	03/16/81
6.	60.- 120.	6355.	1977-	06/20/77	03/12/80	03/16/81
6.		74.28				10/16/80
		74.32				11/14/80
		74.41				12/12/80
		74.45				01/12/81
		74.48				02/11/81
		74.52				03/11/81
6.	265.- 295.	5980.	1977-	06/09/78	04/04/79	10/16/80
		90.29				11/14/80
		90.85				12/12/80
		90.94				01/12/81
		90.93				02/11/81
		91.16				03/11/81
6.	160.- 180.	6242.	1977-	04/28/80	04/04/79	10/16/80
		97.02				11/14/80
		97.19				12/12/80
		97.39				01/12/81
		97.56				02/11/81
		97.70				03/11/81
8.	83.- 300.	5785.	1977-	04/28/80	12/06/77	10/16/80
		15.92				10/16/80
		16.69				11/14/80
		17.39				12/12/80
		18.10				01/12/81
		18.69				02/11/81
		19.60				03/11/81
48.		4600.	1948-	04/06/81	10/06/60	04/06/81
8.	100.- 165.	4965.	1957-	03/10/70	06/13/57	04/06/81
2.	66.- 86.	4335.	1977-	06/16/80	09/22/77	10/16/80
		62.35				10/16/80
		61.91				11/14/80
		61.96				12/12/80
		61.52				01/12/81
		61.47				02/11/81
		61.34				03/11/81
8.		4347.	1970-	06/03/70	09/22/77	10/16/80
		55.84				10/16/80
		55.73				11/14/80
		55.70				12/12/80
		55.69				01/12/81
		55.74				02/11/81
		55.63				03/11/81
		55.66				04/07/81
2.		4339.	1977-	07/27/78	09/22/77	10/16/80
		52.45				10/16/80
		52.02				11/14/80
		51.86				12/12/80
		51.81				01/12/81
		51.81				02/11/81
		51.69				03/11/81
2.	83.- 86.	4286.	1977-	07/26/77	04/20/81	10/16/80
		60.34				10/16/80
		60.17				11/14/80
		60.04				12/12/80
		60.05				01/12/81
		60.04				02/11/81
		60.03				03/11/81
		60.62				04/07/81
		60.64				04/17/81
		60.79				04/20/81

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)
103	N17 E23 04DDCC1	392141119240601	W M BOYER	19	U	110VLFL	U	435.
103	N17 E23 07DDDD1	392047119260501	UTAH MINE & CONST CO	19	U	110VLFL	U	386.
103	N17 E23 09CCDC1	392050119244701	USGS	19	U	110VLFL	U	82.
103	N17 E23 09DAAA1	392110119235001	USGS	19	U	110VLFL	U	84.
103	N17 E23 10ABCD1	392126119230901	USGS	19	U	110VLFL	U	88.
103	N17 E23 10BABD1	392132119232501	TERRY WEATHERMAN	19	I	110VLFL	U	300.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
12.	287. - 395.	4320.	1977-	90.12	04/11/78	96.06
12.	12. -	4324.	1970-	73.98	08/05/70	87.01
12.	52. - 82.	4271.	1977-	33.42	09/22/77	39.45
2.		4182.	1977-	53.63	03/02/78	60.24
2.		4277.	1977-	48.51	04/11/78	52.13
12.	234. - 300.	4286.	1969-	48.00	04/01/69	64.09
17.	137. - 147.	4286.	1970-	34.84	08/05/70	46.36
10.	175. - 255.	4280.	1980-	30.76	05/02/80	31.55
7.	156. - 176.	4295.	1978-	63.77	09/10/80	64.23
9.	180. - 220.	4282.	1970-	51.14	06/05/70	56.15
					07/18/80	53.41
						53.57
						53.38
						53.43
						53.38
						12/12/80
						11/14/80
						10/16/80
						63.97
						63.95
						11/14/80
						10/16/80
						12/12/80
						01/12/81
						02/11/81
						03/11/81
						04/07/81
						31.55
						31.54
						03/11/81
						01/12/81
						01/12/81
						12/12/80
						31.46
						31.40
						11/14/80
						10/16/80
						31.29
						44.05
						04/07/81
						44.17
						03/11/81
						02/11/81
						44.30
						44.50
						01/12/81
						44.77
						12/12/80
						11/14/80
						10/16/80
						45.93
						60.58
						04/07/81
						60.86
						03/11/81
						61.19
						02/11/81
						61.49
						01/12/81
						61.94
						12/12/80
						11/14/80
						10/16/80
						63.34
						62.57
						11/14/80
						12/12/80
						01/12/81
						61.94
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						61.49
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						60.86
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						45.93
						10/16/80
						45.17
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						12/12/80
						01/12/81
						44.50
						02/11/81
						44.30
						03/11/81
						44.17
						04/07/81
						53.40
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						03/11/81
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						60.58
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						53.43
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						02/11/81
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						44.77
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						02/11/81
						61.19
						03/11/81
						60.86
						04/07/81
						45.93
						10/16/80
						45.17
						11/14/80
						12/12/80
						01/12/81
						44.50
						02/11/81
						44.30
						03/11/81
						44.17
						04/07/81
						53.40
						03/11/81
						53.38
						53.43
						53.38
						12/12/80
						11/14/80
						10/16/80
						63.97
						63.95
						11/14/80
						10/16/80
						12/12/80
						01/12/81
						02/11/81
						03/11/81
						04/07/81
						31.55
						31.54
						03/11/81
						01/12/81
						01/12/81
						12/12/80
						31.46
						31.40
						11/14/80
						10/16/80
						31.29
						44.05
						04/07/81
						44.17
						03/11/81
						02/11/81
						44.30
						44.50
						01/12/81
						44.77
						12/12/80
						11/14/80
						10/

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
104 N15 E20 08BAAD1	391709119511201	JOE SAMMIT	510	H	110VLFL	U	35.
104 N15 E20 17CAD1	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.
105 N12 E20 17BA 1	385430119455001	JOHN HELWINKEL	5	I		U	365.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
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	26.99	04/09/81
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
18.		4775.	1955-	07/11/67	20.48	03/14/72
						19.86 03/25/81 19.36 04/22/81 13.10 05/22/81 9.93 06/18/81 15.23 07/22/81 25.88 08/20/81 26.81 09/18/81
						4.79 09/18/81 5.41 08/17/81 4.63 07/22/81 4.25 06/18/81 4.01 05/22/81 7.24 05/02/81 8.50 03/12/81 7.97 02/13/81 7.42 01/14/81 6.54 12/15/80 5.67 11/17/80 4.93 10/22/80
						3.15 09/18/81 2.73 08/18/81 2.25 07/22/81 1.92 06/18/81 1.97 05/22/81 1.90 05/02/81 1.68 03/12/81 1.57 02/13/81 1.70 01/14/81 1.74 12/15/80 1.93 11/17/80 2.02 10/22/80
						4.63 09/18/81 4.02 08/18/81 3.74 07/22/81 2.75 06/18/81 2.01 05/22/81 2.08 05/02/81 4.03 03/12/81 3.24 02/13/81 4.04 01/14/81 3.82 12/15/80 3.79 11/17/80 3.32 10/22/80
						7.39 09/20/81 6.08 08/17/81 6.02 07/22/81 4.16 06/18/81 4.58 05/22/81 6.59 03/12/81 6.40 02/13/81 6.39 01/14/81 6.13 12/17/80 5.90 11/17/80 5.40 10/22/80
						4.11 09/18/81 3.33 08/18/81 2.91 07/22/81 1.89 06/18/81 1.42 05/22/81 2.64 05/02/81 4.10 03/12/81 4.14 02/13/81 4.00 01/14/81 3.75 12/15/80 3.60 11/17/80 3.29 10/22/80

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)
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.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE	WATER LEVELS (FEET BELOW LAND SURFACE)
2.	18.-	4681.	1977-	0.92	06/06/78	09/20/81	3.24 10/22/80 3.09 11/17/80 2.89 12/15/80 2.73 01/14/81 3.23 02/13/81 3.13 03/12/81 3.50 05/02/81 1.95 05/21/81 2.65 06/18/81 2.37 07/22/81 3.60 08/18/81 3.62 09/20/81 4.05
2.	11.-	4682.	1977-	1.95	05/02/81	09/29/77	2.89 10/22/80 3.27 11/17/80 3.27 12/15/80 3.29 01/14/81 3.23 02/13/81 3.13 03/12/81 3.50 05/02/81 1.95 05/21/81 2.65 06/18/81 2.37 07/22/81 3.60 08/18/81 3.62 09/20/81 4.05
2.	2.-	4694.	1977-	1.03	05/07/80	09/29/77	2.73 10/22/80 2.50 11/17/80 2.63 12/15/80 2.45 01/14/81 1.76 02/13/81 2.58 03/12/81 1.52 05/02/81 1.98 05/21/81 1.30 06/18/81 3.36 07/22/81 4.28 08/18/81 4.71 09/18/81 12.51
2.	12.-	4742.	1977-	10.09	05/02/81	10/02/77	11.57 12/15/80 11.72 01/14/81 11.86 02/13/81 11.82 03/12/81 10.09 05/02/81 10.40 06/18/81 11.41 07/22/81 11.98 08/17/81 11.90 09/18/81 12.51
2.	19.-	4702.	1977-	1.88	09/28/77	09/18/81	7.38 10/22/80 7.49 11/17/80 7.65 12/15/80 7.77 01/14/81 7.81 02/13/81 7.84 03/12/81 6.98 05/02/81 5.80 06/18/81 5.89 07/22/81 6.99 08/18/81 7.61 09/18/81 8.18
18.		4733.	1951-	7.22	07/11/67	07/22/81	11.11 03/20/81 11.09 04/22/81 11.10 06/18/81 11.10 07/22/81 16.39 08/17/81 15.66 09/18/81 15.98
12.		4680.	1951-	6.09	04/04/76	10/12/61	9.00 03/24/81 8.64 04/23/81 8.92 05/21/81 8.96 06/19/81 17.88 09/20/81 8.11
2.	11.-	4648.	1977-	5.90	04/08/80	11/13/77	7.68 10/22/80 7.68 11/17/80 7.59 12/15/80 7.47 01/14/81 7.34 02/13/81 7.14 03/12/81 6.90 05/02/81 6.93 07/22/81 7.60 08/17/81 7.85 09/18/81 8.11

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO					SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
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	222.
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	33BAB	2	382033118315501	SWEETWATER RANCH CO	21	U		U	126.
110C	N06	E31	33BBD	2	382024118320202	SWEETWATER RANCH CO	21	U	110VLFL	U	132.
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.
117	S03	E35	14C	1	374030118034004	USBLM	9	U	110VLFL	U	112.
118	N03	E36	02BCB	1	380854117565601		9	U	110VLFL	U	145.
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.
128	N26	E39	30BBAB1		400600117380001	LITTLE MCCOY RCH	27	S	110VLFL	U	114.
129	N30	E35	27BBAA2		402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
131	N30	E42	24CCAD1		402710117124001	USBLM	15	S	110VLFL	U	54.
133	N19	E37	28BCC	1	392903117495001	CHERRY CREEK RCH	1	S	110VLFL	U	260.
134	N17	E40	08CBA	1	392100117310001	SMITH CREEK RCH	15	S	110VLFL	W	55.

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WATER LEVELS (FEET BELOW LAND SURFACE)

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	11.- 21.	4654.	1977-	2.26	03/06/80	5.51	09/29/77	5.20	10/22/80
								4.86	11/17/80
								4.79	12/15/80
								4.78	01/14/81
								4.53	02/13/81
								5.57	03/12/81
								3.52	05/02/81
								3.43	05/21/81
								3.60	06/19/81
								5.34	07/22/81
								5.90	08/17/81
								6.25	09/18/81
2.	11.- 21.	4679.	1977-	3.18	07/14/80	9.54	10/02/77	4.75	10/22/80
								5.11	11/17/80
								5.32	12/15/80
								4.46	01/14/81
								4.33	02/13/81
								4.10	03/12/81
								3.03	05/02/81
								3.65	06/18/81
								5.73	07/23/81
								6.76	08/17/81
								7.78	09/18/81
14.		4900.	1948-	60.86	11/30/48	100.64	04/07/78	78.15	03/31/81
12.		4830.	1951-	45.21	06/17/57	76.16	04/07/78	56.23	03/31/81
		4855.	1980-	22.71	03/31/81	26.09	03/10/80	22.71	03/31/81
16.		4865.	1948-	23.62	03/03/48	89.21	06/22/61	50.60	03/31/81
16.		4745.	1972-	4.50	06/23/72	8.35	04/07/78	4.88	03/01/81
16.		4500.	1953-	3.39	08/18/58	20.44	04/07/78	9.81	03/31/81
16.	20.- 160.	4360.	1977-	6.26	03/10/80	6.52	03/31/81	6.52	03/31/81
10.	32.- 132.	5566.	1976-	40.38	06/30/76	51.72	03/17/81	51.72	03/17/81
		5566.	1966-	40.28	06/30/76	51.30	03/17/81	51.30	03/17/81
10.	45.- 130.	5570.	1951-	42.37	03/12/51	59.02	03/17/81	59.02	03/17/81
18.	441.- 453.	4125.	1954-	47.20	12/09/54	117.86	09/27/65	48.63	03/17/81
18.		4056.	1968-	31.69	03/18/68	35.09	03/17/81	35.09	03/17/81
18.	328.- 345.	4140.	1952-	95.10	11/21/52	108.76	06/30/76	108.07	03/17/81
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	212.31	03/17/81
18.	276.- 303.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	258.09	03/17/81
18.	264.- 268.	4372.	1952-	242.60	11/21/52	257.29	04/13/70	248.29	03/17/81
2.	16.- 18.	4010.	1968-	8.54	04/23/73	9.79	03/17/81	9.79	03/17/81
2.	39.- 41.	4039.	1968-	18.75	03/18/68	21.72	03/17/81	21.72	03/17/81
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	32.05	03/16/81
12.		4867.	1948-	38.60	06/21/48	61.50	03/16/81	61.50	03/16/81
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	41.33	03/25/81
10.		4570.	1961-	36.68	12/13/61	39.93	03/25/81	39.93	03/25/81
8.		4160.	1955-	216.68	01/13/55	224.94	03/23/64	218.37	04/08/81
8.		5250.	1950-	27.00	02/01/50	127.50	05/08/75	106.89	03/20/81
11.		3500.	1955-	28.04	06/07/56	33.22	04/22/81	33.22	04/22/81
8.		3480.	1955-	32.33	03/23/64	35.93	03/17/66	35.11	04/08/81
6.		3730.	1968-	76.25	03/20/68	96.54	05/02/78	95.38	03/24/81
16.		4240.	1963-	12.97	04/12/78	21.57	03/21/65	15.54	03/16/81
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	11.98	03/18/81
6.		5360.	1974-	169.13	03/02/77	176.56	03/16/74	169.21	03/20/81
6.		6054.	1966-	6.96	03/21/77	11.93	03/22/74	11.82	04/10/81
								11.60	05/28/81

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RCH	15	H	110VLFL	W	
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.
149 N03 E48 32B 1	380400116380001	JOHN J CASEY	23	S	110VLFL	U	150.
153 N19 E53 12C 1	393143115572701	IRENE ANDERSON	11	H	111FLDP	W	8.
153 N21HE52 01BC 1	394342114385401	USBLM	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 N18 E55 31C 1	392300115493001	FERA	33	S	110VLFL	U	43.
154 N21 E55 09B 1	394200115461001	R W HOOPER	33	H	110VLFL	U	34.
155A N17 E54 29CA 1	391858115550201	USBLM	11	S	110VLFL	U	60.
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	RAY THOMAS	23	H	110VLFL	U	254.
162 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.
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	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.
186B N28 E68 08D 1	401900114200001	HIGHWAY WELL	7	S	110VLFL	U	
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.
205 S14 E66 15A 1	364321114351001	USGS	3	U	110VLFL	W	30.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIA- ETER INTERVAL (FEET)	PERFORATED (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)			
				HIGHEST	DATE	LOWEST	DATE
48.		6000.	1968-	23.41	05/01/73	36.92	03/19/68
8.		6260.	1964-	47.31	04/28/73	56.70	03/16/74
6.		6230.	1953-	39.15	03/02/53	46.35	03/24/64
24.		6820.	1968-	0.85	03/20/79	5.12	03/24/81
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69
6.		5500.	1962-	108.85	03/25/81	113.42	05/04/72
30.		6500.	1962-	3.94	03/20/79	7.41	03/24/64
8.		5888.	1965-	48.78	04/08/66	63.95	03/20/81
12.		5858.	1949-	5.49	08/11/49	40.05	03/20/81
2.	20.- 22.	5820.	1964-	11.60	04/22/69	16.52	05/20/64
2.	20.- 22.	5821.	1964-	14.05	04/22/70	17.10	05/20/64
2.	30.- 32.	5800.	1964-	16.45	11/18/66	29.57	05/20/64
36.		5930.	1951-	33.19	09/15/55	43.96	09/11/63
60.		5950.	1951-	10.67	03/26/56	20.80	10/12/62
48.		5987.	1962-	50.12	03/19/81	62.82	09/11/63
12.		2607.	1947-	-23.55	11/20/47	46.10	03/24/80
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58
14.	30.- 168.	2558.	1952-	15.43	02/02/59	29.94	03/06/81
8.		2679.	1945-	-23.20	03/06/45	90.61	02/27/75
10.		2684.	1947-	38.70	01/30/59	47.41	03/06/79
8.		5080.	1968-	18.73	01/18/77	22.82	03/15/80
10.		5200.	1963-	24.30	05/09/63	26.62	04/22/71
6.		5072.	1948-	169.06	03/18/81	177.61	09/16/49
6.		6000.	1949-	1.08	04/10/78	3.85	03/07/77
2.		6000.	1960-	0.75	03/31/70	7.48	09/21/61
14.		6000.	1948-	4.80	06/10/49	12.53	09/21/61
6.		5650.	1941-	6.38	04/04/72	11.07	05/03/55
6.		6190.	1967-	59.85	04/21/69	65.39	03/19/81
16.		6500.	1951-	31.76	04/23/70	41.83	03/10/61
36.		5800.	1951-	11.23	04/21/69	18.60	09/23/61
6.		5640.	1948-	96.89	03/20/80	104.71	09/15/49
16.		5550.	1948-	26.85	03/27/51	30.72	09/17/64
12.		5610.	1968-	12.56	04/13/79	15.14	03/28/68
60.		5250.	1950-	8.36	04/29/69	15.21	02/28/68
6.		4800.	1968-	5.69	03/13/74	17.28	03/19/81
10.	60.- 80.	4850.	1946-	30.32	04/25/46	41.63	03/11/81
8.		4720.	1949-	10.72	03/20/50	22.82	08/27/64
10.		4605.	1962-	20.74	02/24/62	24.10	03/11/81
14.		4360.	1963-	13.67	03/15/80	26.26	11/18/65
0.		2670.	1977-	26.40	03/15/80	33.00	01/21/77
		1800.	1961-	14.65	01/08/71	21.18	05/10/61
48.		5400.	1965-	30.00	03/12/68	32.87	03/20/80
						30.49	03/18/81

CURRENT DATE

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
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	403.
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 31ADC 1	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 E60 34CCC 2	360935115153201	LVVWD	3	P		U	1000.
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 17CAD 1	361209115104601		3	U	110VLFL	U	150.
212	S20 E61 17CDB 1	361222115105601	LVVWD	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.
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.

DIA- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)			
				HIGHEST	DATE	LOWEST	DATE
6.	5400.	1953-	3.20	03/16/76	13.66	10/13/62	8.81
6.	5600.	1962-	44.97	04/24/70	53.51	04/13/78	51.40
12.	3915.	1973-	88.60	03/23/73	156.19	03/10/81	156.19
6.	3550.	1960-	5.85	02/23/63	11.76	01/18/77	10.15
10.	3020.	1952-	17.33	03/23/73	28.06	02/24/76	19.15
8.	5660.	1978-	379.70	07/25/80	518.90	03/11/79	457.70
							11/10/80
							01/27/81
							03/31/81
16.	2454.	1946-	-30.40	04/05/46	73.42	06/04/79	73.12
							02/25/81
							06/15/81
9.	2200.	1980-	123.74	02/24/81	127.24	06/19/81	123.74
							02/24/81
							03/02/81
4.	1958.	1979-	90.62	05/01/81	91.45	03/02/81	91.45
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/05/81
							06/15/81
20.	465.- 970.	1968-	457.00	01/01/68	523.05	02/27/81	523.05
							05/01/81
4.	80.- 84.	1979-	60.94	05/01/81	62.48	09/29/80	60.94
							06/15/81
8.	90.- 110.	1949-	-14.20	12/29/49	60.85	11/16/70	29.06
							02/22/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81
							06/19/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
10.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	168.90
							02/25/81
8.	2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.99
							02/25/81
							06/15/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							04/01/81
4.	58.- 62.	1979-	37.64	02/26/80	38.91	09/29/80	38.89
							04/01/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81
							06/19/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
10.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	168.90
							02/25/81
8.	2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.99
							02/25/81
							06/15/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							04/01/81
4.	58.- 62.	1979-	37.64	02/26/80	38.91	09/29/80	38.89
							04/01/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81
							06/19/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
10.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	168.90
							02/25/81
8.	2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.99
							02/25/81
							06/15/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							04/01/81
4.	58.- 62.	1979-	37.64	02/26/80	38.91	09/29/80	38.89
							04/01/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81
							06/19/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
10.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	168.90
							02/25/81
8.	2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.99
							02/25/81
							06/15/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							04/01/81
4.	58.- 62.	1979-	37.64	02/26/80	38.91	09/29/80	38.89
							04/01/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81
							06/19/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
10.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	168.90
							02/25/81
8.	2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.99
							02/25/81
							06/15/81
4.	43.- 46.	1981-	27.55	03/02/81	28.14	06/19/81	27.55
							03/02/81
							04/25/81
							06/19/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							04/01/81
4.	58.- 62.	1979-	37.64	02/26/80	38.91	09/29/80	38.89
							04/01/81
							06/15/81
							02/25/81
							06/15/81
10.	2228.	1970-	51.40	02/01/70	78.88	11/07/79	67.67
							02/25/81
							06/15/81
							02/24/81
							06/15/81
							02/25/81
							06/15/81
4.	73.- 77.	1981-	52.79	06/19/81	54.02	03/02/81	54.02
							03/02/81
							05/01/81

LOCAL WELL NO					SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
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	03ABB	2	360931115083802	W PARK	3	U	110VLFL	A	807.
212	S21	E61	04AAD	1	360910115092001	HOME LUMBER	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	15DDDD	1	360701115081301	USGS	3	U		U	24.
212	S21	E61	17BAD	1	360735115105201	USGS	3	U	110LSVG	U	45.
212	S21	E61	22BBA	1	360649115090001	LVVWD	3	U	110VLFL	A	1200.
212	S21	E61	22CCC	1	360600115091001	A P BAKER	3	U	110VLFL	A	500.
212	S21	E61	24CAD	1	360617115063801	USGS	3	U		U	24.
212	S21	E61	26DDBB	1	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	09ABB	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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	HIGHEST DATE	LOWEST DATE	CURRENT DATE
4.	18.- 22.	2010.	1981-	04/15/81 6.89	06/19/81 8.01	04/15/81 6.89
2.	12.- 15.	1838.	1979-	03/02/80 8.30	09/30/80 9.36	02/26/81 8.25
8.		1790.	1970-	03/01/80 9.50	09/30/80 10.28	02/26/81 9.69
4.	20.- 24.	1840.	1979-	02/26/80 7.02	09/30/80 7.87	04/05/81 7.70
4.	11.- 15.	1990.	1979-	02/26/80 7.17	06/09/80 8.42	04/05/81 7.41
4.	21.- 25.	2008.	1979-	02/26/80 9.97	06/17/81 11.26	04/03/81 10.77
12.		2014.	1944-	03/06/44 -38.11	09/30/80 66.89	06/17/81 61.17
10.	642.- 770.	2039.	1944-	02/08/50 -46.70	09/29/80 82.38	02/25/81 65.76
4.	13.- 14.	2047.	1981-	06/19/81 9.11	03/02/81 9.54	03/02/81 9.54
8.		2042.	1970-	03/02/79 15.58	02/20/73 28.95	02/26/81 18.58
4.	16.- 20.	2042.	1979-	02/26/80 7.61	10/22/79 9.23	06/17/81 8.73
4.	21.- 25.	2075.	1979-	06/12/80 10.60	09/14/79 17.15	03/27/81 13.80
4.	21.- 24.	2000.	1981-	05/22/81 15.53	07/02/81 15.74	05/22/81 15.53
4.	41.- 45.	2120.	1979-	09/30/80 22.60	02/26/80 26.69	03/27/81 24.09
16.	318.- 399.	2041.	1963-	03/10/78 48.53	09/30/80 127.03	06/12/81 113.84
6.		2072.	1940-	01/24/43 -35.65	07/10/78 93.72	06/12/81 93.03
4.	20.- 24.	1950.	1981-	03/09/81 12.87	03/02/81 14.30	03/02/81 14.30
4.	26.- 30.	2010.	1981-	06/25/81 14.09	03/17/81 15.42	02/26/81 14.19
8.		2140.	1970-	02/12/73 62.36	07/12/78 113.95	02/26/81 88.79
2.	23.- 26.	1948.	1977-	08/03/77 17.00	09/30/80 22.17	02/26/81 19.90
2.	26.- 30.	1778.	1980-	06/11/80 12.91	02/26/81 13.32	02/26/81 13.32
2.	46.- 50.	1785.	1980-	03/01/80 9.16	09/30/80 9.87	02/26/81 9.48
2.	34.- 37.	1715.	1977-	02/23/81 13.41	08/03/77 17.00	02/23/81 13.41
13.	50.- 80.	1705.	1972-	02/27/79 12.06	02/22/72 19.97	02/23/81 16.11
14.		1695.	1973-	01/23/79 5.73	02/23/81 10.33	02/23/81 10.33

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)
212	S21 E62 17DAB 1	360744115050801	USGS	3	U		U	11.
212	S21 E62 19AAB 1	360651115050501	LVVWD	3	U	110VLFL	U	23.
212	S21 E62 19BAC 1	360644115054801	USGS	3	U		U	34.
212	S21 E62 20ACC 1	360705115035501	USGS	3	U		U	8.
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	LVVWD	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.
212	S22 E61 03CCB 1	360340115090801	GEORGE CROCKETT	3	I	110VLFL	A	575.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIA- METER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)				DATE
				HIGHEST	DATE	LOWEST	DATE	CURRENT
4.	7. - 11.	1730.	1981-	3.80	06/25/81	6.79	03/02/81	6.79 6.40 3.80 06/25/81 03/17/81 03/02/81
2.		1840.	1979-	11.15	06/05/79	12.29	02/26/81	12.29 11.95 02/26/81 06/17/81
4.	30. - 34.	1890.	1981-	23.86	03/02/81	23.86	03/02/81	23.86 16.58 03/09/81 06/25/81
4.	4. - 8.	1715.	1981-	5.39	03/17/81	5.60	03/02/81	5.60 03/02/81 03/17/81
4.	23. - 27.	1665.	1981-	17.28	03/17/81	19.85	03/02/81	19.85 03/02/81 03/17/81 06/09/81 06/19/81
4.	76. - 80.	1590.	1980-	18.01	06/19/81	31.06	06/26/80	18.23 03/02/81 06/19/81 18.01
20.	250. -1055.	2363.	1969-	253.50	02/25/72	284.48	06/17/81	284.48 06/17/81 03/09/81 23.66
4.	20. - 24.	2005.	1981-	23.66	03/09/81	23.66	03/09/81	23.66 03/09/81 06/25/81 46.69
4.	51. - 55.	2032.	1981-	46.69	06/25/81	46.69	06/25/81	46.69 06/25/81 10/01/80 95.99 02/26/81 89.14
10.		2150.	1938-	3.30	02/19/39	101.83	10/02/72	89.14 02/26/81 06/12/81 89.58
12.		2375.	1955-	103.10	02/12/55	113.25	03/04/81	113.25 03/04/81 03/04/81 34.96 3.80 06/25/81
12.		2395.	1960-	33.24	02/16/65	57.28	03/08/77	34.96 03/04/81 06/25/81 3.80

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

STATION NUMBER		STATION NAME	DATE OF SAMPLE	COUNTY	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350723114364201	213 S32 E66 33AAA 1	JOHN KNIGHT WELL	80-10-16	003	111FLDP	50	507.00
350726114375501	213 S32 E66 33BBB 1	CROMER WELL	80-10-16	003	111FLDP	96	511.00
350910114344001	213 S32 E66 24BBA 1	SUNDANCE SHORES WELL	80-10-16	003	110VLFL	480	727.00
350937114341501	213 S32 E66 13DBB 1	RIVERSIDE TRAILER COURT	80-10-16	003	111FLDP	89	521.00

STATION NUMBER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE, WATER LEVEL (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH, FIELD (UNITS)	HARD-NESS (MG/L AS CAC03)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
350723114364201	80-10-16	1030	--	1410	7.4	440	120	35	120	2.5	5.4
350726114375501	80-10-16	1000	16.80	1230	7.6	410	110	34	120	2.6	3.8
350910114344001	80-10-16	1200	--	1340	7.6	280	82	19	160	4.1	4.2
350937114341501	80-10-16	1130	--	813	7.7	350	97	27	120	2.8	4.9

STATION NUMBER	DATE OF SAMPLE	ALKA-LINITY, FIELD (MG/L AS CAC03)	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)
350723114364201	80-10-16	--	370	130	18	907	.00
350726114375501	80-10-16	200	300	110	19	817	.00
350910114344001	80-10-16	130	210	220	30	809	1.3
350937114341501	80-10-16	160	310	120	17	792	.00

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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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