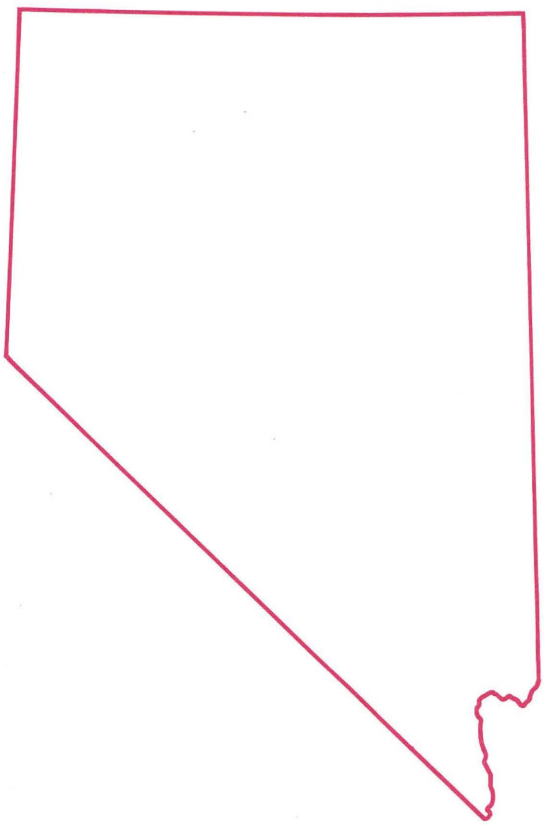
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Water Resources Data
Nevada
Water Year 1987



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Prepared in cooperation with the State of Nevada
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CALENDAR FOR WATER YEAR 1987

1986

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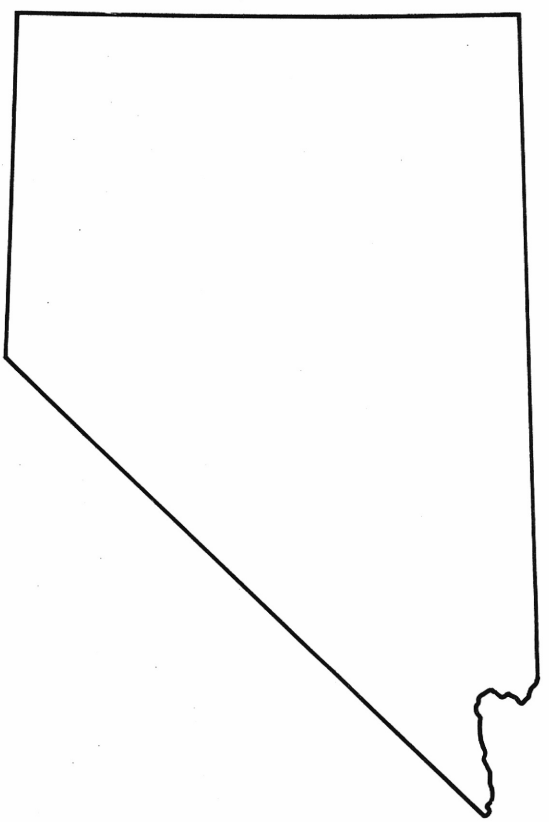
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Water Resources Data
Nevada
Water Year 1987

by A. Pupacko, R.J. LaCamera, M.M. Riek, and J.R. Swartwood



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-87-1
Prepared in cooperation with the State of Nevada
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

1989

PREFACE

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

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

In addition to the authors, U.S. Geological Survey personnel in Nevada who contributed significantly to the collection and preparation of the data in this report were: David J. Bauer, David A. Beck, David E. Blackstun, Robert E. Bostic, Michael D. Dettinger, Michael Enright, Nancy Fleckenstein, Kerry T. Garcia, Gary Gortsema, Daniel E. Hitch, Ray J. Hoffman, Judy M. Jacoboni, Deborah Krell, Roberta Lunnis, Otto Moosburner, Robert Moquino, Robert N. Pennington, Alan M. Preissler, David A. Simpson, John C. Stone, Terry Strecker, Robert Swanson, Elaine Templeton, Evan Templeton, Thomas B. Tucker, Brad VanDeKamp, Lloyd C. VanGordon, Craig Westenburg, James Wood, and Richard L. Young.

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

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Water-resources data published herein for the 1987 water year comprise the following records:

- Water discharge for 86 gaging stations on streams, canals, and drains.
- Discharge data for 144 peak-flow stations and miscellaneous sites, and 35 springs.
- Stage and contents for 14 lakes and reservoirs.
- Water levels for 304 observation wells.
- Water-quality data for 29 stream, canal, and drain sites, and 5 wells.
- Precipitation totals for 12 stations.

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.

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*Nevada, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

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WATER RESOURCES DATA - NEVADA, 1987

Compiled by Alex Pupacko, Richard J. LaCamera,
Margaret M. Riek, and James R. Swartwood

INTRODUCTION

Water-resources data published herein for the 1987 water year comprise the following records:

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- Discharge data for 144 peak-flow stations and miscellaneous sites, and 35 springs.
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Additional water data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Records of stream discharge and content or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series; for 1961-70, they were in a 5-year series. Records of water quality were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published through 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." 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 U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225. For further ordering information, telephone (303) 236-7476.

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

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published annually as official Geological Survey reports on a State basis. These reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NV-87-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as official water-data reports. The water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. For further ordering information, the Customer Inquiries telephone number is (703) 487-4650.

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data through cooperative agreement with the Survey during 1984 are:

Nevada Department of Conservation and Natural Resources, Roland D. Westergard, Director.
Division of Water Resources, Peter G. Morros, State Engineer.
Division of Environmental Protection, Lewis H. Dodgion, Administrator.

Nevada Department of Transportation, Garth Dull, State Highway Engineer.

Carson City Public Works Department, Daniel K. O'Brien, Director.

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

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

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

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, 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 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. Most of Nevada is typified by basin and range topography, and no rivers, except for the Colorado, have direct connection with the ocean. Downstream depletion of flow is caused by irrigation, public use, infiltration, and evapotranspiration. Characteristically, stream discharge is low in late summer, and then increases through the autumn and winter until the snowmelt season in the spring. Maximum discharge for the year can normally be expected in May and June, although floods have occurred in December, January, or February as a result of rain on snow.

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 can be measured in hours.

Except for the Colorado River, all major streams in Nevada had less-than-normal discharge for the 1987 water year. In the Humboldt River basin of northern Nevada, streamflow during the 1987 water year was well below average. For the entire year, the total discharge at Palisade (station 10322500) was 42 percent of average. Monthly and annual mean discharges for water year 1987 and for the period of record (water years 1903-06, 1912, and 1914-87) at the Palisade station are shown in figure 1.

The Carson River lies mostly in Nevada, with its headwaters in the Sierra Nevada of California. During water year 1987, runoff in the river at Carson City (station 10311000) was 37 percent of the average for the period of record (water years 1940-87). Monthly and annual mean discharges for water year 1987 and for the period of record at Carson City are shown in figure 1.

The Walker River is formed by the confluence of the East and West Forks in Mason Valley. Both forks originate in the Sierra Nevada, and their discharge is controlled, the East Fork by Bridgeport Reservoir and the West Fork by Topaz Lake. The discharge of the Walker River at Wabuska (station 10301500) for water year 1987 was 65 percent of the 60-year average (water years 1904, 1921-35, 1940-41, 1943, 1945-87). The river terminates in Walker Lake, a saline remnant of ancient Lake Lahontan, north of Hawthorne. Water-surface elevations for the lake (station 10288500) are shown in figure 2. The lake-surface elevation decreased 2.9 feet, to 3,968.6 feet above sea level, during the 1987 water year.

The Truckee River, another major western Nevada stream for which discharge is significantly controlled by reservoirs and regulated lakes in the Sierra Nevada, experienced less-than-normal total discharge for the 1987 water year. At Reno (station 10348000), discharge for the year was 71 percent of the 52-year average (water years 1913-19, 1931-34, 1947-87). The Truckee River feeds Pyramid Lake, a closed-basin water body similar to Walker Lake. Water-surface elevations for Pyramid Lake (station 10336500) steadily receded from 1975 through 1981. In contrast the high discharge in the Truckee River from 1982 through 1984 dramatically raised the lake level by about 25 feet, as shown in figure 2. The lake level decreased 1.8 feet, to 3,813.8 feet above sea level, during the 1987 water year.

In southeastern Nevada, the flow of the Colorado River is completely controlled by a sequence of impoundments that includes Hoover and Davis Dams in Nevada. Since 1935, the mean annual discharge of the river below Hoover Dam (station 09421500) has been about 14,000 ft^3/s (cubic feet per second). Mean annual discharge fluctuates on the basis of upstream supply and downstream power and irrigation requirements. During water year 1987, the discharge averaged 18,120 ft^3/s, which was 128 percent of the long-term average (water years 1935-87). In the Virgin River (station 0941500), one of the major tributaries to Lake Mead on the Colorado, discharge during 1987 was 75 percent of the 58-year average (water years 1930-87).

Surface-Water Quality

The quality of surface water in Nevada varies greatly from place to place, as well as seasonally. Concentrations of dissolved solids are generally higher in the southern part of the state than in the northern part, and are dependent to a large extent upon water discharge. Concentrations usually are greatest during periods of low streamflow, and lowest during periods of high streamflow due to dilution by precipitation or snowmelt runoff.

Concentrations of dissolved solids for the period of record at stations that are monitored as part of the National Stream Quality Accounting Network (NASQAN) and Hydrologic Bench-Mark networks are presented in figure 3. Differences in dissolved-solids concentrations between stations in the northern part of the state (figure 3A) and those in the southern part (figure 3B) are evident, as is the variability in dissolved-solids concentration at the individual stations. Also indicated on the figures are the median dissolved-solids concentrations for the period of record and for the 1987 water year. Complete information on the period of record for each station is listed in the "PERIOD OF RECORD" paragraph preceding the water-quality data tables for that station.

At the Colorado River below Hoover Dam (station 09421500), the median concentration of dissolved solids in the 1987 water year is substantially less than that for the period of record. Flows have been higher than average at this site since the 1983 water year, and median dissolved-solids concentrations have shown a marked decrease since that time. Average annual streamflow for water years 1983 through 1987, in terms of percentage of the mean for the period of record (1935-87), were 145, 217, 182, 167, and 128 percent, respectively. Median dissolved-solids concentrations for the same years

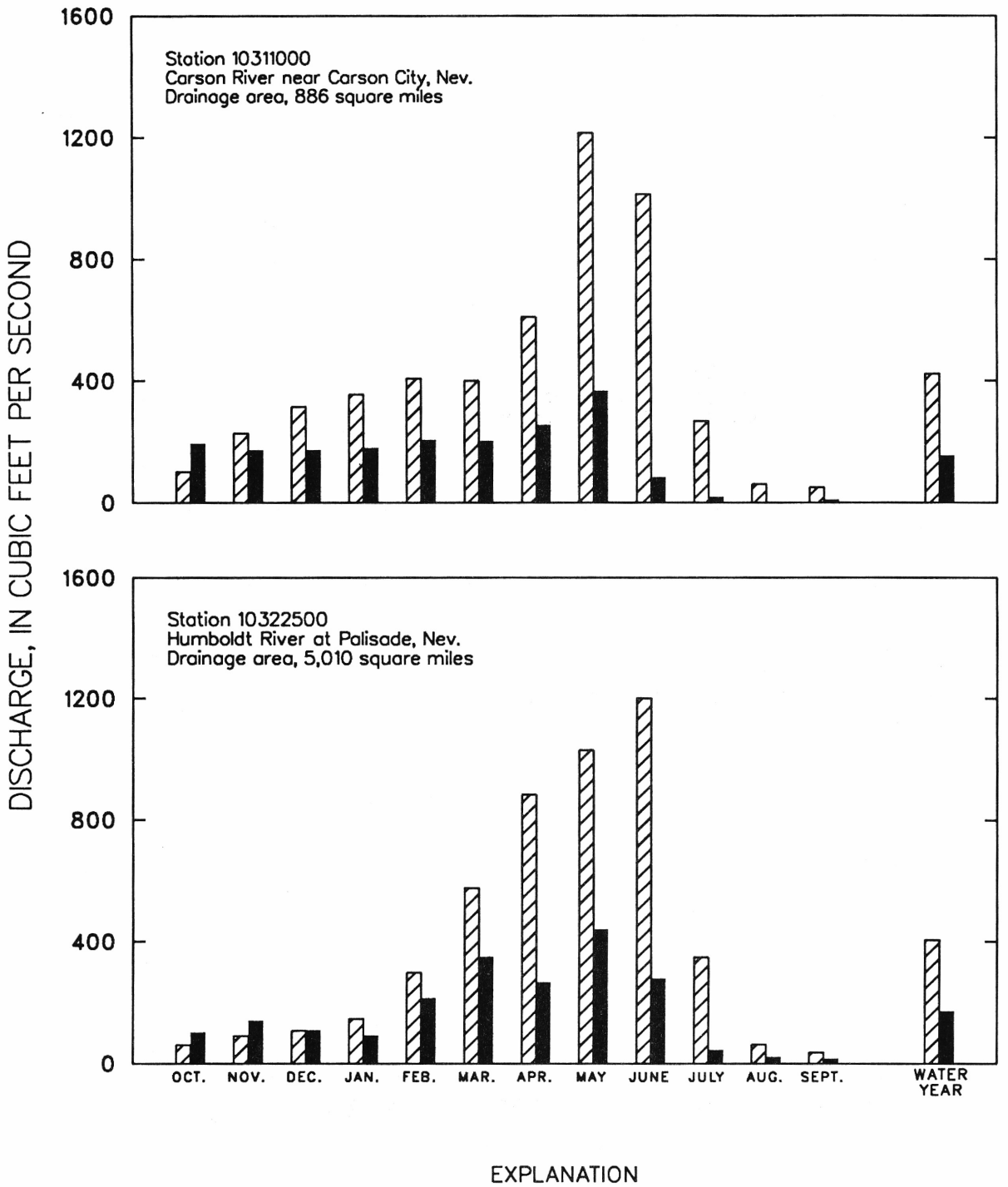


FIGURE 1.–Comparison of discharge during water year 1987 with the long–term mean discharge at two representative gaging stations.

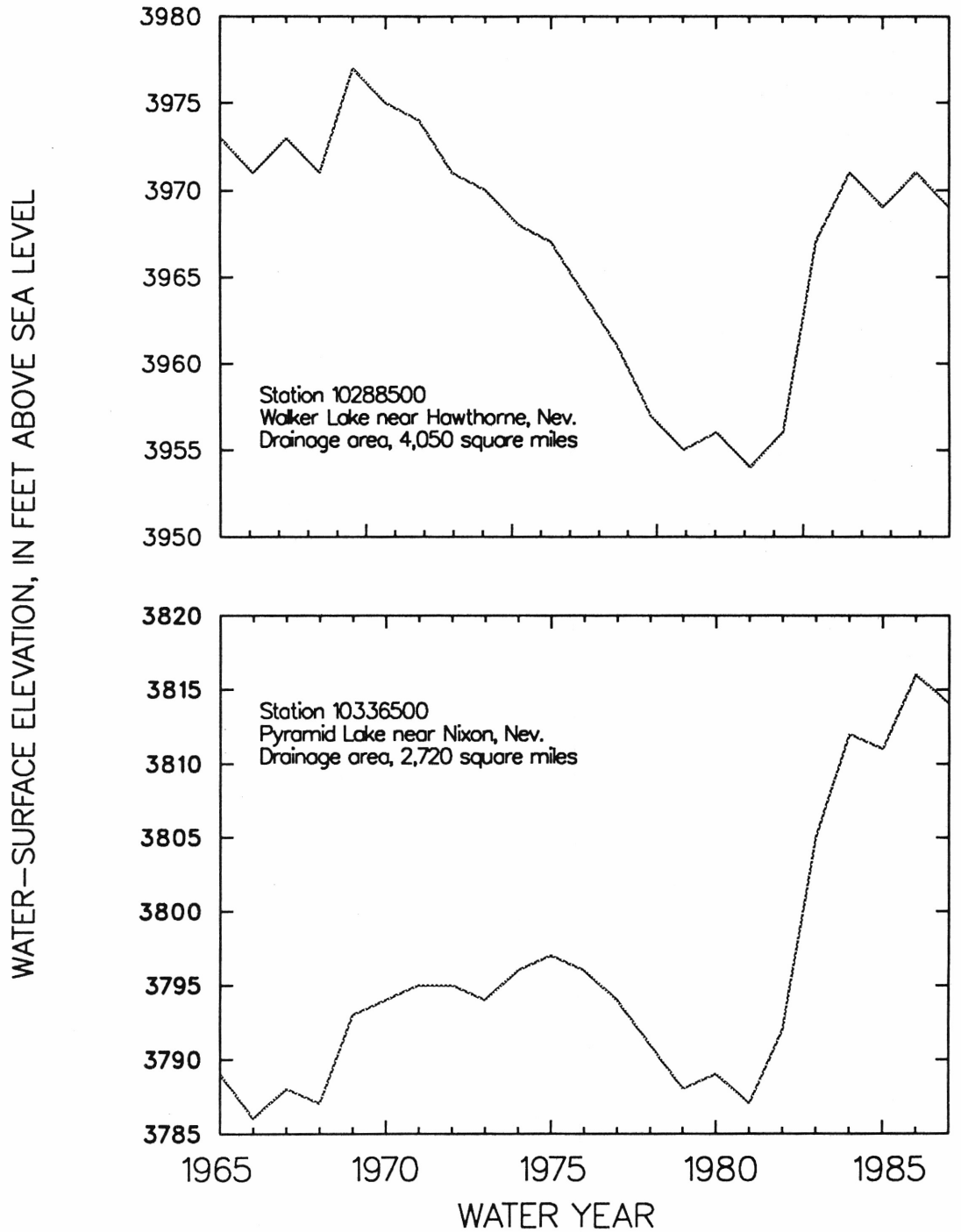


FIGURE 2.--End-of-year water-surface elevation at Walker and Pyramid Lakes, water years 1965-87.

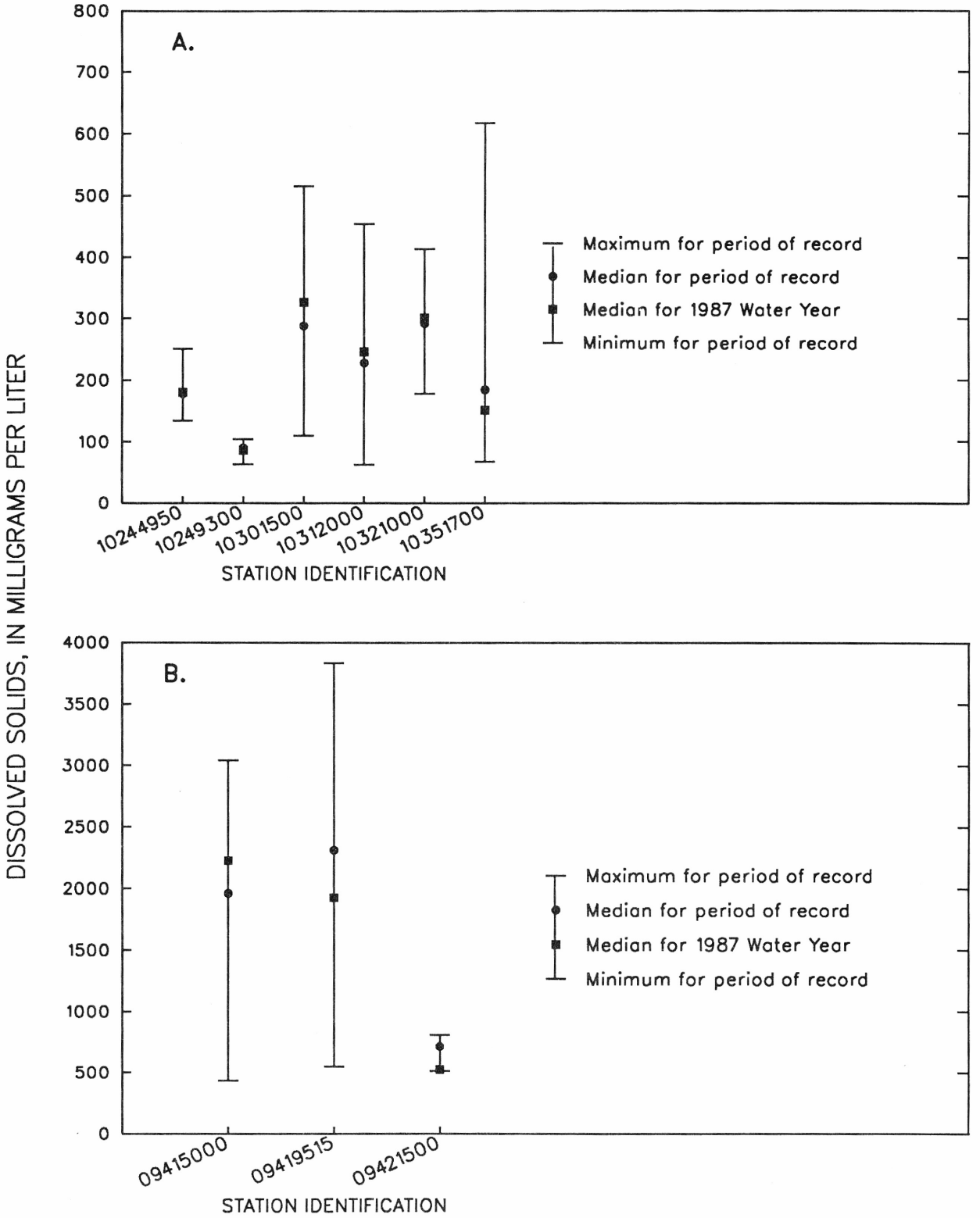


FIGURE 3.--Comparison of median dissolved-solids concentrations during water year 1987 with dissolved-solids concentrations for the period of record at selected streams in (A.) northern Nevada, (B.) southern Nevada.

were 685, 646, 576, 532, and 526 milligrams per liter, respectively. Figure 4 shows the pronounced decrease in dissolved-solids concentrations measured at the Colorado River station. A new minimum concentration for the period of record, although just slightly below the previously measured minimum, occurred in the 1987 water year.

At the Virgin River at Littlefield (station 09415000) a new maximum concentration of dissolved solids for the period of record was measured in water year 1987. This doubtless is related to streamflow at the site. Mean annual discharge for 1987 was only 75 percent of normal and the lowest in the last nine years.

Ground Water

Development of ground-water supplies continued in Nevada during 1987 as logs of 1301 wells were submitted to the State Engineer's Office. The number of logs submitted in 1987 was about 20 percent more than submitted annually during 1983-85, but less than the number submitted annually between 1977 and 1981, -- a period of rapid ground-water development (figure 5). Of the logs submitted in 1987, more than 77 percent were from wells drilled for domestic use (figure 6). The remainder were from wells drilled for exploration (largest number of wells in the category "other" in figure 6), industrial and public supply, and irrigation use ("other" also includes a few new stock wells). Well drilling during 1987 was concentrated in the northwestern and southern parts of the State, particularly near the cities of Reno and Las Vegas (figure 6). Wells drilled in these areas were principally for domestic use. New domestic wells dominate the drilling in most rural areas as well. Most of the new irrigation wells were drilled in rural counties in established agricultural areas.

As in the past, most wells were drilled into unconsolidated deposits of sand, gravel, silt, and, less commonly, clay that partly fill the numerous basins in Nevada. Surrounding the basins are mountains that are underlain by volcanic, igneous, metamorphic, and sedimentary rocks. These consolidated rocks also underlie the unconsolidated deposits in the basins. Some consolidated rocks can yield substantial quantities of water, particularly in parts of eastern and southern Nevada where ground water flows through thick sequences of limestone and dolomite. Locally, fractured volcanic rocks also can yield substantial quantities of water. Water wells, however, are not commonly drilled into consolidated rocks, because most development is in the basins where water is readily obtained from shallow depths in unconsolidated deposits, and because well yields in the consolidated rocks are less predictable.

Ground-water levels fluctuate seasonally and annually in response to changes in withdrawals and climatic conditions that can cause changes in natural recharge to and discharge from the ground-water reservoirs. Water levels also fluctuate in response to both seasonal and long-term changes in climate. Water levels generally rise from late winter to early summer in response to runoff from melting snow in the surrounding mountains and, particularly in the northern part of the State, to application of surface water for irrigation. Water levels generally decline during the summer to early winter when recharge is small and ground water is discharged by evapotranspiration. Long-term climatic changes can also affect water-level trends, but the effects occur over a period of years. Superimposed on the natural fluctuations in water levels are changes caused by increasing or decreasing ground-water withdrawals and, in some areas, changes caused by recharge from surface irrigation.

Figure 7 shows water-level trends for six selected wells. Three of the wells are near areas of intensive irrigation withdrawals (Paradise, Pahrump, and Diamond Valleys). Two wells are in aquifers used for public supply (Carson City and Las Vegas). The well in White River Valley shows water-level trends in a less developed basin.

Water levels in the Paradise Valley well were similar to or slightly lower than those measured in 1985-86. Water levels had risen from 1983 to 1985 in response to wetter-than-normal years and the temporary formation of Gumboot Lake on the Little Humboldt River nearby. Between 1974 and 1983, water levels had declined, largely due to the influence of ground-water withdrawals that began in 1973.

Water levels declined somewhat in 1987 in the Carson City well, following a brief rise between 1983 and 1985 that was preceded by at least 5 years of water-level declines. Precipitation in Carson City was generally above normal between 1982 and 1986. The well is on the the west side of the city, where declines due to ground-water withdrawals for municipal use have exceeded 50 feet in some places. Measured water-level declines elsewhere in the basin have been small.

The ground-water level in the well in Pahrump Valley declined rapidly in the 1960's in response to irrigation withdrawals. Except for seasonal variations, the water level in the well has generally stabilized since 1974. Land use in the area near the well has changed from primarily agricultural to residential since 1974.

The water levels in Diamond Valley began a long-term decline that was slow in the mid-1950's and that increased in the early 1970's when electric power became available in the basin and ground-water withdrawals increased. The water level continued to decline in 1987. The well is in an area of ground-water withdrawals for irrigation.

The water level in the White River Valley well declined in 1987, following an 8-foot rise between 1982 and 1985 due to wetter-than-normal conditions. The decline in 1986 and 1987 may be a natural decline from elevated levels that developed following wet years in 1982-84. Water levels similarly declined from 1971 to 1978 following wetter-than-average years in 1967-70.

The water level in the Las Vegas well declined rapidly in the 1960's and 1970's as the city's population increased greatly. By 1978, ground-water pumpage had been redistributed and, in part, replaced by use of water from Lake Mead to such an extent that the water-level declines stopped temporarily, and levels rose during 1982-83. In 1987, water levels in the Las Vegas well declined slightly from the level of 1978, probably a result of the very dry 1986 water year in southern Nevada. The well is in the northwest part of the basin several miles from the main municipal well field on the west side of the city, and reflects general water-level changes in the principal aquifers on the west side of the basin. Shallow water levels on the east side of the basin have been rising, principally because of lawn irrigation.

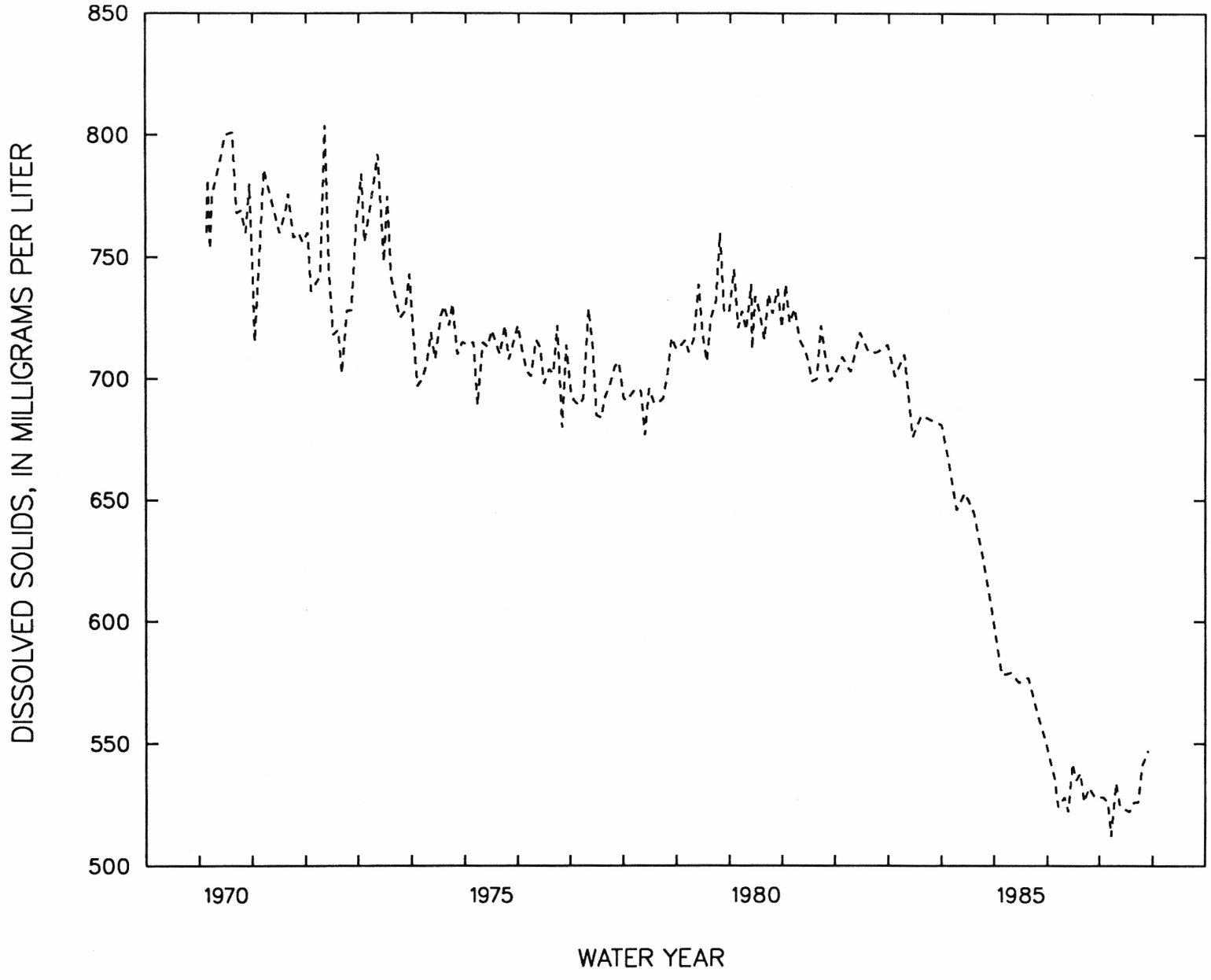


FIGURE 4.--Dissolved solids concentration in the Colorado River below Hoover Dam (Station 09421500) for the period of record, 1970–87.

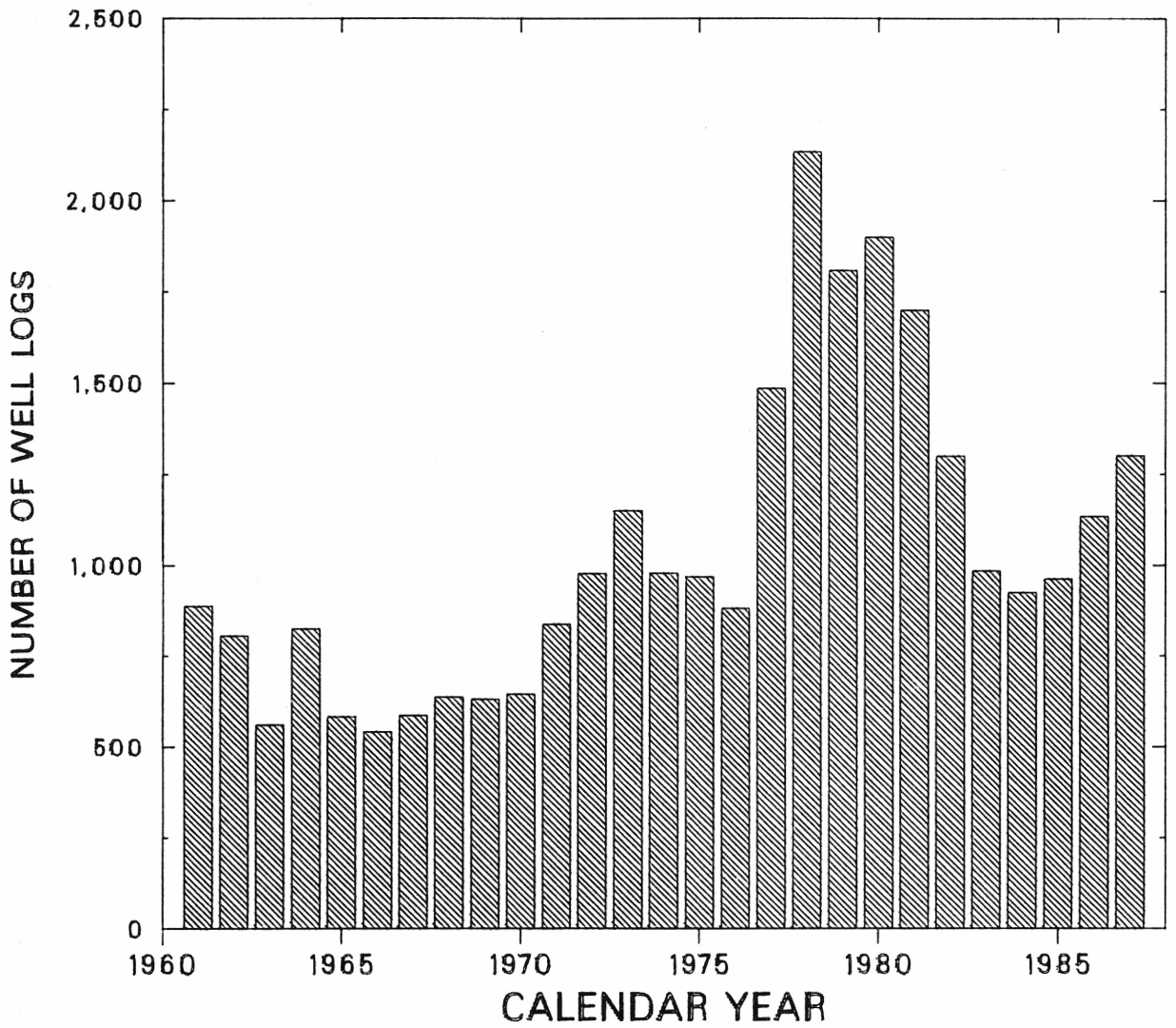


FIGURE 5.--Number of well logs submitted to the Nevada State Engineer's Office during 1961–87.

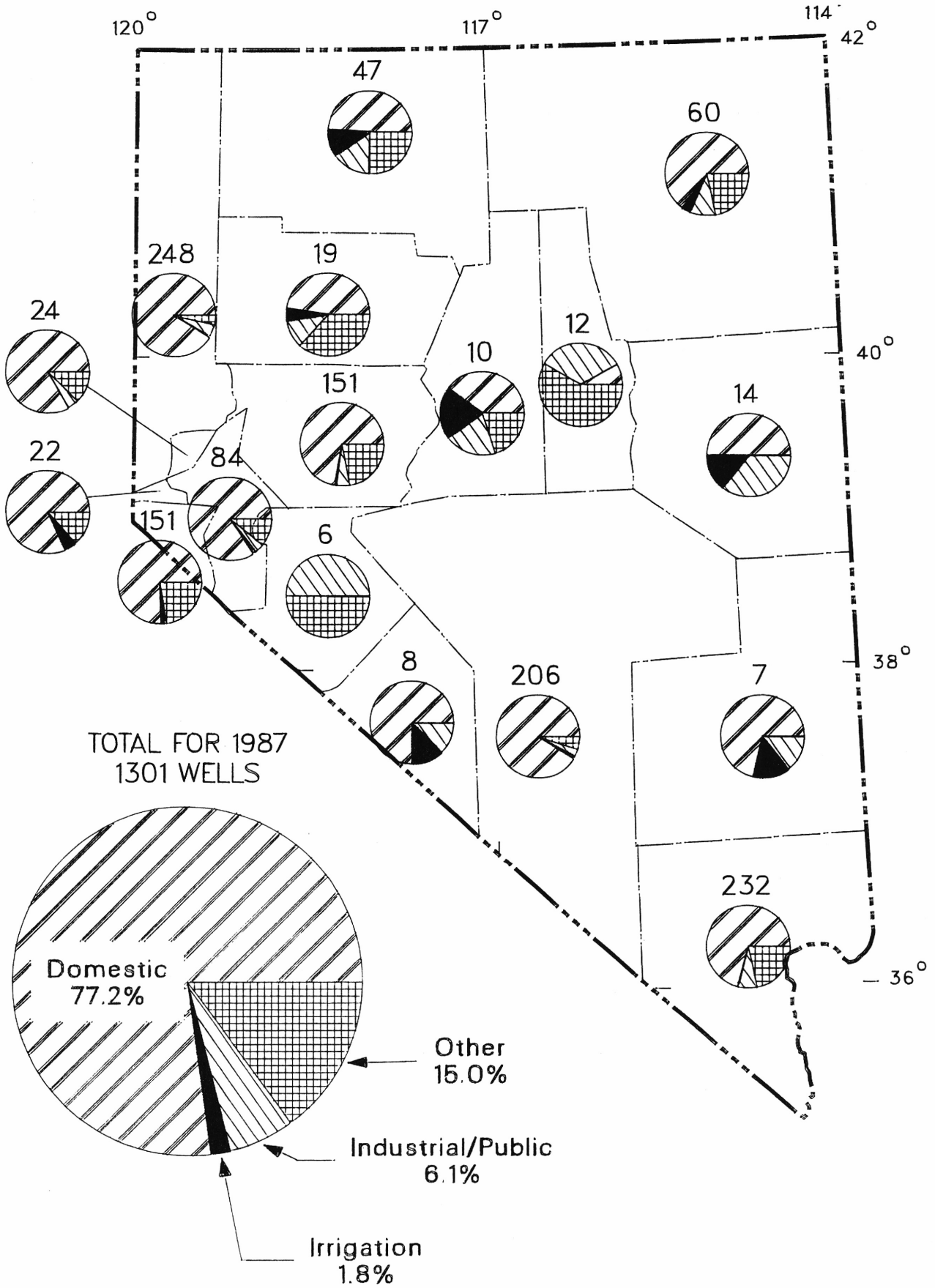


FIGURE 6.--Distribution, by county, of the number and use of wells drilled during calendar year 1987, on the basis of 1301 logs submitted to the Nevada State Engineer's Office. The category 'other' includes mostly test holes. Above each symbol is the number of logs submitted for the county during 1987.

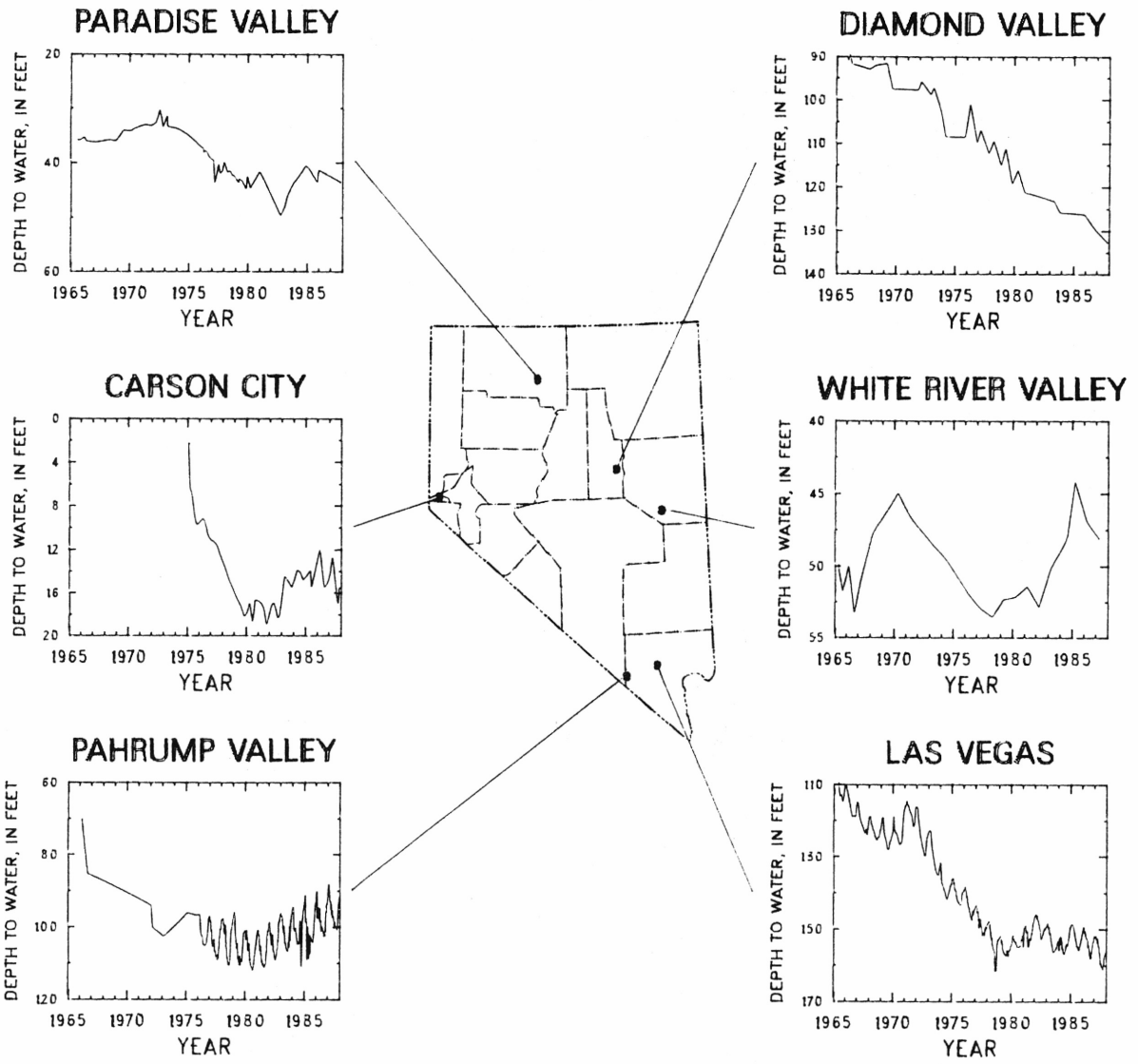


FIGURE 7.--Long-term water-level trends in six selected observation wells.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of about 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 450 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a network of about 150 sites for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

High-Elevation Precipitation Network is a 12-station network for sampling total precipitation in the high mountains of eastern Nevada. The data will be used to estimate snowmelt runoff and ground-water recharge.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1987 water year that began October 1, 1986, and ended September 30, 1987. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 8-14. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Nevada, for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

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 from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in the list of gaging stations. Each indention represents one rank. This downstream order and system of indention show (1) which stations are on tributaries between any two stations and (2) the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 10351700, which appears just to the left of the station name, includes the 2-digit part number (10) plus the 6-digit downstream-order number (351700). In this report, the records are listed in downstream order by parts. The part number refers to an area the boundaries of which coincide with certain natural drainage lines. Records in this report are for sites in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

Local Site Numbers

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

The first segment of the local site number specifies the hydrographic area as defined by Rush.[1] The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and the subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as three times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. Lettered quadrants are read from left to right, with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. As an example, a well in Mason Valley (hydrographic area 108) located within the NE1/4NE1/4SW1/4SW1/4 section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCAA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCAA2.

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

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

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

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with recorders that sample stage values at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives 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 in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

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 annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record 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. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Nevada District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 9 and 10.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Nevada District Office.

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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the Nevada District Office whose address is given on the back of the title page of this report.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams normally 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, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Nevada District Office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Records of Ground-Water Levels

Data from the basic Statewide network of primary and secondary observation wells are published herein. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local well number. (See the section titled "Station Identification Numbers.")

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) 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).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling

as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

DEFINITION OF TERMS

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

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

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) 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 means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 3°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, 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 micro-organisms, 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 of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square mile (g/mi^2).

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

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

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

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

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

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

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

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 to prevent the intrusion of salt water.

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

Cubic foot per second per day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Cubic feet per second per square mile [$(ft^3/s)/mi^2$] 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.

Discharge is the volume of water (or more broadly, 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-um 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, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

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

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

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

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass 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 dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets 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.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. 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 sample volume, usually 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.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentaiton methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

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

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

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

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

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

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

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

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 feeding 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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2.time)] for periphyton and macrophytes and [mg C/(m^3.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by 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 the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mgO /(m^2.time)] for periphyton and macrophytes and [mgO /(m^3.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 to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent 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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

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 cause of the occurrence 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.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Seven-day 10-year low flow ($7 Q_{10}$) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance 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 microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

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

Substrate is the physical surface upon which an organism lives.

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

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

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount

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

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

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

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

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

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

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

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1987, is called the "1987 water year."

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 concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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Beatty area, Nye Co.: "Geohydrology of the unsaturated zone at the burial site for low-level radioactive waste near Beatty, Nye County, Nevada," by W.D. Nichols; U.S. Geological Survey Water-Supply Paper 2312, 57 p.

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Carson Valley, Douglas Co.: "Ground-water levels in water years 1984-86 and estimated ground-water pumpage in water years 1984-85, Carson Valley, Nevada," by David L. Berger; U.S. Geological Survey Open-File Report 86-539, 16 p.

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Las Vegas area, southern Nevada: "Should the Furnace Creek Ranch-Franklin Lake Playa Ground-Water Subbasin simply be the Franklin Lake Playa Ground-water Subbasin?", by J.B. Czarnecki; Transactions, American Geophysical Union, EOS, v. 68, no. 44, p. 1,292.

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The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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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. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

3-E1. *Application of borehold 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.

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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.

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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 A9. 1982. 44 pages.

3-A10. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 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.

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3-A13. *Computation of continuous records of streamflow,* by Edward J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

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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. Spanish translation TWRI 3-B2 also available.

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3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods of measurement of fluvial sediments,* by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

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

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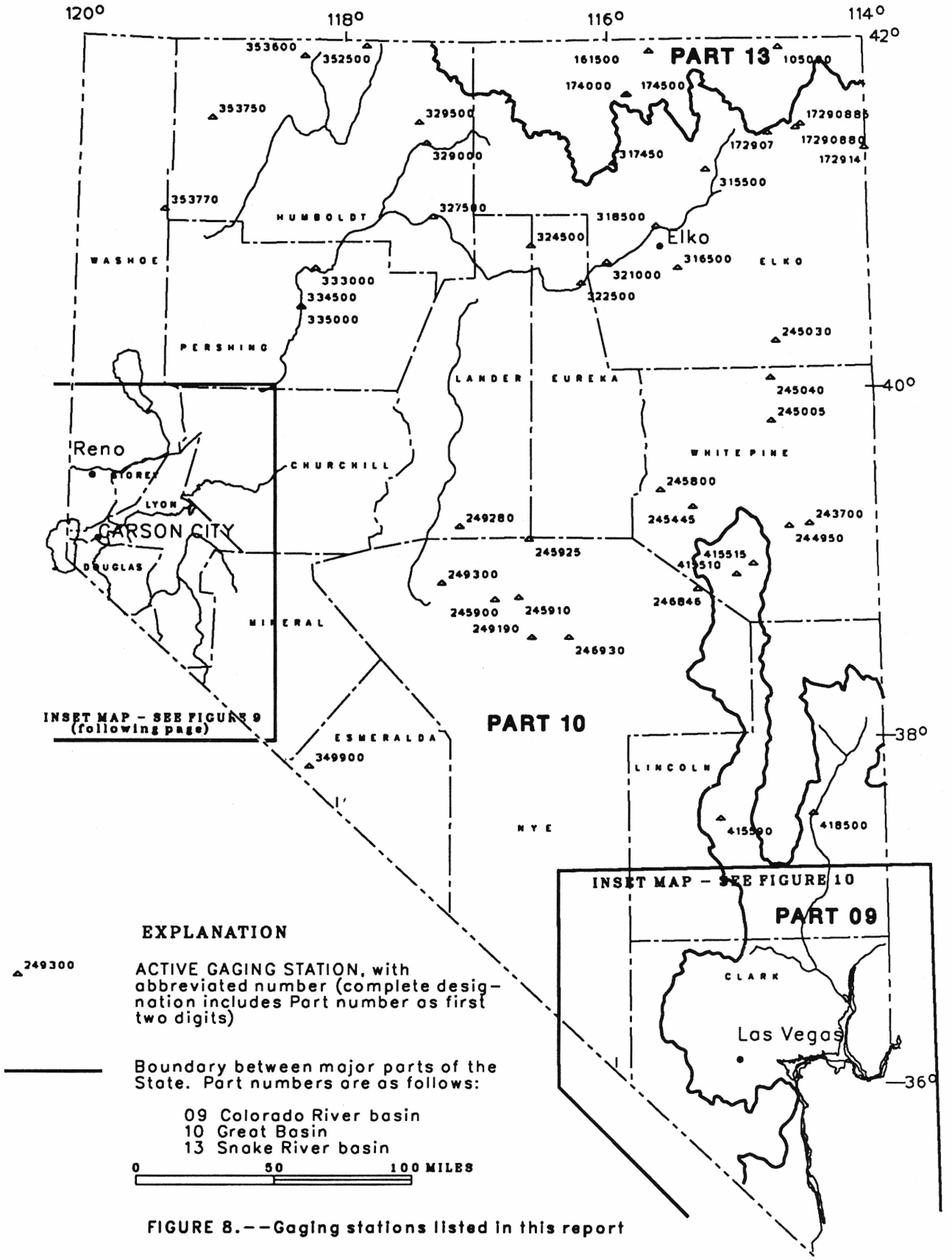


FIGURE 8.--Gaging stations listed in this report

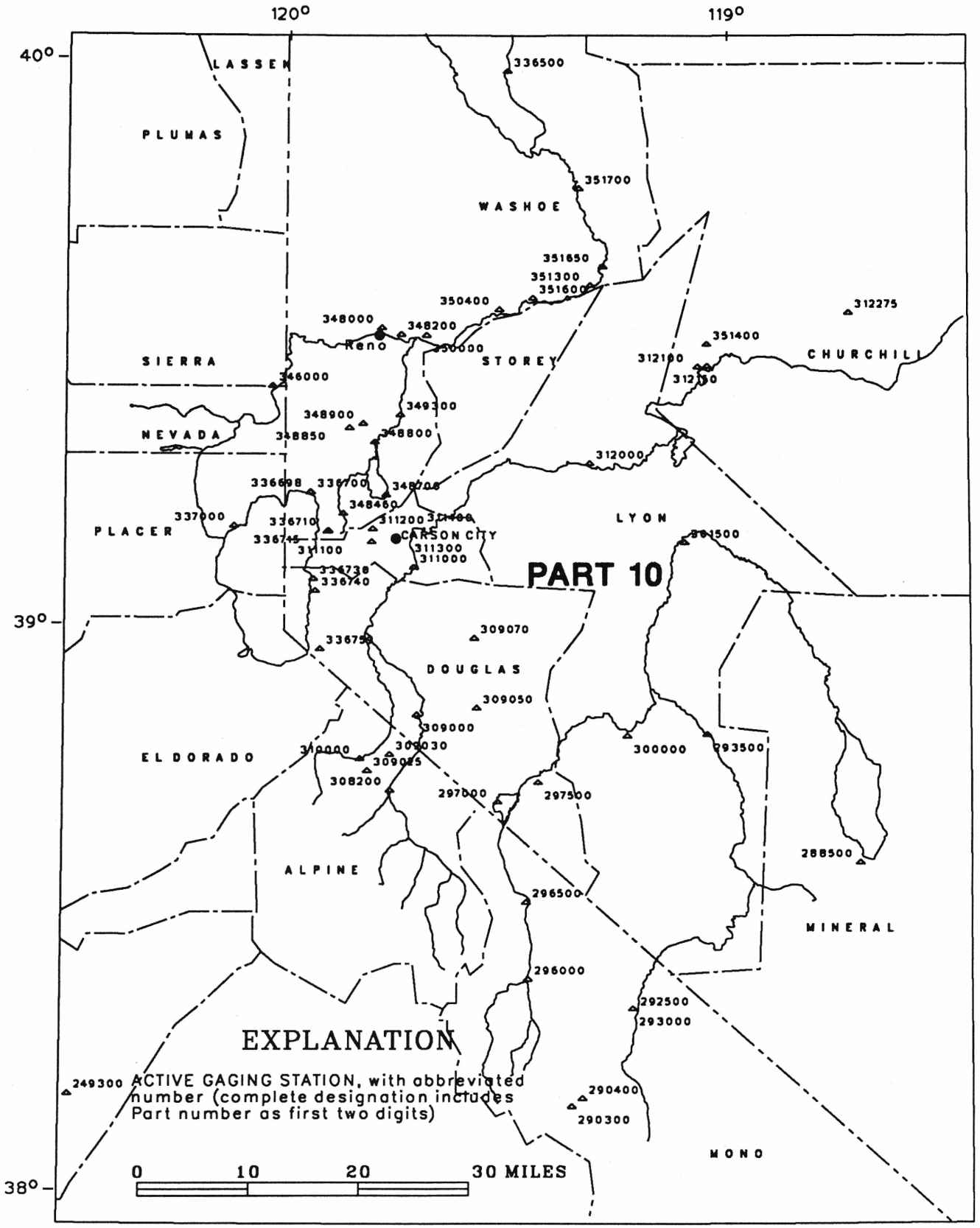


FIGURE 9.-- Gaging Stations in West-Central Nevada.

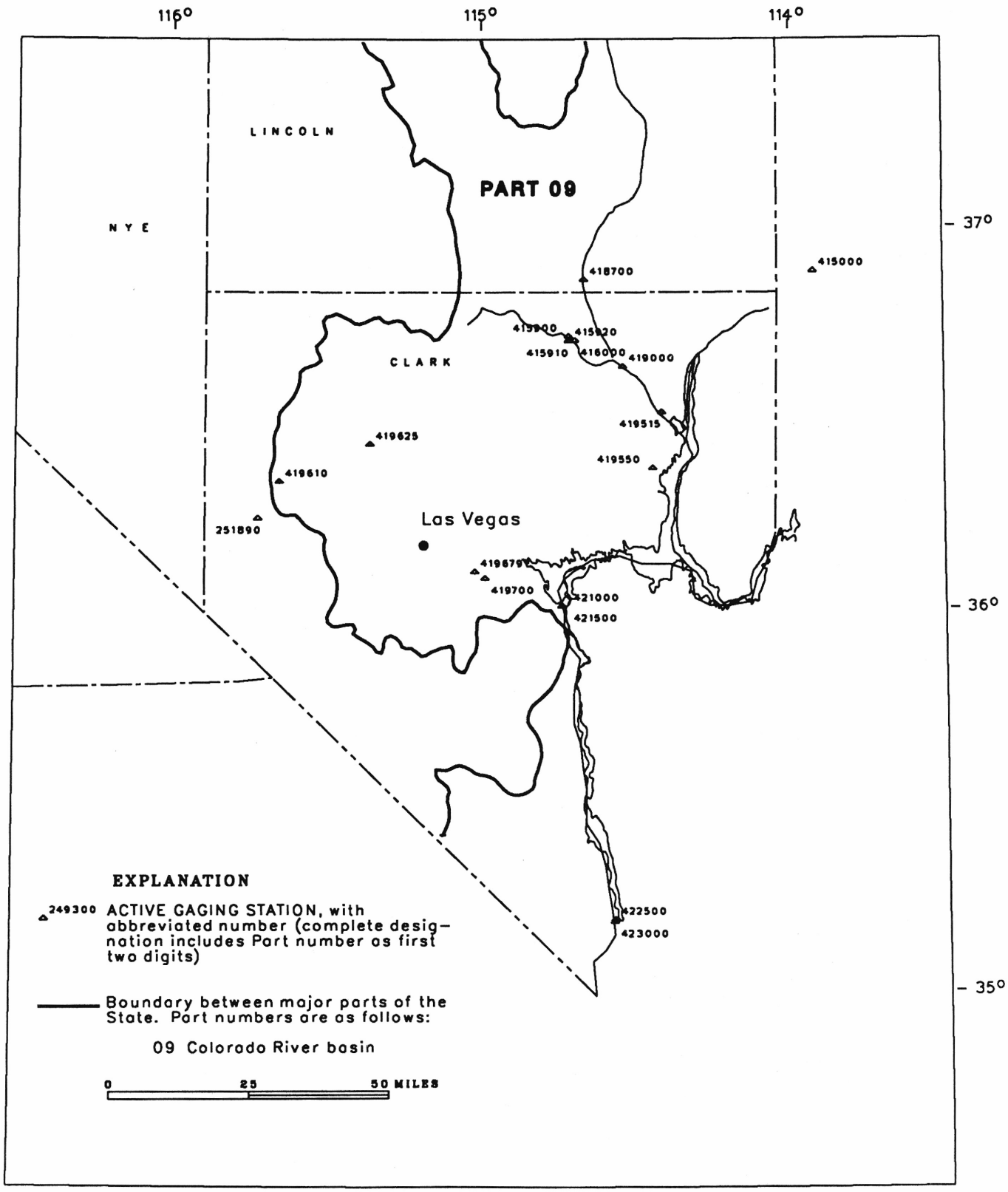


FIGURE 10.--Gaging stations in south-east Nevada.

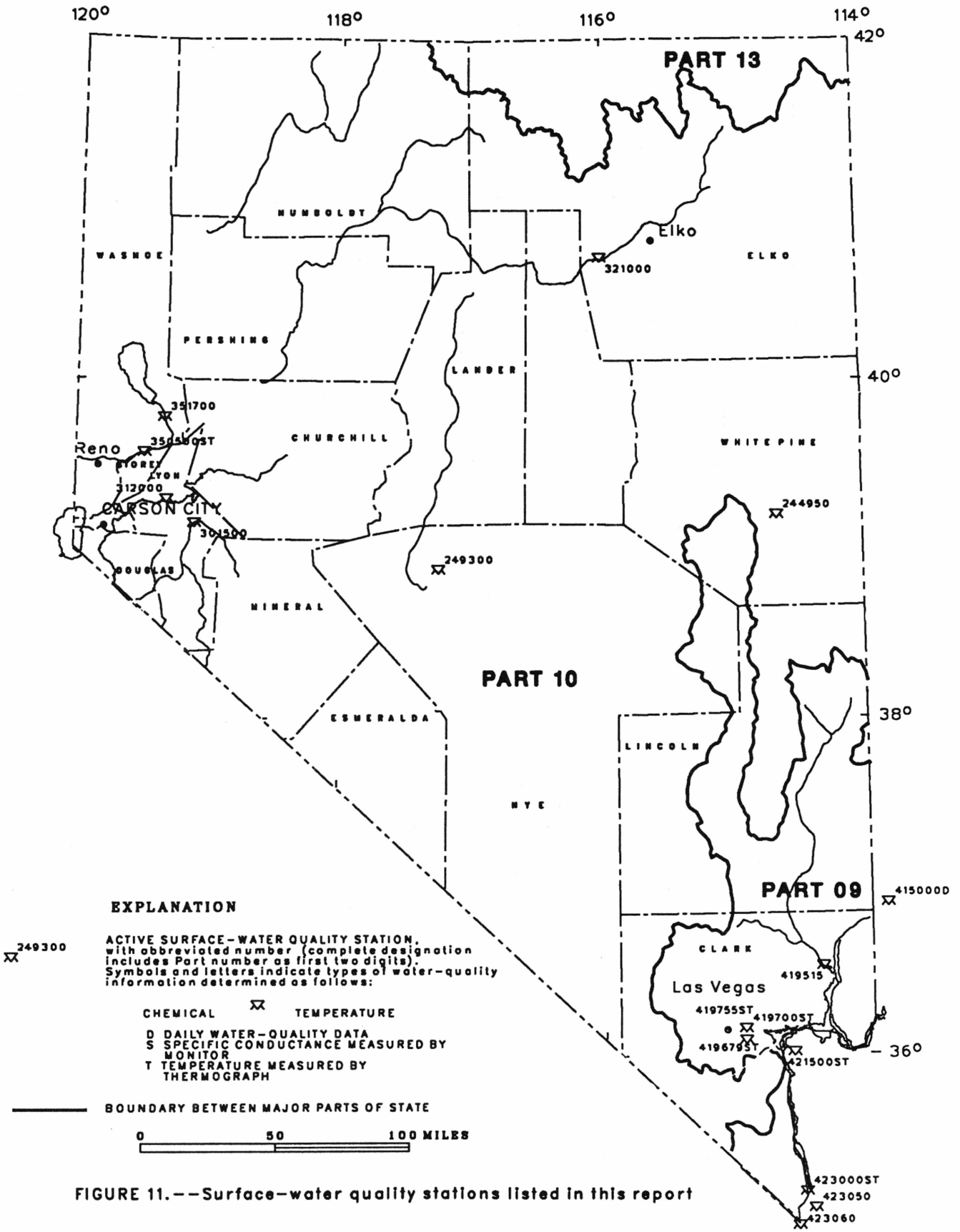


FIGURE 11.--Surface-water quality stations listed in this report

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 36°53'30", long 113°55'25", in SW1/4SW1/4 sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi downstream from Beaver Dam Wash, 0.4 mi upstream from Littlefield, and 36 mi upstream from waterline of Lake Mead at elevation 1,221 ft, National Geodetic Vertical Datum of 1929.

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

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--58 years, 241 ft^3/s, 174,600 acre-ft.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 21	1200	*5,690	*9.33	No other peak greater than base discharge.			

Minimum daily, 57 ft^3/s, July 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	183	241	119	142	134	186	362	139	70	128	80
2	421	186	244	121	142	139	183	326	134	65	92	80
3	421	180	226	124	144	144	192	279	124	65	71	88
4	386	167	226	119	144	150	233	241	126	65	111	81
5	367	173	241	129	134	176	279	216	134	63	90	82
6	358	180	260	139	134	161	304	205	121	63	110	81
7	353	170	183	147	144	144	296	180	129	65	110	80
8	330	164	e176	144	139	161	252	144	161	63	386	83
9	326	167	e169	131	144	176	267	136	134	60	180	75
10	313	176	e162	121	156	199	264	126	126	57	163	80
11	413	173	e154	124	161	173	300	124	119	57	139	78
12	432	258	147	124	167	167	344	142	116	57	118	75
13	283	308	142	126	192	199	348	144	119	63	108	110
14	219	326	156	129	183	199	358	139	94	65	168	111
15	156	e320	161	121	209	134	275	161	85	63	112	103
16	150	e300	164	126	170	212	330	292	91	60	99	120
17	222	e280	170	121	161	216	391	288	79	63	90	140
18	294	e275	186	136	142	216	480	317	89	116	85	80
19	296	e270	186	134	136	212	657	219	98	87	82	77
20	292	e265	180	136	116	199	525	183	91	72	81	75
21	283	e260	180	139	102	180	344	244	87	1960	89	76
22	233	e250	173	139	107	202	344	219	87	347	100	85
23	223	e245	164	139	119	196	491	180	81	210	190	87
24	219	e230	156	161	147	202	362	142	68	148	503	99
25	180	230	124	199	150	205	411	136	76	99	305	97
26	170	233	126	180	167	176	330	139	74	73	183	105
27	186	230	121	147	139	167	271	136	70	70	116	100
28	176	237	124	153	139	167	279	144	68	174	96	91
29	176	241	124	209	---	161	381	126	67	125	87	88
30	173	244	121	183	---	209	416	147	67	86	80	95
31	173	---	116	158	---	202	---	134	---	79	80	---
TOTAL	8537	6921	5303	4378	4130	5578	10093	5971	3054	4710	4352	2702
MEAN	275	231	171	141	147	180	336	193	102	152	140	90.1
MAX	432	326	260	209	209	216	657	362	161	1960	503	140
MIN	150	164	116	119	102	134	183	124	67	57	71	75
AC-FT	16930	13730	10520	8680	8190	11060	20020	11840	6060	9340	8630	5360

CAL YR 1986 TOTAL 74211 MEAN 203 MAX 840 MIN 57 AC-FT 147200
WTR YR 1987 TOTAL 65729 MEAN 180 MAX 1960 MIN 57 AC-FT 130400

e Estimated.

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; October 1986 to current year, every two months.
SEDIMENT DATA: October 1947 to September 1968, once daily; September 1977 to November 1979 and October 1986 to current year, monthly.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (right) bank is generally somewhat more dilute than average, particularly at times of low streamflow; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of streamwide average (range of discharge, 60-230 ft^3/s. This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975 was due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geological Survey, Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,650 microsiemens Aug. 21, 1966; minimum, 615 microsiemens May 27, 28, 30, 31, 1983.
FECAL STREPTOCOCCI: Maximum, 46,000 colonies/100 mL (non-ideal colony count) Jan. 25, 1978; minimum, 100 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, 3,900 microsiemens July 28; minimum, 1,470 microsiemens Apr. 19.
WATER TEMPERATURES: Maximum, 30.0°C July 15, 29; minimum, 8.0°C Jan. 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	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 28...	1315	189	2840	8.00	31.5	19.0	18	9.6	112	--	--
NOV 25...	1200	238	2650	7.90	16.0	12.5	30	9.9	99	3100	2200
DEC 29...	1135	124	3140	7.80	13.0	13.5	25	10.2	104	--	--
JAN 27...	1330	157	2800	8.00	17.0	14.0	4.8	10.4	102	K20	140
FEB 24...	1100	162	3220	8.00	7.0	11.0	45	11.3	104	--	--
MAR 26...	1000	171	2690	7.80	19.0	15.0	52	9.8	104	K27	170
APR 29...	1015	316	1820	8.10	32.0	20.0	180	8.1	--	--	--
MAY 28...	1400	153	2860	7.90	25.5	22.5	42	8.3	103	K8000	120
JUN 24...	1330	70	3410	7.90	37.0	29.0	1.8	8.3	117	K300	1700
JUL 22...	1700	331	3350	7.80	29.0	25.0	2000	6.3	82	--	--
AUG 27...	1930	99	3500	7.80	31.0	26.0	490	8.6	115	--	--
SEP 29...	1515	86	--	--	--	--	1.6	--	--	--	--

K: NON-IDEAL COLONY COUNT.

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L 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 28...	970	250	83	260	4	23	320	262	850	360	0.80
NOV 25...	920	240	76	250	4	21	320	262	740	340	0.70
DEC 29...	1200	320	100	340	4	30	344	282	1000	480	0.90
JAN 27...	1000	260	84	260	4	21	355	291	840	370	1.0
FEB 24...	1000	250	92	330	5	24	--	--	890	440	0.90
MAR 26...	930	240	79	230	3	20	332	272	760	290	0.70
APR 29...	590	160	46	140	3	14	274	225	460	200	0.50
MAY 28...	950	250	80	250	4	22	318	261	820	350	0.70
JUN 24...	1100	280	100	290	4	29	388	277	1100	410	0.90
JUL 22...	1800	610	61	180	2	18	206	169	1600	250	0.40
AUG 27...	1400	410	84	330	4	28	287	235	1300	470	0.10
SEP 29...	1200	320	100	310	4	29	--	--	1000	400	0.90

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 AC-FT)	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, NITRITE DIS-SOLVED (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)
OCT 28...	19	2030	2000	2.8	--	--	--	--	--	--	--
NOV 25...	18	1890	1800	2.6	0.680	0.690	0.020	0.010	0.700	0.700	0.260
DEC 29...	22	2570	2500	3.5	--	--	--	--	--	--	--
JAN 27...	20	2120	2000	2.9	0.840	0.860	0.060	0.060	0.900	0.920	0.220
FEB 24...	21	2330	2200	3.2	--	--	--	--	--	--	--
MAR 26...	19	1920	1800	2.6	0.870	0.920	0.030	0.020	0.900	0.940	0.130
APR 29...	14	1180	1200	1.6	--	--	--	--	--	--	--
MAY 28...	18	2020	1900	2.7	0.790	0.830	0.010	0.020	0.800	0.850	0.160
JUN 24...	17	2540	2400	3.5	--	--	<0.010	<0.010	0.100	0.110	0.160
JUL 22...	10	3040	2800	4.1	--	--	--	--	--	--	--
AUG 27...	20	2910	2800	4.0	0.680	--	0.020	<0.010	0.700	0.660	0.140
SEP 29...	21	2550	2300	3.5	--	--	--	--	--	--	--

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)
OCT 28...	--	--	--	--	--	--	--	--	--	--	--
NOV 25...	0.290	0.64	0.41	0.90	0.70	1.6	0.130	0.110	0.100	<10	8
DEC 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 27...	0.220	0.98	0.38	1.2	0.60	2.1	0.110	0.080	0.110	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	0.100	0.87	0.50	1.0	0.60	1.9	0.110	0.100	0.080	20	10
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	0.160	0.84	0.34	1.0	0.50	1.8	0.310	0.100	0.020	--	--
JUN 24...	0.160	0.64	--	0.80	<0.20	0.90	0.020	0.010	<0.010	<10	7
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	0.120	2.9	0.68	3.0	0.80	3.7	0.160	0.010	<0.010	60	5
SEP 29...	--	--	--	--	--	--	--	--	--	--	--

DATE	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
OCT 28...	--	--	--	--	--	--	--	--	--	--	--
NOV 25...	100	<10	<1	<1	<1	1	20	<5	310	10	--
DEC 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 27...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	<100	<10	<1	<1	<1	<1	10	<5	330	20	0.2
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	100	<10	<1	<1	<1	1	<10	6	490	20	<0.1
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	<100	<10	1	2	<1	2	60	<5	420	30	0.1
SEP 29...	--	--	--	--	--	--	--	--	--	--	--

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	--	--	--	--	--	--	--	621	317	35
NOV 25...	5	<1	1	<1	3100	<4	20	632	406	25
DEC 29...	--	--	--	--	--	--	--	312	104	8
JAN 27...	--	--	--	--	--	--	--	414	175	20
FEB 24...	--	--	--	--	--	--	--	389	170	37
MAR 26...	4	3	1	<1	3000	4	20	1220	564	15
APR 29...	--	--	--	--	--	--	--	1410	1200	73
MAY 28...	--	--	--	--	--	--	--	1980	818	8
JUN 24...	<1	<1	1	<1	4300	<25	<10	137	26	67
JUL 22...	--	--	--	--	--	--	--	23900	21300	99
AUG 27...	3	1	2	<1	4100	8	20	1340	360	95
SEP 29...	--	--	--	--	--	--	--	177	41	34

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	15.0	13.0	12.0	15.0	17.0	21.5	19.0	25.0	26.0	29.0	27.0
2	16.0	---	11.0	13.0	15.0	17.0	23.0	20.0	26.0	29.0	29.0	28.0
3	16.0	16.0	11.0	13.0	15.0	17.0	18.0	22.0	27.0	27.0	27.0	27.0
4	17.5	15.0	11.0	13.0	15.0	18.0	19.0	21.0	27.0	27.0	27.0	25.0
5	17.0	16.0	12.0	13.0	15.0	16.0	21.0	24.0	25.0	23.0	28.0	25.0
6	---	14.0	16.0	12.0	15.0	17.0	19.0	24.0	26.0	29.0	28.0	25.0
7	19.5	11.0	15.0	12.0	14.0	18.0	20.5	22.0	27.0	26.5	28.0	26.0
8	19.0	11.0	14.0	10.0	12.0	16.5	21.0	25.0	27.0	26.0	25.0	25.0
9	18.0	11.0	11.0	10.0	17.0	17.0	21.0	24.0	28.0	26.0	27.0	27.0
10	23.0	14.0	11.0	10.0	17.0	17.0	20.0	24.0	28.0	---	27.0	25.0
11	17.0	13.0	11.0	10.0	16.0	17.0	19.0	25.0	27.0	---	27.0	25.0
12	15.0	12.0	12.0	11.0	17.0	18.0	18.0	25.0	27.0	27.0	25.0	23.0
13	17.0	13.0	12.0	12.0	17.0	18.0	19.0	27.0	28.0	26.0	25.0	22.0
14	17.0	13.0	12.0	12.0	15.0	17.0	20.0	25.0	26.0	28.0	25.0	23.0
15	18.0	13.0	12.0	10.0	12.0	17.0	21.0	22.0	27.0	30.0	24.0	26.0
16	18.0	15.0	13.0	9.0	14.0	18.0	22.0	21.0	24.0	25.0	25.0	23.0
17	18.0	17.0	14.0	8.0	14.0	18.0	22.0	23.0	23.0	23.0	26.0	25.0
18	17.0	16.0	14.0	10.0	15.0	17.0	22.0	24.0	25.0	24.0	27.0	23.0
19	15.0	15.0	15.0	10.0	14.0	13.0	16.0	21.0	25.0	25.0	25.0	24.0
20	15.0	15.0	16.0	10.0	13.0	15.0	17.0	20.0	26.0	---	26.0	24.0
21	17.0	16.0	15.0	10.0	16.0	14.0	18.0	20.0	25.0	22.0	27.0	25.0
22	17.0	14.0	14.0	10.0	16.0	10.0	23.0	22.0	27.0	25.0	27.0	25.0
23	17.0	14.0	13.0	12.0	12.0	16.0	20.0	23.0	27.0	25.0	26.0	25.0
24	23.0	13.0	14.0	13.0	12.0	16.0	23.0	21.0	28.0	25.0	24.0	25.0
25	19.0	13.0	13.0	12.0	10.0	16.0	21.0	22.0	26.0	26.0	23.0	25.0
26	19.0	13.0	12.0	12.0	14.0	18.0	22.0	19.0	26.0	25.0	23.0	25.0
27	18.0	12.0	14.0	14.0	15.0	15.0	22.0	22.0	28.0	26.0	25.0	24.0
28	18.0	12.0	13.0	14.0	16.0	17.0	22.0	21.0	27.0	26.0	24.0	25.0
29	19.0	13.0	13.0	13.0	---	17.0	20.0	25.0	28.0	30.0	27.0	24.0
30	18.0	12.0	12.5	13.0	---	17.0	21.0	25.0	25.0	29.0	27.0	24.0
31	17.0	---	12.0	15.0	---	19.0	---	24.0	---	29.0	27.0	---
MEAN	---	---	13.0	11.5	14.6	16.6	20.4	22.6	26.4	---	26.1	24.8
MAX	---	---	16.0	15.0	17.0	19.0	23.0	27.0	28.0	---	29.0	28.0
MIN	---	---	11.0	8.0	10.0	10.0	16.0	19.0	23.0	---	23.0	22.0

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2400	2760	2620	3420	3020	3310	3070	1790	2870	3480	3250	3290
2	1920	---	2610	3360	3220	3280	3130	1880	2960	3260	3280	3320
3	1840	2780	2650	3360	3240	3220	3130	2080	3090	3320	3310	3440
4	1890	2750	2650	3330	3120	3070	3040	2230	3070	3250	3690	3390
5	1920	2710	2640	3200	3240	2810	2540	2460	2970	3210	3640	3380
6	---	2700	2740	3280	3240	2910	2200	2660	2990	3200	3700	3490
7	2040	2690	3270	3080	3380	3050	2400	2660	2990	3300	3410	3500
8	2020	2790	3310	3100	3080	2980	2490	2950	3200	3130	3210	3420
9	1920	2750	3310	3270	3210	2910	2530	3040	3010	3180	3720	3410
10	2030	2700	3340	3260	3080	2400	2490	3140	3130	---	3680	3540
11	1790	2720	3370	3290	2890	2810	2390	3220	3130	---	3430	3400
12	1830	2450	3360	3420	2800	2940	2230	3220	3310	3200	3470	3450
13	2060	2180	3380	3490	3020	2990	2250	2920	3270	3250	3480	3060
14	2320	2160	3430	3310	2780	2510	2390	3060	3450	3340	3450	3430
15	2790	2230	3440	3300	2920	2810	2780	2760	3490	3240	3280	3380
16	2650	2500	3430	3300	2720	3050	2510	2890	3280	3240	3480	3450
17	2230	2650	3410	3180	3010	2640	1930	2610	3160	3200	3420	3240
18	2240	2540	3370	3300	3160	2610	1870	2150	3370	3350	3390	3240
19	2270	2240	3370	3000	3210	2680	1470	2390	3330	3210	3320	3280
20	2180	---	3310	3220	3320	2710	1490	2680	3270	3270	3440	3430
21	2290	2330	3420	3100	3330	2870	1670	2810	3350	3100	3450	3460
22	2320	2580	3340	3100	3330	2940	1890	2430	3330	3240	3360	3610
23	2390	2610	3270	3100	3130	2770	1650	2620	3290	3400	3280	3300
24	2340	2600	3280	3100	3110	2840	1900	2830	3300	3710	3010	3500
25	2750	2590	3350	2600	3100	2720	2080	2920	3330	3580	3160	3410
26	2750	2590	3380	2550	3070	2930	1920	2990	3310	3550	3220	3400
27	2850	2530	3360	2910	3290	3140	2020	2870	3290	3480	3480	3380
28	2850	2600	3370	3250	3290	3260	2240	2870	3310	3900	3410	3340
29	2850	2600	3480	3290	---	3270	1820	2890	3300	3340	3410	3330
30	2830	2610	3360	2410	---	3160	1700	2840	3280	3310	3480	3420
31	2870	---	3460	2920	---	3220	---	2940	---	3420	3540	---
MEAN	---	---	3228	3155	3118	2929	2241	2703	3214	---	3415	3390
MAX	---	---	3480	3490	3380	3310	3130	3220	3490	---	3720	3450
MIN	---	---	2610	2410	2720	2400	1470	1790	2870	---	3010	3060

WHITE RIVER VALLEY

09415515 WATER CANYON CREEK NEAR PRESTON, NV

LOCATION.--Lat 38°59'22", long 114°57'30", in SE1/4 sec.1, T.21 S., R.62 E., White Pine County, Hydrologic Unit 15010011, on right bank 7 mi northeast of Preston, NV.

DRAINAGE AREA.--11.0 mi^2, revised.

PERIOD OF RECORD.--June 1983 to September 1987 (discontinued).

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

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft^3/s, Aug. 16, 1984, gage-height, 5.92 ft; minimum daily, 0.14 ft^3/s, Nov. 19, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.6 ft^3/s, Oct. 1; minimum daily, 0.76 ft^3/s, Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	e3.2	e2.9	e2.6	e2.4	e1.9	1.8	1.2	1.1	.97	1.1	.84
2	3.0	e3.2	e2.9	e2.5	e2.4	e1.9	1.8	1.2	1.0	1.0	1.1	.89
3	3.3	e3.1	e2.9	e2.5	e2.4	e1.9	1.5	1.2	1.1	1.2	1.2	1.2
4	3.3	e3.1	e2.9	e2.5	e2.4	e1.9	1.4	1.1	1.0	1.1	1.2	1.2
5	2.8	e3.1	e2.7	e2.5	e2.2	e1.8	1.4	1.2	1.0	1.2	1.3	1.2
6	2.8	e3.1	e2.7	e2.5	e2.2	e1.8	1.5	1.3	1.0	1.1	1.4	.97
7	3.3	e3.1	e2.7	e2.5	e2.2	e1.8	2.3	1.3	.92	.94	1.3	1.0
8	3.6	e3.1	e2.7	e2.5	e2.2	e1.8	2.9	1.2	.98	1.0	1.3	1.1
9	3.4	e3.2	e2.7	e2.5	e2.2	e1.8	3.1	1.2	.96	.98	1.3	.98
10	3.3	e3.2	e2.7	e2.5	e2.2	e1.8	2.9	1.2	.96	1.0	1.3	.83
11	3.4	e3.1	e2.7	e2.5	e2.2	e1.8	2.7	1.2	.96	1.1	1.2	.87
12	3.4	e3.1	e2.7	e2.5	e2.2	e1.8	2.7	1.2	.91	1.0	1.3	1.1
13	3.5	e3.1	e2.7	e2.5	e2.2	e1.7	2.8	1.2	1.0	.91	1.2	1.2
14	3.5	e3.1	e2.7	e2.5	e2.2	e1.7	2.7	1.2	1.1	.97	1.2	1.0
15	3.6	e3.2	e2.7	e2.5	e2.2	e1.7	2.8	1.2	1.1	.96	1.2	1.0
16	3.5	e3.3	e2.7	e2.5	e2.1	e1.7	2.2	1.4	1.1	1.1	1.3	1.1
17	3.3	e3.3	e2.7	e2.5	e2.1	e1.7	2.1	1.4	1.1	.98	1.2	1.1
18	3.4	e3.2	e2.7	e2.5	e2.1	e1.7	2.7	1.2	1.1	1.0	1.1	1.0
19	3.3	e2.9	e2.7	e2.5	e2.1	e1.7	2.7	1.3	1.2	.90	1.0	.95
20	3.3	e2.9	e2.7	e2.5	e2.1	e1.7	2.8	1.3	1.1	1.0	.99	1.0
21	3.5	e2.9	e2.7	e2.5	e2.1	e1.7	2.8	1.3	1.1	2.1	1.0	1.0
22	e3.3	e2.9	e2.7	e2.4	e2.1	e1.7	2.6	1.2	1.1	1.6	.93	.93
23	e3.4	e2.9	e2.7	e2.4	e2.1	e1.7	2.5	1.2	.94	1.4	.98	.76
24	e3.4	e2.9	e2.7	e2.4	e2.0	e1.7	2.8	1.3	1.1	1.3	.83	.92
25	e3.4	e2.9	e2.7	e2.4	e1.9	e1.8	2.2	1.1	1.1	1.1	.85	.90
26	e3.5	e2.9	e2.7	e2.4	e1.9	e1.9	2.4	1.2	1.1	1.1	.88	.89
27	e3.5	e2.9	e2.7	e2.4	e1.9	1.8	2.2	1.2	1.1	1.3	.91	.90
28	e3.5	e2.9	e2.7	e2.4	e1.9	2.1	1.7	1.0	.94	1.3	.90	.88
29	e3.4	e2.9	e2.7	e2.4	---	1.9	1.5	1.1	1.1	1.2	.90	.90
30	e3.3	e2.9	e2.7	e2.4	---	1.9	1.2	1.2	1.1	1.1	.94	.90
31	e3.2	---	e2.7	e2.4	---	1.7	---	1.2	---	1.1	.88	---
TOTAL	104.0	91.6	84.5	76.6	60.2	55.5	68.7	37.7	31.37	35.01	34.19	29.51
MEAN	3.35	3.05	2.73	2.47	2.15	1.79	2.29	1.22	1.05	1.13	1.10	.98
MAX	3.6	3.3	2.9	2.6	2.4	2.1	3.1	1.4	1.2	2.1	1.4	1.2
MIN	2.8	2.9	2.7	2.4	1.9	1.7	1.2	1.0	.91	.90	.83	.76
AC-FT	206	182	168	152	119	110	136	75	62	69	68	59

CAL YR 1986 TOTAL 1231.86 MEAN 3.37 MAX 6.9 MIN .42 AC-FT 2440
WTR YR 1987 TOTAL 708.88 MEAN 1.94 MAX 3.6 MIN .76 AC-FT 1410

e Estimated.

COLORADO RIVER BASIN

09415590 CRYSTAL SPRING NEAR HIKO, NV

LOCATION.--Lat 37°31'55, long 115°13'54", in SE1/4NE1/4 sec.10, T.5, S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on right bank 75 ft south of Highway 25, 200 ft southeast of junction of Highway 38, and 4.5 mi south of Hiko.

PERIOD OF RECORD.--September 1985 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 3,800 ft, from topographic map.

REMARKS.--Records good. Diversion for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16 ft^3/s, Aug. 23, 1987, gage height, 1.21 ft; minimum daily, 2.0 ft^3/s, many days in 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft^3/s, Aug. 23, gage height, 1.21 ft; minimum daily, 2.0 ft^3/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	3.0	11	11	11	11	11	11	e10	11	12	2.0
2	13	3.0	11	11	11	11	11	11	e10	11	12	2.0
3	13	3.0	11	11	11	11	11	11	e10	11	12	2.0
4	13	3.0	11	11	11	11	11	11	e10	11	5.8	2.0
5	13	3.1	11	11	11	11	11	8.6	10	10	2.5	2.0
6	13	3.1	11	11	11	11	11	6.5	7.7	2.0	2.7	2.0
7	13	3.1	11	11	11	11	11	9.1	7.6	2.0	2.6	2.0
8	13	3.1	11	11	11	11	11	11	7.6	2.0	8.8	9.2
9	13	3.1	11	11	11	11	11	11	7.8	2.0	12	12
10	13	3.1	e11	11	11	11	11	11	8.0	2.0	12	13
11	13	3.1	e11	11	11	11	11	11	8.2	2.0	12	13
12	13	3.1	11	11	11	11	11	11	6.7	2.0	12	13
13	13	3.1	11	11	11	11	11	11	5.4	8.1	12	13
14	13	3.1	11	11	11	11	11	11	3.0	11	13	13
15	13	8.2	11	11	11	11	11	11	3.0	11	12	13
16	13	11	11	11	11	11	11	12	3.0	11	13	13
17	13	11	11	11	11	11	11	12	2.9	11	5.5	13
18	13	11	11	11	11	11	11	11	3.0	11	2.8	13
19	13	11	11	11	11	11	11	e11	2.9	11	2.7	13
20	13	11	11	11	11	11	6.4	e11	2.9	12	2.7	13
21	13	11	11	11	11	11	8.9	e11	2.9	12	9.6	13
22	13	11	11	11	11	11	10	e11	2.9	11	12	13
23	13	11	11	11	11	11	11	e11	2.9	12	13	13
24	13	11	11	11	11	11	11	e11	8.6	12	12	13
25	13	11	11	11	11	5.0	11	e11	11	12	12	13
26	6.8	11	11	11	11	2.1	11	e10	11	12	13	13
27	3.2	11	11	11	11	2.0	11	e10	11	12	13	13
28	3.1	11	11	11	11	2.0	11	e10	11	12	13	13
29	3.1	11	11	11	---	2.0	11	e10	11	12	13	13
30	3.0	11	11	11	---	3.1	11	e10	11	12	13	13
31	3.0	---	11	11	---	9.5	---	e10	---	12	5.6	---
TOTAL	347.2	216.2	341	341	308	289.7	322.3	328.2	213.0	285.1	299.3	308.2
MEAN	11.2	7.21	11.0	11.0	11.0	9.35	10.7	10.6	7.10	9.20	9.65	10.3
MAX	13	11	11	11	11	11	11	12	11	12	13	13
MIN	3.0	3.0	11	11	11	2.0	6.4	6.5	2.9	2.0	2.5	2.0
AC-FT	689	429	676	676	611	575	639	651	422	565	594	611

CAL YR 1986 TOTAL 3577.9 MEAN 9.80 MAX 13 MIN 2.6 AC-FT 7100
WTR YR 1987 TOTAL 3599.2 MEAN 9.86 MAX 13 MIN 2.0 AC-FT 7140

e Estimated.

VIRGIN RIVER BASIN

09415900 MUDDY SPRING AT L.D.S FARM NEAR MOAPA, NV

LOCATION.--Lat 36°43'18", long 114°42'53", in SE1/4NE1/4 sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on right bank 0.1 mi downstream from L.D.S. mansion, and 6 mi northwest of Moapa.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft, from topographic map.

REMARKS.--Records good. Regulation for recreational purposes occurs 0.1 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft^3/s, Feb. 1, 1986, gage height, 1.67 ft; minimum daily, 7.2 ft^3/s, Mar. 27, Apr. 13, July 9, 13-15, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft^3/s, Oct. 6, gage height, 1.54 ft; minimum daily, 7.2 ft^3/s, Mar. 27, Apr. 13, July 9, 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	e7.5	7.5	7.5	7.6	7.7	7.5	e7.7	7.6	7.3	7.4	7.8
2	7.5	e7.5	7.5	7.5	8.4	7.9	e7.5	7.6	7.3	7.3	7.7	7.3
3	7.5	e7.5	7.5	7.5	8.1	7.8	e7.5	7.6	7.4	7.3	7.4	e7.3
4	7.5	e7.5	7.5	e7.5	8.1	7.5	e7.5	7.6	7.5	7.2	7.5	e7.3
5	7.5	e7.5	7.5	e7.5	7.9	7.7	e7.5	8.1	7.5	7.8	7.4	e7.3
6	e7.5	e7.5	7.5	e7.5	8.0	7.4	e7.5	7.6	7.9	7.7	7.4	e7.3
7	e7.5	e7.5	7.6	e7.5	7.6	7.3	e7.5	7.7	8.0	7.7	7.5	e7.3
8	e7.5	e7.5	7.6	e7.5	7.6	7.8	e7.5	8.1	7.4	7.3	7.5	e7.3
9	e7.5	e7.5	7.6	e7.5	7.6	7.9	e7.5	7.9	7.5	7.2	7.3	e7.3
10	e7.5	e7.5	7.6	e7.5	8.1	7.7	e7.4	8.0	7.5	7.3	7.4	e7.3
11	e7.5	e7.5	7.6	e7.5	7.6	7.6	7.4	7.6	7.4	7.9	7.4	e7.3
12	e7.5	e7.5	7.6	e7.5	7.6	7.3	7.3	7.5	7.4	7.7	7.4	e7.3
13	e7.5	e7.5	7.5	e7.6	7.6	7.3	7.2	7.5	7.6	7.2	7.4	e7.3
14	e7.5	e7.5	7.5	e7.6	7.6	7.6	7.4	7.6	7.4	7.2	7.4	e7.3
15	e7.5	e7.5	7.6	e7.6	7.6	7.7	7.3	7.7	7.4	7.2	7.4	e7.3
16	e7.5	e7.5	7.5	e7.6	7.8	7.5	7.3	7.7	7.4	7.3	7.7	e7.3
17	e7.5	e7.5	7.6	e7.6	8.0	8.1	7.3	7.8	7.4	7.3	7.8	e7.3
18	e7.5	7.5	7.5	e7.6	8.0	7.8	7.3	7.5	7.4	7.3	7.9	e7.4
19	e7.5	7.6	7.5	e7.6	8.0	7.8	7.3	7.5	7.4	7.5	7.5	e7.4
20	e7.5	7.6	7.5	e7.6	7.6	7.4	7.7	7.5	7.8	7.3	7.6	e7.4
21	e7.5	7.6	7.5	e7.6	7.8	7.6	7.5	7.5	7.9	7.3	7.3	e7.4
22	e7.5	7.6	7.5	e7.6	7.9	7.7	7.4	7.5	7.6	7.3	7.7	e7.4
23	e7.5	7.5	7.5	e7.6	8.0	7.7	7.3	7.5	7.4	7.3	7.9	e7.4
24	e7.5	7.6	7.5	e7.6	8.0	7.6	7.8	7.5	7.4	7.3	7.4	e7.4
25	e7.5	7.6	7.5	e7.6	8.0	7.4	7.7	7.5	7.4	7.3	7.4	e7.4
26	e7.5	7.6	7.5	e7.6	8.0	7.5	7.8	7.7	7.3	7.7	7.4	e7.4
27	e7.5	7.6	7.5	e7.6	7.5	7.2	7.6	7.4	7.5	7.3	7.4	e7.5
28	e7.5	7.6	7.5	7.6	7.5	7.3	7.7	7.5	7.8	7.4	7.4	e7.6
29	e7.5	7.5	7.5	7.6	---	7.8	7.5	7.5	7.3	7.5	7.5	e7.6
30	e7.5	7.5	7.5	7.6	---	7.3	7.8	7.4	7.3	7.5	7.8	e7.6
31	e7.5	---	7.5	7.6	---	7.7	---	7.7	---	7.5	8.0	---
TOTAL	232.7	225.9	233.3	234.4	219.1	235.6	224.5	236.5	225.1	229.4	233.2	221.5
MEAN	7.51	7.53	7.53	7.56	7.82	7.60	7.48	7.63	7.50	7.40	7.52	7.38
MAX	7.7	7.6	7.6	7.6	8.4	8.1	7.8	8.1	8.0	7.9	8.0	7.8
MIN	7.5	7.5	7.5	7.5	7.5	7.2	7.2	7.4	7.3	7.2	7.3	7.3
AC-FT	462	448	463	465	435	467	445	469	446	455	463	439

CAL YR 1986 TOTAL 2774.9 MEAN 7.60 MAX 8.5 MIN 7.4 AC-FT 5500
WTR YR 1987 TOTAL 2751.2 MEAN 7.54 MAX 8.4 MIN 7.2 AC-FT 5460

e Estimated.

VIRGIN RIVER BASIN

09415910 PEDERSON SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE1/4NE1/4 sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder and 45° V-notch weir. Elevation of gage is 1,800 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.24 ft^3/s, June 5, 1987, gage height, 0.56 ft; minimum daily, 0.20 ft^3/s, many days in 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.24 ft^3/s, June 5, gage height, 0.56 ft; minimum daily, 0.20 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.21	.20	.21	.21	.21	.22	.22	.21	.21	.22	.22
2	.21	.21	.21	.20	.22	.21	.22	.22	.21	.21	.22	.22
3	.21	.21	.21	.21	.21	.21	.22	.21	.21	.21	.22	.22
4	.21	.21	.21	.21	.21	.21	.22	.21	.21	.21	.22	.22
5	.21	.21	.21	.21	.21	.21	.21	.21	.21	.21	.22	.22
6	.21	.21	.21	.21	.21	.21	.22	.21	.21	.21	.22	.22
7	.21	.21	.21	.21	.22	.22	.22	.21	.21	.21	.22	.21
8	.21	.20	.21	.21	.22	.21	.22	.21	.21	.21	.23	.21
9	.22	.20	.20	.21	.22	.21	.22	.22	.21	.21	.21	.21
10	.22	.20	.20	.21	.22	.21	.22	.22	.21	.21	.21	.21
11	.21	.20	.20	.21	.22	.21	.22	.21	.21	.21	.21	.21
12	.21	.21	.20	.21	.22	.21	.22	.21	.21	.21	.21	.21
13	.21	.21	.20	.21	.22	.22	.22	.22	.21	.21	.21	.21
14	.21	.21	.21	.21	.21	.22	.22	.21	.22	.21	.21	.20
15	.21	.21	.20	.22	.22	.22	.22	.21	.21	.21	.21	.20
16	.21	.21	.21	.21	.21	.22	.22	.21	.21	.21	.21	.21
17	.21	.21	.21	.21	.21	.21	.23	.21	.21	.21	.21	.21
18	.21	.21	.21	.21	.22	.22	.23	.21	.21	.21	.21	.22
19	.21	.21	.21	.21	.21	.22	.22	.21	.21	.21	.21	.22
20	.20	.20	.21	.21	.21	.21	.22	.21	.21	.22	.21	.21
21	.20	.21	.20	.21	.21	.22	.22	.21	.21	.22	.21	.21
22	.21	.20	.21	.21	.21	.21	.23	.21	.21	.22	.21	.21
23	.20	.20	.21	.21	.22	.21	.23	.21	.21	.22	.21	.21
24	.20	.21	.21	.21	.21	.21	.23	.21	.21	.22	.21	.22
25	.21	.21	.21	.20	.21	.21	.22	.22	.21	.22	.21	.22
26	.21	.20	.20	.20	.21	.21	.22	.21	.21	.22	.21	.22
27	.21	.20	.21	.21	.20	.21	.22	.21	.21	.22	.21	.22
28	.21	.20	.21	.22	.21	.21	.22	.21	.21	.22	.21	.21
29	.21	.21	.20	.21	---	.21	.22	.21	.21	.22	.21	.21
30	.21	.20	.20	.22	---	.21	.22	.21	.21	.22	.22	.21
31	.21	---	.21	.21	---	.22	---	.21	---	.22	.22	---
TOTAL	6.49	6.19	6.40	6.51	5.98	6.60	6.64	6.57	6.31	6.63	6.62	6.40
MEAN	.21	.21	.21	.21	.21	.21	.22	.21	.21	.21	.21	.21
MAX	.22	.21	.21	.22	.22	.22	.23	.22	.22	.22	.23	.22
MIN	.20	.20	.20	.20	.20	.21	.21	.21	.21	.21	.21	.20
AC-FT	13	12	13	13	12	13	13	13	13	13	13	13

CAL YR 1986 TOTAL 19.08 MEAN .21 MAX .22 MIN .20 AC-FT 38
WTR YR 1987 TOTAL 77.34 MEAN .21 MAX .23 MIN .20 AC-FT 153

VIRGIN RIVER BASIN

09415920 WARM SPRINGS WEST NEAR MOAPA, NV

LOCATION.--Lat 36°42'41", long 114°42'48", in SE1/4SE1/4 sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank at U.S. Fish and Wildlife Station, 0.6 mi upstream from confluence with Muddy River, 1.9 mi west of State Highway 168, and 6.5 mi northwest of Moapa.

PERIOD OF RECORD.--August 1985 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,770 ft, from topographic map.

REMARKS.--Records good. Diversion for irrigation and fish hatchery above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.3 ft^3/s, Aug. 2, 1986, gage height, 1.2 ft; minimum daily, 3.2 ft^3/s, Dec. 10-17, 1985.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 5.2 ft^3/s, Apr. 14, gage height, 1.25 ft; minimum daily, 3.4 ft^3/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.6	3.7	3.9	3.6	3.7
2	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.7	3.9	3.6	3.7
3	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.7	3.9	3.6	3.7
4	3.4	3.5	3.5	3.6	3.6	3.5	3.6	3.6	4.0	3.9	3.6	3.7
5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	4.0	3.9	3.6	3.7
6	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.6	3.9	3.9	3.6	3.7
7	3.5	3.5	3.5	3.5	3.6	3.5	3.5	3.6	4.0	3.9	3.6	3.7
8	3.5	3.4	3.5	3.5	3.6	3.5	3.6	3.6	3.9	4.0	3.6	3.7
9	3.5	3.4	3.4	3.5	3.6	3.5	3.6	3.6	3.9	4.0	3.6	3.7
10	3.5	3.4	3.4	3.5	3.6	3.5	3.6	3.6	3.9	4.0	3.6	3.7
11	3.5	3.5	3.4	3.5	3.6	3.5	3.6	3.6	3.9	4.0	3.6	3.7
12	3.4	3.5	3.4	3.5	3.6	3.5	3.5	3.6	3.9	3.9	3.6	3.7
13	3.4	3.5	3.4	3.6	3.6	3.5	3.5	3.6	3.9	3.8	3.6	3.7
14	3.5	3.5	3.4	3.5	3.8	3.5	3.6	3.6	3.9	3.9	3.7	3.7
15	3.4	3.5	3.4	3.6	3.8	3.5	3.5	3.6	3.8	3.8	3.6	3.7
16	3.5	3.5	3.4	3.6	3.5	3.6	3.6	3.6	3.8	3.8	3.6	3.7
17	3.5	3.5	3.4	3.5	3.5	3.6	3.6	3.6	3.8	3.9	3.6	3.7
18	3.5	3.5	3.5	3.5	3.6	3.7	3.6	3.7	3.8	3.8	3.7	3.7
19	3.5	3.5	3.5	3.6	3.5	3.7	3.5	3.7	3.9	3.9	3.7	3.7
20	3.5	3.5	3.5	3.6	3.6	3.7	3.5	3.7	3.8	3.9	3.7	3.7
21	3.5	3.5	3.4	3.6	3.6	3.6	3.5	3.7	3.8	3.7	3.7	3.5
22	3.5	3.5	3.5	3.6	3.6	3.7	3.5	3.7	3.9	3.7	3.6	3.6
23	3.5	3.5	3.5	3.6	3.7	3.6	3.5	3.7	3.8	3.6	3.7	3.9
24	3.5	3.5	3.5	3.6	3.7	3.6	3.5	3.8	3.8	3.6	3.7	4.0
25	3.5	3.5	3.5	3.6	3.7	3.6	3.6	3.8	3.9	3.6	3.7	4.0
26	3.5	3.5	3.5	3.6	3.7	3.6	3.6	3.7	3.9	3.6	3.7	4.0
27	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.7	4.0	3.6	3.7	4.0
28	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.7	3.9	3.6	3.7	3.9
29	3.5	3.5	3.5	3.6	---	3.6	3.6	3.8	4.0	3.6	3.7	3.9
30	3.5	3.5	3.5	3.6	---	3.6	3.6	3.7	4.0	3.6	3.7	3.9
31	3.5	---	3.5	3.6	---	3.6	---	3.7	---	3.6	3.7	---
TOTAL	108.1	104.7	107.5	110.3	101.3	111.0	107.0	113.3	116.2	117.8	113.0	112.7
MEAN	3.49	3.49	3.47	3.56	3.62	3.58	3.57	3.65	3.87	3.80	3.65	3.76
MAX	3.5	3.5	3.5	3.6	3.8	3.7	3.7	3.8	4.0	4.0	3.7	4.0
MIN	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.6	3.7	3.6	3.6	3.5
AC-FT	214	208	213	219	201	220	212	225	230	234	224	224

CAL YR 1986 TOTAL 1275.8 MEAN 3.50 MAX 3.8 MIN 3.3 AC-FT 2530
WTR YR 1987 TOTAL 1322.9 MEAN 3.62 MAX 4.0 MIN 3.4 AC-FT 2620

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE1/4SE1/4 sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, 9.5 mi upstream from Meadow Valley Wash, and 26 mi upstream from high-water line of Lake Mead at elevation 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--3,820 mi^2, approximately, of which about 40 mi^2 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. Elevation of gage is 1,710 ft, from river-profile map. October 21, 1944, to September 30, 1948, water-stage recorder at datum 0.08 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation above station. Beginning Oct. 1, 1976, records do not include part-time diversion about 100 ft upstream, for cooling of powerplant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

AVERAGE DISCHARGE.--39 years (1913-15, 1916-18, 1928-31, 1944-76), 41.5 ft^3/s, 32,670 acre-ft/yr, adjusted for flow which bypasses stream due to pump about 100 ft upstream which diverts water part of the time for power-plant cooling.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft^3/s, Sept. 7, 1967, gage height, 12.35 ft; minimum daily, 20 ft^3/s, Oct. 13, 1985, and Aug. 21, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62 ft^3/s, May 7, gage height, 1.17 ft; minimum daily, 29 ft^3/s, Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	34	41	45	43	41	35	37	32	36	35	32
2	39	34	38	43	42	41	30	38	30	36	36	32
3	37	39	41	45	41	40	32	35	31	34	36	32
4	35	36	40	43	45	40	35	35	31	34	36	33
5	34	38	36	42	39	39	40	41	31	33	36	33
6	35	35	34	44	42	38	46	42	37	34	37	34
7	36	38	38	45	44	37	45	50	42	34	37	34
8	34	38	42	45	42	38	38	42	41	33	37	34
9	33	39	41	41	38	38	37	40	44	34	37	34
10	33	37	41	40	38	37	37	41	44	34	37	35
11	31	34	43	43	38	37	41	43	42	35	36	35
12	34	38	42	46	38	37	42	41	40	35	36	34
13	30	38	41	43	37	38	43	40	38	36	37	34
14	30	38	43	41	39	37	42	41	39	35	37	36
15	33	37	41	44	35	36	36	40	37	34	36	35
16	29	34	39	41	38	36	36	42	37	34	37	34
17	32	36	43	40	41	35	36	46	37	36	33	33
18	32	36	44	40	37	38	37	44	38	35	31	33
19	30	35	44	43	42	39	35	42	36	34	31	33
20	33	34	45	43	42	39	37	41	34	34	32	34
21	35	34	44	40	43	38	37	40	36	34	31	35
22	34	35	40	41	42	39	42	41	34	34	30	36
23	36	38	42	45	42	41	42	40	30	35	32	37
24	35	37	42	44	43	42	41	40	33	34	33	36
25	39	35	45	42	45	38	41	40	31	33	32	36
26	39	37	44	40	44	39	44	39	31	34	31	36
27	36	37	42	41	42	38	38	40	31	34	32	35
28	37	40	40	39	41	39	41	40	30	34	32	35
29	34	42	42	42	---	39	42	40	30	35	33	35
30	36	41	42	44	---	38	41	39	31	34	32	35
31	36	---	43	44	---	34	---	35	---	34	32	---
TOTAL	1065	1104	1283	1319	1143	1186	1169	1255	1058	1065	1060	1030
MEAN	34.4	36.8	41.4	42.5	40.8	38.3	39.0	40.5	35.3	34.4	34.2	34.3
MAX	39	42	45	46	45	42	46	50	44	36	37	37
MIN	29	34	34	39	35	34	30	35	30	33	30	32
AC-FT	2110	2190	2540	2620	2270	2350	2320	2490	2100	2110	2100	2040

CAL YR 1986 TOTAL 13373 MEAN 36.6 MAX 68 MIN 20 AC-FT 26530
WTR YR 1987 TOTAL 13737 MEAN 37.6 MAX 50 MIN 29 AC-FT 27250

VIRGIN RIVER BASIN

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°33'20", long 114°33'50", in NE1/4 sec.35 T.4 S., R.66 E., Lincoln County, Hydrologic Unit 15010013, on right bank 0.5 mi east of Etna, 4.5 mi southwest of Caliente, and 6 mi downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi^2.

PERIOD OF RECORD.--January 1951 to September 1960, November 1964 to September 1983, and October 1984 to current year.

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

REMARKS.--Records fair except for periods of estimated discharge, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--30 years (1951-60, 1965-83, 1985-87), 11.7 ft^3/s, 8,480 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft^3/s, Mar. 5, 1978, gage height, 9.41 ft, from floodmarks; no flow July 26-28, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 15	0515	*45	*5.76				

Minimum daily, 0.87 ft^3/s, July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	3.6	4.1	4.3	11	e10	7.7	1.2	2.4	1.2	1.6	1.0
2	1.8	3.5	3.9	4.1	12	e13	10	1.2	2.4	.87	1.5	.95
3	1.7	3.4	3.7	3.8	10	11	5.9	1.2	2.3	.89	1.8	.97
4	1.5	3.4	3.6	e3.6	10	8.7	6.2	1.2	2.1	.94	1.8	.88
5	1.6	3.5	3.9	e3.6	9.7	7.4	6.6	1.2	2.0	1.1	1.8	1.1
6	1.8	3.6	4.3	e3.6	9.2	6.7	6.2	1.1	2.4	1.1	1.4	1.1
7	1.7	3.4	4.4	e3.5	8.3	6.5	5.6	1.3	2.5	1.1	1.3	1.1
8	1.7	3.4	4.3	e3.5	8.2	6.7	5.9	1.5	2.3	.98	2.4	1.0
9	1.6	3.3	4.2	e3.4	8.8	7.2	5.4	1.5	2.0	.97	3.7	.99
10	1.6	3.3	3.9	e3.4	7.3	8.0	2.0	1.4	1.9	1.1	1.5	1.1
11	1.7	3.3	3.7	e3.4	7.1	7.4	1.8	1.4	1.7	1.1	1.3	1.2
12	1.7	3.2	3.4	e3.4	9.8	6.4	1.8	1.7	1.5	1.6	1.4	1.2
13	1.7	3.2	3.3	e3.4	10	5.7	1.9	1.8	1.5	2.0	1.5	1.3
14	1.7	3.2	3.5	e3.4	11	5.6	1.9	1.6	1.4	1.4	1.5	1.4
15	1.6	3.2	3.7	e3.4	18	6.1	1.9	1.7	1.2	1.3	1.5	1.3
16	1.8	3.3	3.9	e3.4	14	6.5	1.6	2.1	1.2	1.3	1.6	1.3
17	1.9	3.4	4.2	e3.4	11	6.2	1.7	2.8	1.4	2.0	1.6	1.1
18	1.9	3.8	4.6	e3.4	8.2	5.9	1.6	3.4	1.4	1.6	1.6	1.2
19	2.2	3.9	4.8	e3.4	7.1	6.6	1.7	2.2	1.3	2.3	1.5	1.2
20	2.3	3.8	5.6	e3.5	6.3	7.3	1.9	1.9	1.4	2.8	1.5	1.2
21	3.3	3.7	5.6	e3.5	6.3	8.1	2.0	1.8	1.2	3.7	1.5	1.2
22	3.3	3.4	5.7	3.7	6.2	12	1.9	1.8	1.2	2.6	1.3	1.2
23	3.1	3.5	5.6	3.9	6.4	14	2.0	1.9	1.2	2.5	1.3	1.2
24	3.2	3.7	5.6	3.8	6.0	15	2.2	1.9	1.1	2.8	1.4	1.3
25	3.1	3.7	4.7	3.9	5.6	14	4.0	2.0	1.4	2.6	1.4	1.3
26	3.2	3.6	4.8	4.0	6.3	11	4.4	2.5	1.3	2.1	1.2	1.2
27	3.2	3.8	4.9	4.6	6.7	9.6	4.0	3.4	1.3	2.2	1.3	1.2
28	3.1	3.8	4.8	6.9	7.6	7.9	3.3	3.9	1.6	2.4	1.4	1.2
29	3.1	3.9	4.6	8.5	---	7.1	1.3	3.7	1.4	2.5	1.4	1.2
30	3.0	4.2	4.5	10	---	6.8	1.4	3.1	1.4	2.3	1.3	1.2
31	3.0	---	4.4	11	---	6.9	---	2.7	---	2.1	1.1	---
TOTAL	69.8	106.0	136.2	134.7	248.1	261.3	105.8	62.1	49.4	55.45	48.4	34.79
MEAN	2.25	3.53	4.39	4.35	8.86	8.43	3.53	2.00	1.65	1.79	1.56	1.16
MAX	3.3	4.2	5.7	11	18	15	10	3.9	2.5	3.7	3.7	1.4
MIN	1.5	3.2	3.3	3.4	5.6	5.6	1.3	1.1	1.1	.87	1.1	.88
AC-FT	138	210	270	267	492	518	210	123	98	110	96	69

CAL YR 1986 TOTAL 1622.1 MEAN 4.44 MAX 39 MIN 1.1 AC-FT 3220
WTR YR 1987 TOTAL 1312.04 MEAN 3.59 MAX 18 MIN .87 AC-FT 2600

e Estimated.

VIRGIN RIVER BASIN

09418700 MEADOW VALLEY WASH NEAR ROX, NV

LOCATION.--Lat 36°52'11", long 114°26'33", T.12 S., R.65 E., Lincoln County, Hydrologic Unit 15010013, on right bank, on downstream side of service road wingwall, 4.1 mi north of Farrier, and 0.5 mi south of Rox.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--February 1987 to September 1987.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3.6 ft^3/s, Mar. 22, 1987, gage height, 1.22 ft; minimum daily, 0.14 ft^3/s, Aug. 9, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.6 ft^3/s, Mar. 22, gage height, 1.22 ft; minimum daily, 0.14 ft^3/s, Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	1.7	2.3	1.4	.86	.32	.38	.36
2	---	---	---	---	---	1.7	2.2	1.5	.80	.33	.38	.38
3	---	---	---	---	---	1.7	2.2	1.5	.73	.34	.37	.38
4	---	---	---	---	---	1.7	2.3	1.4	.73	.34	.38	.40
5	---	---	---	---	---	1.8	2.2	1.4	.71	.34	.38	.40
6	---	---	---	---	1.6	1.8	2.2	1.3	.80	.35	.37	.39
7	---	---	---	---	1.6	1.8	2.1	1.2	.88	.35	.36	.39
8	---	---	---	---	1.6	1.9	2.1	1.2	.78	.33	.30	.39
9	---	---	---	---	1.6	2.0	2.0	1.3	.64	.32	.14	.39
10	---	---	---	---	1.6	2.0	2.0	1.2	.70	.32	.18	.40
11	---	---	---	---	1.6	1.9	2.1	1.2	.62	.32	.18	.39
12	---	---	---	---	1.6	1.9	2.1	1.1	.58	.32	.18	.39
13	---	---	---	---	1.6	1.9	2.1	1.1	.57	.31	.27	.43
14	---	---	---	---	1.6	1.9	2.1	1.1	.55	.30	.31	.48
15	---	---	---	---	1.6	2.0	2.0	1.1	.60	.31	.32	.46
16	---	---	---	---	1.6	2.0	1.9	1.7	.66	.35	.35	.45
17	---	---	---	---	1.6	2.0	1.9	1.7	.55	.41	.36	.43
18	---	---	---	---	1.6	2.0	1.8	1.4	.33	.44	.35	.38
19	---	---	---	---	1.6	2.0	1.7	1.3	.35	.52	.34	.36
20	---	---	---	---	1.6	2.1	1.8	1.1	.35	.57	.32	.38
21	---	---	---	---	1.6	2.1	1.8	1.1	.36	.62	.32	.38
22	---	---	---	---	1.7	2.9	1.8	1.0	.29	.52	.33	.37
23	---	---	---	---	1.7	2.3	1.8	1.0	.29	.51	.35	.37
24	---	---	---	---	1.8	2.3	1.8	1.0	.30	.47	.36	.38
25	---	---	---	---	1.9	2.3	1.7	1.0	.33	.46	.36	.39
26	---	---	---	---	1.9	2.2	1.6	1.0	.35	.41	.34	.37
27	---	---	---	---	1.7	2.2	1.6	1.1	.33	.48	.32	.36
28	---	---	---	---	1.6	2.3	1.5	1.1	.32	.56	.30	.33
29	---	---	---	---	---	2.3	1.5	1.2	.33	.53	.31	.31
30	---	---	---	---	---	2.3	1.6	1.0	.33	.49	.32	.32
31	---	---	---	---	---	2.3	---	.95	---	.44	.39	---
TOTAL	---	---	---	---	---	63.3	57.8	37.65	16.02	12.68	9.92	11.61
MEAN	---	---	---	---	---	2.04	1.93	1.21	.53	.41	.32	.39
MAX	---	---	---	---	---	2.9	2.3	1.7	.88	.62	.39	.48
AC-FT	---	---	---	---	---	126	115	75	32	25	20	23

VIRGIN RIVER BASIN

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in SW1/4 sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank at the Narrows, 150 ft downstream from Weiser Wash, 2 mi southeast of Glendale, 2.4 mi downstream from Meadow Valley Wash, 4.5 mi northwest of Logandale, and 16 mi upstream from high-water line of Lake Mead at elevation 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--6,780 mi^2, approximately, of which about 3,000 mi^2 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 September 1983, and October 1984 to current year.

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

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

REMARKS.--Records good except for estimated daily discharges and those discharges above 50 ft^3/s, which are poor.

AVERAGE DISCHARGE.--36 years (water years 1951-83, 1987), 44.8 ft^3/s, 32,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft^3/s, Aug. 10, 1981, gage height, 27.10 ft, from rating curve extended above 7,400 ft^3/s on basis of slope-area measurements of peak flow; minimum, 7.6 ft^3/s, Sept. 29, 1964, result of temporary storage upstream.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 210 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 2	1130	*81	*4.91				

Minimum daily, 24 ft^3/s, many days in June, July, and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	38	47	56	46	50	42	30	31	29	28	29
2	38	37	43	52	48	50	39	34	26	27	29	29
3	36	40	47	53	45	49	37	33	28	29	28	29
4	e34	40	47	52	50	49	38	30	29	27	26	30
5	e33	40	44	52	47	49	41	29	26	29	24	32
6	e34	38	38	54	46	49	46	33	30	29	26	32
7	e35	38	43	56	50	47	46	34	33	28	24	31
8	e33	40	46	54	53	50	39	34	33	28	26	29
9	e32	41	46	54	50	49	39	33	30	28	26	29
10	e32	41	47	51	48	48	38	34	27	26	26	28
11	e30	36	49	54	49	44	37	35	27	29	24	30
12	e33	41	49	e57	49	41	38	34	29	29	25	30
13	e30	42	50	e53	53	38	39	33	29	26	26	28
14	e30	40	49	e51	48	40	39	32	31	24	26	31
15	e33	40	49	e54	53	37	34	32	30	25	28	31
16	e29	38	47	e50	e46	37	34	36	25	24	29	32
17	e32	39	48	e49	e49	38	33	39	24	25	26	31
18	e32	39	49	e49	e52	38	32	39	28	29	26	31
19	e30	40	49	e51	e47	40	31	37	27	29	26	31
20	e33	39	48	e51	e52	43	32	37	27	29	27	33
21	e35	40	50	e48	e51	43	32	36	26	28	25	32
22	e34	39	46	e48	e52	43	34	36	28	24	26	31
23	e36	40	42	e52	e50	44	33	36	25	24	29	32
24	e36	45	46	e51	e50	47	33	36	25	24	30	31
25	e40	38	49	e48	53	42	31	37	25	24	26	32
26	e40	42	48	e46	53	40	40	35	24	24	25	32
27	e37	42	48	e47	51	41	36	36	26	24	25	32
28	e38	44	44	46	49	41	33	36	26	24	24	30
29	e35	45	48	46	---	45	36	35	25	28	28	31
30	e37	46	56	49	---	43	35	35	24	29	32	31
31	37	---	52	49	---	41	---	34	---	25	30	---
TOTAL	1061	1208	1464	1583	1390	1356	1097	1070	824	827	826	920
MEAN	34.2	40.3	47.2	51.1	49.6	43.7	36.6	34.5	27.5	26.7	26.6	30.7
MAX	40	46	56	57	53	50	46	39	33	29	32	33
MIN	29	36	38	46	45	37	31	29	24	24	24	28
AC-FT	2100	2400	2900	3140	2760	2690	2180	2120	1630	1640	1640	1820

CAL YR 1986 TOTAL 13547 MEAN 37.1 MAX 139 MIN 22 AC-FT 26870
WTR YR 1987 TOTAL 13626 MEAN 37.3 MAX 57 MIN 24 AC-FT 27030

e Estimated.

VIRGIN RIVER BASIN

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

LOCATION.--Lat 36°31'21", long 114°24'49", in SE1/4SW1/4 sec.20, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010005 on right bank in Overton State Wildlife Management Area, 0.8 mi downstream from diversion dam, 2.3 mi southeast of Overton, and 1 mi downstream from high-water line of Lake Mead at elevation 1,221.4 ft, National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,310 mi^2, approximately, of which about 4,300 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 30, 1983, and October 1984 to current year.

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

REMARKS.--Records poor.

AVERAGE DISCHARGE.--8 years, 8.86 ft^3/s, 6,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft^3/s, Aug. 11, 1981, gage height, 16.54 ft, from rating curve extended above 436 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.32 ft^3/s, Dec. 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft^3/s, Feb. 5, gage height, 7.67 ft; minimum daily, 1.4 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.2	e2.0	4.5	18	26	4.6	e3.2	e3.5	e3.5	e3.0	e3.1
2	1.7	3.3	e1.8	4.4	16	25	3.9	e3.0	e3.5	e3.5	e3.0	e3.1
3	5.7	3.3	e1.9	4.2	15	25	3.8	e3.2	e3.5	e3.4	e3.1	e3.1
4	7.2	2.4	e1.8	4.3	17	20	5.3	e5.7	e3.4	e3.3	e3.2	e3.1
5	5.7	2.4	e1.7	5.2	32	20	5.1	e3.8	e3.3	e3.3	e3.3	e3.1
6	3.3	2.4	e1.9	5.2	33	23	4.1	4.9	e3.2	e3.3	e3.5	e3.1
7	3.4	e2.3	e2.1	4.9	41	22	4.4	4.9	e3.2	e3.3	e6.0	e3.1
8	3.8	e2.3	e4.0	5.1	41	19	4.0	e3.3	e3.1	e3.3	11	e3.1
9	4.0	e2.3	e3.6	5.0	20	23	4.2	e4.2	e3.1	e3.4	10	e3.1
10	4.2	e2.4	e3.7	5.0	19	24	4.7	5.1	e3.1	e3.7	8.4	e3.1
11	4.5	e2.3	e3.5	5.1	20	24	3.4	e4.8	e3.1	4.6	6.5	e3.1
12	5.0	e2.3	e3.7	5.5	22	20	4.0	e3.6	e3.1	4.3	5.8	e3.2
13	5.3	e2.2	e3.8	5.6	19	15	3.7	e3.4	e3.1	4.8	6.0	e3.5
14	5.1	e2.1	e3.7	5.8	18	13	4.9	e4.2	e3.1	e3.5	7.6	e3.8
15	5.0	e2.1	e3.2	5.3	20	9.5	5.0	5.1	e3.2	e3.2	6.5	5.9
16	4.6	e2.2	e3.6	5.1	17	7.7	3.8	e3.7	e3.3	e3.0	12	e3.4
17	4.6	e2.3	e4.3	5.1	15	9.3	4.2	4.3	e3.7	e3.0	e6.0	e3.2
18	4.1	e2.4	e3.7	5.5	18	7.0	3.3	5.2	6.5	e3.0	e3.5	e4.5
19	3.6	e2.8	e4.6	8.1	14	4.5	4.0	5.2	7.1	e3.0	e3.2	12
20	3.8	e2.5	e3.7	8.7	19	4.6	5.1	4.8	7.0	e3.1	e3.1	11
21	3.4	e2.4	e4.6	6.7	21	4.7	3.6	6.2	7.2	e3.1	e3.1	e5.1
22	3.0	e2.3	e5.0	8.9	21	9.8	3.8	4.7	e5.5	e3.2	e3.1	e3.4
23	2.9	e2.4	e4.8	10	21	8.1	3.8	5.2	e4.0	e3.4	e3.0	e3.3
24	3.8	e2.7	4.7	11	18	6.2	e3.2	5.5	e3.1	e3.4	e3.0	e3.3
25	3.9	e2.5	4.2	10	24	8.2	e3.1	6.9	e2.7	e3.4	e3.0	e3.3
26	3.7	e2.3	4.1	12	29	5.5	e3.2	8.2	e3.4	e3.3	e3.0	e3.3
27	3.4	e2.3	4.1	7.7	23	4.5	5.0	5.0	6.0	e3.2	e3.0	e3.3
28	3.2	e2.2	4.1	8.6	24	5.2	4.1	e4.5	7.6	e3.2	e3.0	e3.3
29	3.3	e2.1	4.2	6.7	---	5.6	e4.6	5.2	e4.5	e3.1	e3.0	e3.3
30	2.9	e1.9	4.3	15	---	4.3	e3.6	5.3	e3.5	e3.0	e3.0	e3.3
31	2.7	---	4.4	21	---	4.0	---	e3.5	---	e3.0	e3.1	---
TOTAL	122.2	71.6	110.8	225.2	615	407.7	123.5	145.8	123.6	104.8	148.0	119.5
MEAN	3.94	2.39	3.57	7.26	22.0	13.2	4.12	4.70	4.12	3.38	4.77	3.98
MAX	7.2	3.3	5.0	21	41	26	5.3	8.2	7.6	4.8	12	12
MIN	1.4	1.9	1.7	4.2	14	4.0	3.1	3.0	2.7	3.0	3.0	3.1
AC-FT	242	142	220	447	1220	809	245	289	245	208	294	237

CAL YR 1986 TOTAL 1161.99 MEAN 3.18 MAX 56 MIN .37 AC-FT 2300
WTR YR 1987 TOTAL 2317.7 MEAN 6.35 MAX 41 MIN 1.4 AC-FT 4600

e Estimated.

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, 4,560 microsiemens Jan. 19, 1982; minimum, 900 microsiemens Mar. 3, 1983.
PHYTOPLANKTON: Maximum, 12,000 cells/mL Mar. 12, 1980, and Sept. 14, 1981; minimum, less than 1 cell/mL July 17, 1979.
FECAL STREPTOCOCCI: Maximum, 86,000 colonies/100 mL July 14, 1982; minimum, 500 colonies/100 mL (non-ideal colony count) Jan. 13, 1981, and Jan. 21, 1985.
WATER TEMPERATURES: Maximum, 28.0°C July 1, 1971, July 15, 1981, and May 25, 1984; minimum, 7.0°C Jan. 6, 1970, and Jan. 17, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 8,180 mg/L Mar. 3, 1983 (hand-dipped sample; not depth integrated); minimum, 121 mg/L Aug. 13, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
24...	1300	2.7	3900	8.00	15.0	11.5	1.2	11.0	106	120	730	1300
JAN												
28...	1030	11	2320	8.10	22.5	12.0	42	10.4	102	120	620	720
MAR												
25...	1345	9.3	2640	8.20	19.0	16.5	21	10.4	112	--	--	790
MAY												
29...	1030	4.8	2820	8.10	24.0	18.0	15	10.0	111	5200	3200	840
JUL												
23...	1100	3.4	2510	8.20	34.0	23.0	18	9.7	120	1500	3100	770
AUG												
28...	1220	3.0	2700	8.10	34.0	26.0	30	11.0	143	2000	1700	700

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV 24...	240	160	520	7	32	484	397	1500	370	3.8	45	3020
JAN 28...	140	89	290	5	24	403	330	820	200	2.9	34	1880
MAR 25...	150	100	300	5	24	398	326	820	210	3.0	40	1920
MAY 29...	170	100	330	5	28	443	363	970	230	3.0	42	2200
JUL 23...	150	95	290	5	35	365	299	760	200	3.6	37	1840
AUG 28...	130	91	310	5	26	321	263	820	210	4.0	40	1930

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 24...	3100	4.1	--	<0.010	<0.100	0.110	0.100	0.19	0.30	0.020	<0.010	0.020
JAN 28...	1800	2.6	0.200	0.020	0.220	0.090	0.080	0.61	0.70	0.110	0.010	0.040
MAR 25...	1800	2.6	0.350	0.020	0.370	0.110	0.090	0.69	0.80	0.090	0.090	0.070
MAY 29...	2100	3.0	--	<0.010	0.180	0.140	0.100	0.46	0.60	0.170	0.110	0.100
JUL 23...	1700	2.5	--	<0.010	0.320	0.030	0.030	0.87	0.90	0.130	0.020	0.010
AUG 28...	1800	2.6	--	<0.010	<0.100	0.050	0.020	0.65	0.70	0.110	0.010	<0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 24...	<10	81	100	<10	<1	<1	1	2	50	<5	600	180
JAN 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	20	45	<100	<10	<1	<1	<1	<1	20	<5	400	110
MAY 29...	<10	55	200	<10	<1	<1	<1	1	20	<5	450	60
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	30	51	<100	<10	1	1	1	2	30	<5	410	20

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 24...	0.1	31	<1	<1	<1	5600	8	20	190	1.4	52
JAN 28...	--	--	--	--	--	--	--	--	313	9.0	62
MAR 25...	0.1	13	3	1	<1	3300	7	<10	217	5.5	--
MAY 29...	<0.1	14	<1	2	<1	4000	<25	<10	281	3.6	66
JUL 23...	--	--	--	--	--	--	--	--	241	2.2	61
AUG 28...	0.1	17	2	1	<1	3300	11	10	155	1.3	69

COLORADO RIVER BASIN

09419550 ROGERS SPRING NEAR OVERTON BEACH, NV

LOCATION.--Lat 36°22'36", long 114°26'33", in SE1/4SE1/4 sec.12, T.18 S., R.67 E., Clark County, Hydrologic Unit 15010005, on left bank in Lake Mead National Recreation Area, 14 mi south of Overton, and 6.6 mi southwest of Overton Beach.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1985 to current year.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3.6 ft^3/s, July 12, 1987, gage height, 2.36 ft; minimum daily, 1.0 ft^3/s, Mar. 3, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.6 ft^3/s, July 12; minimum daily, 1.1 ft^3/s, Apr. 5-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.5	1.5	1.9	1.4	1.4	1.2	e1.5	1.7	1.7	1.7	1.7
2	1.6	1.5	1.5	1.8	1.4	1.3	1.2	e1.6	1.7	1.7	1.7	1.7
3	1.5	1.5	1.5	1.5	1.4	1.3	1.2	e1.6	1.7	1.7	1.7	1.7
4	1.6	1.5	1.5	1.5	1.4	1.3	1.2	e1.6	1.7	1.7	1.7	1.6
5	1.7	1.6	1.5	1.5	1.4	1.3	1.1	1.7	1.7	1.7	1.7	1.7
6	1.7	1.6	1.5	1.6	1.5	1.2	1.1	1.7	e1.6	1.7	1.7	1.7
7	1.7	1.5	1.5	1.7	1.5	1.2	1.1	1.7	1.7	1.7	1.7	1.7
8	1.7	1.5	1.5	1.5	1.5	1.2	1.1	1.7	1.7	1.7	1.7	1.6
9	1.7	1.5	1.5	1.5	1.5	1.2	1.1	1.7	1.7	1.7	1.7	1.7
10	1.7	1.5	1.5	1.5	1.5	1.2	1.1	1.7	1.7	1.7	1.7	1.7
11	1.7	1.5	1.5	1.5	1.5	1.2	1.1	1.7	1.7	1.8	1.7	1.7
12	1.7	1.5	1.5	1.5	1.5	1.2	1.1	1.7	1.7	1.9	1.8	1.6
13	1.7	1.6	1.5	1.6	1.5	1.2	1.1	1.7	1.7	3.8	1.7	1.6
14	1.7	1.7	1.5	1.6	1.5	1.3	1.1	1.6	1.8	1.7	1.7	1.6
15	1.7	1.7	1.5	1.5	1.5	1.4	1.2	1.6	1.8	1.8	1.7	1.6
16	1.6	1.7	1.4	1.5	1.5	1.3	1.2	1.6	1.8	1.8	1.8	1.6
17	1.6	1.7	1.4	1.5	1.5	1.3	1.3	1.7	1.7	1.7	1.8	1.7
18	1.5	1.7	1.3	1.6	1.5	1.3	1.3	1.7	1.7	1.7	1.7	1.7
19	1.5	1.6	1.3	1.6	1.5	1.3	1.2	1.7	1.7	1.7	1.7	1.6
20	1.6	1.6	1.3	1.5	1.5	1.2	1.2	1.7	1.7	1.7	1.8	1.6
21	1.6	1.6	1.4	1.5	1.4	1.2	1.2	1.7	1.7	1.7	1.7	1.7
22	1.6	1.6	1.3	1.5	1.5	1.2	1.3	1.7	1.7	1.6	1.8	1.7
23	1.5	1.5	1.4	1.5	1.5	1.2	1.3	1.7	1.7	1.7	1.8	1.7
24	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.7	1.8	1.7	1.8	1.7
25	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.7	1.8	1.7	1.8	1.7
26	1.6	1.5	1.6	1.4	1.4	1.2	1.4	1.7	1.7	1.7	1.8	1.7
27	1.6	1.5	1.7	1.4	1.4	1.2	1.4	1.7	1.7	1.7	1.8	1.7
28	1.5	1.4	1.9	1.5	1.4	1.2	1.4	1.6	1.7	1.7	1.7	1.7
29	1.5	1.5	1.9	1.5	---	1.2	1.4	1.6	1.8	1.7	1.7	1.7
30	1.5	1.5	1.7	1.5	---	1.2	e1.5	1.7	1.8	1.7	1.7	1.7
31	1.5	---	1.8	1.4	---	1.2	---	1.7	---	1.7	1.7	---
TOTAL	49.6	46.6	46.9	47.4	41.1	38.7	36.7	51.7	51.6	53.2	53.7	50.1
MEAN	1.60	1.55	1.51	1.53	1.47	1.25	1.22	1.67	1.72	1.72	1.73	1.67
MAX	1.7	1.7	1.9	1.9	1.5	1.4	1.5	1.7	1.8	1.9	1.8	1.7
MIN	1.5	1.4	1.3	1.4	1.4	1.2	1.1	1.5	1.6	1.6	1.7	1.6
AC-FT	98	92	93	94	82	77	73	103	102	106	107	99

CAL YR 1986 TOTAL 539.0 MEAN 1.48 MAX 1.9 MIN 1.0 AC-FT 1070
WTR YR 1987 TOTAL 567.3 MEAN 1.55 MAX 1.9 MIN 1.1 AC-FT 1130

e Estimated.

LAS VEGAS VALLEY

09419610 LEE CANYON NEAR CHARLESTON PARK, NV

LOCATION.--Lat 36°20'25", long 115°39'00", in NE1/4 sec.35, T.18 S., R.56 E., Clark County, Hydrologic Unit 15010015, in Toiyabe National Forest, on right bank 50 ft above bridge on Deer Creek Springs Road, just south of junction with State Highway 52, and 5.5 mi north of Charleston Park.

DRAINAGE AREA.--9.20 mi^2.

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

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

REMARKS.--Records good. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt.

AVERAGE DISCHARGE.--24 years, 0.021 ft^3/s, 15 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CAL YR 1986 TOTAL 0.10 MEAN .000 MAX .09 MIN .00 AC-FT .2
WTR YR 1987 TOTAL 0.00 MEAN .00 MAX .00 MIN .00 AC-FT .0

LAS VEGAS VALLEY

09419625 CORN CREEK SPRING AT NATIONAL FISH AND WILDLIFE HEADQUARTERS, NV

LOCATION.--Lat 36°26'20", long 115°21'26", in NW1/4NE1/4 sec.34, T.17 S., R.59 E., Clark County, Hydrologic Unit 15010015, in Desert National Wildlife Range, on right bank, located at National Fish and Wildlife Headquarters complex, 4 mi east of Highway 95, and 20 mi northwest of Las Vegas.

PERIOD OF RECORD.--July 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,390 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.30 ft^3/s, Dec. 13 to Jan. 24, gage height, 1.01 ft, maximum gage height, 1.27 ft, Dec. 18, 1986, backwater from debris on weir; minimum daily, 0.24 ft^3/s, many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.28 ft^3/s, Aug. 22, 23, gage height, 0.99 ft, maximum gage height, 1.27 ft, Dec. 18, due to backwater effects; minimum daily, 0.24 ft^3/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
2	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
3	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
4	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
5	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
6	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
7	.25	.25	.25	.25	.25	.25	.25	.24	.25	.24	.24	.26
8	.25	.25	.25	.25	.25	.25	.25	.24	.25	.24	.24	.26
9	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.26
10	.25	.25	.25	.25	.25	.25	.25	.25	.26	.24	.24	.26
11	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.25
12	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.25
13	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.25
14	.25	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.25
15	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.25
16	.25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.25
17	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.24	.25
18	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.24	.25
19	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.24	.26
20	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.24	.26
21	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.26
22	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.27	.25
23	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.25
24	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.25
25	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.25
26	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.25	.25
27	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.25
28	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.26	.25
29	.25	.25	.25	.25	---	.25	.25	.24	.24	.24	.26	.25
30	.25	.25	.25	.25	---	.25	.25	.24	.24	.25	.26	.25
31	.25	---	.25	.25	---	.25	---	.24	---	.25	.26	---
TOTAL	7.75	7.50	7.75	7.75	7.00	7.75	7.50	7.58	7.35	7.46	7.66	7.63
MEAN	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.25	.25
MAX	.25	.25	.25	.25	.25	.25	.25	.25	.26	.25	.27	.26
MIN	.25	.25	.25	.25	.25	.25	.25	.24	.24	.24	.24	.25
AC-FT	15	15	15	15	14	15	15	15	15	15	15	15

CAL YR 1986 TOTAL 94.03 MEAN .26 MAX .30 MIN .25 AC-FT 187
WTR YR 1987 TOTAL 90.68 MEAN .25 MAX .27 MIN .24 AC-FT 180

LAS VEGAS VALLEY

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW1/4SE1/4 sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank 500 ft west of Hollywood Blvd., and 1.5 mi northeast of East Las Vegas Civic Center.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Prior to Apr. 7, 1986, at site 50 ft, upstream at datum 1.2 ft lower. Elevation of gage is 1,640 ft, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 482 ft^3/s, Nov. 18, gage height, 6.60 ft; minimum daily, 90 ft^3/s, Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e101	112	e132	119	112	116	118	123	118	107	118	118
2	e124	115	e130	123	116	115	113	122	114	106	110	121
3	123	112	e130	123	115	111	112	117	113	102	109	116
4	124	110	e132	e123	115	116	135	111	118	104	111	129
5	123	114	119	e222	108	116	120	107	120	107	113	137
6	122	109	119	e133	104	114	110	108	127	108	110	128
7	119	113	137	e168	114	244	112	114	155	109	112	120
8	111	113	126	e245	116	130	117	112	123	111	116	115
9	112	120	129	e154	111	124	113	117	120	107	127	130
10	120	118	119	e195	116	120	111	118	117	107	123	130
11	122	113	111	e185	113	130	114	117	122	113	119	130
12	120	116	110	e150	108	129	113	114	121	108	121	131
13	120	117	112	130	109	125	120	112	116	108	124	129
14	116	114	106	118	109	125	119	101	123	113	127	130
15	113	116	105	117	110	122	120	103	115	116	124	129
16	115	122	107	116	120	122	111	273	113	130	114	122
17	104	124	102	117	112	121	119	183	114	138	115	119
18	98	e150	105	116	111	121	114	129	115	123	116	121
19	111	e285	103	120	110	118	117	121	121	121	117	120
20	110	e210	146	120	107	115	114	117	114	121	119	128
21	111	e180	109	90	108	114	114	113	124	134	119	131
22	113	e170	105	103	109	132	112	110	121	131	117	135
23	114	e168	102	128	112	115	110	118	124	126	117	128
24	113	e167	113	134	111	121	118	123	125	128	122	130
25	116	e163	113	130	146	117	112	119	115	132	110	122
26	114	e160	116	127	144	121	106	119	116	129	120	121
27	113	e159	114	126	120	116	111	121	115	129	127	123
28	110	e130	112	128	116	108	117	122	115	120	129	135
29	113	e130	105	125	---	116	119	125	114	121	131	134
30	114	e132	116	116	---	112	129	118	113	120	129	108
31	113	---	118	112	---	112	---	118	---	116	124	---
TOTAL	3552	4162	3603	4213	3202	3818	3470	3825	3581	3645	3690	3770
MEAN	115	139	116	136	114	123	116	123	119	118	119	126
MAX	124	285	146	245	146	244	135	273	155	138	131	137
MIN	98	109	102	90	104	108	106	101	113	102	109	108
AC-FT	7050	8260	7150	8360	6350	7570	6880	7590	7100	7230	7320	7480

CAL YR 1986 TOTAL 40818 MEAN 112 MAX 285 MIN 88 AC-FT 80960
WTR YR 1987 TOTAL 44531 MEAN 122 MAX 285 MIN 90 AC-FT 88330

e Estimated.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1979 to September 1987 (discontinued).
SPECIFIC CONDUCTANCES: May to July and September 1979, weekly; October 1979 to September 1987, hourly.
WATER TEMPERATURES: May 1979 to July 1980, monthly; August 1980 to September 1987, hourly.

INSTRUMENTATION.--Specific-conductance recorder from May 1979 to September 1987. Temperature recorder from August 1980 to September 1987.

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. Records are poor due to variable accumulations of sediment and organic material near the recorder probes.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 3,460 microsiemens Feb. 11, 1980; minimum, 739 microsiemens Jan. 7, 1987.
WATER TEMPERATURES: Maximum, 30.5°C July 14, 1981; minimum, 9.0°C Jan. 7, 1987.
EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 2,540 microsiemens Oct. 1; minimum, 739 microsiemens Jan. 7.
WATER TEMPERATURES: Maximum, 28.5°C Aug. 4-9; minimum, 9.0°C Jan. 7.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.0	21.0	23.0	20.5	19.5	20.0	19.0	18.0	18.5	18.0	17.0	17.5
2	23.5	22.0	22.5	21.0	19.5	20.5	19.0	18.0	18.5	18.5	17.0	18.0
3	23.5	21.5	22.5	22.0	20.5	21.0	19.0	17.5	18.5	18.5	17.0	18.0
4	23.5	22.0	23.0	22.0	20.0	21.0	19.0	18.0	18.5	18.0	17.0	18.0
5	23.5	22.0	23.0	22.0	20.0	21.0	19.0	18.0	18.5	18.0	10.0	14.0
6	24.5	22.5	23.5	21.0	19.5	20.0	19.0	18.5	19.0	18.0	16.5	17.5
7	25.0	23.0	24.0	20.5	18.5	19.5	19.0	17.5	18.5	18.0	9.0	14.0
8	25.0	23.0	24.0	20.5	19.0	20.0	19.5	18.0	19.0	16.5	11.5	15.0
9	24.5	23.0	24.0	20.5	19.0	20.0	19.0	18.0	18.5	17.0	15.5	16.5
10	24.5	23.5	24.0	20.5	19.0	20.0	18.0	16.0	17.5	17.5	16.0	16.5
11	23.5	23.0	23.5	21.0	19.0	20.0	18.5	16.5	18.0	17.5	16.0	17.0
12	23.0	21.5	22.5	21.0	19.5	20.5	18.5	16.5	18.0	17.5	16.0	17.0
13	23.5	21.0	22.5	21.0	19.5	20.5	18.5	17.0	18.0	17.5	16.0	17.0
14	23.5	21.0	22.5	21.0	19.5	20.5	18.5	16.5	17.5	17.0	15.5	16.5
15	23.5	21.0	22.5	21.0	19.5	20.5	18.0	17.0	18.0	16.5	15.0	15.5
16	24.0	21.5	23.0	21.5	20.0	20.5	18.5	17.0	18.0	15.0	13.0	14.5
17	24.0	22.0	23.0	21.5	20.0	21.0	18.5	17.0	18.0	16.0	14.0	15.0
18	23.0	21.0	22.0	21.0	15.0	18.0	18.0	17.0	18.0	16.5	15.0	16.0
19	23.0	21.5	22.5	21.0	18.0	20.0	18.5	17.5	18.0	16.5	15.5	16.0
20	23.5	21.5	22.5	21.0	20.0	20.5	18.5	15.5	17.5	15.5	14.5	15.5
21	23.5	21.5	22.5	21.0	20.0	20.5	18.5	17.0	18.0	17.0	13.0	15.5
22	23.5	21.5	22.5	20.5	19.5	20.0	18.5	17.0	18.0	17.0	13.5	16.0
23	23.5	22.0	22.5	19.5	19.0	19.5	18.5	17.0	18.0	17.0	16.0	16.5
24	23.5	21.5	22.5	20.0	19.0	19.5	18.0	15.5	17.5	17.0	15.5	16.5
25	23.5	21.5	23.0	19.5	19.0	19.0	18.0	17.0	17.5	17.5	15.5	16.5
26	23.5	22.0	23.0	19.5	18.5	19.0	18.0	16.5	17.5	17.5	15.5	17.0
27	23.5	22.0	23.0	19.5	18.0	19.0	18.5	17.0	17.5	17.5	16.0	17.0
28	23.0	21.5	22.5	19.5	18.5	19.0	18.0	17.0	17.5	17.5	16.5	17.0
29	23.5	22.0	23.0	19.5	18.0	19.0	18.0	16.5	17.5	18.0	16.5	17.5
30	23.0	22.0	22.5	18.5	17.5	18.5	18.5	16.5	17.5	18.0	16.5	17.5
31	22.5	20.5	21.5	---	---	---	18.0	17.0	17.5	17.5	16.5	17.5
MONTH	25.0	20.5	23.0	22.0	15.0	20.0	19.5	15.5	18.0	18.5	9.0	16.5

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	18.0	16.5	17.5	19.0	11.0	18.0	20.5	18.0	19.5	22.5	21.0	22.0
2	18.0	17.0	17.5	19.5	11.5	17.5	21.0	18.5	20.0	23.0	20.5	21.5
3	18.0	17.0	17.5	20.0	11.0	17.5	20.0	19.0	19.5	23.0	21.0	22.0
4	18.0	16.5	17.5	20.0	11.5	18.0	19.5	17.5	18.5	23.5	21.5	22.5
5	18.0	16.5	17.0	19.5	13.0	18.0	21.0	18.5	19.5	24.0	21.5	23.0
6	18.0	16.0	17.5	20.0	16.5	19.0	21.5	19.5	20.5	25.0	22.5	23.5
7	18.5	17.0	18.0	19.5	15.5	17.5	22.0	19.5	20.5	25.0	23.0	24.0
8	19.0	17.5	18.0	20.5	16.5	19.5	22.0	19.5	21.0	25.0	23.0	24.0
9	19.0	17.5	18.5	20.5	17.5	19.5	22.0	20.0	21.0	25.0	23.0	24.0
10	19.5	18.5	19.0	21.5	15.0	19.5	22.5	20.0	21.0	25.5	23.5	24.5
11	19.5	18.5	19.0	21.0	18.5	20.0	21.5	20.5	21.0	26.0	23.5	24.5
12	20.0	18.5	19.5	21.5	19.0	20.0	21.0	20.0	20.5	25.5	23.5	24.5
13	19.5	18.5	19.0	20.5	19.0	20.0	21.5	19.5	20.5	25.5	23.5	24.5
14	18.5	17.0	18.0	20.5	19.0	19.5	22.5	20.0	21.0	26.0	24.0	25.0
15	19.0	17.5	18.0	19.0	17.5	18.5	22.5	20.5	21.5	25.0	24.0	24.5
16	18.0	16.5	17.5	20.5	17.5	19.0	23.0	21.0	22.0	24.0	21.5	23.0
17	19.0	17.0	18.0	20.5	17.5	19.0	23.0	21.0	22.0	25.5	22.5	24.0
18	18.5	17.0	18.0	20.0	18.5	19.5	21.5	19.5	21.0	25.0	24.0	24.5
19	17.5	16.0	17.0	18.5	17.5	18.0	20.0	17.5	19.0	24.5	23.0	23.5
20	17.5	16.0	17.0	19.5	17.0	18.5	21.0	18.5	19.5	24.0	22.0	23.0
21	18.5	16.5	17.5	19.0	18.0	18.5	22.0	19.5	20.5	23.5	21.5	22.5
22	18.5	17.0	18.0	18.0	14.5	17.0	23.0	20.0	21.5	24.5	22.0	23.0
23	18.0	16.0	17.0	19.0	17.5	18.5	23.5	20.5	22.0	24.5	22.0	23.5
24	17.5	16.0	17.0	20.0	17.0	18.5	23.5	21.5	22.5	24.5	22.5	23.5
25	17.0	14.0	16.5	19.5	18.0	19.0	24.0	21.5	23.0	23.0	21.5	22.5
26	18.5	15.0	17.0	20.5	18.0	19.0	24.5	22.0	23.0	23.0	20.5	21.5
27	18.5	16.5	17.5	19.5	17.5	18.5	25.0	22.5	23.5	24.0	21.0	22.5
28	18.5	10.0	16.5	19.5	17.5	18.0	24.5	22.5	23.5	23.5	22.0	23.0
29	---	---	---	18.5	16.5	17.5	23.5	23.0	23.5	24.5	22.0	23.5
30	---	---	---	19.0	16.5	18.0	24.0	22.0	23.0	25.0	22.5	23.5
31	---	---	---	20.0	17.0	18.5	---	---	---	25.0	23.0	24.0
MONTH	20.0	10.0	17.5	21.5	11.0	18.5	25.0	17.5	21.0	26.0	20.5	23.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	23.0	24.5	26.5	24.5	25.5	28.0	25.5	27.0	27.5	25.5	26.5
2	25.5	23.5	24.5	27.0	24.5	25.5	28.0	26.5	27.0	27.5	26.0	26.5
3	26.0	23.5	24.5	26.0	24.0	25.0	28.0	26.5	27.5	27.0	25.5	26.5
4	25.5	23.5	24.5	26.5	23.5	25.0	28.5	26.5	27.5	27.0	25.0	26.0
5	25.5	23.5	24.5	26.0	24.5	25.5	28.5	27.0	27.5	27.0	25.0	26.0
6	25.0	24.0	24.5	27.0	24.5	25.5	28.5	27.0	27.5	27.0	25.5	26.5
7	26.0	22.5	24.5	27.5	25.0	26.0	28.5	27.0	28.0	27.0	25.0	26.0
8	26.5	24.0	25.0	26.5	25.0	26.0	28.5	27.0	27.5	26.5	24.5	25.5
9	26.0	23.5	25.0	26.0	24.5	25.0	28.5	26.5	27.5	26.5	24.5	25.5
10	26.0	24.0	25.0	26.0	24.0	25.0	28.0	26.5	27.5	26.5	24.5	25.5
11	26.0	24.0	25.0	27.0	24.5	25.5	27.5	26.0	27.0	26.5	24.5	25.5
12	26.5	24.0	25.0	27.0	25.0	26.0	27.5	26.0	26.5	25.5	24.5	25.0
13	27.5	25.0	26.0	27.5	25.0	26.5	27.5	26.0	26.5	25.5	24.0	24.5
14	26.5	25.0	26.0	28.0	25.5	27.0	26.5	25.5	26.0	26.0	24.5	25.0
15	25.0	23.5	24.0	28.0	26.0	27.0	26.5	24.5	25.5	26.0	24.5	25.5
16	25.0	23.0	24.0	26.5	26.0	26.0	27.0	25.0	26.0	26.0	24.5	25.0
17	25.0	23.0	24.0	26.0	24.5	25.5	27.5	25.0	26.0	26.0	24.0	25.0
18	25.5	23.0	24.5	25.5	23.0	24.5	27.5	25.0	26.5	26.0	24.0	25.0
19	26.0	23.5	25.0	25.5	23.5	25.0	27.5	25.5	26.5	26.0	24.0	25.0
20	26.0	23.5	25.0	25.5	24.0	25.0	27.0	26.0	26.5	26.5	24.5	25.5
21	26.0	24.0	25.0	26.5	24.0	25.0	28.0	26.0	27.0	26.0	24.5	25.5
22	26.5	24.0	25.5	27.0	24.5	25.5	27.5	26.0	26.5	25.5	24.0	25.0
23	27.0	24.5	25.5	27.0	24.5	26.0	27.0	26.0	26.5	26.0	24.5	25.0
24	27.0	24.5	25.5	27.0	25.0	26.0	27.5	25.5	26.5	26.0	24.5	25.0
25	27.0	25.0	26.0	27.5	25.0	26.0	27.0	24.5	26.0	26.0	24.5	25.5
26	27.5	25.5	26.5	27.5	25.5	26.5	27.5	25.0	26.5	26.0	24.5	25.0
27	27.5	25.5	26.5	28.0	25.5	26.5	27.5	25.5	26.5	26.0	24.0	25.0
28	27.5	25.5	26.5	27.0	26.0	26.5	27.5	25.5	27.0	26.0	24.5	25.5
29	27.5	25.0	26.0	27.5	25.5	26.5	28.0	26.0	27.0	25.5	24.0	25.0
30	27.0	25.0	26.0	27.5	25.5	27.0	28.0	26.0	27.0	26.5	23.5	25.0
31	---	---	---	27.5	25.5	26.5	28.0	26.0	27.0	---	---	---
MONTH	27.5	22.5	25.0	28.0	23.0	26.0	28.5	24.5	27.0	27.5	23.5	25.5
YEAR	28.5	9.0	22.0									

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2540	1690	2270	2070	1870	1990	1850	1710	1790	1980	1880	1940
2	2130	1910	2020	2040	1890	1950	2060	1760	1910	1980	1880	1930
3	1930	1820	1900	1990	1830	1940	2160	2030	2090	1920	1780	1870
4	1900	1800	1840	2060	1870	2000	2200	1980	2090	1850	1720	1770
5	1830	1770	1800	2080	1880	2010	2220	2080	2160	1840	813	1400
6	1800	1690	1760	2080	1740	1960	2250	2150	2200	2070	1810	1930
7	1830	1630	1770	1970	1740	1900	2270	1990	2080	2070	739	1500
8	1900	1740	1830	2040	1850	1970	2090	1970	2030	2010	1220	1710
9	1930	1720	1860	1940	1840	1890	2160	2040	2100	2100	1950	2030
10	1950	1710	1870	2040	1860	1960	2180	1980	2120	2110	2010	2060
11	1920	1780	1860	2110	1980	2040	2130	1940	2070	2150	2000	2070
12	1900	1800	1860	2150	1910	2080	2090	1960	2010	2100	1930	2040
13	1990	1780	1900	2150	1920	2090	1970	1850	1910	2130	2000	2070
14	2070	1820	1990	2230	2020	2150	1950	1860	1900	2170	1950	2080
15	2070	1870	1990	2220	2080	2160	1980	1860	1930	2140	1940	2060
16	2090	1860	2010	2200	2100	2140	2030	1870	1960	2100	1930	2050
17	2080	1860	2000	2230	2060	2170	2070	1970	2020	2030	1910	1980
18	2040	1890	1970	2240	1450	1910	2060	1900	2000	1980	1880	1940
19	2020	1890	1960	2190	1980	2090	2010	1850	1940	2020	1850	1940
20	2070	1890	1960	1930	1750	1850	2210	1410	1720	2010	1860	1940
21	2010	1870	1940	1770	1680	1730	1880	1670	1780	2150	1810	2010
22	2060	1870	1970	1830	1760	1790	1900	1760	1830	2120	1830	2020
23	2010	1840	1950	1840	1650	1790	1920	1780	1860	2200	1960	2060
24	2020	1790	1920	1910	1800	1850	2120	1800	1880	2080	2010	2040
25	1960	1810	1870	1950	1870	1910	1860	1770	1830	2090	1960	2030
26	1960	1740	1870	1990	1920	1950	1930	1760	1840	2050	1950	2010
27	1950	1750	1880	2010	1940	1970	1840	1710	1790	2110	1950	2030
28	2080	1820	1940	2040	1930	1980	1860	1720	1790	2080	1920	2020
29	2040	1840	1950	2000	1880	1930	1870	1720	1780	2090	1920	2040
30	2050	1830	1950	1890	1780	1840	1850	1720	1800	2120	1970	2070
31	2000	1840	1950	---	---	---	2030	1680	1860	2050	1920	2020
MONTH	2540	1630	1920	2240	1450	1970	2270	1410	1940	2200	739	1960

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2080	1940	2020	2170	1980	2040	2090	1990	2040	2070	1930	1980
2	2050	1890	1980	2150	1980	2080	2080	2040	2060	2060	1970	2010
3	2060	1880	1990	2270	2100	2170	2140	2050	2090	2090	1960	2020
4	2080	1920	2010	2240	2090	2170	2350	1730	2030	2180	2030	2110
5	2100	1910	2020	2300	2080	2170	1810	1730	1780	2190	2030	2100
6	2190	1930	2010	2240	2090	2190	1800	1610	1740	2140	2010	2070
7	2010	1840	1930	2360	1050	1710	1650	1570	1610	2080	1990	2030
8	1960	1830	1870	2060	1790	1970	1570	1450	1520	2060	1940	2000
9	1970	1820	1900	2350	2040	2140	1580	1520	1560	2060	1880	1970
10	2070	1830	1940	2350	2060	2200	1670	1580	1630	2010	1880	1920
11	2000	1860	1950	2300	2120	2190	1720	1630	1670	1990	1870	1920
12	2160	1920	2050	2250	2090	2190	1770	1660	1720	1920	1780	1860
13	2130	1990	2070	2270	2050	2160	1830	1710	1780	1870	1720	1790
14	2210	1980	2060	2120	1930	2030	1930	1850	1890	1870	1750	1790
15	2090	1920	2010	1990	1850	1940	1970	1850	1890	1810	1720	1780
16	2200	1850	1980	1970	1800	1900	1990	1900	1940	1800	1020	1420
17	2210	1850	1950	2010	1840	1910	---	---	---	1840	1520	1740
18	2130	1890	2030	2040	1870	1950	2030	1960	1990	1900	1780	1830
19	2190	1950	2080	2020	1850	1930	2010	1870	1930	1990	1830	1900
20	2190	1990	2100	1890	1790	1850	1960	1830	1900	1960	1840	1920
21	2320	1930	2100	1930	1850	1880	1970	1860	1920	2000	1880	1930
22	2040	1940	2000	2000	1770	1850	1990	1850	1940	1990	1870	1950
23	2090	1890	2040	1890	1790	1840	1990	1890	1950	1960	1840	1920
24	2110	1950	2010	1960	1890	1930	1980	1860	1910	1930	1820	1890
25	2200	1700	2030	1990	1930	1970	1970	1860	1910	1970	1830	1870
26	2040	1710	1910	2020	1940	1980	2000	1900	1940	1960	1810	1910
27	2180	1950	2100	2000	1950	1980	2070	1910	2000	1990	1870	1920
28	2250	2010	2130	2030	1980	2010	2170	1970	2060	1990	1820	1910
29	---	---	---	2020	1980	2000	2050	1930	2010	1920	1800	1860
30	---	---	---	2070	2020	2040	2190	1900	1980	1910	1790	1850
31	---	---	---	2110	2050	2080	---	---	---	1900	1780	1830
MONTH	2320	1700	2010	2360	1050	2010	2350	1450	1880	2190	1020	1900

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1910	1800	1850	1880	1750	1830	1790	1690	1740	2060	1920	2000
2	2010	1820	1890	2000	1760	1860	1740	1650	1700	2080	1940	2010
3	1960	1800	1880	1870	1750	1810	1720	1650	1690	2080	1970	2020
4	1910	1760	1840	1890	1740	1830	1840	1680	1750	2390	1950	2060
5	1830	1730	1780	1850	1740	1780	1920	1740	1840	2060	1850	1940
6	1890	1610	1760	1850	1720	1810	1950	1800	1850	1950	1840	1900
7	1730	1430	1610	1960	1770	1830	1920	1750	1830	1970	1850	1900
8	1820	1630	1720	1900	1750	1830	1860	1690	1790	1950	1810	1900
9	1810	1650	1740	1850	1760	1810	1810	1560	1700	2010	1840	1920
10	1830	1710	1760	1860	1760	1820	1800	1540	1690	1930	1790	1880
11	1800	1690	1740	1810	1690	1750	1820	1630	1700	1940	1790	1890
12	1790	1660	1720	1760	1660	1700	1730	1620	1690	1910	1800	1860
13	1810	1670	1730	1730	1640	1690	1720	1610	1660	1910	1790	1850
14	1710	1650	1670	1740	1630	1690	1700	1530	1640	1930	1780	1830
15	1740	1630	1690	1730	1610	1670	1700	1580	1630	1980	1760	1870
16	1780	1630	1710	1680	1430	1620	1670	1530	1610	1930	1770	1840
17	1730	1690	1710	1570	1460	1520	1910	1550	1680	1890	1740	1820
18	1770	1670	1740	1600	1510	1550	2080	1940	2000	1840	1690	1780
19	1740	1650	1700	1630	1520	1570	1980	1870	1940	1850	1700	1790
20	1820	1700	1760	1660	1560	1610	1960	1850	1910	---	---	---
21	1720	1630	1690	1730	1600	1650	1950	1840	1910	1860	1680	1730
22	1710	1630	1670	1720	1600	1660	1970	1870	1910	---	---	---
23	1760	1640	1690	1740	1660	1710	1940	1840	1890	---	---	---
24	1740	1580	1690	1850	1690	1760	1950	1860	1910	1940	1740	1860
25	1770	1660	1720	1830	1710	1760	1970	1810	1900	1950	1830	1880
26	1820	1690	1750	1790	1730	1760	2010	1840	1910	1960	1810	1880
27	1790	1720	1750	1860	1740	1800	1940	1780	1850	1900	1800	1860
28	1770	1720	1730	1840	1730	1790	2030	1800	1910	1920	1770	1830
29	1840	1710	1770	1860	1730	1790	2050	1930	1990	1910	1750	1860
30	1900	1750	1800	1820	1720	1770	2010	1890	1960	1910	1540	1820
31	---	---	---	1850	1700	1770	2000	1880	1940	---	---	---
MONTH	2010	1430	1740	2000	1430	1740	2080	1530	1810	2390	1540	1880
YEAR	2540	739	1900									

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV

LOCATION.--Lat 36°05'20", long 114°59'05", in SE1/4SW1/4 sec.30, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank at upstream end of 4.5-ft pipe culvert on road, 3.5 mi north of Henderson, and 6.0 mi upstream from high-water line of Lake Mead at elevation 1,221.4 ft, National Geodetic Vertical Datum of 1929.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1957 to September 1983 and October 1984 to current year.

REVISED RECORDS.--WSP 1926: Drainage area.

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

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

AVERAGE DISCHARGE.--29 years (1958-83, 1985-87), 54.7 ft^3/s, 39,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft^3/s, July 4, 1975, gage height, 10.67 ft, from floodmarks, from rating curve extended above 3,340 ft^3/s on basis of area-velocity computation to determine peak flow, maximum gage height, 12.72 ft "(corrected)", Dec. 27, 1984; minimum daily, 4.8 ft^3/s, Aug. 17, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 10, 1984, reached a stage of 17.14 ft, present datum, from floodmarks; discharge, 1,380 ft^3/s, by sum of slope-conveyance and culvert computations.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft^3/s, May 16, gage height, unknown; minimum daily, 114 ft^3/s, Oct. 18 and July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	e128	e148	140	133	140	126	132	122	117	131	e130
2	139	e130	e150	143	136	138	130	128	118	116	124	e128
3	139	e123	e150	143	135	134	126	125	117	114	122	e127
4	138	e125	e152	143	135	136	125	122	119	115	122	e132
5	136	e123	e158	243	131	136	137	122	123	118	126	e140
6	137	e120	e155	155	127	137	136	125	127	119	123	e136
7	135	124	e176	189	134	e250	126	124	165	121	124	e129
8	131	123	e169	260	136	e163	126	125	190	121	125	e120
9	130	e126	e165	176	134	e147	131	130	165	118	133	134
10	134	e124	e160	215	137	e150	129	131	130	116	131	136
11	136	e120	e150	e205	136	e153	131	128	144	123	128	138
12	136	e126	145	e170	132	142	136	125	128	120	132	138
13	136	e128	134	e150	133	141	130	122	118	120	134	138
14	134	e122	129	e140	131	138	133	117	124	123	135	140
15	131	e126	127	e138	132	136	132	122	117	128	134	138
16	131	e133	129	e138	139	136	134	229	119	129	127	133
17	127	e133	124	e137	134	134	130	196	121	142	128	129
18	114	e170	125	e137	135	134	132	143	118	130	129	131
19	126	e295	126	e140	133	130	130	130	124	129	127	131
20	127	e220	146	e140	131	129	130	126	116	129	e128	138
21	129	e200	135	e131	131	126	129	123	124	134	e128	143
22	132	183	130	e131	134	136	128	122	121	130	e128	141
23	129	185	127	e148	134	137	132	127	123	126	e130	136
24	170	185	131	e157	132	129	124	129	124	134	e130	138
25	152	178	135	e153	152	136	123	127	119	e139	e129	134
26	129	177	137	e150	166	129	127	125	119	e138	e132	132
27	e125	e159	136	e149	143	135	130	126	120	e136	e140	133
28	e125	e146	137	e150	138	127	132	125	121	130	e143	140
29	e130	e146	130	e150	---	125	138	127	120	129	e146	141
30	e127	e148	138	e142	---	130	133	121	118	131	e142	123
31	e125	---	139	132	---	126	---	122	---	126	e138	---
TOTAL	4106	4526	4393	4895	3804	4340	3906	4076	3814	3901	4049	4027
MEAN	132	151	142	158	136	140	130	131	127	126	131	134
MAX	170	295	176	260	166	250	138	229	190	142	146	143
MIN	114	120	124	131	127	125	123	117	116	114	122	120
AC-FT	8140	8980	8710	9710	7550	8610	7750	8080	7570	7740	8030	7990

CAL YR 1986 TOTAL 45684 MEAN 125 MAX 295 MIN 95 AC-FT 90610
WTR YR 1987 TOTAL 49837 MEAN 137 MAX 295 MIN 114 AC-FT 98850

e Estimated.

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 September 1985, monthly (discontinued).
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 September 1985, monthly; November 1985 to current year, hourly.
WATER TEMPERATURES: February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to September 1985, monthly; November 1985 to current year, hourly.
SEDIMENT DATA: January 1977 to September 1985, monthly (discontinued).

INSTRUMENTATION.--Specific-conductance and temperature recorder since November 1985.

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. Periods of no record for daily specific conductance and water temperature are due to recorder malfunctions and periodic burial of the probes by sediment deposits. Records are poor due to variable accumulation of sediment near the recorder probes.

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 microsiemens Sept. 19, 1968; minimum, 1,470 microsiemens July 23, 1986.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 4, 6, 1987; minimum, 2.0°C Jan. 31, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,580 mg/L Jan. 14 and Feb. 13, 1985; minimum, 1 mg/L Aug. 1, 1983.
EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,150 microsiemens Jan. 5; minimum, 1,610 microsiemens July 17.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 4, 6; minimum, 12.0°C Jan. 17.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	21.0	21.5	20.0	19.0	19.0	16.0	14.5	15.5	---	---	---
2	22.5	21.0	21.5	19.5	19.0	19.0	16.0	14.5	15.5	---	---	---
3	22.0	20.5	21.5	20.0	19.0	19.5	16.0	14.5	15.5	---	---	---
4	22.5	21.5	22.0	20.0	18.5	19.5	16.0	15.0	15.5	16.5	15.5	16.0
5	22.5	20.5	21.5	20.0	18.5	19.5	16.5	15.5	16.0	---	---	---
6	23.0	22.0	22.5	19.5	18.0	19.0	17.0	16.5	16.5	---	---	---
7	23.5	21.5	22.5	18.0	17.5	18.0	17.0	16.0	16.5	---	---	---
8	23.5	22.0	23.0	18.5	17.5	18.0	16.5	15.5	16.0	---	---	---
9	23.0	22.0	22.5	18.5	17.0	18.0	16.5	15.5	16.0	---	---	---
10	23.0	22.5	23.0	19.0	17.0	18.0	15.5	15.0	15.0	15.0	13.5	14.5
11	22.5	21.5	22.0	19.0	17.5	18.0	16.0	14.5	15.5	15.0	13.5	14.5
12	21.0	20.0	20.5	19.5	17.5	18.5	16.0	15.0	15.5	15.0	14.0	14.5
13	21.0	19.0	20.5	19.5	18.0	19.0	16.0	15.0	15.5	15.0	14.0	14.5
14	21.5	19.5	20.5	19.5	18.0	19.0	16.5	15.5	16.0	15.0	14.0	14.5
15	21.5	19.5	20.5	19.5	18.5	19.0	16.5	16.0	16.5	14.0	13.0	13.5
16	22.0	20.0	21.0	20.0	18.5	19.5	17.0	16.0	16.5	13.0	12.5	12.5
17	21.5	20.5	21.0	20.5	19.5	20.0	17.5	16.5	17.0	13.5	12.0	12.5
18	21.0	20.0	20.5	20.0	14.5	18.0	17.0	16.0	16.5	14.0	12.5	13.5
19	20.5	20.0	20.5	19.0	15.0	17.0	17.5	16.5	17.0	14.5	13.5	14.0
20	21.0	20.0	20.5	20.0	18.0	19.0	18.0	16.0	17.0	13.5	13.0	13.5
21	21.0	19.5	20.5	19.0	18.0	18.5	16.5	15.0	16.0	13.5	12.5	13.0
22	21.0	19.5	20.5	19.0	17.5	18.0	16.5	15.5	16.0	14.5	13.0	13.5
23	21.0	19.5	20.5	17.5	16.5	17.0	16.5	16.0	16.5	15.5	14.0	14.5
24	21.5	19.5	20.5	17.5	16.0	17.0	16.5	15.5	16.0	15.0	14.0	14.5
25	21.5	20.0	21.0	17.0	16.0	16.5	16.5	15.0	16.0	15.5	14.0	15.0
26	21.5	20.0	21.0	16.5	15.0	16.0	16.0	15.0	16.0	15.5	14.0	15.0
27	22.0	20.5	21.0	16.5	15.5	16.0	16.5	15.5	16.0	16.0	15.0	15.5
28	21.5	20.0	21.0	16.5	15.0	16.0	16.5	15.5	16.0	16.5	16.0	16.0
29	22.0	20.5	21.5	16.5	16.0	16.0	16.0	15.5	16.0	16.5	15.5	16.0
30	21.5	21.0	21.5	16.0	15.0	15.5	16.5	15.0	16.0	16.0	15.0	15.5
31	21.5	20.0	20.5	---	---	---	16.5	15.5	16.0	16.0	15.0	15.5
MONTH	23.5	19.0	21.0	20.5	14.5	18.0	18.0	14.5	16.0	16.5	12.0	14.5

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	16.5	15.0	15.5	16.5	13.0	14.5	18.5	13.5	16.0			
2	16.0	15.0	15.5	16.0	13.5	15.0	26.0	14.5	18.5			
3	16.0	15.5	16.0	17.0	13.5	15.0	23.0	16.0	18.0			
4	16.5	15.5	16.0	18.5	14.5	16.0	---	---	---			
5	16.0	15.0	15.5	17.5	15.0	16.0	---	---	---			
6	16.5	14.5	15.5	19.0	16.0	17.0	---	---	---			
7	16.5	15.5	16.0	18.5	13.5	16.0	---	---	---			
8	17.0	15.5	16.5	19.5	14.0	17.0	---	---	---			
9	17.5	16.0	16.5	20.0	16.0	18.0	---	---	---			
10	18.5	17.0	17.5	19.5	18.0	18.5	---	---	---			
11	18.0	17.0	17.5	19.0	17.5	18.5	---	---	---			
12	18.5	17.0	17.5	19.0	17.0	18.0	---	---	---			
13	17.5	15.0	16.5	18.5	17.0	18.0	---	---	---			
14	16.0	13.5	15.0	18.0	16.5	17.5	---	---	---			
15	16.0	14.0	15.0	16.5	15.0	16.0	---	---	---			
16	16.0	14.0	15.0	17.0	15.0	16.0	---	---	---			
17	17.0	14.0	15.5	17.0	15.0	16.0	---	---	---			
18	17.0	14.5	15.5	19.0	15.5	17.0	---	---	---			
19	15.5	13.5	14.5	17.5	16.0	16.5	---	---	---			
20	15.5	13.5	14.5	17.5	15.5	16.5	---	---	---			
21	17.0	13.5	15.5	17.5	16.0	16.5	---	---	---			
22	17.0	14.0	15.0	16.0	15.0	15.5	---	---	---			
23	15.0	13.5	14.5	17.0	15.0	16.0	---	---	---			
24	16.5	14.0	15.0	17.0	14.5	16.0	---	---	---			
25	16.0	14.0	15.5	16.5	15.0	16.0	---	---	---			
26	16.0	13.0	14.5	17.5	14.5	16.0	---	---	---			
27	16.5	14.0	15.5	16.5	14.5	15.5	---	---	---			
28	17.0	14.0	16.0	16.0	14.0	15.0	---	---	---			
29	---	---	---	15.0	13.5	14.0	---	---	---			
30	---	---	---	15.5	12.5	14.0	---	---	---			
31	---	---	---	16.0	13.0	14.5	---	---	---			
MONTH	18.5	13.0	15.5	20.0	12.5	16.0	26.0	13.5	17.5			

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	26.0	23.0	24.5	28.0	25.0	26.5	27.0	24.5	25.5
2	---	---	---	26.5	23.5	25.0	28.5	26.0	27.0	27.0	24.5	25.5
3	---	---	---	26.0	23.5	24.5	28.5	26.5	27.5	---	---	---
4	---	---	---	26.0	23.0	24.5	29.0	26.0	27.5	---	---	---
5	---	---	---	26.0	23.5	24.5	28.5	26.5	27.5	---	---	---
6	---	---	---	26.5	23.5	25.0	29.0	26.5	27.5	---	---	---
7	---	---	---	27.0	24.0	25.5	28.5	26.5	27.5	---	---	---
8	---	---	---	26.0	24.5	25.0	28.5	26.5	27.0	---	---	---
9	---	---	---	26.0	24.0	25.0	28.5	26.0	27.0	25.5	23.0	24.5
10	---	---	---	26.0	23.5	24.5	28.0	25.5	26.5	26.0	23.5	24.5
11	---	---	---	27.0	24.0	25.5	27.5	25.5	26.5	25.5	23.0	24.0
12	---	---	---	27.0	24.0	25.5	27.5	25.5	26.5	24.5	23.0	24.0
13	27.0	23.5	25.5	27.5	24.5	26.0	27.0	25.0	26.0	24.5	22.5	23.5
14	26.5	24.0	25.0	28.0	25.0	26.5	26.5	25.0	25.5	25.0	23.0	24.0
15	24.5	23.0	23.5	28.0	25.5	26.5	26.0	23.5	25.0	25.0	23.0	24.0
16	25.0	22.0	23.5	26.5	25.5	26.0	26.5	23.5	25.0	25.0	23.0	24.0
17	25.0	22.5	23.5	26.0	23.5	25.0	26.5	23.5	25.0	25.0	22.5	24.0
18	25.0	22.5	23.5	25.5	22.5	24.0	27.0	24.0	25.5	25.0	22.5	24.0
19	25.5	22.5	24.0	25.5	22.5	24.0	27.0	24.5	25.5	25.0	22.5	24.0
20	26.0	23.0	24.5	25.0	23.5	24.0	26.5	25.0	25.5	25.5	23.0	24.0
21	25.5	23.0	24.5	26.5	24.0	25.0	27.0	24.5	26.0	25.0	23.0	24.0
22	26.0	23.0	24.5	26.5	24.0	25.0	27.0	24.5	25.5	---	---	---
23	26.5	23.0	24.5	27.0	23.5	25.5	26.5	25.0	25.5	25.5	24.0	24.5
24	26.5	23.0	25.0	27.0	24.0	25.5	27.0	24.5	25.5	25.5	23.5	24.5
25	26.5	23.5	25.0	27.5	24.0	26.0	26.5	23.5	25.0	25.5	23.5	24.5
26	27.0	24.5	25.5	27.5	25.0	26.0	26.5	23.5	25.0	25.5	23.5	24.5
27	27.5	24.5	26.0	28.0	25.5	26.5	27.0	24.5	25.5	25.5	23.5	24.5
28	27.5	24.5	25.5	27.5	25.5	26.5	27.0	24.0	25.5	25.5	23.5	24.5
29	27.0	24.0	25.5	28.0	25.0	26.5	27.0	24.5	25.5	25.0	23.0	24.0
30	26.5	23.5	25.0	28.0	25.0	26.5	27.0	24.5	26.0	26.0	22.5	24.0
31	---	---	---	28.0	25.0	26.5	27.0	24.5	26.0	---	---	---
MONTH	27.5	22.0	24.5	28.0	22.5	25.5	29.0	23.5	26.0	27.0	22.5	24.5
YEAR	29.0	12.0	20.0									

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2470	1970	2210	2320	2140	2220	---	---	---	2510	2370	2460
2	2070	1930	2000	2210	2090	2130	---	---	---	2710	2520	2630
3	2050	1930	1990	2330	2130	2230	---	---	---	2950	2700	2840
4	2050	1870	1970	2290	2130	2200	---	---	---	3140	2840	3010
5	1970	1810	1920	2240	2120	2170	---	---	---	3150	1890	2450
6	2050	1890	1980	2240	2000	2160	---	---	---	2490	2070	2160
7	2190	1990	2090	2070	1860	1980	---	---	---	2250	2040	2180
8	2210	2050	2110	2070	1910	1990	---	---	---	2510	2240	2350
9	2210	1990	2120	1960	1830	1890	---	---	---	2600	2430	2530
10	2170	1990	2090	2030	1840	1910	---	---	---	2660	2470	2530
11	---	---	---	1990	1870	1940	---	---	---	2680	2480	2530
12	---	---	---	2080	1890	1970	---	---	---	2650	2470	2540
13	---	---	---	2300	1990	2110	---	---	---	2660	2490	2570
14	---	---	---	2170	1990	2060	---	---	---	2720	2500	2610
15	---	---	---	2210	2110	2160	2290	2150	2210	2710	2530	2610
16	---	---	---	---	---	---	2430	2280	2340	2740	2550	2640
17	---	---	---	---	---	---	2490	2340	2430	2740	2580	2640
18	---	---	---	---	---	---	2430	2250	2360	2730	2570	2630
19	---	---	---	---	---	---	2340	2220	2300	2800	2590	2670
20	---	---	---	2450	2400	2420	2310	1790	2120	2770	2600	2690
21	---	---	---	2450	2370	2400	2300	1870	2120	---	---	---
22	---	---	---	2540	2210	2470	2400	2260	2320	---	---	---
23	---	---	---	2570	2140	2480	2470	2290	2370	---	---	---
24	---	---	---	---	---	---	2520	2240	2360	2570	2370	2470
25	2300	1960	2100	---	---	---	2390	2230	2310	2560	2410	2480
26	2330	1930	2200	---	---	---	2400	2230	2330	2570	2440	2500
27	2290	1910	2110	---	---	---	2450	2270	2340	2620	2470	2550
28	2350	2130	2230	---	---	---	2410	2270	2330	2640	2500	2580
29	2330	2150	2240	---	---	---	2420	2200	2350	2650	2420	2530
30	2300	2200	2250	---	---	---	2430	2230	2320	2570	2410	2520
31	2280	2100	2200	---	---	---	2360	2230	2300	2640	2400	2520
MONTH	2470	1810	2110	2570	1830	2150	2520	1790	2310	3150	1890	2550

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2610	2430	2520	---	---	---	---	---	---	2360	2260	2290
2	2620	2420	2500	---	---	---	---	---	---	2350	2250	2290
3	2690	2490	2570	---	---	---	---	---	---	2340	2220	2290
4	2720	2520	2600	---	---	---	---	---	---	2430	2290	2350
5	2710	2490	2600	---	---	---	---	---	---	2470	2330	2380
6	2740	2550	2630	---	---	---	---	---	---	2460	2320	2360
7	2680	2500	2560	---	---	---	---	---	---	2390	2270	2320
8	2650	2480	2530	---	---	---	---	---	---	2460	2290	2340
9	2640	2500	2560	---	---	---	---	---	---	2400	2220	2300
10	2670	2490	2590	2450	2330	2410	---	---	---	2280	2120	2200
11	2680	2480	2580	2660	2440	2510	---	---	---	2180	2080	2120
12	2650	2510	2590	2650	2460	2550	---	---	---	2180	2080	2130
13	2620	2470	2540	2770	2540	2610	---	---	---	2220	2120	2160
14	2570	2360	2460	2670	2540	2590	---	---	---	2230	2090	2150
15	2530	2360	2420	2730	2560	2620	---	---	---	---	---	---
16	2560	2410	2460	2770	2410	2600	---	---	---	---	---	---
17	2530	2360	2440	---	---	---	---	---	---	---	---	---
18	2580	2370	2460	---	---	---	---	---	---	---	---	---
19	2400	2180	2280	---	---	---	---	---	---	---	---	---
20	2370	2200	2280	---	---	---	---	---	---	---	---	---
21	2420	2270	2330	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	2470	2350	2400	---	---	---
24	2540	2370	2410	---	---	---	2460	2320	2380	---	---	---
25	---	---	---	---	---	---	2410	2300	2340	---	---	---
26	---	---	---	---	---	---	2420	2170	2330	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	2370	2170	2250	---	---	---
29	---	---	---	---	---	---	2280	2170	2220	---	---	---
30	---	---	---	---	---	---	2310	2230	2270	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	2740	2180	2500	2770	2330	2560	2470	2170	2310	2470	2080	2260

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	2260	2140	2180	2360	2320	2330	2340	2280	2300
2	---	---	---	2280	2140	2200	2360	2320	2340	2300	2220	2260
3	---	---	---	2240	2120	2160	2380	2320	2360	---	---	---
4	---	---	---	2250	2110	2160	2400	2340	2370	---	---	---
5	---	---	---	2170	2070	2110	2380	2340	2360	---	---	---
6	---	---	---	2170	2070	2120	2360	2340	2350	---	---	---
7	---	---	---	2170	2090	2130	2360	2320	2350	---	---	---
8	---	---	---	2220	2070	2140	2380	2340	2360	---	---	---
9	---	---	---	2170	2040	2100	2340	2300	2330	---	---	---
10	---	---	---	2190	2020	2100	2340	2280	2310	---	---	---
11	---	---	---	2100	1970	2040	2380	2320	2360	---	---	---
12	---	---	---	2080	1930	2000	2380	2340	2370	---	---	---
13	2160	2010	2060	2070	1940	1980	2360	2300	2340	---	---	---
14	2160	2120	2140	2060	1940	1980	2360	2320	2330	---	---	---
15	2160	2120	2130	2000	1910	1940	2360	2320	2340	---	---	---
16	2160	2120	2130	1900	1710	1810	2360	2320	2340	---	---	---
17	2180	2120	2150	1740	1610	1690	2360	2320	2330	2170	2130	2160
18	2200	2160	2180	1820	1730	1780	2400	2320	2370	2190	2160	2170
19	2200	2160	2180	1860	1780	1810	2400	2360	2380	2200	2160	2170
20	2260	2160	2200	1910	1790	1860	2380	2340	2350	2180	2130	2150
21	2180	2120	2160	1940	1890	1920	2380	2340	2360	2130	1880	2030
22	2160	2120	2140	1990	1900	1950	2400	2340	2370	---	---	---
23	2180	2140	2150	2050	1960	2000	2380	2320	2360	---	---	---
24	2200	2140	2170	2060	1990	2030	2360	2320	2330	---	---	---
25	2260	2160	2200	2120	2030	2070	2400	2320	2350	---	---	---
26	2260	2200	2220	2110	2040	2070	2400	2320	2360	---	---	---
27	2280	2180	2230	2170	2050	2110	2340	2300	2320	---	---	---
28	2220	2180	2190	2360	2120	2220	2340	2300	2310	---	---	---
29	2260	2160	2210	2360	2260	2310	2360	2280	2320	---	---	---
30	2240	2140	2190	2320	2280	2300	2340	2260	2300	---	---	---
31	---	---	---	2380	2320	2340	2320	2260	2290	---	---	---
MONTH	2280	2010	2170	2380	1610	2050	2400	2260	2340	2340	1880	2180
YEAR	3150	1610	2290									

09419755 LAS VEGAS WASH AT POWERLINE CROSSING BELOW HENDERSON, NV

WATER-QUALITY RECORDS

LOCATION.--Lat 36°06'55", long 114°56'16", in SW1/4SW1/4 sec.22, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank, about 3 mi upstream from high-water line of Lake Mead, about 3 mi downstream from Pabco Road, and about 4.5 mi northeast of Henderson.

DRAINAGE AREA.--2,185 mi^2, approximately.

PERIOD OF RECORD.--February 1986 to September 1987 (discontinued).
SPECIFIC CONDUCTANCES: February 1986 to September 1987, hourly.
WATER TEMPERATURES: February 1986 to September 1987, hourly.

INSTRUMENTATION.--Specific conductance and temperature recorder since February 1986.

REMARKS.--Discharge includes sewage effluent and wastewater from industrial plants. Periods of no record for daily specific conductance and temperature are due to recorder malfunctions and periodic burial of the probes by sediment deposits. Records are poor due to variable accumulation of sediment near the recorder probes.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 3,430 microsiemens June 4, 1986; minimum, 1,910 microsiemens July 17, 1987.
WATER TEMPERATURES: Maximum, 29.5°C June 27, July 14, and several days in August 1987; minimum, 7.5°C Jan. 8, 1987.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,090 microsiemens Mar. 8; minimum, 1,910 microsiemens July 17.
WATER TEMPERATURES: Maximum, 29.5°C June 27, July 14, and several days in August; minimum, 7.5°C Jan. 8.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	20.0	21.0	19.0	18.0	18.5	---	---	---	16.5	15.0	15.5
2	22.5	20.5	21.0	19.5	18.0	18.5	---	---	---	17.0	15.0	16.0
3	22.0	19.5	21.0	20.0	18.0	19.0	---	---	---	17.0	15.0	16.0
4	22.0	20.0	21.0	20.0	18.0	19.0	---	---	---	16.5	15.5	16.0
5	22.0	19.5	21.0	20.5	18.0	19.0	18.0	16.5	17.5	16.5	10.5	13.0
6	23.0	21.0	22.0	19.0	17.5	18.5	18.0	17.5	18.0	16.0	12.5	14.5
7	23.0	20.5	22.0	18.0	17.0	17.5	18.0	17.0	17.5	16.0	9.0	14.5
8	23.0	20.5	22.0	18.5	16.5	17.5	18.0	16.5	17.0	12.5	7.5	10.5
9	22.5	20.5	21.5	18.5	16.0	17.0	17.5	15.5	16.5	14.5	12.5	13.5
10	22.5	21.5	22.0	18.5	16.0	17.5	16.5	15.0	15.5	15.0	14.0	14.5
11	21.5	20.0	21.0	18.5	16.5	17.5	16.5	15.0	15.5	15.5	14.0	14.5
12	20.5	19.0	19.5	19.0	17.0	18.0	16.0	15.5	16.0	15.5	14.0	15.0
13	20.5	18.0	19.5	19.0	17.0	18.0	16.0	16.0	16.0	16.0	14.5	15.0
14	21.0	18.0	19.5	19.0	17.0	18.0	16.0	16.0	16.0	16.0	15.0	15.5
15	21.0	18.0	19.5	19.5	17.5	18.5	16.5	16.0	16.5	15.0	14.5	15.0
16	21.5	19.0	20.5	19.5	17.5	18.5	16.5	16.0	16.5	14.5	13.5	14.0
17	21.5	19.5	20.5	19.5	18.5	19.0	18.0	16.5	17.0	14.5	13.5	14.0
18	21.0	19.0	20.0	19.5	15.5	18.0	17.5	16.0	16.5	15.5	14.0	15.0
19	20.5	19.5	20.0	18.5	14.5	16.5	17.5	16.0	17.0	16.0	15.5	15.5
20	21.0	19.5	20.0	20.0	18.0	19.0	18.0	15.5	17.0	16.0	15.0	15.5
21	21.0	18.5	20.0	19.5	18.0	19.0	16.5	15.5	16.0	16.5	14.5	15.5
22	21.0	18.5	20.0	19.0	17.5	18.0	16.5	16.0	16.5	16.0	14.0	15.0
23	21.0	18.5	20.0	18.5	17.0	17.5	17.0	16.5	16.5	16.0	14.0	15.0
24	21.0	19.0	20.0	18.5	16.5	17.5	16.5	16.0	16.5	16.0	14.0	15.0
25	21.0	18.5	20.0	18.0	16.5	17.0	16.5	16.0	16.0	16.5	14.0	15.0
26	21.5	19.0	20.0	17.5	15.5	16.5	16.0	16.0	16.0	16.5	14.0	15.5
27	21.5	19.0	20.5	17.5	15.5	16.5	16.0	16.0	16.0	16.5	15.5	16.0
28	21.0	19.0	20.0	---	---	---	16.5	16.0	16.0	17.0	16.0	16.5
29	21.5	19.5	20.5	---	---	---	16.5	16.0	16.0	17.5	15.5	16.0
30	21.5	20.5	21.0	---	---	---	16.0	15.5	16.0	16.5	15.0	16.0
31	20.5	19.0	20.0	---	---	---	17.0	15.5	16.0	17.0	15.0	16.0
MONTH	23.0	18.0	20.5	20.5	14.5	18.0	18.0	15.0	16.5	17.5	7.5	15.0

09419755 LAS VEGAS WASH AT POWERLINE CROSSING BELOW HENDERSON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	17.0	14.5	15.5	18.0	14.5	16.0	21.0	16.0	18.5	22.5	19.0	20.5
2	16.0	14.5	15.5	18.0	15.0	16.5	21.5	16.5	19.0	23.0	18.5	20.5
3	16.5	15.0	15.5	18.5	15.0	16.5	20.5	17.0	18.0	23.0	19.0	20.5
4	17.0	15.0	16.0	18.5	15.5	17.0	19.0	17.0	17.5	23.5	19.0	21.0
5	17.0	14.5	15.5	17.5	16.0	17.0	20.5	16.5	18.0	24.5	19.0	21.5
6	17.0	14.0	15.5	19.0	17.5	18.0	22.0	17.5	19.5	25.5	20.0	22.5
7	17.0	15.0	16.0	19.0	15.0	17.0	22.0	17.5	19.5	25.5	21.5	23.0
8	17.5	15.0	16.5	19.0	15.0	17.0	22.0	17.5	19.5	25.5	21.5	23.0
9	17.5	15.5	16.5	19.5	16.5	18.0	22.5	18.0	20.0	---	---	---
10	19.0	16.5	17.5	19.5	16.0	18.0	22.0	18.0	20.0	---	---	---
11	18.5	16.5	17.5	20.0	16.5	18.0	21.5	19.0	20.0	---	---	---
12	19.0	16.5	18.0	20.0	16.5	18.0	20.5	17.5	19.0	---	---	---
13	---	---	---	19.5	17.0	18.0	21.0	16.5	18.5	---	---	---
14	---	---	---	20.0	16.5	18.0	22.0	17.0	19.5	---	---	---
15	---	---	---	18.0	15.5	16.5	22.5	17.5	20.0	---	---	---
16	---	---	---	19.0	15.5	17.0	23.0	18.0	20.5	---	---	---
17	---	---	---	19.5	16.0	17.5	---	---	---	---	---	---
18	---	---	---	20.0	16.5	17.5	21.5	17.5	19.5	---	---	---
19	---	---	---	17.5	15.0	16.0	20.0	15.5	17.5	---	---	---
20	---	---	---	18.5	14.5	16.5	20.5	16.0	18.0	---	---	---
21	---	---	---	18.5	15.5	16.5	21.5	16.0	18.5	---	---	---
22	---	---	---	16.5	15.0	15.5	22.5	17.0	19.5	---	---	---
23	---	---	---	18.0	15.0	16.0	23.0	18.0	20.5	---	---	---
24	---	---	---	18.5	15.0	17.0	23.5	19.0	21.0	---	---	---
25	---	---	---	19.0	16.0	17.0	24.5	19.5	21.5	---	---	---
26	---	---	---	20.0	15.5	17.5	24.5	20.0	22.0	---	---	---
27	---	---	---	19.0	15.5	17.0	24.5	20.0	22.0	---	---	---
28	17.0	14.0	15.5	19.0	15.0	16.5	25.0	20.5	22.5	---	---	---
29	---	---	---	18.0	15.0	16.0	23.5	21.0	22.0	---	---	---
30	---	---	---	19.0	14.5	16.5	23.0	20.0	21.5	---	---	---
31	---	---	---	20.0	15.0	17.0	---	---	---	---	---	---
MONTH	19.0	14.0	16.0	20.0	14.5	17.0	25.0	15.5	20.0	25.5	18.5	21.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	28.0	22.5	25.0	28.5	23.5	26.0	27.5	24.0	25.5
2	---	---	---	28.0	23.0	25.0	29.5	25.0	26.5	28.0	24.0	25.5
3	26.5	20.5	23.5	27.5	23.0	25.0	29.0	25.5	26.5	27.0	24.0	25.0
4	26.0	21.0	23.0	28.0	22.5	24.5	29.5	25.0	27.0	27.0	24.0	24.5
5	26.0	22.5	24.0	28.0	22.5	24.5	29.5	25.5	27.0	27.0	23.5	25.0
6	25.0	22.5	23.5	28.0	23.0	25.0	29.5	25.5	27.0	27.0	23.5	25.0
7	26.5	22.0	24.0	28.5	23.0	25.5	29.0	25.5	27.0	27.0	23.0	24.5
8	27.5	22.5	24.0	28.0	23.5	25.0	28.5	25.5	26.5	26.5	22.5	24.5
9	27.5	22.0	24.5	27.5	23.5	24.5	29.5	24.5	26.5	26.5	22.5	24.0
10	27.5	22.0	24.5	27.0	23.0	24.5	28.5	24.0	26.0	26.5	23.0	24.5
11	27.0	22.0	24.5	28.0	23.0	25.0	28.0	24.5	26.0	26.0	22.0	24.0
12	27.5	22.0	25.0	28.5	23.5	25.5	28.5	24.5	26.0	25.5	22.5	23.5
13	28.5	23.0	25.5	29.0	23.0	26.0	27.5	23.5	25.5	25.0	21.5	23.0
14	28.0	23.5	25.5	29.5	23.5	26.0	26.5	23.5	25.0	25.5	22.0	23.5
15	25.5	22.0	23.5	29.0	24.5	26.5	27.0	22.5	24.5	25.5	22.0	23.5
16	26.5	21.5	23.5	27.0	24.5	25.0	27.0	22.0	24.5	26.0	22.5	24.0
17	26.5	21.5	23.5	26.0	21.5	24.0	27.5	22.0	24.5	26.0	21.5	23.5
18	26.5	21.5	23.5	25.5	21.0	23.0	27.5	22.5	25.0	25.5	22.0	23.5
19	27.0	21.5	24.0	25.5	21.0	23.0	27.5	23.0	25.0	26.0	22.0	23.5
20	27.5	22.0	24.0	24.5	21.5	23.0	27.0	24.0	25.0	26.0	22.0	24.0
21	27.0	22.0	24.5	26.5	22.5	24.0	27.5	24.0	25.5	26.0	22.0	24.0
22	27.5	22.5	24.5	27.0	22.0	24.0	27.0	23.5	25.0	25.0	22.0	23.5
23	28.0	22.5	25.0	27.0	22.0	24.5	26.5	24.0	25.0	26.0	23.5	24.5
24	28.0	22.5	25.0	27.0	22.0	24.0	27.5	23.5	25.0	25.5	23.0	24.0
25	28.5	23.0	25.0	27.5	22.0	24.5	27.5	22.5	24.5	26.0	22.5	24.0
26	29.0	24.0	26.0	27.0	23.0	25.0	27.5	23.0	25.0	26.0	22.5	24.0
27	29.5	24.0	26.5	28.0	24.0	25.5	27.5	23.5	25.0	26.0	22.5	24.0
28	29.0	24.0	26.0	27.0	24.0	25.0	27.5	23.5	25.0	26.0	22.5	24.0
29	28.5	23.5	25.5	28.0	23.0	25.5	27.5	23.5	25.5	25.5	22.0	23.5
30	28.0	23.5	25.5	28.5	23.5	25.5	28.0	23.5	25.5	25.5	21.5	23.0
31	---	---	---	28.5	23.0	25.5	28.0	23.5	25.5	---	---	---
MONTH	29.5	20.5	24.5	29.5	21.0	25.0	29.5	22.0	25.5	28.0	21.5	24.0
YEAR	29.5	7.5	20.5									

09419755 LAS VEGAS WASH AT POWERLINE CROSSING BELOW HENDERSON, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	2580	2410	2470	---	---	---	---	---	---
2	---	---	---	2560	2400	2450	---	---	---	---	---	---
3	---	---	---	2540	2350	2440	---	---	---	---	---	---
4	---	---	---	2610	2420	2490	---	---	---	---	---	---
5	---	---	---	2590	2420	2480	2550	2440	2480	---	---	---
6	---	---	---	2610	2470	2540	2570	2440	2490	---	---	---
7	---	---	---	2660	2480	2560	2530	2360	2450	---	---	---
8	2380	2140	2230	---	---	---	2540	2380	2470	---	---	---
9	2370	2190	2260	---	---	---	2540	2450	2480	---	---	---
10	2350	2170	2250	---	---	---	2610	2450	2530	---	---	---
11	2350	2160	2240	---	---	---	2600	2420	2510	---	---	---
12	2300	2160	2210	---	---	---	2620	2460	2530	---	---	---
13	2320	2170	2230	---	---	---	2640	2460	2540	---	---	---
14	2420	2220	2300	---	---	---	2670	2520	2570	---	---	---
15	2440	2250	2340	---	---	---	2700	2530	2590	---	---	---
16	2450	2250	2340	---	---	---	2660	2550	2600	---	---	---
17	2460	2290	2370	---	---	---	2720	2590	2650	---	---	---
18	2510	2260	2400	---	---	---	---	---	---	---	---	---
19	2400	2290	2340	---	---	---	---	---	---	---	---	---
20	2480	2290	2370	---	---	---	---	---	---	---	---	---
21	2460	2310	2370	---	---	---	---	---	---	---	---	---
22	2490	2330	2390	---	---	---	---	---	---	---	---	---
23	2450	2330	2390	---	---	---	---	---	---	2730	2560	2650
24	2530	2330	2420	---	---	---	---	---	---	2760	2590	2650
25	2520	2340	2410	---	---	---	---	---	---	2780	2580	2640
26	2530	2330	2410	---	---	---	---	---	---	2740	2580	2630
27	2470	2320	2390	---	---	---	---	---	---	2750	2600	2670
28	2580	2350	2430	---	---	---	---	---	---	2790	2580	2690
29	2550	2390	2450	---	---	---	---	---	---	2810	2580	2710
30	2550	2390	2450	---	---	---	---	---	---	2800	2620	2710
31	2540	2380	2440	---	---	---	---	---	---	2880	2610	2740
MONTH	2580	2140	2350	2660	2350	2490	2720	2360	2530	2880	2560	2680

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2870	2660	2740	2840	2630	2700	2890	2720	2780	2660	2550	2590
2	2870	2630	2710	2830	2640	2720	2890	2730	2800	2680	2540	2590
3	2890	2690	2760	2920	2720	2800	2940	2730	2820	2670	2550	2600
4	2920	2700	2790	2900	2700	2790	2880	2550	2740	2720	2560	2620
5	2910	2690	2780	2910	2710	2790	2930	2590	2760	2760	2590	2650
6	2940	2740	2810	2890	2710	2780	2940	2740	2810	2790	2610	2660
7	2870	2670	2750	2890	2360	2680	2890	2690	2790	2750	2550	2630
8	2840	2640	2710	3090	2600	2860	2930	2730	2780	2730	2540	2600
9	2810	2660	2730	3050	2810	2890	2880	2700	2770	2770	2510	2610
10	2800	2610	2730	3030	2810	2900	2800	2700	2760	2700	2500	2570
11	2790	2620	2720	3010	2810	2890	2820	2650	2720	2670	2510	2560
12	2820	2660	2740	2970	2750	2840	2830	2570	2680	2730	2550	2600
13	2820	2640	2710	3000	2750	2820	2700	2560	2600	2750	2560	2620
14	2880	2630	2720	2900	2710	2780	2720	2570	2640	2860	2570	2680
15	2840	2590	2680	2870	2660	2750	2720	2590	2640	2750	2600	2650
16	2790	2620	2680	2870	2660	2740	2740	2600	2660	2750	2030	2470
17	2770	2600	2670	2930	2730	2790	2760	2570	2660	2880	2510	2680
18	2800	2580	2660	2990	2720	2830	2760	2580	2650	2810	2630	2700
19	2830	2610	2690	3000	2810	2860	2740	2560	2630	2860	2630	2710
20	2820	2620	2700	2910	2720	2820	2730	2560	2610	2860	2670	2740
21	2870	2670	2720	2990	2730	2820	2720	2560	2620	2810	2630	2710
22	2910	2590	2660	2840	2610	2730	2700	2550	2610	2860	2650	2720
23	2760	2570	2660	2840	2660	2740	2730	2590	2650	2900	2600	2680
24	2880	2610	2670	2890	2640	2740	2700	2560	2610	2770	2560	2630
25	2760	2590	2670	2800	2660	2710	2670	2540	2590	2740	2540	2600
26	2870	2590	2720	2880	2620	2720	2710	2520	2590	2760	2540	2600
27	2840	2640	2760	2780	2620	2690	2650	2520	2570	2720	2550	2600
28	2920	2670	2790	2830	2670	2740	2680	2510	2560	2720	2530	2600
29	---	---	---	2880	2630	2730	2660	2510	2560	2740	2510	2590
30	---	---	---	2820	2630	2720	2620	2510	2570	2720	2440	2570
31	---	---	---	2920	2690	2790	---	---	---	2630	2420	2490
MONTH	2940	2570	2720	3090	2360	2780	2940	2510	2670	2900	2030	2620

09419755 LAS VEGAS WASH AT POWERLINE CROSSING BELOW HENDERSON, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2610	2420	2490	2570	2360	2430	2380	2230	2280	2540	2330	2410
2	2680	2460	2520	2590	2360	2460	2410	2260	2310	2490	2350	2400
3	2680	2440	2510	2540	2330	2400	2480	2280	2360	2530	2360	2430
4	2570	2400	2460	2550	2330	2400	2550	2350	2410	2620	2370	2480
5	2550	2360	2430	2490	2280	2360	2480	2330	2390	2780	2340	2510
6	2520	2350	2420	2450	2260	2330	2470	2340	2380	2530	2330	2410
7	2320	2050	2220	2450	2290	2340	2470	2310	2370	2540	2320	2390
8	2540	2340	2390	2510	2320	2390	2480	2300	2370	2520	2340	2400
9	2540	2330	2430	2480	2290	2370	2390	2230	2300	2430	2300	2360
10	2650	2390	2470	2530	2330	2390	2410	2210	2300	2420	2270	2330
11	2560	2380	2450	2450	2320	2360	2450	2280	2360	2380	2260	2300
12	2610	2410	2460	2410	2240	2310	2440	2290	2360	2380	2240	2300
13	2650	2290	2490	2390	2220	2270	2440	2270	2340	2410	2260	2310
14	2540	2380	2430	2410	2210	2270	2460	2270	2350	2390	2240	2310
15	2610	2420	2460	2260	2080	2160	2450	2270	2340	2440	2270	2350
16	2550	2380	2460	2170	2040	2090	2500	2280	2360	2440	2310	2370
17	2560	2410	2460	2070	1910	1980	2490	2280	2350	2520	2340	2400
18	2640	2430	2500	2140	1990	2060	2560	2310	2420	2440	2320	2360
19	2580	2410	2450	2300	2070	2180	2540	2340	2400	2460	2280	2360
20	2690	2380	2520	2320	2150	2230	2480	2320	2360	2380	2200	2290
21	2540	2370	2410	2470	2240	2360	2500	2310	2380	2340	2200	2260
22	2560	2360	2420	2480	2310	2370	2540	2330	2400	2370	2230	2280
23	2560	2360	2430	2500	2310	2380	2530	2300	2380	2390	2240	2300
24	2560	2360	2430	2480	2300	2360	2510	2300	2360	2360	2240	2290
25	2790	2380	2500	2510	2290	2370	2620	2320	2410	2380	2250	2320
26	2650	2470	2520	2410	2240	2310	2570	2340	2420	2440	2250	2330
27	2640	2400	2490	2420	2240	2320	2450	2290	2360	2410	2230	2300
28	2460	2360	2390	2440	2280	2330	2460	2300	2350	2340	2230	2260
29	2560	2350	2430	2510	2270	2360	2490	2300	2370	2350	2230	2280
30	2540	2370	2430	2410	2260	2310	2480	2290	2350	2720	2280	2420
31	---	---	---	2480	2230	2340	2460	2280	2350	---	---	---
MONTH	2790	2050	2450	2590	1910	2310	2620	2210	2360	2780	2200	2350
YEAR	3090	1910	2520									

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION--Lat 36°00'58", long 114°44'13", in NE1/4SW1/4 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 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

RESERVOIR-CONTENTS RECORDS

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

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

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

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr. 1, 1967), 29,755,000 acre-ft, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 850.0 ft--gage sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,211.4 ft (top of automatic spillway gates in raised position; and uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft) and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, and power development. Figures given herein represent usable contents.

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,523,000 acre-ft, Feb. 12, gage height, 1,210.83 ft; minimum, 23,738,000 acre-ft, June 17, gage height, 1,205.60 ft.

COLORADO RIVER MAIN STEM

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

RESERVOIR STORAGE (THOU AC-FT) WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24225	24199	24362	24462	24445	24479	24180	24042	23795	23897	24078	24351
2	24232	24199	24370	24462	24457	24469	24180	24046	23798	23907	24090	24317
3	24226	24195	24377	24465	24454	24454	24171	24042	23803	23916	24087	24318
4	24228	24184	24391	24473	24466	24447	24157	24034	23803	23925	24102	24327
5	24225	24183	24401	24471	24465	24445	24305	24025	23785	23932	24106	24329
6	24222	24174	24421	24466	24476	24438	24139	24019	23770	23932	24114	24332
7	24225	24172	24438	24457	24491	24445	24124	24016	23792	23925	24112	24330
8	24229	24180	24451	24447	24507	24448	24111	23998	23781	23927	24138	24323
9	24229	24181	24463	24438	24513	24435	24102	23995	23772	23930	24145	24330
10	24226	24181	24465	24453	24515	24429	24091	24001	23764	23930	24150	24336
11	24228	24181	24471	24465	24521	24421	24084	23983	23757	23934	24150	24335
12	24235	24187	24474	24474	24523	24407	24085	23967	23751	23938	24166	24333
13	24235	24192	24492	24465	24512	24392	24076	23961	23752	23940	24153	24339
14	24232	24195	24504	24462	24512	24391	24070	23956	23754	23938	24145	24329
15	24229	24213	24506	24448	24521	24380	24070	23955	23743	23941	24145	24326
16	24235	24228	24503	24436	24516	24371	24067	23959	23740	23946	24157	24333
17	24228	24241	24495	24447	24512	24350	24055	23950	23738	23949	24162	24336
18	24234	24255	24489	24460	24503	24335	24043	23935	23742	23959	24168	24347
19	24243	24270	24485	24454	24495	24317	24057	23919	23748	23964	24177	24356
20	24240	24276	24497	24451	24486	24305	24048	23891	23761	23964	24186	24368
21	24243	24279	24506	24418	24486	24305	24037	23880	23775	23968	24196	24373
22	24234	24290	24506	24416	24495	24287	24036	23865	23785	23974	24222	24370
23	24234	24305	24503	24410	24485	24270	24031	23856	23797	23983	24244	24382
24	24226	24309	24501	24416	24486	24255	24025	23846	23810	23992	24253	24374
25	24229	24309	24506	24427	24497	24246	24036	23833	23822	24004	24259	24368
26	24234	24317	24494	24429	24492	24234	24037	23812	23837	24015	24276	24373
27	24229	24329	24489	24424	24488	24225	24042	23800	23848	24022	24281	24377
28	24225	24344	24488	24424	24485	24219	24042	23792	23864	24027	24288	24376
29	24216	24355	24474	24426	---	24208	24043	23798	23873	24037	24306	24367
30	24211	24362	24463	24426	---	24193	24046	23797	23886	24054	24315	24365
31	24201	---	24456	24432	---	24181	---	23795	---	24066	24330	---
MAX	24243	24362	24506	24474	24523	24479	24305	24046	23886	24066	24330	24382
MIN	24201	24172	24362	24410	24445	24181	24025	23792	23738	23897	24078	24317
*	1208.70	1209.77	1210.39	1210.23	1210.58	1208.57	1207.67	1205.99	1206.60	1207.80	1209.56	1209.79
#	-19000	+161000	+94000	-24000	+53000	-304000	-135000	-251000	+91000	+180000	+264000	+35000
##	12760	11330	9540	10510	10680	12850	16280	17780	18640	21210	17980	20890
**	5.9	5.1	6.1	3.4	3.1	3.8	3.1	5.5	6.6	8.8	7.5	6.8
a	74300	63700	77200	43100	39200	47500	38700	67800	81300	108900	93900	86200

CAL YR 1986 MAX 24506 MIN 23123 # +735000 ## 175520 ** 68.8 a 858000
WTR YR 1987 MAX 24523 MIN 23738 # +145000 ## 180450 ** 65.7 a 821800

* 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.
a Gross evaporation, in acre-feet, from Lake Mead.

NOTE.--Figures of gross evaporation are based on data obtained on Lake Mead by the U.S. Bureau of Reclamation and at Las Vegas by National Weather Service, and are computed by the Geological Survey. Only the mass-transfer method described in Geological Survey Professional Paper 298 is used. "Gross" denotes the total evaporation from the lake without decuction for precipitation on the lake surface for natural losses that would have occurred in the area now occupied by the lake. Starting February 1976, coefficient to 0.00179.

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 NE1/4SW1/4 sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW1/4NE1/4 sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

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

GAGE.--Acoustical velocity meters on each turbine in Hoover Dam. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi downstream at datum 594.8 ft, National Geodetic Vertical Datum of 1929. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi downstream at datum 600.35 ft, above 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.--53 years (water years 1935-87), 14,100 ft^3/s, 10,215,000 acre-ft/yr, unadjusted for storage in Lake Mead.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 33,000 ft^3/s, Jan. 7; minimum daily, 10,100 ft^3/s, June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21200	17700	20500	21900	20900	16400	18400	15400	17000	13400	15500	16800
2	22300	16900	21800	29100	24800	19700	17000	14400	15600	13700	14500	16200
3	22700	20600	21700	26200	24400	18800	16300	14000	16900	12700	18100	15600
4	15200	21400	22000	25600	23500	20300	14800	14200	17100	11600	18100	16100
5	18500	21000	22600	30400	22500	20600	13400	15600	16200	11800	17000	14500
6	19300	22100	18600	31500	22400	20000	16900	16000	13100	14000	17400	12700
7	18200	22200	17200	33000	16500	16700	16200	16800	13800	15600	16800	13600
8	19200	16800	21300	31200	16200	15500	16200	17600	15600	14300	13500	16200
9	18900	17400	22300	31200	20800	21100	16800	14700	16100	15500	13600	15100
10	20400	16700	21800	21500	19200	18700	16300	14100	15100	15000	16300	11600
11	15500	15100	23100	21900	19400	20100	15100	18100	15700	12900	16800	16500
12	14200	16100	24600	23900	20400	18700	13600	18000	17000	12500	18300	15000
13	18700	17200	17600	28700	20900	20500	17000	18400	11600	14600	18200	14200
14	20500	16500	19900	30800	18100	14600	17000	18300	10100	14000	18400	17600
15	21800	15500	25600	30400	15600	15700	15400	17000	14800	13800	15600	17000
16	18200	14900	27400	31900	20000	16400	17600	15200	15700	13800	13700	16700
17	20300	15800	27900	20500	20000	19200	16000	16800	14000	13700	17800	16200
18	13900	17400	27500	18400	22500	19200	14800	17400	16400	12700	18400	16300
19	14600	17600	27400	26000	23300	19500	13800	17300	15800	11500	18200	14300
20	20000	19300	12400	26500	20300	19700	17300	16200	11700	12900	19200	12900
21	19200	19800	20500	28000	18500	16300	18200	15200	11000	14300	18600	15600
22	19200	16700	26400	26500	17500	17000	16800	17600	14800	13900	14700	14600
23	19900	16700	26100	27900	23100	19400	17100	15700	15600	15000	13500	15600
24	20900	19700	26000	21200	20900	19200	18000	13900	13300	14600	17900	14400
25	17800	21400	22400	19100	23100	19100	13100	14700	14000	13300	16300	14500
26	16300	21000	25900	26200	21400	18200	14300	16500	14000	12800	16500	12400
27	21800	15600	21300	25900	20900	19100	18100	16500	12200	15100	17800	12200
28	21900	14900	22300	27600	17300	17700	18600	16900	11500	14500	17600	14400
29	20900	14800	27300	25000	---	18600	16400	14600	12500	14500	15100	13600
30	21100	14100	27900	26000	---	18400	17600	16000	12100	14600	13900	13300
31	21600	---	27300	23600	---	18700	---	15900	---	13500	17900	---
TOTAL	594200	532900	716600	817600	574400	573100	488100	499000	430300	426100	515200	445700
MEAN	19170	17760	23120	26370	20510	18490	16270	16100	14340	13750	16620	14860
MAX	22700	22200	27900	33000	24800	21100	18600	18400	17100	15600	19200	17600
MIN	13900	14100	12400	18400	15600	14600	13100	13900	10100	11500	13500	11600
AC-FT	1179000	1057000	1421000	1622000	1139000	1137000	968100	989800	853500	845200	1022000	884000

CAL YR 1986 TOTAL 8837300 MEAN 24210 MAX 37000 MIN 12400 AC-FT 17530000
WTR YR 1987 TOTAL 6613200 MEAN 18120 MAX 33000 MIN 10100 AC-FT 13120000

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1939 to current year.
CHEMICAL ANALYSES: October 1939 to September 1944, once daily (composited); October 1944 to July 1946 and November 1948 to July 1950, occasional (composited); October 1950 to September 1957, once daily (composited); October 1957 to September 1962, twice monthly (composited); October 1963 to September 1967, three times per month (composited); October 1967 to March 1970, once daily (composited); April 1970 to September 1981, monthly; October 1981 to September 1985, every two months; October 1985 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 September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: November 1974 to September 1981, monthly; October 1981 to September 1985, every two months; October 1985 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 September 1981, monthly; October 1981 to September 1985, every two months; October 1985 to current year, monthly.

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

REMARKS.--Samples collected 0.3 mi downstream from gaging station in Hoover Dam powerhouse. Unpublished chemical analyses for period October 1939 to September 1940 available from the U.S. Geological Survey in Tucson, Ariz.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE OCTOBER 1970.--
SPECIFIC CONDUCTANCES: Maximum, 1,230 microsiemens Jan. 18, 1972; minimum, 787 microsiemens Apr. 20, 1987.
PHYTOPLANKTON: Maximum, 3,800 cells/mL Nov. 5, 1974; minimum, 5 cells/mL Aug. 9, 1977.
FECAL STREPTOCOCCI: Maximum, 150 colonies/100 mL July 21, 1987; minimum, <1 colony/100 mL several times during period of record.
WATER TEMPERATURES: Maximum, 21.5°C July 23, 1983; minimum, 9.0°C Feb. 12, 1975, and Jan. 10, 1978.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 24 mg/L July 7, 1982; minimum, <1 mg/L on several days in 1976, Oct. 16, 1979, several days in 1980, Sept. 16, 1981, and Mar. 9, 1982.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 850 microsiemens several days in August; minimum, 787 microsiemens Apr. 20.
WATER TEMPERATURES: Maximum, 15.0°C Nov. 6; minimum, 11.5°C Mar. 24 and many days in Apr., May, June, and July.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	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											
27...	1330	29700	810	8.00	26.5	14.0	0.30	7.0	70	<2	K2
NOV											
26...	1230	24500	820	8.00	16.0	14.0	0.20	7.0	69	2	2
DEC											
18...	1130	30100	815	7.70	17.0	13.5	0.30	7.2	70	<2	<2
JAN											
21...	1130	30800	820	8.10	15.0	13.0	0.20	8.8	84	<2	69
FEB											
18...	1100	24100	818	8.10	17.0	13.0	0.50	8.5	83	K1	K1
MAR											
24...	1200	19400	823	8.10	22.0	11.5	1.0	9.3	88	<2	<2
APR											
23...	1200	18100	795	8.00	29.5	11.5	0.40	9.4	88	K1	<1
MAY											
27...	1130	19700	815	7.90	26.5	12.5	0.30	9.0	87	<2	56
JUN											
23...	1130	21400	818	7.80	33.0	12.0	0.20	9.5	91	<2	K2
JUL											
21...	1130	12200	830	8.20	30.0	12.0	0.40	9.1	87	<2	150
SEP											
01...	1130	10500	830	7.70	35.0	13.0	0.60	8.2	80	<2	K8

K: NON-IDEAL COLONY COUNT.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE IT-FLD (MG/L AS HCO3)	ALKALINITY, CARBONATE IT-FLD (MG/L CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT 27...	260	66	24	70	2	3.3	155	127	210	55	0.30
NOV 26...	270	68	24	70	2	3.4	155	127	220	56	0.30
DEC 18...	260	66	23	74	2	3.6	152	125	220	48	0.30
JAN 21...	260	66	24	70	2	3.5	152	125	210	50	0.30
FEB 18...	270	67	24	71	2	3.6	150	123	210	55	0.30
MAR 24...	260	66	24	70	2	3.4	160	131	210	44	0.20
APR 23...	260	67	23	66	2	3.7	157	129	210	52	0.40
MAY 27...	260	65	24	69	2	3.6	160	131	210	52	0.30
JUN 23...	260	64	24	69	2	3.8	155	127	210	54	0.30
JUL 21...	280	71	26	75	2	3.8	157	129	180	57	0.30
SEP 01...	270	68	24	70	2	3.7	167	137	220	53	0.20

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT 27...	9.1	528	510	0.72	<0.010	<0.010	0.400	0.390	0.060	0.040
NOV 26...	9.4	526	530	0.72	<0.010	<0.010	0.400	0.350	0.040	0.010
DEC 18...	8.9	512	520	0.70	<0.010	<0.010	0.400	0.360	0.050	0.050
JAN 21...	9.1	534	510	0.73	<0.010	<0.010	0.400	0.370	0.040	0.040
FEB 18...	9.1	524	510	0.71	0.330	<0.010	<0.100	0.330	0.050	0.040
MAR 24...	9.4	523	510	0.71	<0.010	<0.010	0.400	0.350	0.050	0.020
APR 23...	9.1	522	510	0.71	<0.010	<0.010	0.300	0.320	0.060	0.060
MAY 27...	9.4	526	510	0.72	<0.010	<0.010	0.300	0.330	0.060	0.050
JUN 23...	9.1	526	510	0.72	<0.010	<0.010	0.300	0.320	0.040	0.040
JUL 21...	9.9	541	500	0.74	<0.010	<0.010	0.300	0.220	0.010	0.030
SEP 01...	9.7	547	530	0.74	<0.010	<0.010	0.400	0.340	0.020	<0.010

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
OCT 27...	2.3	2.4	2.8	0.020	0.020	0.030	<0.010	--	--	--
NOV 26...	0.26	0.30	0.70	<0.010	<0.010	<0.010	<0.010	10	3	100
DEC 18...	0.15	0.20	0.60	<0.010	<0.010	<0.050	<0.010	--	--	--
JAN 21...	0.46	0.50	0.90	0.010	0.030	0.010	0.010	--	--	--
FEB 18...	3.5	3.5	--	0.010	0.010	<0.010	<0.010	--	--	--
MAR 24...	2.1	2.2	2.6	0.010	0.010	<0.010	<0.010	<10	2	99
APR 23...	0.94	1.0	1.3	0.010	0.040	<0.010	<0.010	--	--	--
MAY 27...	0.64	0.70	1.0	<0.010	0.030	<0.010	<0.010	<10	2	100
JUN 23...	0.56	0.60	0.90	0.030	0.020	<0.010	<0.010	--	--	--
JUL 21...	0.49	0.50	0.80	0.010	0.010	<0.010	<0.010	--	--	--
SEP 01...	0.38	0.40	0.80	0.010	0.010	<0.010	<0.010	20	2	100

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)
OCT 27...	--	--	--	--	--	--	--	--	--	--
NOV 26...	<0.5	1	<1	<3	2	<3	<5	40	<1	<0.1
DEC 18...	--	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 24...	<0.5	<1	<1	<3	<1	4	<5	38	<1	0.1
APR 23...	--	--	--	--	--	--	--	--	--	--
MAY 27...	<0.5	<1	<1	<3	1	9	<5	35	1	<0.1
JUN 23...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 01...	<0.5	2	1	<3	3	5	<5	29	2	<0.1

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	--	--	--	--	--	--	--	2	160	--
NOV 26...	<10	1	2	<1	840	<6	9	4	264	27
DEC 18...	--	--	--	--	--	--	--	1	81	--
JAN 21...	--	--	--	--	--	--	--	2	166	--
FEB 18...	--	--	--	--	--	--	--	2	130	58
MAR 24...	10	2	1	<1	840	<6	4	3	157	--
APR 23...	--	--	--	--	--	--	--	1	49	--
MAY 27...	<10	<1	<1	<1	850	<6	9	8	426	78
JUN 23...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 01...	<10	1	2	<1	850	<6	13	3	85	58

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	824	814	819	820	810	820	821	811	818	833	823	825
2	824	814	821	820	810	820	821	811	816	833	823	828
3	824	814	821	820	810	820	822	812	815	833	823	826
4	824	814	820	820	810	820	822	812	815	833	822	829
5	824	814	820	820	810	820	822	812	813	832	822	829
6	823	813	820	820	810	815	822	802	812	832	822	828
7	833	813	820	820	810	810	823	812	815	832	822	830
8	823	813	820	820	810	812	823	813	818	832	822	828
9	823	813	820	820	810	811	823	813	817	832	822	828
10	823	813	821	810	810	810	823	813	819	832	822	827
11	823	813	820	830	810	812	824	813	819	832	821	825
12	822	812	820	830	810	810	824	814	819	831	821	826
13	822	812	820	820	810	811	834	814	820	831	821	826
14	822	812	820	820	810	811	824	814	820	831	821	826
15	822	812	820	820	810	810	824	814	820	831	821	828
16	822	812	820	820	800	810	825	814	820	831	821	829
17	832	812	820	820	800	810	825	815	817	831	821	826
18	822	811	820	820	800	820	825	815	822	830	820	826
19	821	811	820	820	810	813	835	825	828	830	820	827
20	821	811	820	820	810	813	835	825	830	830	820	824
21	821	811	818	820	810	814	835	824	828	830	810	819
22	821	811	816	820	810	816	834	824	829	820	810	813
23	821	811	817	820	810	817	834	824	828	821	811	812
24	821	810	817	820	810	815	834	824	828	821	811	814
25	820	810	818	820	810	814	834	824	829	822	812	814
26	820	810	820	820	810	815	834	824	827	822	812	813
27	820	810	813	820	810	813	834	824	825	823	812	815
28	820	810	813	821	810	820	834	823	827	823	813	815
29	820	810	816	831	801	820	833	823	827	824	813	820
30	820	810	820	821	811	820	833	823	826	824	814	819
31	820	810	820	---	---	---	833	823	828	825	814	820
MONTH	833	810	819	831	800	815	835	802	822	833	810	823

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	825	815	821	821	811	817	820	809	813	822	801	811
2	825	815	820	831	811	818	819	808	814	813	802	808
3	826	816	824	821	811	818	818	808	816	823	803	811
4	826	816	823	821	811	821	828	798	812	814	804	810
5	827	816	823	831	821	823	817	807	813	825	805	813
6	827	817	823	831	821	823	816	806	814	826	806	818
7	828	817	823	831	821	824	825	805	812	827	816	819
8	828	818	825	831	821	825	815	805	810	818	807	815
9	828	818	825	831	821	823	814	804	808	819	808	816
10	829	818	824	831	811	821	814	803	810	829	809	820
11	829	819	822	831	811	821	823	803	809	830	810	819
12	830	819	824	831	811	821	822	802	812	831	810	821
13	830	820	823	831	811	821	821	792	806	832	811	822
14	831	820	824	831	811	819	811	801	806	833	812	825
15	831	821	825	831	811	821	811	800	808	824	813	822
16	831	821	823	821	811	817	819	800	808	834	814	822
17	832	821	824	831	821	828	819	799	809	825	815	823
18	832	812	823	831	811	819	819	798	808	836	815	827
19	832	822	828	831	811	817	818	788	805	836	816	825
20	832	822	825	831	811	821	817	787	799	828	817	825
21	832	822	822	821	810	814	816	796	801	828	818	826
22	832	812	822	830	810	815	806	795	801	839	819	828
23	822	812	818	830	810	818	805	795	801	840	820	831
24	822	812	817	830	810	821	806	796	804	841	820	831
25	822	812	821	820	810	815	807	797	806	842	821	830
26	832	812	821	820	810	815	808	797	805	833	822	828
27	822	812	816	820	810	815	809	798	805	833	815	830
28	832	811	820	830	810	818	810	799	805	842	822	830
29	---	---	---	820	810	815	810	800	806	832	821	830
30	---	---	---	820	810	815	811	800	807	841	830	834
31	---	---	---	820	810	812	---	---	---	840	820	831
MONTH	832	811	822	831	810	819	828	787	808	842	801	823

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	839	829	830	828	818	825	840	830	840	840	830	840
2	839	828	832	829	818	825	850	830	840	840	830	840
3	838	827	832	829	819	826	840	830	839	840	830	840
4	837	827	830	830	819	826	850	830	839	840	830	830
5	837	826	831	831	820	826	840	830	840	839	829	834
6	836	816	828	831	821	825	840	830	840	839	829	830
7	835	815	826	832	821	830	840	830	840	839	829	830
8	834	824	829	832	812	820	840	830	840	839	829	830
9	834	823	826	833	823	828	850	830	840	839	829	830
10	833	822	827	843	813	828	840	830	837	839	818	830
11	832	822	829	834	824	829	840	830	840	838	828	830
12	831	821	828	835	824	829	840	830	840	838	818	830
13	831	820	826	835	825	830	850	830	838	838	818	828
14	830	819	827	836	826	830	840	830	838	838	828	830
15	829	819	825	837	826	834	840	830	837	838	828	830
16	829	818	823	837	827	833	840	830	840	837	828	830
17	828	817	824	838	827	831	840	830	835	837	827	830
18	827	816	822	838	828	830	840	830	836	837	827	830
19	826	816	822	839	819	830	840	830	835	837	827	830
20	826	815	821	840	829	830	840	830	838	837	827	830
21	825	814	822	840	830	835	840	830	837	837	827	830
22	824	813	819	840	830	840	850	830	840	837	827	830
23	823	813	818	840	830	840	850	830	840	836	816	830
24	824	813	821	840	830	840	840	830	840	836	816	830
25	825	814	820	840	830	840	840	830	840	836	816	830
26	825	815	823	840	830	840	840	830	840	836	826	830
27	826	815	821	840	830	840	840	830	840	836	816	830
28	826	816	823	840	830	840	840	830	840	835	816	830
29	827	816	823	840	830	840	840	830	840	835	825	830
30	828	817	824	840	830	840	840	830	840	835	815	830
31	---	---	---	840	830	840	840	830	840	---	---	---
MONTH	839	813	825	843	812	832	850	830	839	840	815	831
YEAR	850	787	823									

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW1/4SW1/4 sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi west of Kingman, Ariz., and 67 mi downstream from Hoover Dam.

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,782,000 acre-ft, June 4, elevation, 646.02 ft; minimum, 1,378,000 acre-ft, Aug. 23, elevation, 630.78 ft.

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

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

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1395000	1450000	1421000	1518000	1723000	1702000	1780000	1728000	1768000	1629000	1427000	1408000
2	1402000	1442000	1428000	1534000	1726000	1700000	1778000	1724000	1770000	1623000	1421000	1411000
3	1409000	1445000	1435000	1536000	1729000	1703000	1771000	1721000	1774000	1615000	1421000	1410000
4	1400000	1447000	1441000	1538000	1736000	1707000	1765000	1716000	1780000	1609000	1420000	1412000
5	1398000	1450000	1449000	1555000	1737000	1711000	1755000	1714000	1781000	1601000	1419000	1412000
6	1399000	1457000	1453000	1579000	1737000	1713000	1754000	1711000	1774000	1596000	1417000	1406000
7	1398000	1463000	1453000	1601000	1729000	1712000	1751000	1709000	1767000	1591000	1416000	1403000
8	1399000	1463000	1457000	1625000	1719000	1708000	1748000	1710000	1766000	1590000	1407000	1404000
9	1401000	1461000	1468000	1646000	1717000	1713000	1751000	1706000	1768000	1586000	1401000	1406000
10	1403000	1460000	1473000	1639000	1715000	1714000	1748000	1703000	1767000	1580000	1398000	1400000
11	1400000	1452000	1481000	1634000	1716000	1715000	1746000	1707000	1769000	1570000	1399000	1401000
12	1393000	1446000	1484000	1629000	1715000	1717000	1742000	1711000	1770000	1562000	1401000	1403000
13	1394000	1442000	1474000	1640000	1715000	1721000	1743000	1713000	1758000	1556000	1399000	1405000
14	1397000	1437000	1473000	1647000	1715000	1715000	1741000	1715000	1742000	1547000	1399000	1410000
15	1404000	1433000	1481000	1659000	1707000	1710000	1736000	1718000	1737000	1542000	1396000	1414000
16	1406000	1425000	1492000	1672000	1708000	1707000	1736000	1721000	1734000	1536000	1389000	1418000
17	1410000	1421000	1506000	1667000	1707000	1711000	1732000	1722000	1728000	1530000	1390000	1420000
18	1405000	1420000	1518000	1658000	1710000	1712000	1725000	1722000	1731000	1520000	1392000	1424000
19	1400000	1420000	1522000	1669000	1717000	1717000	1721000	1736000	1728000	1511000	1393000	1426000
20	1403000	1421000	1518000	1673000	1715000	1723000	1721000	1743000	1719000	1501000	1398000	1426000
21	1406000	1427000	1512000	1685000	1710000	1723000	1725000	1743000	1707000	1495000	1401000	1429000
22	1408000	1426000	1511000	1691000	1704000	1726000	1725000	1749000	1702000	1491000	1393000	1433000
23	1410000	1422000	1514000	1701000	1702000	1731000	1727000	1750000	1698000	1485000	1385000	1437000
24	1414000	1424000	1516000	1703000	1708000	1735000	1730000	1747000	1695000	1478000	1391000	1438000
25	1415000	1433000	1512000	1695000	1712000	1742000	1724000	1745000	1685000	1471000	1388000	1440000
26	1409000	1438000	1514000	1701000	1714000	1749000	1720000	1749000	1677000	1468000	1388000	1438000
27	1415000	1435000	1508000	1706000	1714000	1754000	1723000	1757000	1665000	1459000	1393000	1437000
28	1420000	1428000	1504000	1714000	1710000	1757000	1729000	1766000	1650000	1453000	1397000	1441000
29	1426000	1423000	1509000	1718000	---	1759000	1729000	1770000	1639000	1447000	1396000	1442000
30	1447000	1418000	1516000	1726000	---	1757000	1730000	1770000	1633000	1442000	1398000	1442000
31	1454000	---	1524000	1726000	---	1767000	---	1767000	---	1434000	1403000	---
MAX	1454000	1463000	1524000	1726000	1737000	1767000	1780000	1770000	1781000	1629000	1427000	1442000
MIN	1393000	1418000	1421000	1518000	1702000	1700000	1720000	1703000	1633000	1434000	1385000	1400000
#	633.75	632.34	636.46	643.98	643.40	645.48	644.15	645.48	640.57	633.00	631.75	633.30
##	+62000	-36000	+106000	+202000	-16000	+57000	-37000	+37000	-134000	-199000	-31000	+39000

CAL YR 1986 MAX 1702000 MIN 1384000 ## +115000
WTR YR 1987 MAX 1781000 MIN 1385000 ## +50000

Elevation, in feet, at end of month.
Change in storage, 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 SE1/4NE1/4 sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, Hydrologic Unit 15030101, on right bank 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, Ariz., and 68 mi downstream from Hoover Dam.

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD since Oct. 1, 1967. 1905-7, nonrecording gage at site 4.8 mi downstream at datum about 3.4 ft lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft upstream at datum 10.00 ft higher. Feb. 25, 1956, to Sept. 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--No estimated daily discharge. 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.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft^3/s, June 20, 1906; minimum daily, 2,850 ft^3/s, Jan. 5, 1906. 1949-87: Maximum discharge, 46,200 ft^3/s, July 2, 1983, elevation, 509.48 ft, maximum elevation, 513.91 ft, Apr. 22, 1952; no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft^3/s, Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,300 ft^3/s, Dec. 12, elevation, 505.33 ft; minimum daily, 10,300 ft^3/s, Oct. 30.

REVISIONS.--Revised daily discharges, in cubic feet per second, for periods in September 1981 are given below. These figures supersede those published in the reports for 1981 and 1982.

Sept. 2....12300	Sept. 6....13500	Sept. 16....9060	
5....14300	7....13600	27....9950	

September 1981	318370	10610	14300	6100	631500
WTR YR 1981	4984080	13660	20800	2730	9886000
CAL YR 1981	4208060	11530	20800	2730	8347000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19800	19200	17300	24100	22800	20800	12400	16200	16500	14700	18300	15000
2	19700	19500	17500	24100	22800	20500	18600	16400	14400	17400	17700	14500
3	19600	19400	18400	23000	22400	18500	19200	16000	13300	15400	17600	14600
4	19500	19300	18200	25000	21500	18500	18400	16100	14300	15500	18200	14500
5	19500	18300	18100	21700	21600	18400	18500	16900	15000	15700	17900	15600
6	18200	18300	18000	20200	21700	18400	18700	17000	16400	16100	17700	15700
7	18300	18200	17900	20000	21700	18400	17800	16900	16400	16200	17200	15700
8	18500	18100	18200	19800	21800	18500	16900	16900	15700	15700	17200	14800
9	18300	18100	18000	21000	20400	18500	16400	16900	15300	16600	17300	14800
10	18500	18000	18100	24600	20400	18400	16800	15100	14900	17900	18000	14800
11	18300	18100	18200	24700	20000	18400	16800	16300	14100	17900	17700	14800
12	18300	18300	22400	25000	20000	18400	16800	16300	15500	16700	17600	14700
13	17900	18400	23700	24100	20200	18600	17000	16200	17800	16700	17800	13100
14	18400	18500	20800	25000	19900	18500	16500	16200	18000	18600	17800	14100
15	17500	18500	20800	25100	20000	18600	18000	14800	17700	17000	17400	14200
16	17600	18300	20800	25000	20000	18500	17200	14700	16900	17100	17100	14700
17	17900	18400	20700	23900	20800	16800	17700	14800	15400	17200	17300	14900
18	17600	18200	20600	21900	20800	17100	18100	14600	15500	16600	17100	14100
19	17700	18300	24300	21700	20700	16700	17600	12900	15700	16400	17200	13700
20	18100	18000	25800	21500	20800	16600	16200	12800	15700	17300	16400	13100
21	18100	17600	25700	21900	20800	16700	16100	13600	16500	16900	16300	13400
22	18300	17500	25900	22500	20900	16700	16200	14400	17600	16900	18800	13400
23	18300	17500	25300	22700	21100	16700	15900	15000	16600	17100	18200	13300
24	18300	17500	24700	22700	21100	17000	16200	15200	15600	17800	14700	13300
25	18200	17400	24700	22700	21100	16200	16700	14700	17900	17300	17100	13700
26	18300	17900	24700	23000	20800	15100	15600	14000	18200	16700	16200	13300
27	18300	17500	24700	22900	20800	15900	16200	11800	18600	17300	15600	13100
28	18300	17900	24700	23000	20800	18000	16200	11600	19100	18400	15000	12500
29	18000	17600	24200	22900	---	18200	16300	11600	17300	16300	15400	12700
30	10300	17600	24200	22800	---	18900	16400	15100	15100	17400	13400	13600
31	18600	---	24200	22800	---	13800	---	16400	---	17500	15200	---
TOTAL	562200	545400	670800	711300	587700	550300	507400	467400	487000	522300	526400	423700
MEAN	18140	18180	21640	22950	20990	17750	16910	15080	16230	16850	16980	14120
MAX	19800	19500	25900	25100	22800	20800	19200	17000	19100	18600	18800	15700
MIN	10300	17400	17300	19800	19900	13800	12400	11600	13300	14700	13400	12500
AC-FT	1115000	1082000	1331000	1411000	1166000	1092000	1006000	927100	966000	1036000	1044000	840400

CAL YR	1986	TOTAL	8788700	MEAN	24080	MAX	35500	MIN	10300	AC-FT	17430000
WTR YR	1987	TOTAL	6561900	MEAN	17980	MAX	25900	MIN	10300	AC-FT	13020000

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to August 1985, April 1986 to September 1987 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1982 to September 1987 (discontinued).
WATER TEMPERATURE: October 1982 to September 1987 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,230 microsiemens Sept. 23, 1987; minimum recorded, 770 microsiemens Feb. 14, 1987.
WATER TEMPERATURE: Maximum recorded, 23.5°C July 31, Aug. 1, 7, 11-13, 17, 1983; minimum recorded, 10.1°C Jan. 20, 1987.
EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,230 microsiemens Sept. 23; minimum recorded, 770 microsiemens Feb. 14.
WATER TEMPERATURE: Maximum recorded, 22.9°C Aug. 29; minimum recorded 10.1°C Jan. 20.

INSTRUMENTATION.--Specific-conductance and water-temperature recorder.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, WATER (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
OCT										
07...	1245	19700	840	8.00	30.0	19.0	753	8.9	97	260
NOV										
04...	1000	20200	850	7.80	23.5	16.0	756	9.0	92	260
DEC										
09...	1200	20500	830	7.95	12.0	14.0	760	9.9	97	260
JAN										
06...	1200	19900	840	8.10	12.5	13.0	760	9.8	93	260
FEB										
03...	1145	24300	840	7.90	18.0	12.0	752	11.3	107	270
MAR										
03...	0945	11200	860	7.90	10.0	12.0	760	10.8	101	270
APR										
07...	1130	13600	850	8.00	22.0	16.0	758	10.3	105	260
MAY										
05...	1600	22900	855	8.00	35.0	18.0	755	9.5	102	260
JUN										
09...	0930	13100	850	7.90	38.0	17.0	754	9.6	101	250
JUL										
07...	1045	14100	845	7.80	34.0	18.0	753	8.4	90	260
AUG										
11...	1030	14700	850	7.80	37.0	18.0	755	7.7	82	260
SEP										
03...	1015	14600	820	7.50	39.5	19.0	769	7.8	84	270

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	HARDNESS NONCARB WH WAT TOT FLD (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD (MG/L AS HCO3)	CARBONATE WH WAT TOTAL FIELD (MG/L AS CO3)	ALKALINITY WH WAT TOTAL FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 07...	140	66	24	69	2	3.5	160	0	128	210
NOV 04...	140	66	24	69	2	3.3	150	0	123	210
DEC 09...	140	67	23	68	2	3.4	150	0	126	210
JAN 06...	130	66	24	71	2	3.6	160	0	132	230
FEB 03...	150	67	24	72	2	3.6	140	0	118	220
MAR 03...	140	68	24	70	2	3.6	160	0	130	220
APR 07...	140	65	24	67	2	3.7	140	0	118	210
MAY 05...	130	66	24	69	2	3.8	160	0	129	210
JUN 09...	130	64	23	69	2	3.7	150	0	125	210
JUL 07...	120	65	23	70	2	3.7	160	0	134	210
AUG 11...	130	66	24	72	2	3.7	170	0	137	220
SEP 03...	140	66	25	74	2	4.0	160	--	131	210

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT 07...	55	0.30	9.2	590	510	0.80	--	<0.010	0.200	0.180
NOV 04...	55	0.30	9.0	533	510	0.72	--	<0.010	0.300	0.330
DEC 09...	56	0.30	9.2	534	510	0.73	0.290	0.010	0.300	0.290
JAN 06...	53	0.30	9.2	532	540	0.72	--	<0.010	0.300	0.320
FEB 03...	47	0.30	9.0	534	510	0.73	--	<0.010	0.300	0.320
MAR 03...	55	0.30	9.0	541	530	0.74	--	<0.010	0.300	0.310
APR 07...	57	0.30	8.8	533	510	0.72	--	<0.010	0.300	0.260
MAY 05...	54	0.30	9.1	536	510	0.73	--	<0.010	0.300	0.240
JUN 09...	58	0.40	9.0	533	510	0.72	--	<0.010	0.300	0.270
JUL 07...	57	0.30	9.1	534	520	0.73	--	<0.010	0.300	0.320
AUG 11...	55	0.30	9.4	526	530	0.72	--	<0.010	0.200	0.230
SEP 03...	49	0.30	9.8	521	520	0.71	--	<0.010	0.200	0.210

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)
OCT										
07...	<0.010	--	0.50	0.70	3.1	<0.020	0.020	<0.010	100	6
NOV										
04...	0.020	0.58	0.60	0.90	4.0	<0.010	<0.010	0.010	100	6
DEC										
09...	<0.010	--	<0.20	--	--	<0.010	0.010	<0.010	100	7
JAN										
06...	0.020	0.38	0.40	0.70	3.1	0.010	<0.010	<0.010	100	4
FEB										
03...	0.010	0.49	0.50	0.80	3.5	0.010	0.010	<0.010	90	<3
MAR										
03...	<0.010	--	0.20	0.50	2.2	0.010	<0.010	<0.010	90	20
APR										
07...	0.010	0.49	0.50	0.80	3.5	<0.010	<0.010	<0.010	100	4
MAY										
05...	0.030	0.87	0.90	1.2	5.3	0.010	0.010	<0.010	100	<3
JUN										
09...	0.040	0.86	0.90	1.2	5.3	0.030	0.010	<0.010	110	10
JUL										
07...	0.060	0.84	0.90	1.2	5.3	0.030	0.010	<0.010	100	<3
AUG										
11...	0.010	0.89	0.90	1.1	4.9	<0.010	<0.010	<0.010	110	5
SEP										
03...	0.030	0.37	0.40	0.60	2.7	<0.010	<0.010	<0.010	100	36

< Actual value is known to be less than value shown.

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845	849	---	---	839	862	850	860	---	850	880	862
2	836	850	---	---	860	860	848	860	---	850	870	861
3	836	860	---	---	857	868	847	860	---	840	890	860
4	837	840	---	---	855	867	845	860	---	840	890	850
5	838	840	---	---	852	865	843	---	---	840	870	850
6	849	840	---	---	860	863	842	---	---	840	870	860
7	840	840	---	---	857	872	860	---	---	860	870	860
8	840	---	---	---	855	870	860	---	---	860	880	860
9	841	---	---	---	852	868	860	---	860	860	880	860
10	841	---	---	---	850	877	860	---	860	860	880	860
11	841	---	---	---	847	865	860	---	860	860	870	850
12	842	---	---	---	875	873	860	---	860	860	870	850
13	842	---	---	---	872	872	860	---	860	880	878	840
14	843	---	---	---	870	870	860	---	860	880	868	850
15	843	---	---	840	867	868	870	---	870	870	866	850
16	843	---	---	840	875	877	870	---	860	860	875	850
17	844	---	---	831	872	865	870	---	880	860	884	850
18	844	---	---	832	870	873	860	---	880	850	884	860
19	844	---	---	822	867	872	860	---	850	860	883	850
20	845	---	---	823	865	870	860	---	850	860	872	860
21	845	---	---	813	862	868	860	---	870	860	871	860
22	845	---	---	814	870	867	860	---	850	870	870	850
23	846	---	---	814	867	865	860	---	860	870	870	1230
24	846	---	---	815	865	863	870	---	850	880	869	870
25	847	---	---	815	862	862	870	---	850	880	868	850
26	847	---	---	816	860	860	870	---	870	880	867	850
27	847	---	---	817	867	888	870	---	870	890	866	850
28	848	---	---	827	865	857	870	---	850	880	875	850
29	848	---	---	828	---	855	870	---	850	880	874	870
30	838	---	---	838	---	853	860	---	880	870	863	870
31	849	---	---	839	---	852	---	---	---	880	872	---
MAX	849	---	---	---	875	888	870	---	---	890	890	1230

MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	835	839	---	---	829	852	840	850	---	820	860	822
2	826	830	---	---	830	850	818	830	---	830	840	841
3	826	830	---	---	837	848	837	850	---	830	850	830
4	827	830	---	---	835	857	805	850	---	830	840	840
5	828	830	---	---	842	855	843	---	---	830	850	810
6	829	830	---	---	840	853	842	---	---	830	860	820
7	830	830	---	---	837	852	840	---	---	830	860	840
8	820	---	---	---	845	860	840	---	---	840	860	820
9	831	---	---	---	782	858	840	---	830	840	850	840
10	831	---	---	---	780	857	850	---	840	850	860	840
11	831	---	---	---	777	845	830	---	840	840	860	840
12	832	---	---	---	775	853	830	---	840	850	859	830
13	832	---	---	---	772	852	850	---	840	850	848	830
14	833	---	---	---	770	840	850	---	830	850	847	830
15	833	---	---	830	777	848	840	---	830	850	856	830
16	833	---	---	820	775	847	830	---	830	840	856	830
17	834	---	---	821	862	855	850	---	820	830	864	830
18	834	---	---	812	860	853	850	---	830	830	844	840
19	834	---	---	812	857	852	840	---	830	840	843	840
20	835	---	---	803	855	850	850	---	830	830	842	840
21	835	---	---	803	852	848	850	---	830	840	851	840
22	835	---	---	804	850	847	850	---	830	850	850	810
23	836	---	---	804	847	845	850	---	800	850	849	800
24	836	---	---	805	855	853	850	---	830	860	838	820
25	837	---	---	805	852	852	850	---	830	840	847	820
26	837	---	---	806	850	850	850	---	820	850	847	820
27	837	---	---	807	847	848	840	---	820	850	846	810
28	838	---	---	807	855	847	830	---	820	840	845	820
29	838	---	---	818	---	845	850	---	820	830	845	830
30	838	---	---	818	---	853	830	---	820	840	843	810
31	839	---	---	829	---	812	---	---	---	860	842	---
MIN	820	---	---	---	770	812	805	---	---	820	838	800

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	841	---	---	834	857	849	851	---	839	867	852
2	834	840	---	---	865	858	847	847	---	842	860	849
3	833	843	---	---	845	855	847	856	---	836	869	847
4	834	832	---	---	846	861	841	857	---	836	872	842
5	833	834	---	---	849	858	843	---	---	837	866	840
6	837	834	---	---	850	861	842	---	---	836	865	843
7	835	832	---	---	850	861	845	---	---	845	866	848
8	831	---	---	---	851	864	850	---	---	850	869	845
9	832	---	---	---	832	861	853	---	850	848	872	846
10	832	---	---	---	804	866	854	---	850	852	873	845
11	833	---	---	---	785	860	850	---	848	851	865	843
12	836	---	---	---	794	860	851	---	849	853	864	841
13	836	---	---	---	800	864	852	---	852	861	861	838
14	836	---	---	---	798	858	857	---	847	865	860	839
15	838	---	---	839	833	858	857	---	886	856	857	841
16	836	---	---	832	847	858	856	---	844	852	862	843
17	837	---	---	827	863	859	860	---	844	847	872	842
18	836	---	---	824	864	862	856	---	842	846	869	847
19	838	---	---	820	862	861	852	---	839	852	864	848
20	839	---	---	815	860	860	854	---	841	854	864	850
21	838	---	---	811	861	860	856	---	842	856	862	850
22	839	---	---	810	859	857	859	---	842	859	862	842
23	839	---	---	809	857	855	858	---	841	862	862	864
24	840	---	---	809	858	856	859	---	840	866	859	844
25	838	---	---	809	856	856	860	---	842	867	858	840
26	840	---	---	811	859	856	860	---	842	866	858	838
27	839	---	---	810	859	856	859	---	841	867	857	835
28	842	---	---	816	860	854	857	---	838	864	859	840
29	841	---	---	822	---	854	856	---	836	859	861	849
30	838	---	---	825	---	853	850	---	839	859	853	840
31	839	---	---	831	---	850	---	---	---	866	853	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.7	17.0	14.6	---	11.8	12.1	13.8	15.7	---	18.7	20.1	20.1
2	18.3	16.8	14.3	---	12.0	12.1	14.5	16.3	---	18.6	19.4	18.9
3	18.3	16.7	14.3	---	12.0	12.4	14.7	17.1	---	17.9	21.3	19.2
4	18.7	16.6	14.2	---	12.2	12.5	14.3	17.5	---	18.2	21.3	18.0
5	18.7	16.7	14.2	---	12.1	12.7	14.5	---	---	18.1	20.3	19.0
6	18.8	16.8	14.2	---	12.1	12.7	14.7	---	---	17.1	19.2	21.0
7	19.1	16.8	14.2	---	12.1	12.8	14.8	---	---	19.0	19.7	21.2
8	18.8	16.7	14.2	---	12.2	12.9	15.3	---	---	18.6	21.4	20.8
9	18.7	16.5	14.1	---	12.4	13.3	15.6	---	18.6	18.4	22.8	20.2
10	18.3	16.3	---	---	12.6	13.7	15.9	---	18.3	18.8	21.1	20.0
11	18.2	16.1	---	---	12.7	13.7	15.6	---	18.0	18.6	18.7	19.6
12	18.3	15.8	---	---	12.9	13.3	15.7	---	18.3	19.3	18.5	18.8
13	18.3	15.8	---	---	12.9	13.3	15.6	---	19.1	21.5	20.2	18.3
14	18.3	15.7	---	---	12.6	12.8	15.7	---	18.1	21.4	19.4	18.7
15	18.1	15.7	---	11.1	12.8	12.8	16.0	---	18.3	20.2	18.4	19.3
16	18.1	15.7	---	11.1	12.9	12.7	16.3	---	18.8	18.8	19.8	19.0
17	17.8	15.7	---	10.9	12.9	13.0	16.4	---	17.8	18.1	21.3	19.7
18	17.6	15.7	---	10.8	12.8	13.3	15.5	---	17.0	17.4	22.2	20.1
19	17.3	15.6	---	10.9	12.5	13.1	15.3	---	17.5	18.7	22.1	19.8
20	17.8	15.7	---	10.7	12.4	13.3	15.5	---	18.4	19.3	21.2	20.2
21	17.7	15.8	---	10.5	12.4	13.4	15.8	---	17.4	19.8	21.0	20.4
22	17.7	15.7	---	10.5	12.3	13.1	15.9	---	18.1	19.9	21.2	19.1
23	17.8	15.6	---	10.6	12.3	13.1	16.4	---	19.0	20.4	21.2	19.3
24	17.7	15.3	---	10.6	12.3	13.4	16.5	---	18.7	20.9	21.2	19.7
25	17.8	15.3	---	10.8	12.1	13.6	16.5	---	18.8	21.0	21.2	18.7
26	17.8	15.2	---	10.9	12.1	13.7	16.7	---	19.2	21.0	21.4	17.5
27	17.8	15.0	---	11.0	12.1	14.0	17.2	---	19.1	21.7	20.5	18.0
28	17.5	14.8	---	11.2	12.1	14.0	17.0	---	18.2	22.6	22.1	18.9
29	17.5	14.8	---	11.4	---	14.0	17.0	---	18.2	21.0	22.9	22.0
30	17.2	14.8	---	11.6	---	13.9	16.5	---	18.9	21.7	19.8	21.6
31	17.1	---	---	11.7	---	14.0	---	---	---	20.9	21.4	---
MAX	19.1	17.0	---	---	12.9	14.0	17.2	---	---	22.6	22.9	22.0

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	16.5	14.0	---	11.5	11.6	12.4	15.4	---	16.8	17.8	18.6
2	18.0	16.6	14.0	---	11.5	12.0	12.4	15.4	---	17.2	17.7	17.7
3	18.0	16.5	14.1	---	11.5	12.1	13.1	16.0	---	17.2	17.6	17.9
4	18.0	16.0	14.1	---	11.5	12.0	13.1	17.0	---	16.9	18.1	17.2
5	18.5	16.5	14.1	---	12.0	12.1	14.0	---	---	16.0	17.8	17.2
6	18.5	16.5	14.1	---	12.0	12.0	14.0	---	---	16.0	17.5	17.0
7	18.5	16.6	14.1	---	12.0	12.1	14.0	---	---	16.2	17.9	18.8
8	18.5	16.5	14.0	---	12.0	12.6	15.0	---	---	17.6	17.7	18.7
9	18.2	16.0	14.0	---	11.9	12.6	15.0	---	16.3	17.4	18.4	18.2
10	18.0	16.1	---	---	12.4	13.2	15.3	---	16.2	17.4	17.9	18.3
11	17.5	15.5	---	---	12.3	13.1	14.6	---	16.0	17.5	17.4	18.1
12	18.0	15.5	---	---	12.3	12.7	14.6	---	16.1	17.5	17.7	17.8
13	18.1	15.7	---	---	12.3	12.6	15.1	---	16.5	17.9	18.1	17.7
14	18.0	15.6	---	---	12.3	12.2	15.1	---	16.5	18.4	17.6	17.6
15	18.0	15.5	---	11.0	12.3	12.2	15.6	---	16.0	17.6	17.7	17.4
16	17.5	15.5	---	10.5	12.3	12.2	15.7	---	16.0	17.4	17.9	17.4
17	17.5	15.6	---	10.5	12.8	12.7	15.2	---	15.8	16.8	19.5	17.5
18	17.0	15.5	---	10.7	12.2	12.7	14.2	---	15.9	16.8	19.8	17.7
19	17.0	15.0	---	10.7	12.2	12.8	14.2	---	16.0	17.2	19.2	18.3
20	17.0	15.0	---	10.1	12.3	12.7	15.2	---	16.1	17.5	18.9	18.3
21	17.6	15.6	---	10.2	12.2	12.8	15.3	---	16.3	17.6	18.8	18.6
22	17.5	15.5	---	10.4	12.2	12.9	15.3	---	16.2	17.5	19.0	17.9
23	17.5	15.0	---	10.2	12.2	12.8	15.8	---	16.3	17.5	18.8	17.7
24	17.5	15.0	---	10.2	11.9	12.8	16.3	---	16.4	18.5	19.0	18.2
25	17.5	15.2	---	10.3	11.6	13.4	15.8	---	16.8	18.3	18.8	17.4
26	17.5	15.0	---	10.3	11.6	13.3	15.8	---	16.9	18.1	18.8	17.2
27	17.5	14.5	---	10.9	11.6	13.3	16.4	---	17.1	18.3	18.9	17.1
28	17.0	14.5	---	11.0	11.6	13.8	15.9	---	16.7	18.7	18.8	16.9
29	17.0	14.5	---	10.9	---	13.4	15.9	---	16.8	18.1	19.3	16.9
30	16.5	14.6	---	11.4	---	12.9	15.4	---	16.6	18.3	19.0	17.7
31	16.0	---	---	11.5	---	13.1	---	---	---	18.1	18.9	---
MIN	16.0	14.5	---	---	11.5	11.6	12.4	---	---	16.0	17.4	16.9

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.3	16.7	14.5	---	11.7	11.9	13.1	15.6	---	17.6	18.8	19.2
2	18.1	16.7	14.1	---	11.6	12.0	13.8	15.8	---	17.7	18.4	18.3
3	18.2	16.6	14.2	---	11.7	12.3	14.2	16.7	---	17.5	19.4	18.3
4	18.4	16.5	14.2	---	12.0	12.2	14.0	17.2	---	17.4	19.7	17.8
5	18.6	16.6	14.2	---	12.0	12.6	14.2	---	---	17.5	18.9	18.2
6	18.6	16.7	14.1	---	12.0	12.6	14.3	---	---	16.7	18.4	19.1
7	18.7	16.7	14.1	---	12.1	12.5	14.4	---	---	17.7	18.7	20.0
8	18.7	16.6	14.1	---	12.1	12.8	15.2	---	---	18.0	19.2	19.6
9	18.5	16.1	14.0	---	12.0	12.8	15.4	---	17.0	17.9	20.8	19.1
10	18.2	16.2	---	---	12.5	13.5	15.6	---	16.8	18.0	19.4	19.0
11	17.7	15.9	---	---	12.6	13.3	15.2	---	16.6	17.9	18.0	18.7
12	18.1	15.7	---	---	12.7	13.2	15.2	---	16.9	18.4	18.0	18.4
13	18.2	15.7	---	---	12.7	12.9	15.3	---	17.8	19.5	19.0	18.0
14	18.1	15.6	---	---	12.4	12.7	15.5	---	17.1	20.0	18.4	18.1
15	18.0	15.6	---	11.1	12.6	12.4	15.8	---	16.9	18.5	18.0	18.3
16	17.9	15.6	---	10.7	12.7	12.5	16.0	---	17.1	17.9	19.0	18.3
17	17.6	15.7	---	10.8	12.8	12.8	15.9	---	16.7	17.4	20.7	18.7
18	17.2	15.6	---	10.8	12.7	13.0	15.2	---	16.5	17.2	21.1	19.3
19	17.2	15.4	---	10.8	12.4	13.0	14.9	---	16.7	18.0	20.3	19.2
20	17.5	15.5	---	10.4	12.3	13.1	15.4	---	17.0	18.4	19.8	19.5
21	17.7	15.7	---	10.4	12.3	13.2	15.6	---	16.9	18.9	19.8	19.7
22	17.6	15.6	---	10.5	12.3	13.0	15.7	---	17.2	18.9	20.1	18.7
23	17.6	15.4	---	10.5	12.2	13.0	16.0	---	17.4	19.3	20.0	18.8
24	17.6	15.1	---	10.4	12.2	13.2	16.4	---	17.1	20.0	20.0	19.1
25	17.6	15.2	---	10.5	12.0	13.5	16.3	---	17.7	19.9	20.1	18.0
26	17.7	15.1	---	10.7	11.8	13.5	16.2	---	17.8	19.6	19.8	17.4
27	17.7	14.8	---	10.9	12.0	13.7	16.8	---	17.7	20.2	19.5	17.6
28	17.2	14.6	---	11.1	11.8	13.9	16.4	---	17.3	20.7	20.0	17.9
29	17.2	14.7	---	11.1	---	13.7	16.3	---	17.3	19.1	20.7	19.6
30	16.7	14.7	---	11.5	---	13.4	16.0	---	17.6	19.9	19.4	19.8
31	16.8	---	---	11.6	---	13.6	---	---	---	19.5	19.9	---

THE GREAT BASIN

GREAT SALT LAKE DESERT

10172907 THOUSAND SPRINGS CREEK NEAR WILKINS, NV

LOCATION.--Lat 41°27'22", long 114°46'51", in SW1/4NW1/4 sec.7, T.41 N., R.64 E., Elko County, Hydrologic Unit 16020307, on left bank 26.5 mi north of Wells.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,750 ft, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft^3/s, Feb. 19, 1986, gage height, 4.35 ft. No flow from Aug. 4 to Sept. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 9	0100	*12	*0.88				

No flow from Aug. 4 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.8	e3.5	e3.0	e3.1	3.9	6.1	5.1	2.5	.72	e.08	e.00
2	3.4	3.8	e3.4	e3.0	e3.2	3.8	6.1	4.8	2.3	.65	e.06	e.00
3	3.4	4.0	e3.3	e3.0	e3.3	3.7	6.6	4.4	2.2	.61	e.03	e.00
4	3.4	4.0	e3.3	e2.9	e3.4	4.1	7.1	4.0	2.0	.74	e.00	e.00
5	3.3	4.0	e3.2	e2.8	e3.5	4.1	7.3	3.7	1.9	.58	e.00	e.00
6	3.3	4.0	e3.1	e2.7	e3.6	4.9	7.3	3.4	1.8	.45	e.00	e.00
7	3.3	3.9	e2.7	e2.6	e3.6	7.8	6.9	3.1	2.2	.38	e.00	e.00
8	3.3	e3.9	e3.1	e2.5	e3.6	8.3	6.9	3.0	2.2	.33	e.00	e.00
9	3.3	e3.9	e3.2	e2.5	e3.6	8.1	7.0	3.0	2.0	.35	e.00	e.00
10	3.3	e3.9	e3.3	e2.5	e3.6	6.2	7.1	3.2	2.0	.40	e.00	e.00
11	3.3	e3.9	e3.5	e2.5	e3.6	6.2	7.0	3.2	2.5	.67	e.00	e.00
12	3.3	3.9	e3.4	e2.5	e3.5	6.8	6.8	3.0	1.7	.54	e.00	e.00
13	3.3	3.7	e3.3	e2.5	e3.4	6.5	6.4	3.2	1.3	e.39	e.00	e.00
14	3.3	3.7	e3.2	e2.5	e3.3	6.0	6.2	3.0	1.3	e.34	e.00	e.00
15	3.3	3.5	e3.1	e2.5	3.3	6.5	6.2	2.9	1.3	e.31	e.00	e.00
16	3.3	3.5	e3.2	e2.4	3.2	6.1	6.0	3.5	1.1	e.33	e.00	e.00
17	3.3	3.5	e3.3	e2.4	2.9	6.2	6.0	5.2	1.1	e.39	e.00	e.00
18	3.4	3.5	e3.3	e2.5	3.1	9.4	5.8	5.9	1.2	e.44	e.00	e.00
19	4.0	3.7	e3.1	e2.5	2.5	7.1	5.7	4.9	1.1	e.36	e.00	e.00
20	4.4	3.4	e3.1	e2.6	2.9	7.2	5.5	6.0	1.2	e.40	e.00	e.00
21	4.1	3.4	e3.0	e2.6	2.8	6.5	5.4	4.7	.93	e.52	e.00	e.00
22	3.8	3.4	e3.0	e2.7	3.0	6.5	5.3	4.2	1.0	e.40	e.00	e.00
23	3.7	3.9	e2.9	e2.8	3.3	6.3	5.0	3.7	1.0	e.34	e.00	.00
24	3.7	4.0	e3.0	e2.9	2.8	6.2	4.8	3.9	.89	e.28	e.00	.00
25	3.6	3.7	e3.1	e3.0	3.0	5.9	4.8	4.3	.80	e.22	e.00	.00
26	3.5	e3.7	e3.0	e3.1	2.8	6.5	4.6	4.6	.72	e.19	e.00	.00
27	3.6	e3.8	e2.9	e3.1	3.0	5.8	4.5	4.1	.65	e.18	e.00	.00
28	3.7	e3.6	e2.8	e3.2	3.5	5.8	4.4	4.0	.70	e.20	e.00	.00
29	3.7	e3.5	e2.9	e3.2	---	5.2	4.1	4.0	1.0	e.19	e.00	.00
30	3.8	e3.5	e2.9	e3.1	---	5.5	4.5	3.3	.90	e.16	e.00	.00
31	4.1	---	e3.0	e3.1	---	6.0	---	2.9	---	e.12	e.00	---
TOTAL	109.6	112.0	97.1	85.2	90.4	189.1	177.4	122.2	43.49	12.18	.17	.00
MEAN	3.54	3.73	3.13	2.75	3.23	6.10	5.91	3.94	1.45	.39	.01	.00
MAX	4.4	4.0	3.5	3.2	3.6	9.4	7.3	6.0	2.5	.74	.08	.00
MIN	3.3	3.4	2.7	2.4	2.5	3.7	4.1	2.9	.65	.12	.00	.00
AC-FT	217	222	193	169	179	375	352	242	86	24	.3	.0

CAL YR 1986 TOTAL 7379.12 MEAN 20.2 MAX 360 MIN 1.3 AC-FT 14640
WTR YR 1987 TOTAL 1038.83 MEAN 2.85 MAX 9.4 MIN .00 AC-FT 2060

e Estimated.

GREAT SALT LAKE DESERT

1017290880 THOUSAND SPRINGS CREEK NEAR SHORES, NV

LOCATION.--Lat 41°28'58", long 114°34'08", in SW1/4NE1/4 sec.35, T.42 N., R.65 E., Elko County, Hydrologic Unit 16020307, on left bank 6.5 mi southeast of Eccles Ranch.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 1985 to November 1986 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,380 ft, from topographic map.

REMARKS.--Records good. Diversions for irrigation above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 691 ft^3/s, Feb. 17, 1986, gage height, 7.73 ft, on basis of rating curve extended above slope-area measurement of 234 ft^3/s; minimum daily, 0.01 ft^3/s, July 13-22, July 26 to Aug. 9, Sept. 3-16, Sept. 18-21, and Oct. 1, 2, 6, all recorded during 1985.

EXTREMES FOR CURRENT YEAR.--Peaks above base discharge of 20 ft^3/s and maximum (*), during period, October to November 1986.

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 30	1100	0.07	0.73	Nov. 4	1900	0.07	0.73

Minimum daily, 0.03 ft^3/s, many days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.05	---	---	---	---	---	---	---	---	---	---
2	.03	.05	---	---	---	---	---	---	---	---	---	---
3	.03	.05	---	---	---	---	---	---	---	---	---	---
4	.03	.06	---	---	---	---	---	---	---	---	---	---
5	.03	.06	---	---	---	---	---	---	---	---	---	---
6	.03	.06	---	---	---	---	---	---	---	---	---	---
7	.03	.04	---	---	---	---	---	---	---	---	---	---
8	.03	.05	---	---	---	---	---	---	---	---	---	---
9	.03	.04	---	---	---	---	---	---	---	---	---	---
10	.03	.04	---	---	---	---	---	---	---	---	---	---
11	.03	.05	---	---	---	---	---	---	---	---	---	---
12	.03	.05	---	---	---	---	---	---	---	---	---	---
13	.03	.05	---	---	---	---	---	---	---	---	---	---
14	.03	.04	---	---	---	---	---	---	---	---	---	---
15	.03	.04	---	---	---	---	---	---	---	---	---	---
16	.03	.04	---	---	---	---	---	---	---	---	---	---
17	.03	.04	---	---	---	---	---	---	---	---	---	---
18	.03	.04	---	---	---	---	---	---	---	---	---	---
19	.04	.04	---	---	---	---	---	---	---	---	---	---
20	.03	.04	---	---	---	---	---	---	---	---	---	---
21	.03	.04	---	---	---	---	---	---	---	---	---	---
22	.03	---	---	---	---	---	---	---	---	---	---	---
23	.03	---	---	---	---	---	---	---	---	---	---	---
24	.03	---	---	---	---	---	---	---	---	---	---	---
25	.03	---	---	---	---	---	---	---	---	---	---	---
26	.03	---	---	---	---	---	---	---	---	---	---	---
27	.03	---	---	---	---	---	---	---	---	---	---	---
28	.03	---	---	---	---	---	---	---	---	---	---	---
29	.03	---	---	---	---	---	---	---	---	---	---	---
30	.05	---	---	---	---	---	---	---	---	---	---	---
31	.05	---	---	---	---	---	---	---	---	---	---	---
TOTAL	.99	---	---	---	---	---	---	---	---	---	---	---
MEAN	.03	---	---	---	---	---	---	---	---	---	---	---
MAX	.05	---	---	---	---	---	---	---	---	---	---	---
MIN	.03	---	---	---	---	---	---	---	---	---	---	---
AC-FT	2.0	---	---	---	---	---	---	---	---	---	---	---

GREAT SALT LAKE DESERT

1017290885 THOUSAND SPRINGS CREEK BELOW TOANA DRAW NEAR SHORES, NV

LOCATION.--Lat 41°30'13", long 114°31'47", in SW1/4 sec.19, T.42 N., R.66 E., Elko County, Hydrologic Unit 16020307, 14.7 mi east of U.S. Highway 93, and 26.5 mi north of Wells.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--June to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 5,345 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.09 ft^3/s, June 17-19, 1987, gage height, 0.34 ft; no flow June 25 to Sept. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, June to September, 0.09 ft^3/s, June 17-19, gage height, 0.34 ft; no flow June 25 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.00	.00
12	---	---	---	---	---	---	---	---	---	.00	.00	.00
13	---	---	---	---	---	---	---	---	---	.00	.00	.00
14	---	---	---	---	---	---	---	---	---	.00	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	.08	.00	.00	.00
19	---	---	---	---	---	---	---	---	.09	.00	.00	.00
20	---	---	---	---	---	---	---	---	.07	.00	.00	.00
21	---	---	---	---	---	---	---	---	.05	.00	.00	.00
22	---	---	---	---	---	---	---	---	.05	.00	.00	.00
23	---	---	---	---	---	---	---	---	.04	.00	.00	.00
24	---	---	---	---	---	---	---	---	.01	.00	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	.00	.00
29	---	---	---	---	---	---	---	---	.00	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	---	---	---	.00	.00	.00
MAX	---	---	---	---	---	---	---	---	---	.00	.00	.00
MIN	---	---	---	---	---	---	---	---	---	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	---	.0	.0	.0

GREAT SALT LAKE DESERT

10172914 THOUSAND SPRINGS CREEK NEAR MONTELLO, NV

LOCATION.--Lat 41°21'33", long 114°02'50", in SW1/4SE1/4 sec.9, T.40 N., R.70 E., Elko County, Hydrologic Unit 16020307, on left bank 12 mi northeast of Montello.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,670 ft, from topographic map.

REMARKS.--Records poor. Flow partially regulated by Dake Reservoir. Diversions for irrigation above Dake Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93 ft^3/s, Feb. 15, 1986, gage height, 2.81 ft; from rating curve extended above 22 ft^3/s; minimum daily discharge, 0.07 ft^3/s, June 27, 1987.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 27	0200	*19	*1.66	No other peaks greater than base discharge.			

Minimum daily, 0.07 ft^3/s, June 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	.69	e.66	e.52	e.65	e.84	.83	e.7	e.4	.53	e.2	e.2
2	1.9	.66	e.66	e.53	e.66	e1.0	.97	e.7	e.4	.23	e.2	e.2
3	1.6	.70	e.66	e.53	e.67	e1.4	.97	e.7	e.4	.57	e.2	e.2
4	1.5	.67	e.66	e.52	e.68	e2.0	1.1	e.7	e.4	.89	e.2	e.2
5	1.5	.70	e.66	e.50	e.70	e3.6	.96	e.7	e.4	.96	e.2	e.2
6	1.3	.65	e.65	e.47	e.71	e4.3	1.0	e.6	e.4	.52	e.2	e.2
7	1.2	.65	e.64	e.44	e.72	e4.5	1.2	e.6	e.4	.38	e.2	e.2
8	1.2	1.0	e.62	e.43	e.74	e3.9	1.1	e.6	e.4	.37	e.2	e.2
9	1.1	.72	e.62	e.42	e.75	e3.6	.99	e.6	e.3	.30	e.2	e.2
10	1.1	.70	e.61	e.42	e.74	e3.3	.99	e.6	e.3	.42	e.2	e.2
11	.94	.52	e.60	e.42	e.74	e3.2	1.0	e.6	e.3	.51	e.2	e.2
12	.99	.74	e.60	e.42	e.73	e3.2	.79	e.6	e.3	.31	e.2	e.2
13	.91	.57	e.60	e.42	e.71	e3.2	.83	e.6	e.3	.29	e.2	e.2
14	.94	.67	e.61	e.43	e.70	e3.4	.88	e.6	e.3	.27	e.2	e.2
15	.96	.71	e.61	e.43	e.69	e3.7	.79	e.6	e.3	.14	e.2	e.2
16	.99	.69	e.60	e.43	e.68	e3.8	.82	e.6	e.3	.09	e.2	e.2
17	.90	.72	e.59	e.44	e.67	e3.6	.79	e.6	e.3	.28	e.2	e.2
18	1.1	.67	e.58	e.44	e.66	e3.1	.76	e.6	e.3	.44	e.2	e.2
19	2.4	.69	e.57	e.45	e.65	1.3	.69	e.6	e.2	.46	e.2	e.2
20	2.0	.64	e.55	e.45	e.64	1.3	.73	e.6	e.2	.37	e.2	e.2
21	1.2	.69	e.54	e.47	e.63	.82	e.7	e.5	e.2	3.4	e.2	e.2
22	.92	e.68	e.53	e.49	e.62	.78	e.7	e.5	e.2	1.6	e.2	e.2
23	.84	e.68	e.51	e.50	e.62	.73	e.7	e.5	e.2	.74	e.2	e.2
24	.82	e.68	e.50	e.52	e.61	.74	e.7	e.5	e.2	.56	e.2	.15
25	.81	e.66	e.51	e.54	e.62	.84	e.7	e.5	.14	.37	e.2	.18
26	.71	e.66	e.50	e.56	e.64	.84	e.7	e.5	.09	.24	e.2	.17
27	.73	e.66	e.51	e.59	e.68	4.4	e.7	e.5	.07	.23	e.2	.20
28	.75	e.66	e.52	e.60	e.73	.75	e.7	e.5	.08	e.2	e.2	.26
29	.74	e.66	e.52	e.61	---	.87	e.7	e.5	.19	e.2	e.2	.29
30	.72	e.66	e.52	e.63	---	.69	e.7	e.5	.47	e.2	e.2	.31
31	.74	---	e.52	e.64	---	.69	---	e.5	---	e.2	e.2	---
TOTAL	35.61	20.45	18.03	15.26	19.04	70.39	25.19	18.0	8.44	16.27	6.2	6.16
MEAN	1.15	.68	.58	.49	.68	2.27	.84	.58	.28	.52	.20	.21
MAX	2.4	1.0	.66	.64	.75	4.5	1.2	.70	.47	3.4	.20	.31
MIN	.71	.52	.50	.42	.61	.69	.69	.50	.07	.09	.20	.15
AC-FT	71	41	36	30	38	140	50	36	17	32	12	12

CAL YR 1986 TOTAL 2197.43 MEAN 6.02 MAX 43 MIN .11 AC-FT 4360
WTR YR 1987 TOTAL 259.04 MEAN .71 MAX 4.5 MIN .07 AC-FT 514

e Estimated.

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION (REVISED).--Lat 39°12'58", long 114°31'44", in SE1/4SE1/4 sec.27, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060003, on right bank 2.3 mi downstream from North Fork, 4 mi southwest of Cleveland Ranch headquarters, and 18 mi east of Ely.

DRAINAGE AREA.--31.8 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft, approximately, from topographic map. Oct. 1, 1967, to Sept. 30, 1976, crest-stage gage at same site and datum. Prior to Sept. 13, 1984, at site 0.25 mi upstream, at different datum. Prior to Apr. 18, 1985, at different datum. Prior to Oct. 4, 1985, at datum 2.00 ft lower. From Nov. 19, 1986, at site 75 ft downstream at datum, 5.2 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--19 years (1915-16, 1960-67, 1977-81, 1984-87), 10.6 ft^3/s, 7,680 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 30	0100	23	1.89	Aug. 8	1800	*26	*2.04

Minimum daily, 6.2 ft^3/s, Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	e10	9.6	9.8	11	e8.4	9.4	22	13	e11	8.6	6.6
2	11	e10	9.5	9.5	9.7	e8.4	10	21	13	e11	8.5	6.6
3	11	e10	9.3	9.5	9.3	e8.4	12	20	13	e11	8.5	6.7
4	10	e10	9.3	9.4	9.3	e8.4	11	19	13	e11	8.3	6.8
5	10	e10	9.3	9.6	9.3	8.4	11	18	13	e11	8.3	6.9
6	10	e10	9.4	e9.2	9.3	8.4	12	17	14	e11	9.2	7.0
7	9.9	e10	9.4	e8.4	9.3	8.9	12	17	13	e11	11	6.9
8	9.8	e10	9.2	e7.7	9.0	9.0	12	17	e13	e11	14	6.8
9	9.7	e10	e8.5	e7.4	8.8	9.0	13	17	e12	e11	16	6.6
10	9.6	e10	e8.3	e7.4	8.5	8.8	13	17	e10	e11	12	6.5
11	9.8	e10	e8.8	e7.3	8.4	8.7	14	17	e10	e11	10	6.5
12	10	e10	e9.0	e7.2	8.2	8.7	13	17	e10	e10	9.5	6.4
13	10	e9.9	9.0	e7.2	8.3	8.9	13	17	e10	e10	9.1	6.6
14	9.9	e9.8	9.0	e7.1	8.3	8.7	14	16	e10	e10	8.8	6.6
15	9.8	e9.8	9.0	e7.1	8.1	9.2	15	16	e11	e10	8.7	6.5
16	9.7	e9.8	9.0	e7.2	8.1	8.9	16	16	e11	e10	8.2	6.4
17	9.7	e9.8	9.0	e7.3	8.1	8.9	18	16	e11	e10	7.9	6.4
18	10	e9.8	9.0	e7.5	8.0	9.0	18	17	e11	e10	7.8	6.3
19	11	e9.9	10	e7.7	e8.0	9.1	17	17	e11	e11	7.6	6.3
20	11	10	9.9	e8.0	e8.0	9.0	16	16	e11	e12	7.5	6.3
21	e11	10	9.8	e8.3	e8.0	8.9	15	16	e11	e13	7.7	6.3
22	e11	10	10	e8.7	e8.2	8.9	16	16	e11	e13	7.7	6.3
23	e11	10	9.8	e9.1	8.5	8.7	17	15	e10	12	7.6	6.2
24	e11	9.7	e9.8	e9.5	e8.4	8.8	18	15	e10	11	7.4	6.2
25	e11	9.5	e9.8	e10	e8.4	8.9	18	15	e10	10	7.3	6.3
26	e11	9.5	e9.9	e11	e8.4	8.9	18	15	e10	9.8	7.2	6.3
27	e11	9.5	10	e11	e8.4	8.9	20	15	e11	10	7.1	6.3
28	e11	9.5	9.9	11	e8.4	9.0	21	15	e12	9.9	7.0	6.3
29	e11	9.5	e9.8	11	---	9.4	22	14	e12	9.5	6.9	6.3
30	e11	9.6	e9.8	11	---	9.3	23	14	e12	9.1	6.8	6.3
31	e11	---	e9.8	11	---	9.1	---	14	---	8.9	6.7	---
TOTAL	322.9	295.6	291.9	273.1	241.7	274.0	457.4	514	342	330.2	268.9	194.5
MEAN	10.4	9.85	9.42	8.81	8.63	8.84	15.2	16.6	11.4	10.7	8.67	6.48
MAX	11	10	10	11	11	9.4	23	22	14	13	16	7.0
MIN	9.6	9.5	8.3	7.1	8.0	8.4	9.4	14	10	8.9	6.7	6.2
AC-FT	640	586	579	542	479	543	907	1020	678	655	533	386

CAL YR 1986 TOTAL 4928.6 MEAN 13.5 MAX 33 MIN 7.5 AC-FT 9780
WTR YR 1987 TOTAL 3806.2 MEAN 10.4 MAX 23 MIN 6.2 AC-FT 7550

e Estimated.

STEPTOE VALLEY BASIN

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

LOCATION.--Lat 39°12'05", long 114°41'15", in SW1/4SW1/4 sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank 0.1 mi downstream from Clear Creek, 0.8 mi upstream from Cave Creek, and 11 mi east-southeast of Ely.

DRAINAGE AREA.--11.1 mi^2.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--No estimated daily discharge. Records good.

AVERAGE DISCHARGE.--21 years, 8.04 ft^3/s, 5,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85 ft^3/s, July 21, 1985, gage height, 3.11 ft, from rating curve extended above 49 ft^3/s; minimum discharge, 2.0 ft^3/s, Dec. 22, 1966, and Mar. 3, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.4 ft^3/s, May 18, gage height, 1.61 ft; minimum daily, 3.9 ft^3/s, Mar. 20, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.3	5.6	5.0	4.8	4.4	4.4	6.8	e7.7	6.8	5.7	4.9
2	7.3	6.2	5.6	5.0	4.8	4.4	4.4	6.8	e7.5	6.8	5.8	4.9
3	7.3	6.1	5.6	5.0	4.8	4.4	4.6	6.8	e7.5	6.8	5.8	4.9
4	7.2	6.1	5.7	5.0	4.8	4.4	4.6	6.8	e7.5	6.8	5.8	4.9
5	7.1	6.1	5.5	5.0	4.6	4.4	4.6	6.8	e7.6	6.8	5.7	4.9
6	7.1	6.2	5.4	5.0	4.8	4.4	4.7	7.0	e7.6	6.8	5.7	5.0
7	7.0	6.1	5.4	5.0	4.7	4.4	4.8	7.1	e7.5	6.8	5.7	4.9
8	6.9	6.1	5.3	4.9	4.7	4.4	4.8	7.1	e7.4	6.8	5.6	4.9
9	6.8	5.9	5.1	5.0	4.8	4.4	4.8	7.3	e7.0	6.8	5.6	4.9
10	7.0	6.2	4.8	5.0	4.8	4.5	4.8	7.3	e6.8	6.8	5.4	4.9
11	7.1	6.3	5.1	5.0	4.8	4.6	4.8	7.3	e6.9	6.8	5.4	4.8
12	7.0	6.2	5.5	5.0	4.7	4.6	4.9	7.5	e7.0	6.6	5.4	5.0
13	6.9	6.1	5.4	5.0	4.8	4.6	5.0	7.6	e7.2	6.3	5.4	5.2
14	6.8	6.1	5.3	4.9	4.6	4.4	5.0	7.6	e7.8	6.3	5.4	5.1
15	6.8	6.1	5.2	4.9	4.6	4.4	5.0	7.6	e7.8	6.3	5.2	5.1
16	6.8	6.1	5.2	4.7	4.8	4.4	5.0	7.9	e7.5	6.3	5.2	5.0
17	6.8	6.0	5.2	5.0	4.4	4.3	5.2	8.2	e7.3	6.3	5.0	5.0
18	6.9	6.1	5.2	4.9	4.7	4.4	5.3	9.2	e7.3	6.3	5.0	5.0
19	7.1	6.0	5.2	4.8	4.4	4.0	5.4	9.4	e7.3	6.3	5.0	4.9
20	7.0	5.9	5.2	4.8	4.6	3.9	5.4	9.4	e7.3	6.3	5.1	4.9
21	6.8	5.9	5.1	4.7	4.5	4.1	5.4	9.4	e7.1	6.8	5.0	4.9
22	6.8	5.8	5.1	4.4	4.6	4.3	5.4	9.4	e7.0	6.7	5.0	4.9
23	6.8	5.7	5.2	4.4	4.8	4.0	5.4	9.3	e6.8	6.4	5.0	4.9
24	6.7	5.9	5.1	4.4	4.5	4.3	5.6	9.1	e6.7	6.2	4.9	4.9
25	6.6	5.8	5.1	4.5	4.6	4.2	5.7	e8.9	e6.7	6.2	4.9	4.8
26	6.5	5.5	5.0	4.6	4.4	4.0	5.9	e8.4	e6.7	6.2	4.9	4.8
27	6.5	5.7	5.0	4.6	4.4	4.0	6.1	e8.2	6.7	6.2	5.0	4.8
28	6.3	5.7	5.0	4.8	4.4	4.0	6.3	e8.0	6.7	6.0	5.0	4.9
29	6.3	5.6	5.0	4.8	---	3.9	6.4	e8.0	6.8	5.9	5.0	5.0
30	6.3	5.4	4.9	4.8	---	4.0	6.7	e8.0	6.8	5.9	4.9	5.0
31	6.3	---	5.0	4.8	---	4.3	---	e8.0	---	5.8	4.9	---
TOTAL	212.1	179.2	162.0	149.7	130.2	132.8	156.4	246.2	215.5	200.1	163.4	148.0
MEAN	6.84	5.97	5.23	4.83	4.65	4.28	5.21	7.94	7.18	6.45	5.27	4.93
MAX	7.3	6.3	5.7	5.0	4.8	4.6	6.7	9.4	7.8	6.8	5.8	5.2
MIN	6.3	5.4	4.8	4.4	4.4	3.9	4.4	6.8	6.7	5.8	4.9	4.8
AC-FT	421	355	321	297	258	263	310	488	427	397	324	294

CAL YR 1986 TOTAL 3486.5 MEAN 9.55 MAX 25 MIN 4.0 AC-FT 6920
WTR YR 1987 TOTAL 2095.6 MEAN 5.74 MAX 9.4 MIN 3.9 AC-FT 4160

e Estimated.

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
26...	1235	4.9	320	8.40	11.5	6.0	0.30	10.0	101	<2	--	190
MAR												
25...	1036	4.3	335	8.50	4.0	5.5	3.2	11.1	116	<2	K4	190
MAY												
21...	1500	8.3	308	8.50	9.5	7.5	0.90	9.8	108	<2	--	170
AUG												
04...	1515	5.6	328	8.50	28.0	9.0	0.50	9.1	103	K11	36	180

K: NON-IDEAL COLONY COUNT.

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L 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 26...	55	12	2.0	0.1	0.80	208	7	182	--	1.2	<0.10	7.2
MAR 25...	56	12	1.9	0.1	0.60	206	2	173	9.3	1.3	<0.10	7.2
MAY 21...	55	8.4	1.7	0.1	0.40	--	--	160	<5.0	1.2	<0.10	7.0
AUG 04...	54	11	2.9	0.1	0.50	190	4	162	7.6	1.1	0.10	7.2

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 AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 26...	170	--	--	<0.010	0.170	0.020	<0.010	0.28	0.30	0.010	0.010	<0.010
MAR 25...	191	190	0.26	<0.010	0.120	0.020	0.030	0.58	0.60	0.010	0.010	<0.010
MAY 21...	189	--	--	<0.010	0.150	0.020	0.020	--	<0.20	0.020	0.010	<0.010
AUG 04...	166	180	0.23	<0.010	0.100	0.020	0.020	0.28	0.30	0.010	0.020	<0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV 26...	<10	2	45	<0.5	1	<1	<3	<1	18	<5	7
MAR 25...	<10	1	46	<0.5	<1	<1	<3	1	6	<5	6
MAY 21...	<10	1	35	<0.5	<1	5	<3	2	6	<5	5
AUG 04...	<10	2	40	<0.5	2	<1	<3	<1	4	<5	<4

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 26...	<1	<0.1	<10	1	<1	<1	80	<6	<3	6	0.08
MAR 25...	1	<0.1	<10	<1	<1	<1	83	<6	<3	8	0.09
MAY 21...	<1	<1.0	<10	2	<1	<1	78	<6	<3	14	0.31
AUG 04...	<1	<0.1	<10	<1	<1	<1	89	<6	19	6	0.09

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	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)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
NOV 26...	1235	4.9	1.5	<0.4	0.5	0.8	0.5	0.8	0.08	0.43
MAY 21...	1500	9.4	0.6	<0.4	0.6	<0.4	0.5	<0.4	0.05	0.37

STEPTOE VALLEY BASIN

10245005 DUCK CREEK NEAR CHERRY CREEK, NV

LOCATION.--Lat 39°48'15", long 114°38'04", in SE1/4 sec.1, T.22 N., R.63 E., White Pine County, Hydrologic Unit 16060008, on left bank 8 mi southeast of Cherry Creek, and 40 mi north of Ely.

DRAINAGE AREA.--1,180 mi^2.

PERIOD OF RECORD.--October 1985 to September 1987 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 130 ft^3/s, gage height, unknown, Mar. 16, 1986; minimum daily, 0.07 ft^3/s, June 16, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft^3/s, gage height, 4.09 ft, Feb. 14; minimum daily, 1.6 ft^3/s, Aug. 5, 6, but may have been lower during no gage-height record, June 17 to July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	44	56	e62	e80	114	72	47	49	e2.6	2.9	2.4
2	41	39	51	e58	e81	114	70	43	47	e2.6	2.6	2.3
3	43	39	52	e54	e87	114	68	40	41	e2.6	2.2	2.2
4	43	41	72	e51	e90	114	66	38	35	e2.6	1.8	2.2
5	42	43	66	e50	e91	115	67	36	30	e2.6	1.7	2.2
6	43	44	62	e50	e95	114	69	34	26	e2.6	1.6	2.8
7	43	46	57	e50	e97	109	70	32	25	e2.6	2.0	3.5
8	42	46	e53	e50	e99	113	68	31	23	e2.6	2.2	3.7
9	39	43	e49	e50	e100	115	67	30	20	e2.6	2.8	3.8
10	37	50	e46	e50	103	114	67	29	19	e2.6	2.7	4.0
11	36	52	45	e50	102	111	66	28	18	e2.6	2.6	4.1
12	36	55	e48	e50	108	106	63	32	15	e2.6	3.1	3.9
13	35	57	e53	e50	110	100	61	35	14	e2.6	3.2	3.8
14	35	58	e58	e50	115	97	59	32	13	e2.6	3.4	3.9
15	39	58	e61	e50	110	97	57	29	11	e2.6	4.0	3.9
16	47	58	e64	e50	111	101	56	29	8.9	e2.6	4.4	4.0
17	53	58	e65	e50	113	102	54	34	e7.5	e2.6	4.1	4.1
18	56	58	e65	e50	111	103	51	45	e6.4	e2.6	4.0	4.3
19	e58	61	e64	e50	111	103	48	48	e5.6	e2.6	3.9	4.8
20	e60	62	e63	e50	112	100	46	46	e4.9	e2.6	3.6	5.2
21	e58	63	e62	e52	112	98	43	46	e4.4	e2.6	3.5	5.4
22	58	63	e62	e56	112	96	43	49	e4.0	2.6	3.3	5.5
23	63	58	e62	e56	112	92	42	49	e3.6	2.7	3.0	5.6
24	65	55	e62	e60	112	93	41	46	e3.3	3.3	2.7	5.8
25	65	61	e62	e64	113	93	41	45	e3.1	3.0	2.5	6.0
26	67	56	e62	e64	113	88	40	47	e2.9	2.7	2.8	6.3
27	66	53	e62	e65	113	83	40	48	e2.8	2.5	3.0	6.5
28	64	54	e62	e70	114	80	41	49	e2.7	2.8	3.0	6.6
29	61	62	e62	e70	---	80	41	50	e2.6	3.3	3.0	6.9
30	56	59	e62	e71	---	76	46	48	e2.6	3.2	2.8	7.3
31	51	---	e62	e77	---	72	---	48	---	3.2	2.6	---
TOTAL	1544	1596	1832	1730	2927	3107	1663	1243	451.3	83.9	91.0	133.0
MEAN	49.8	53.2	59.1	55.8	105	100	55.4	40.1	15.0	2.71	2.94	4.43
MAX	67	63	72	77	115	115	72	50	49	3.3	4.4	7.3
MIN	35	39	45	50	80	72	40	28	2.6	2.5	1.6	2.2
AC-FT	3060	3170	3630	3430	5810	6160	3300	2470	895	166	180	264

CAL YR 1986 TOTAL 17034.07 MEAN 46.7 MAX 130 MIN .07 AC-FT 33790
WTR YR 1987 TOTAL 16401.2 MEAN 44.9 MAX 115 MIN 1.6 AC-FT 32530

e Estimated.

JAKES VALLEY

10245445 ILLIPAH CREEK NEAR HAMILTON, NV

LOCATION.--Lat 39°19'07", long 115°23'39", in NE1/4NW1/4 sec.25, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, on left bank in Humboldt National Forest, 4.5 mi southwest of Illipah, 6.7 mi northeast of Hamilton, and 28 mi northwest of Ely.

DRAINAGE AREA.--31.5 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 446 ft^3/s, Aug. 22, 1984, gage height, 6.05 ft; minimum daily, 1.1 ft^3/s, Feb. 5, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft^3/s, Mar. 6, gage height, 1.96 ft; maximum gage height, 3.34 ft, Feb. 28, backwater from ice; minimum daily, 1.7 ft^3/s, Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.2	e3.5	e3.2	3.4	e3.0	3.2	2.6	2.7	2.4	2.0	2.5
2	5.3	4.2	e3.5	e3.2	3.4	2.9	3.3	2.6	2.6	2.4	2.1	2.4
3	5.2	3.8	e3.5	e3.2	3.4	3.4	2.8	2.6	2.5	2.3	2.1	2.6
4	4.9	3.9	e3.5	e3.2	3.4	5.5	2.8	2.6	2.4	2.3	2.0	2.6
5	4.4	4.0	e3.5	e3.2	3.5	4.2	3.6	2.7	2.5	2.3	2.0	2.5
6	4.4	4.0	e3.5	e3.1	3.5	7.4	3.0	2.7	2.6	2.3	2.0	2.6
7	4.2	4.0	e3.5	e3.0	3.3	6.4	2.7	2.8	2.8	2.3	2.1	2.6
8	4.5	4.1	e3.5	e3.0	3.3	4.4	2.7	2.8	2.8	2.3	2.1	2.7
9	4.5	4.1	e3.5	e2.9	3.4	3.1	2.5	2.7	2.7	2.3	2.2	2.7
10	4.4	4.1	e3.5	e2.8	3.4	3.0	2.4	3.8	2.6	2.3	2.2	2.6
11	4.4	4.1	e3.5	e2.8	3.4	3.1	2.3	3.5	2.6	2.3	2.2	2.6
12	4.7	4.0	e3.5	e2.7	3.4	3.4	2.1	3.6	2.6	2.2	2.3	2.5
13	4.8	e4.0	e3.5	e2.6	3.6	2.9	2.1	3.5	2.6	2.2	2.3	2.4
14	4.5	e4.0	e3.5	e2.4	3.4	2.7	2.0	3.4	2.6	2.1	2.4	2.4
15	4.4	e4.0	e3.5	e2.3	3.3	2.9	1.9	3.4	2.4	2.2	2.3	2.4
16	4.3	e4.0	e3.5	e2.2	3.2	2.7	1.8	3.8	2.3	2.2	2.3	2.4
17	4.3	e3.9	e3.5	e2.1	3.5	3.3	1.7	3.5	2.4	2.1	2.3	2.4
18	4.6	e3.8	e3.5	e2.0	3.5	2.9	1.8	3.3	2.3	2.1	2.3	2.3
19	5.6	e3.7	e3.5	e1.9	e3.4	2.8	1.8	3.2	2.3	2.2	2.2	2.2
20	4.5	3.8	e3.5	e1.8	e3.4	e2.8	2.1	3.0	2.3	2.2	2.3	2.1
21	4.3	3.7	e3.4	e1.8	e3.4	2.7	1.8	2.9	2.3	2.5	2.3	2.1
22	4.4	3.8	e3.3	e1.8	e3.4	2.7	1.8	2.9	2.3	2.3	2.2	2.1
23	4.4	3.9	e3.3	e1.9	3.4	2.9	1.8	2.9	2.2	2.2	2.2	2.1
24	4.4	e3.7	e3.3	e2.1	e3.3	2.7	1.9	2.9	2.2	2.2	2.3	2.0
25	4.5	e3.6	e3.3	e2.2	e3.2	2.6	2.3	2.8	2.2	2.1	2.3	2.0
26	4.6	e3.6	e3.3	e2.3	e3.2	2.7	2.7	3.0	2.2	2.0	2.3	1.9
27	4.6	e3.6	e3.3	e2.4	e3.1	2.9	2.6	3.2	2.3	2.1	2.3	1.9
28	4.6	e3.6	e3.3	e2.6	e3.0	e3.0	2.6	2.9	2.5	2.1	2.5	1.8
29	4.5	e3.6	e3.2	e2.8	---	e3.0	2.6	2.9	2.5	2.1	2.5	1.9
30	4.3	e3.6	e3.2	e3.0	---	e3.0	2.7	2.7	2.5	2.1	2.6	2.2
31	4.3	---	e3.2	3.4	---	3.0	---	2.7	---	2.0	2.6	---
TOTAL	141.8	116.4	106.1	79.9	94.1	104.0	71.4	93.9	73.8	68.7	69.8	69.5
MEAN	4.57	3.88	3.42	2.58	3.36	3.35	2.38	3.03	2.46	2.22	2.25	2.32
MAX	5.6	4.2	3.5	3.4	3.6	7.4	3.6	3.8	2.8	2.5	2.6	2.7
MIN	4.2	3.6	3.2	1.8	3.0	2.6	1.7	2.6	2.2	2.0	2.0	1.8
AC-FT	281	231	210	158	187	206	142	186	146	136	138	138

CAL YR 1986 TOTAL 1615.8 MEAN 4.43 MAX 8.6 MIN 2.7 AC-FT 3200
WTR YR 1987 TOTAL 1089.4 MEAN 2.98 MAX 7.4 MIN 1.7 AC-FT 2160

e Estimated.

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245900 PINE CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°47'40", long 116°51'13", in NW1/4SE1/4 sec.13, T.11 N. (revised), R.45 E., Nye County, Hydrologic Unit 16060005, on right bank 2.9 mi west of Pine Creek Ranch, and 7.2 mi north of Belmont.

DRAINAGE AREA.--12.2 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversions above station.

AVERAGE DISCHARGE.--10 years, 6.43 ft^3/s, 4,660 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft^3/s, May 17, gage height, 2.20 ft; minimum daily, 0.62 ft^3/s, Jan. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.4	1.0	.90	.75	.75	1.1	5.4	17	5.8	2.3	1.0
2	1.5	1.3	1.2	.90	.75	.75	1.2	5.2	20	5.5	2.2	.92
3	1.5	1.2	1.2	.86	.75	.75	1.4	5.2	23	5.4	2.2	.87
4	1.5	1.3	1.2	.82	.75	.75	1.3	5.3	24	5.1	2.1	.82
5	1.4	1.3	1.2	.82	.75	.75	1.2	6.0	23	4.9	2.1	.75
6	1.4	1.3	1.2	.82	.75	.75	1.1	6.5	24	4.7	2.0	.80
7	1.4	1.2	1.2	.82	.75	.75	1.1	7.2	24	4.5	1.9	.82
8	1.4	1.2	.81	.90	.75	.75	1.2	7.6	22	4.3	1.9	.82
9	1.4	1.1	e.80	.90	.75	.75	1.3	8.6	20	4.3	1.9	.82
10	1.4	1.2	e.78	.90	.75	.75	1.5	10	18	4.1	2.0	.82
11	1.3	1.3	e.76	.90	.79	.80	1.5	12	17	4.0	1.9	.82
12	1.3	1.3	e.82	.90	.82	.82	1.5	13	16	4.0	1.7	.82
13	1.3	1.3	e.86	.90	.82	.82	1.4	13	15	3.9	1.7	.82
14	1.3	1.3	e.92	.84	.82	.82	1.5	15	14	3.6	1.6	.75
15	1.3	1.3	.98	.90	.82	.99	1.7	19	14	3.6	1.6	.75
16	1.3	1.3	1.0	.83	.82	1.1	1.8	24	13	3.6	1.6	.75
17	1.3	1.3	1.1	1.2	.74	.98	2.0	26	12	3.5	1.5	.75
18	1.3	1.2	1.1	.96	.75	1.1	2.2	26	11	3.3	1.4	.75
19	1.3	e1.1	.98	.90	.73	1.1	2.0	26	10	3.5	1.5	.75
20	1.5	e1.0	.98	.81	.75	1.0	1.8	24	9.7	3.6	1.4	.81
21	1.5	e1.0	.98	.94	.70	1.1	1.8	22	9.1	3.5	1.4	.82
22	1.5	1.1	1.1	.82	.69	.98	2.0	18	8.3	3.4	1.3	.82
23	1.5	1.1	1.1	.76	.69	.98	2.0	16	8.1	3.1	1.3	.82
24	1.5	1.1	1.1	.69	.69	.98	2.3	15	7.4	3.0	1.3	.82
25	1.5	1.1	1.1	.64	.73	.98	2.4	14	6.9	2.8	1.3	.82
26	1.5	.83	1.1	.62	.75	.98	2.7	13	6.9	2.8	1.3	.85
27	1.5	.87	1.0	.62	.75	.93	3.0	12	6.9	2.7	1.2	.90
28	1.4	.96	.98	.69	.75	.89	3.4	12	6.7	2.7	1.2	.90
29	1.4	1.1	.98	.75	---	.90	4.3	12	6.5	2.6	1.2	.90
30	1.4	.80	.98	.75	---	.85	5.5	12	5.9	2.5	1.2	.90
31	1.4	---	.98	.75	---	.87	---	13	---	2.5	1.2	---
TOTAL	43.7	34.86	31.49	25.81	21.11	27.47	59.2	424.0	419.4	116.8	50.4	24.76
MEAN	1.41	1.16	1.02	.83	.75	.89	1.97	13.7	14.0	3.77	1.63	.83
MAX	1.5	1.4	1.2	1.2	.82	1.1	5.5	26	24	5.8	2.3	1.0
MIN	1.3	.80	.76	.62	.69	.75	1.1	5.2	5.9	2.5	1.2	.75
AC-FT	87	69	62	51	42	54	117	841	832	232	100	49

CAL YR 1986 TOTAL 1538.72 MEAN 4.22 MAX 33 MIN .76 AC-FT 3050
WTR YR 1987 TOTAL 1279.00 MEAN 3.50 MAX 26 MIN .62 AC-FT 2540

e Estimated.

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW1/4SW1/4 sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 27.4 mi east of Carvers on State Highway 8A, 59 mi northeast of Tonopah, and 17.9 mi northeast of Belmont.

DRAINAGE AREA.--15.1 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--9 years (1978-82, 1984-87), 2.51 ft^3/s, 1,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s, June 7, 1978, gage height, 3.55 ft; minimum daily, 0.06 ft^3/s, Jan. 25, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.8 ft^3/s, June 6, gage height, 1.74 ft; minimum daily, 0.06 ft^3/s, Jan. 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1983; discharge, 119 ft^3/s, gage height, 5.00 ft. Runoff from snowmelt.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.50	.46	.29	.08	.16	.34	1.8	4.1	2.6	1.2	.43
2	.50	.50	.50	.29	.08	.16	.46	1.7	4.2	2.6	1.2	.43
3	.54	.50	.50	.34	.08	.16	.58	1.7	4.2	2.6	1.2	.46
4	.54	.50	.50	.34	.08	.21	.52	1.7	4.2	2.6	1.1	.45
5	.54	.50	.50	.34	.08	.24	.52	1.7	4.2	2.7	1.1	.46
6	.54	.50	.50	.34	.08	.30	.52	1.7	4.7	2.7	1.1	.53
7	.54	.50	.46	.34	.08	.34	.46	1.6	5.4	2.7	.91	.54
8	.50	.46	.46	e.33	.08	.34	.52	1.7	5.0	2.7	.94	.49
9	.54	.43	e.46	e.31	.08	.34	.58	1.8	5.1	2.6	1.0	.43
10	.54	e.47	e.37	e.29	.08	.34	.75	2.1	5.1	2.7	.92	.40
11	.50	e.50	e.43	e.27	.08	.34	.82	2.2	4.9	2.7	.85	.36
12	.50	e.50	e.37	e.25	.07	.34	.75	2.1	4.2	2.6	.81	.34
13	.50	e.50	.50	e.23	.08	.30	.82	2.0	4.2	2.4	.77	.34
14	.54	e.50	.50	e.21	.08	.34	.82	2.1	4.2	2.3	.78	.37
15	.54	e.50	.50	e.18	.08	.34	.89	2.3	4.2	2.2	.77	.33
16	.54	e.50	.40	e.20	.08	.34	.89	3.0	4.0	2.2	.74	.33
17	.54	e.50	.37	e.21	.08	.30	1.2	3.7	3.8	2.2	.70	.33
18	.50	e.47	.32	e.20	.08	.30	1.3	3.6	3.8	2.2	.66	.33
19	.50	e.43	.34	e.16	.08	.30	1.1	3.6	3.6	2.3	.62	.31
20	.50	e.39	.37	e.11	.10	.26	.96	3.7	3.6	2.1	.61	.30
21	.46	e.39	.32	e.09	.10	.26	.96	3.7	3.7	2.1	.62	.30
22	.46	e.41	.34	e.09	.10	.26	1.2	3.7	3.7	2.0	.61	.32
23	.46	e.42	.34	e.09	.14	.26	1.3	3.7	3.6	1.9	.58	.32
24	.46	e.42	.32	e.09	.14	.24	1.4	3.7	3.5	1.7	.56	.34
25	.46	e.42	.29	.06	.14	.24	1.6	3.6	3.4	1.6	.59	.35
26	.46	e.40	e.29	.12	.14	.24	1.7	3.6	3.3	1.5	.57	.35
27	.46	e.37	.29	.14	.14	.24	1.5	4.1	3.1	1.5	.55	.35
28	.46	e.39	.26	.14	.14	.26	1.5	5.1	3.1	1.5	.55	.35
29	.46	e.43	.26	.12	---	.21	1.6	4.9	3.1	1.4	.53	.36
30	.50	.46	.26	.10	---	.21	2.0	4.7	3.1	1.3	.51	.38
31	.50	---	e.26	.08	---	.26	---	4.4	---	1.3	.47	---
TOTAL	15.58	13.76	12.04	6.35	2.65	8.43	29.56	91.0	120.3	67.5	24.12	11.38
MEAN	.50	.46	.39	.20	.095	.27	.99	2.94	4.01	2.18	.78	.38
MAX	.54	.50	.50	.34	.14	.34	2.0	5.1	5.4	2.7	1.2	.54
MIN	.46	.37	.26	.06	.07	.16	.34	1.6	3.1	1.3	.47	.30
AC-FT	31	27	24	13	5.3	17	59	180	239	134	48	23

CAL YR 1986 TOTAL 317.26 MEAN .87 MAX 4.6 MIN .26 AC-FT 629
WTR YR 1987 TOTAL 402.67 MEAN 1.10 MAX 5.4 MIN .06 AC-FT 799

e Estimated.

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°36'05", in SE1/4SE1/4 sec.18, T.15 N., R.57 E., Nye County, Hydrologic Unit 16060005, on left bank 2 mi southwest of Monitor Ranch, and 42 mi north of Belmont.

DRAINAGE AREA.--35.6 mi^2.

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 2.49 ft^3/s, 1,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160 ft^3/s, July 28, 1984, gage height, 4.06 ft; minimum daily, 0.12 ft^3/s, Sept. 17, 18, 1980, Nov. 2, 8, 9, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.7 ft^3/s, June 7, gage height, 0.76 ft; minimum daily, 0.12 ft^3/s, Nov. 2, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.13	.15	.24	.41	.36	.36	.43	1.9	1.4	.78	.44
2	.20	.12	.16	.24	.41	.36	.39	.45	1.9	1.3	.77	.41
3	.16	.13	.15	.26	.41	.36	.41	.45	1.9	1.3	.77	.41
4	.16	.13	.16	.30	.38	.35	.41	.45	1.9	1.3	.74	.41
5	.16	.13	.16	.32	.39	.36	.41	.45	2.0	1.3	.74	.41
6	.16	.13	.16	.32	.36	.36	.41	.45	2.2	1.3	.66	.41
7	.16	.13	.16	.32	.36	.36	.41	.45	2.5	1.2	.62	.41
8	.16	.12	.15	.32	.36	.36	.36	.45	2.4	1.2	.62	.44
9	.18	.12	.13	.31	.36	.36	.36	.45	2.4	1.2	.63	.42
10	.23	.13	.13	.32	.36	.33	.39	.45	2.3	1.3	.61	.41
11	.20	.13	.16	.37	.38	.34	.41	.49	2.1	1.3	.57	.44
12	.20	.13	.16	.36	.41	.36	.36	.57	2.1	1.2	.58	.45
13	.22	.13	.16	.36	.41	.36	.36	.56	2.1	1.2	.53	.45
14	.24	.13	.15	.34	.38	.36	.36	.54	2.0	1.1	.56	.43
15	.24	.14	.16	.36	.36	.36	.39	.64	1.9	1.1	.54	.41
16	.24	.16	.18	.34	.36	.36	.41	1.0	1.9	1.1	.55	.41
17	.24	.18	.19	.37	.36	.38	.41	1.2	1.9	1.1	.53	.41
18	.24	.16	.16	.41	.36	.38	.41	1.3	1.8	1.1	.54	.41
19	.24	.16	.16	.41	.38	.36	.41	1.3	1.8	1.0	.54	.41
20	.22	.16	.19	.41	.39	.38	.43	1.3	1.7	.98	.50	.41
21	.16	.16	.20	.40	.37	.36	.45	1.4	1.7	.97	.50	.41
22	.16	.14	.20	.36	.39	.36	.44	1.4	1.6	.95	.49	.41
23	.17	.18	.20	.36	.41	.36	.45	1.4	1.6	.94	.47	.41
24	.20	.17	.20	.36	.37	.36	.45	1.4	1.6	.92	.45	.41
25	.20	.16	.20	.39	.37	.36	.45	1.6	1.5	.91	.45	.41
26	.16	.18	.20	.43	.36	.38	.47	1.8	1.5	.88	.48	.41
27	.16	.19	.23	.41	.35	.37	.45	1.8	1.5	.89	.50	.38
28	.16	.21	.25	.41	.36	.39	.47	1.8	1.5	.87	.50	.36
29	.16	.17	.24	.41	---	.39	.47	2.0	1.5	.83	.47	.36
30	.16	.16	.25	.41	---	.36	.45	2.0	1.5	.82	.44	.36
31	.13	---	.24	.41	---	.36	---	1.9	---	.80	.45	---
TOTAL	5.88	4.47	5.59	11.03	10.57	11.25	12.41	31.88	56.2	33.76	17.58	12.32
MEAN	.19	.15	.18	.36	.38	.36	.41	1.03	1.87	1.09	.57	.41
MAX	.24	.21	.25	.43	.41	.39	.47	2.0	2.5	1.4	.78	.45
MIN	.13	.12	.13	.24	.35	.33	.36	.43	1.5	.80	.44	.36
AC-FT	12	8.9	11	22	21	22	25	63	111	67	35	24

CAL YR 1986 TOTAL 310.24 MEAN .85 MAX 2.7 MIN .12 AC-FT 615
WTR YR 1987 TOTAL 212.94 MEAN .58 MAX 2.5 MIN .12 AC-FT 422

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246930 SIXMILE CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'30", long 116°18'45", in NE1/4NW1/4 sec.11, T.8 N., R.50 E., on left bank 26 mi north of Warm Springs.

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

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 104 ft^3/s, July 20, 1985, gage height, 3.10 ft, from rating curve extended above 14 ft^3/s on basis of slope-conveyance computation of peak flow; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft^3/s, May 17, gage height, 1.90 ft; no flow many days during winter freezeup and summer months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.01	.10	.00	.00	.00	.0	5.0	3.3	.64	.06	.0
2	.01	.01	.13	.00	.00	.00	.0	4.9	3.1	.58	.06	.00
3	.00	.00	.09	.00	.00	.00	.0	4.7	2.9	.51	.05	.00
4	.01	.00	.00	.00	.00	.00	.0	4.6	2.9	.50	.05	.00
5	.01	.00	.00	.00	.00	.00	.0	4.5	2.6	.44	.03	.00
6	.01	.00	.00	.00	.00	.00	.0	4.3	2.5	.41	.04	.00
7	.00	.01	e.00	.00	.00	.00	.0	4.3	2.4	.36	.03	.00
8	.00	.02	e.00	.00	.00	.00	.0	4.6	2.6	.31	.10	.00
9	.00	.02	e.00	.00	.00	.00	.0	4.3	2.4	.29	.03	.00
10	.00	.01	e.00	.00	.00	.00	.0	4.0	2.1	.28	.03	.00
11	.01	.00	e.00	.00	.00	.00	.0	4.0	2.0	.27	.03	.00
12	.03	.00	e.00	.00	.00	.00	.00	4.3	2.0	.24	.03	.00
13	.02	.00	e.00	.00	.00	.00	.48	4.0	1.8	.23	.04	.00
14	.01	.00	e.00	.00	.00	.00	1.7	3.9	1.7	.18	.03	.00
15	.01	.00	e.00	.00	.00	.00	2.7	3.9	1.7	.17	.04	.00
16	.01	.00	e.00	.00	.00	.00	3.3	6.7	1.6	.17	.03	.00
17	.00	.00	e.00	.00	.00	.0	3.9	13	1.4	.18	.03	.00
18	.03	.00	e.00	.00	.00	.0	4.4	11	1.3	.21	.02	.00
19	.06	.00	.00	.00	.00	.0	4.6	9.6	1.3	.19	.02	.00
20	.00	.00	.00	.00	.00	.0	4.5	8.0	1.2	.18	.02	.00
21	.00	.00	.00	.00	.00	.0	4.5	7.1	1.2	.22	.02	.00
22	.00	.00	.00	.00	.00	.0	4.4	6.2	1.1	.17	.02	.00
23	.00	.00	.00	.00	.00	.0	4.4	5.4	1.1	.13	.02	.00
24	.00	.01	.00	.00	.00	.0	4.5	4.9	1.1	.11	.02	.00
25	.00	.00	.00	.00	.00	.0	4.5	4.7	1.0	.10	.02	.00
26	.00	.01	.00	.00	.00	.0	4.5	4.7	.93	.09	.01	.00
27	.00	.01	.00	.00	.00	.0	4.5	4.4	.86	.09	.01	.00
28	.00	.00	.00	.00	.00	.0	4.6	4.3	.82	.07	.01	.00
29	.00	.00	.00	.00	---	.0	5.0	4.1	.80	.06	.0	.00
30	.00	.02	.00	.00	---	.0	5.0	3.8	.67	.07	.01	.00
31	.00	---	.00	.00	---	.0	---	3.6	---	.07	.0	---
TOTAL	0.26	0.13	0.32	0.00	0.00	0.00	71.48	166.8	52.38	7.52	0.91	0.00
MEAN	.008	.004	.010	.00	.00	.00	2.38	5.38	1.75	.24	.029	.00
MAX	.06	.02	.13	.00	.00	.00	5.0	13	3.3	.64	.10	.00
MIN	.00	.00	.00	.00	.00	.00	.00	3.6	.67	.06	.00	.00
AC-FT	.5	.3	.6	.0	.0	.0	142	331	104	15	1.8	.0

CAL YR 1986 TOTAL 323.39 MEAN .89 MAX 4.3 MIN .00 AC-FT 641
WTR YR 1987 TOTAL 299.80 MEAN .82 MAX 13 MIN .00 AC-FT 595

e Estimated.

STONE CABIN VALLEY

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'35", long 116°35'05", in SE1/4SE1/4 sec.6, T.8 N., R.43 E., Nye County, Hydrologic Unit 16060011, in Toiyabe National Forest, on left bank about 3 mi north of Toiyabe National Forest boundary, and 30 mi northwest of Warm Springs.

DRAINAGE AREA.--16.4 mi^2.

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

REVISED RECORDS.--1986: daily discharges.

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

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--10 years, 1.59 ft^3/s, 1,150 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.1 ft^3/s, May 17, gage height, 1.70 ft; no flow many days.

• REVISIONS.--Revised figures of discharge for the water year 1986, superseding those published in the report for 1986 are given below.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.02	1.6	e2.1	1.5	.34	.00	.00	.00
2	.00	.00	.00	.00	.02	1.7	e2.1	1.3	.31	.00	.00	.00
3	.00	.00	.00	.00	.02	1.7	e2.0	1.4	.31	.00	.00	.00
4	.00	.00	.00	.00	.02	1.8	e2.0	1.3	.56	.00	.00	.00
5	.00	.00	.00	.00	.03	e1.7	e2.0	1.3	.34	.00	.00	.00
6	.00	.00	.00	.00	.03	e1.8	e2.0	1.3	.27	.00	.00	.00
7	.00	.00	.00	.00	.01	e1.7	e2.1	1.1	.21	.00	.00	.00
8	.00	.00	.00	.00	.02	e1.9	e2.0	1.0	.18	.00	.00	.00
9	.00	.00	.00	.00	.03	e2.0	e1.9	.94	.18	.00	.00	.00
10	.00	.00	.00	.00	.02	e2.1	e1.8	.94	.16	.00	.00	.00
11	.00	.00	.00	.00	.01	e2.0	e1.7	.87	.14	.00	.00	.00
12	.00	.00	.00	.00	.00	e1.9	e1.8	.94	.12	.00	.00	.00
13	.00	.00	.00	.00	.03	e1.8	e1.8	1.3	.10	.00	.00	.00
14	.00	.00	.00	.00	.14	e1.8	e1.8	1.2	.10	.00	.00	.00
15	.00	.00	.00	.00	1.0	e1.9	e1.8	1.0	.07	.00	.00	.00
16	.00	.00	.00	.00	.73	e2.0	e1.8	1.0	.05	.00	.00	.00
17	.00	.00	.00	.00	.73	e1.9	e1.8	.68	.04	.00	.00	.00
18	.00	.00	.00	.00	1.3	e1.8	e1.8	.68	.04	.00	.00	.00
19	.00	.00	.00	.00	2.4	e1.7	e1.8	.56	.03	.00	.00	.00
20	.00	.00	.00	.00	1.6	e1.7	e1.8	.68	.02	.00	.00	.00
21	.00	.00	.00	.00	1.0	e1.8	e1.8	.68	.02	.00	.00	.00
22	.00	.00	.00	.00	.73	e1.9	1.9	.62	.01	.00	.00	.00
23	.00	.00	.00	.00	.80	e2.0	2.0	.56	.01	.00	.00	.00
24	.00	.00	.00	.00	1.1	e2.0	2.3	.56	.01	.00	.00	.00
25	.00	.00	.00	.01	1.3	e2.0	1.9	.51	.00	.00	.00	.00
26	.00	.00	.00	.01	1.6	e2.2	1.9	.51	.00	.00	.00	.00
27	.00	.00	.00	.02	1.1	e2.2	1.9	.46	.00	.00	.00	.00
28	.00	.00	.00	.02	1.6	e2.2	1.9	.42	.00	.00	.00	.00
29	.00	.00	.00	.02	---	e2.2	1.7	.42	.00	.00	.00	.00
30	.00	.00	.00	.02	---	e2.2	1.6	.38	.00	.00	.00	.00
31	.00	---	.00	.03	---	e2.0	---	.34	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.13	17.39	59.2	56.8	26.45	3.62	0.00	0.00	0.00
MEAN	.00	.00	.00	.004	.62	1.91	1.89	.85	.12	.00	.00	.00
MAX	.00	.00	.00	.03	2.4	2.2	2.3	1.5	.56	.00	.00	.00
MIN	.00	.00	.00	.00	.00	1.6	1.6	.34	.00	.00	.00	.00
AC-FT	.0	.0	.0	.3	34	117	113	52	7.2	.0	.0	.0

CAL YR 1985 TOTAL 126.08 MEAN .35 MAX 2.0 MIN .00 AC-FT 250
WTR YR 1986 TOTAL 163.59 MEAN .45 MAX 2.4 MIN .00 AC-FT 324

e Estimated.

STONE CABIN VALLEY

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.38	1.1	1.5	e.27	e.00	.00
2	.00	.00	.00	.00	.00	.00	.68	.86	1.4	e.24	e.00	.00
3	.00	.00	.00	.00	.00	.00	.87	.80	1.3	e.24	e.00	.00
4	.00	.00	.00	.00	.00	.00	.51	.73	1.0	e.21	e.00	.00
5	.00	.00	.00	.00	.00	.01	.51	.68	.94	e.18	e.00	.00
6	.00	.00	.00	.00	.00	.16	.80	.56	1.4	e.16	e.00	.00
7	.00	.00	.00	.00	.00	.18	1.1	.56	2.4	e.14	e.00	.00
8	.00	.00	.00	.00	.00	.16	1.3	.73	1.7	e.12	e.00	.00
9	.00	.00	.00	.00	.00	.12	1.4	.73	2.1	e.10	e.00	.00
10	e.00	.00	.00	.00	.00	.08	1.5	.62	1.4	e.08	e.00	.00
11	e.00	.00	.00	.00	.00	.08	1.6	.62	1.2	e.07	e.00	.00
12	e.00	.00	.00	.00	.00	.12	1.2	.68	.94	e.05	.00	.00
13	e.00	.00	.00	.00	.00	.16	1.1	.80	.73	e.03	.00	.00
14	e.00	.00	.00	.00	.00	.12	1.3	.62	.68	e.02	.00	.00
15	e.00	.00	.00	.00	.00	.14	1.5	1.3	.62	e.01	.00	.00
16	e.00	.00	.00	.00	.00	.12	1.5	2.1	.62	e.00	.00	.00
17	e.00	.00	.00	.00	.00	.08	1.4	2.8	.51	e.00	.00	.00
18	e.00	.00	.00	.00	.00	.14	1.5	2.8	.42	e.00	.00	.00
19	e.00	.00	.00	.00	.00	.14	1.1	2.1	.42	e.00	.00	.00
20	e.00	.00	.00	.00	.00	.16	.87	1.7	.38	e.00	.00	.00
21	.00	.00	.00	.00	.00	.14	.87	1.8	.34	e.00	.00	.00
22	.00	.00	.00	.00	.00	.14	.87	1.6	.27	e.00	.00	.00
23	.00	.00	.00	.00	.05	.16	.94	1.5	e.42	e.00	.00	.00
24	.00	.00	.00	.00	.01	.14	.94	1.4	e.38	e.00	.00	.00
25	.00	.00	.00	.00	.00	.14	.94	1.3	e.38	e.00	.00	.00
26	.00	.00	.00	.00	.00	.16	.87	1.6	e.34	e.00	.00	.00
27	.00	.00	.00	.00	.00	.14	.87	1.8	e.34	e.00	.00	.00
28	.00	.00	.00	.00	.00	.14	.94	1.8	e.31	e.00	.00	.00
29	.00	.00	.00	.01	---	.16	1.2	2.0	e.31	e.00	.00	.00
30	.00	.00	.00	.03	---	.18	1.4	2.1	e.27	e.00	.00	.00
31	.00	---	.00	.02	---	.24	---	1.7	---	e.00	.00	---
TOTAL	0.00	0.00	0.00	0.06	0.07	3.71	31.96	41.49	25.02	1.92	0.00	0.00
MEAN	.00	.00	.00	.002	.002	.12	1.07	1.34	.83	.062	.00	.00
MAX	.00	.00	.00	.03	.05	.24	1.6	2.8	2.4	.27	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.38	.56	.27	.00	.00	.00
AC-FT	.0	.0	.0	.1	.1	7.4	63	82	50	3.8	.0	.0

CAL YR 1986 TOTAL 163.59 MEAN .45 MAX 2.4 MIN .00 AC-FT 324
WTR YR 1987 TOTAL 104.23 MEAN .29 MAX 2.8 MIN .00 AC-FT 207

e Estimated.

BIG SMOKY VALLEY (NORTHERN PART)

10249280 KINGSTON CREEK BELOW COUGAR CANYON, NEAR AUSTIN, NV

LOCATION.--Lat 39°12'45", long 117°06'45", in NW1/4 sec.35, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank 1.1 mi downstream from Cougar Canyon, and 19 mi southeast of Austin.

DRAINAGE AREA.--23.4 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft about 4 mi upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation.

AVERAGE DISCHARGE.--21 years, 8.28 ft^3/s, 7,050 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft^3/s, June 19-22, gage height, 2.04 ft; minimum daily, 3.9 ft^3/s, Feb. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.9	5.4	5.0	4.5	4.1	5.4	9.4	13	15	e11	7.1
2	7.1	5.9	5.4	5.0	4.5	4.1	5.6	9.4	13	15	e11	7.1
3	7.1	5.9	5.4	5.0	4.3	4.1	5.7	9.4	15	15	e11	7.1
4	7.1	5.9	5.4	5.0	4.3	4.1	5.8	9.4	15	14	e11	6.9
5	7.0	5.9	5.4	5.0	4.3	4.2	5.9	9.5	16	16	e11	6.5
6	6.8	5.8	5.4	5.0	4.3	4.9	5.9	10	16	14	e11	6.5
7	6.8	5.7	5.4	5.0	4.3	5.0	6.0	10	16	13	e11	6.7
8	6.8	5.7	5.4	4.8	4.3	5.0	6.2	9.8	15	13	e11	6.4
9	6.8	5.7	5.4	4.7	4.3	5.0	6.4	9.9	22	14	e11	6.2
10	6.8	5.7	5.4	4.7	4.2	5.0	6.5	9.9	24	13	e11	6.2
11	6.8	5.7	5.4	4.7	4.1	5.0	6.6	9.7	28	12	11	6.2
12	6.8	5.7	5.4	4.7	4.1	4.9	6.8	10	29	12	11	6.1
13	6.8	5.6	5.4	4.5	4.1	4.7	6.9	9.9	29	12	11	5.7
14	6.8	5.3	5.4	4.5	4.1	4.7	7.4	10	30	e12	9.8	5.8
15	6.8	5.4	5.4	4.5	4.2	4.7	7.4	10	30	e12	9.8	5.8
16	6.7	5.4	5.4	4.5	4.3	4.8	7.7	11	30	e12	9.8	5.5
17	6.4	5.4	5.2	4.5	4.3	5.0	7.7	11	30	e12	9.5	5.4
18	6.2	5.4	5.2	4.5	4.1	5.0	7.7	11	30	e12	9.4	5.4
19	6.2	5.4	5.2	4.5	4.1	5.0	7.7	11	30	e12	9.2	5.4
20	6.2	5.4	5.2	4.5	4.1	5.0	7.7	11	31	e12	9.0	5.1
21	6.2	5.4	5.2	4.5	4.1	5.0	7.7	10	31	e12	8.7	4.9
22	6.2	5.4	5.2	4.5	4.1	5.0	7.7	10	26	e12	8.5	4.9
23	6.2	5.4	5.2	4.5	4.1	5.1	7.9	11	21	e12	8.3	4.8
24	5.9	5.4	5.2	4.5	4.1	5.0	8.0	11	19	e12	8.2	4.7
25	5.9	5.4	5.0	4.5	4.0	5.0	8.0	11	20	e12	8.6	4.6
26	5.9	5.4	5.0	4.4	3.9	5.0	8.2	12	20	e11	8.7	7.0
27	5.9	5.4	5.0	4.4	3.9	5.0	8.3	12	17	e11	8.7	6.9
28	5.9	5.4	5.0	4.5	4.0	5.1	8.4	12	16	e11	8.4	7.5
29	5.9	5.4	5.0	4.5	---	5.2	8.8	13	15	e11	8.0	7.6
30	5.9	5.4	5.0	4.5	---	5.2	9.1	13	16	e11	8.0	8.0
31	5.9	---	5.0	4.5	---	5.3	---	13	---	e11	7.8	---
TOTAL	200.9	166.8	163.0	143.9	117.0	150.2	215.1	329.3	663	388	301.4	184.0
MEAN	6.48	5.56	5.26	4.64	4.18	4.85	7.17	10.6	22.1	12.5	9.72	6.13
MAX	7.1	5.9	5.4	5.0	4.5	5.3	9.1	13	31	16	11	8.0
MIN	5.9	5.3	5.0	4.4	3.9	4.1	5.4	9.4	13	11	7.8	4.6
AC-FT	398	331	323	285	232	298	427	653	1320	770	598	365

CAL YR 1986 TOTAL 3067.0 MEAN 8.40 MAX 15 MIN 5.0 AC-FT 6080
WTR YR 1987 TOTAL 3022.6 MEAN 8.28 MAX 31 MIN 3.9 AC-FT 6000

e Estimated.

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 SW1/4NE1/4 sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank 600 ft upstream from diversion, 3 mi west of State Highway 376, and 15 mi northwest of Round Mountain.

DRAINAGE AREA.--20 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--22 years, 6.96 ft^3/s, 5,040 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 8	1800	*14	*1.85				

Minimum daily, 0.40 ft^3/s, Sept. 19-25, but may have been less during period of missing record, Aug. 8 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.7	e1.6	1.5	e1.2	e3.3	2.7	6.5	11	3.9	1.8	e.65
2	1.0	1.7	1.8	1.3	e1.2	e3.2	2.9	6.2	11	3.8	1.7	e.62
3	.98	1.6	2.0	1.3	e1.3	e3.1	3.2	6.0	11	3.7	1.6	e.62
4	.97	1.6	1.9	1.4	e1.3	e2.9	3.1	5.7	11	3.7	1.5	e.62
5	.95	1.6	1.9	1.4	e1.3	e2.8	3.1	5.4	11	3.6	1.3	e.60
6	.95	1.7	1.9	1.5	e1.3	e2.7	2.9	5.3	11	3.5	1.2	e.60
7	.94	1.7	1.9	1.5	e1.4	e2.5	2.9	5.3	11	3.4	1.1	e.60
8	.96	1.8	1.7	1.5	e1.4	2.3	3.1	5.3	11	3.1	e.95	e.57
9	.96	1.9	e1.6	1.6	e1.5	2.3	3.2	5.5	12	3.0	e1.0	e.57
10	1.0	1.8	e1.5	1.7	e1.5	2.3	3.3	5.5	10	2.9	e1.0	e.57
11	1.1	1.8	1.6	1.7	e1.6	2.3	3.4	5.5	9.5	2.9	e1.0	e.57
12	1.1	1.8	1.7	1.7	e1.6	2.2	3.5	5.5	8.7	2.9	e1.0	e.54
13	1.1	1.9	1.7	1.6	e1.6	2.2	3.5	5.4	8.2	2.8	e.98	e.54
14	1.0	1.9	1.8	1.5	e1.7	2.2	3.4	5.6	7.6	2.6	e.94	e.50
15	1.0	1.9	1.8	1.6	e1.8	2.3	3.5	6.6	7.3	2.7	e.89	e.50
16	1.0	2.0	1.9	1.1	e1.8	2.5	3.7	8.1	7.1	2.8	e.84	e.46
17	1.1	2.0	1.8	e1.0	e1.8	2.5	3.9	8.3	6.9	2.8	e.80	e.44
18	1.1	2.1	1.9	e.98	e1.8	2.5	4.3	9.3	6.5	2.8	e.77	e.44
19	1.3	2.1	1.6	e.96	e1.9	2.5	4.4	9.2	6.2	2.7	e.74	e.40
20	1.3	2.1	1.6	e.95	2.0	2.9	4.1	9.2	5.9	2.5	e.74	e.40
21	1.3	2.1	1.6	e.94	2.3	2.5	4.0	9.3	5.6	2.6	e.65	e.40
22	1.5	2.0	2.0	e.94	2.2	2.7	3.9	9.4	5.6	2.6	e.65	e.40
23	1.6	2.0	1.6	e.97	1.8	2.5	3.8	9.0	5.3	2.4	e.62	e.40
24	1.7	2.0	1.5	e.99	3.1	2.5	3.8	8.6	5.0	2.2	e.62	e.40
25	1.7	2.0	1.6	e1.0	2.3	2.5	3.9	8.9	5.0	2.3	e.70	e.40
26	1.7	1.9	1.7	e1.0	5.4	2.4	4.0	9.2	4.8	2.4	e.78	e.48
27	1.7	1.9	1.6	e1.1	3.6	2.5	4.2	10	4.7	2.4	e.78	e.52
28	1.7	1.9	1.5	e1.1	e3.4	2.6	4.4	11	4.5	2.3	e.78	e.52
29	1.7	1.9	1.6	e1.1	---	2.5	5.3	11	4.3	2.1	e.74	e.48
30	1.7	e1.7	1.9	e1.2	---	2.4	6.2	11	4.2	1.9	e.74	e.54
31	1.7	---	1.8	e1.2	---	2.6	---	11	---	1.8	e.70	---
TOTAL	38.81	56.1	53.6	39.33	55.1	79.2	111.6	237.8	232.9	87.1	29.61	15.35
MEAN	1.25	1.87	1.73	1.27	1.97	2.55	3.72	7.67	7.76	2.81	.96	.51
MAX	1.7	2.1	2.0	1.7	5.4	3.3	6.2	11	12	3.9	1.8	.65
MIN	.94	1.6	1.5	.94	1.2	2.2	2.7	5.3	4.2	1.8	.62	.40
AC-FT	77	111	106	78	109	157	221	472	462	173	59	30

CAL YR 1986 TOTAL 1518.66 MEAN 4.16 MAX 21 MIN .44 AC-FT 3010
WTR YR 1987 TOTAL 1036.50 MEAN 2.84 MAX 12 MIN .40 AC-FT 2060

e Estimated.

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

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
13...	1220	1.9	126	8.00	11.5	2.5	0.40	10.6	98	<2	K16	54
MAR												
23...	1345	2.5	125	7.50	2.5	3.5	0.50	11.0	106	<2	K50	51
MAY												
20...	1500	8.9	102	--	9.5	8.0	2.1	13.9	150	K10	K4	40
AUG												
03...	1800	1.4	121	8.10	28.0	16.5	0.50	7.6	98	<1	28	51

K: NON-IDEAL COLONY COUNT.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
NOV 13...	19	1.6	6.6	0.4	0.90	69	56	7.1	1.8	0.20	20	82
MAR 23...	18	1.5	6.0	0.4	0.70	63	51	9.2	2.0	0.20	18	95
MAY 20...	14	1.1	5.7	0.4	0.70	--	--	<5.0	1.5	0.10	20	89
AUG 03...	18	1.5	6.7	0.4	0.90	65	54	5.9	1.6	0.20	22	79

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 13...	92	0.11	<0.010	<0.100	<0.010	0.020	--	0.30	<0.010	<0.010	<0.010
MAR 23...	87	0.13	<0.010	<0.100	0.030	0.020	0.57	0.60	0.010	0.010	<0.010
MAY 20...	--	--	<0.010	<0.100	0.020	0.010	--	<0.20	0.010	0.010	<0.010
AUG 03...	89	0.11	<0.010	<0.100	0.040	0.030	0.56	0.60	0.010	0.010	<0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV 13...	<10	3	8	<0.5	<1	<1	<3	4	4	<5	7
MAR 23...	10	3	11	<0.5	<1	<1	<3	1	5	<5	8
MAY 20...	30	2	7	<0.5	<1	4	<3	1	27	<5	6
AUG 03...	<10	4	6	<0.5	<1	<1	<3	<1	6	<5	<4

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 13...	<1	<0.1	<10	3	<1	<1	110	<6	4	2	0.01
MAR 23...	<1	<0.1	<10	<1	<1	<1	110	<6	<3	2	0.01
MAY 20...	<1	<0.1	<10	1	<1	<1	89	<6	<3	9	0.22
AUG 03...	<1	<0.1	<10	<1	<1	<1	110	<6	5	3	0.01

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	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)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
NOV 13...	1220	1.7	0.9	0.4	1.6	0.7	1.4	0.7	0.02	2.1
MAY 20...	1500	8.7	0.9	0.8	1.1	1.0	1.0	1.1	0.03	0.97

PAHRUMP VALLEY

10251890 PEAK SPRING CANYON CREEK NEAR CHARLESTON PEAK, NV

LOCATION.--Lat 36°14'40", long 115°43'09", in SW1/4NE1/4 sec.6. T.20 S., R.56 E., Clark County, Hydrologic Unit 16060015, on left bank 200 ft upstream of Carpenter Road, 11 mi east of State Highway 16, and 14.5 mi east of Pahrump.

DRAINAGE AREA.--3.09 mi^2.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--8 years (1979-83, 1985-87), 1.99 ft^3/s, 1,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228 ft^3/s, Aug. 17, 1983, gage height, 8.68 ft; minimum, 0.13 ft^3/s, Dec. 16, 17, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s, May 16, gage height, 8.05 ft; minimum daily, 0.18 ft^3/s, Feb. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.34	.31	.29	.21	e.33	e.31	3.7	1.8	.92	.62	.46
2	.44	.33	.29	.29	.18	e.33	e.32	3.2	1.7	.91	.61	.46
3	.43	.32	.29	.27	.18	e.32	e.35	2.8	1.6	.87	.64	.46
4	.41	.32	.29	.28	.21	e.32	e.39	3.0	1.5	.86	.66	.46
5	.41	.32	.30	.29	.21	e.31	e.44	3.2	1.5	.84	.66	.46
6	.41	.32	.32	.29	.22	e.31	e.49	3.1	1.6	.81	.68	.45
7	.40	.32	.32	.29	.22	e.30	e.55	3.1	1.9	.85	.66	.45
8	.39	.31	.31	.29	.23	e.30	.64	3.2	2.0	.84	.70	.45
9	.38	.30	.30	.29	.23	e.30	.72	2.8	2.0	.83	.70	.43
10	.38	.29	e.31	.29	.23	e.30	1.0	2.4	1.8	.82	.70	.43
11	.37	.29	.32	.29	.24	e.30	1.5	2.3	1.7	.80	.68	.43
12	.37	.29	.32	.29	.23	e.30	1.6	2.3	1.5	.78	.66	.43
13	.36	.29	.32	.29	.24	e.29	1.8	2.5	1.5	.76	.65	.45
14	.36	.29	.32	.28	.24	e.29	2.4	2.7	1.5	.76	.64	.45
15	.35	.29	.33	.27	.23	e.29	3.2	5.4	1.4	.80	.62	.43
16	.35	.29	.32	.27	.23	e.29	3.8	10	1.3	.81	.60	.43
17	.35	.29	.28	.27	.23	e.28	4.0	9.8	1.3	.81	.57	.43
18	.36	.46	.29	.27	.22	e.28	3.8	7.6	1.2	.81	.56	.42
19	.39	.40	.29	.27	.30	e.28	3.1	6.4	1.2	.75	.53	.41
20	.38	.38	.32	.27	.33	e.28	2.6	5.5	1.1	.78	.50	.38
21	.38	.38	.29	.27	.33	e.28	2.5	4.7	1.1	.75	.50	.35
22	.37	.37	.29	.27	.33	e.28	2.7	4.1	1.1	.72	.49	.36
23	.36	.35	.29	.27	.33	e.28	3.4	3.8	1.0	.73	.50	.36
24	.35	.33	.29	.27	.34	e.28	3.3	3.5	.97	.70	.49	.38
25	.35	.32	.29	.27	.33	e.28	3.0	3.3	.96	.68	.49	.45
26	.34	.31	.29	.27	.33	e.28	2.8	3.1	.93	.66	.48	.53
27	.34	.31	.29	.27	e.35	e.28	3.0	2.8	.91	.67	.47	.52
28	.32	.32	.29	.25	e.34	e.28	3.0	2.6	.92	.67	.48	.52
29	.32	.32	.29	.23	---	e.29	3.4	2.4	.95	.65	.48	.50
30	.33	.32	.29	.22	---	e.29	3.8	2.1	.93	.64	.47	.50
31	.33	---	.29	.23	---	e.30	---	1.9	---	.65	.46	---
TOTAL	11.48	9.77	9.34	8.46	7.29	9.12	63.91	119.3	40.87	23.93	17.95	13.24
MEAN	.37	.33	.30	.27	.26	.29	2.13	3.85	1.36	.77	.58	.44
MAX	.44	.46	.33	.29	.35	.33	4.0	10	2.0	.92	.70	.53
MIN	.32	.29	.28	.22	.18	.28	.31	1.9	.91	.64	.46	.35
AC-FT	23	19	19	17	14	18	127	237	81	47	36	26

CAL YR 1986 TOTAL 515.78 MEAN 1.41 MAX 6.0 MIN .21 AC-FT 1020
WTR YR 1987 TOTAL 334.66 MEAN .92 MAX 10 MIN .18 AC-FT 664

e Estimated.

WALKER LAKE BASIN

10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°35'05", long 118°42'15", in NE1/4NE1/4 sec.2, T.8 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 5.5 mi northwest of Hawthorne.

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

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

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

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

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

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

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,971.5	3,052,000	--
Oct. 31	3,970.9	3,029,000	-23,000
Nov. 30	3,970.6	3,018,000	-11,000
Dec. 31	3,970.7	3,022,000	+4,000
CAL YR 1986	--	--	+40,000
Jan. 31	3,970.6	3,018,000	-4,000
Feb. 28	3,970.5	3,014,000	-4,000
Mar. 31	3,970.6	3,018,000	+4,000
Apr. 30	3,970.5	3,014,000	-4,000
May 31	3,970.4	3,010,000	-4,000
June 30	3,970.2	3,002,000	-8,000
July 31	3,969.6	2,979,000	-23,000
Aug. 31	3,969.1	2,960,000	-19,000
Sept. 30	3,968.6	2,942,000	-18,000
WTR YR 1987	--	--	-110,000

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

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in NW1/4NE1/4 sec.5, T.3 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of upper lake dam on Robinson Creek, and 10 mi southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 7,212.86 ft, National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,500 acre-ft, June 4-8, elevation, 7,208.34 ft; minimum observed, 426 acre-ft, Sept. 1, elevation, 7,201.52 ft, but may have been lower between Sept. 2-30.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	--	g2,220	--
Oct. 31	7,207.02	2,080	-140
Nov. 30	--	1,930	-150
Dec. 31	7,206.53	1,920	-10
CAL YR 1986	--	--	-250
Jan. 31	7,206.66	1,960	+40
Feb. 28	7,206.94	2,050	+90
Mar. 31	7,206.98	2,060	+10
Apr. 30	7,208.33	2,500	+440
May 31	7,207.88	2,350	-150
June 30	7,207.70	2,290	-60
July 31	7,204.81	1,380	-910
Aug. 31	--	g456	-924
Sept. 30	--	g238	-218
WTR YR 1987	--	--	-1,982

g Interpolated.

WALKER LAKE BASIN

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE1/4NE1/4 sec.33, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of lower lake dam on Robinson Creek, and 8 mi southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 7,205.45 ft, National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum recorded contents, 4,560 acre-ft, May 18, elevation, 7,201.29 ft; minimum observed, 700 acre-ft, Sept. 1, elevation, 7,191.75 ft, but may have been lower during period of no gage-height record, Nov. 3 to May 6, Aug. 21 to Sept. 30.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	--	g2,230	--
Oct. 31	--	g2,100	-130
Nov. 30	--	g3,080	+980
Dec. 31	--	g4,010	+930
CAL YR 1986	--	--	+2,340
Jan. 31	--	g4,220	+210
Feb. 28	--	g4,200	-20
Mar. 31	--	g4,180	-20
Apr. 30	--	g4,200	+20
May 31	7,200.54	4,240	+40
June 30	7,200.07	4,040	-200
July 31	7,196.05	2,420	-1,620
Aug. 31	--	g752	-1,670
Sept. 30	--	g292	-460
WTR YR 1987	--	--	-1,930

g Interpolated.

WALKER LAKE BASIN

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE1/4NE1/4 sec.34, T.6N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at Bridgeport Dam on East Walker River, and 4.5 mi north of Bridgeport.

DRAINAGE AREA.--358 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,466.44 ft, National Geodetic Vertical Datum of 1929 (project datum).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum recorded contents, 44,170 acre-ft, Mar. 26, elevation, 6,459.90 ft; minimum, 2,080 acre-ft, Sept. 30, elevation, 6,433.07 ft.

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

6,430	1,130	6,450	18,780
6,435	2,920	6,455	29,160
6,440	6,240	6,459	39,540
6,445	11,380	6,460	42,460

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16690	20580	25390	29450	34350	41030	42000	36840	34800	28310	16740	5290
2	16950	20780	25540	29520	34590	40860	42000	36680	34720	27900	16360	5060
3	17230	20950	25670	29830	34800	40540	41970	36550	34670	27500	15970	4840
4	17490	21210	25910	30000	35040	40210	42000	36310	34590	27110	15470	4650
5	17750	21380	26020	20100	35220	39890	42000	36070	34610	26750	e15100	4480
6	18010	21500	26090	30240	35410	39800	42000	35800	34540	26310	e14550	4290
7	18260	21680	26200	30360	35650	40060	41970	35540	34610	25890	e14100	4100
8	18510	21800	26330	e30510	35780	40240	41880	35280	34740	25520	e13720	3950
9	18710	21970	26440	e30660	36120	40300	41880	35010	34740	25030	13250	3820
10	18910	22190	26550	e30780	36420	40510	41790	34770	34740	24600	12740	3710
11	19090	22360	26680	e30920	36680	40680	41610	34610	34560	24240	12280	3600
12	19330	22540	26840	e31070	36900	40860	41490	34480	34460	23830	11820	3520
13	19540	22750	27000	e31190	37730	41090	41380	34350	34250	23540	e11210	3440
14	19650	22870	27140	e31330	38010	41230	41120	34090	34010	23120	e10790	3400
15	19750	23040	27230	e31470	38460	41410	40860	33990	33760	22790	e10380	3320
16	19920	23240	27370	e31620	38710	41520	40590	33990	33550	22360	e9980	3240
17	19920	23430	27500	e31770	38850	41670	40360	34090	33250	21930	e9580	3150
18	20070	23660	27670	e31920	39010	41760	39830	34140	32990	21620	e9190	3070
19	20180	23810	27800	e32080	39290	41790	39690	34010	32620	21290	e8800	2970
20	20270	24020	27920	e32230	39400	42000	39540	34250	32230	20900	e8480	2880
21	20350	24020	28060	e32380	39630	41940	39400	34610	31800	20490	e8170	2800
22	20380	24180	28240	e32510	39830	42030	39200	34720	31500	20160	e7870	2720
23	20440	24320	28310	e32670	29860	41970	38930	34980	31190	19840	e7570	2620
24	20480	24490	28420	e32820	40240	42050	38710	34980	30780	19390	e7290	2540
25	20480	24600	28540	e32940	40270	42110	38460	34900	30410	19090	e7030	2460
26	20460	24770	28750	e33090	40450	42030	38210	34900	30000	18730	e6780	2370
27	20440	24990	28790	e33250	40740	42000	37930	34900	29660	18420	e6520	e2300
28	20480	25100	28910	e33400	40860	41910	37670	34980	29300	18110	e6270	e2230
29	20550	25100	29000	33860	---	41940	37400	34980	29000	17770	s6020	e2150
30	20440	25210	29070	34060	---	41970	37100	34980	28700	17440	5700	e2080
31	20440	---	29280	34220	---	41970	---	34950	---	17110	5520	---
MAX	20550	25210	29280	34220	40860	42110	42000	36840	34800	28310	16740	5290
MIN	16690	20580	25390	20100	29860	39800	37100	33990	28700	17110	5520	2080
#	6450.90	6453.25	6455.05	6457.04	6459.45	6459.83	6458.12	6457.32	6454.80	6449.03	6439.10	6433.07
##	+3960	+4770	+4070	+4940	+6640	+1110	-4870	-2150	-6250	-11590	-11590	-3440

CAL YR 1986 MAX 40090 MIN 16480 ## -440
WTR YR 1987 MAX 42110 MIN 2080 ## -14400

\# Elevation, in feet NGVD, at end of month.
Change in contents, in acre-feet.
e Estimated.

WALKER LAKE BASIN

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW1/4NE1/4 sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank 1,500 ft downstream from Bridgeport Reservoir, 5 mi north of Bridgeport, and 10 mi upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi^2.

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. Elevation of gage is 6,400 ft, from topographic map. Prior to Oct. 1, 1921, nonrecording gage at site 0.5 mi upstream at different datum. Oct. 1, 1921, to Feb. 21, 1924, water-stage recorder at site 1 mi downstream at different datum. Feb. 22, 1924, to Sept. 30, 1931, water-stage recorder, and Oct. 1, 1931, to May 25, 1939, nonrecording gage at present site at datum 2.34 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of meadow pasturelands near Bridgeport. Flow regulated by Bridgeport Reservoir (10292500).

AVERAGE DISCHARGE.--64 years (1922-24, 1925-87), 149 ft^3/s, 108,000 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 348 ft^3/s, Mar. 3, gage height, 1.99 ft; minimum daily, 5.9 ft^3/s, Oct. 2-13, but may have been less during this period.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	12	14	17	15	84	78	187	117	227	190	142
2	e5.9	12	14	17	15	214	71	181	117	222	204	141
3	e5.9	12	14	17	15	336	80	180	116	214	209	139
4	e5.9	12	14	17	15	308	98	192	115	215	225	125
5	e5.9	12	14	17	15	290	97	209	114	217	230	120
6	e5.9	12	16	17	15	114	98	212	120	232	231	120
7	e5.9	12	16	17	15	18	97	223	122	228	231	119
8	e5.9	12	15	17	15	18	97	227	119	219	229	111
9	e5.9	12	15	17	14	18	106	225	131	218	230	95
10	e5.9	13	15	17	14	18	118	225	150	212	235	80
11	e5.9	13	15	17	15	19	128	216	148	210	243	71
12	e5.9	13	15	17	15	19	135	215	151	210	243	67
13	e5.9	13	16	16	15	19	147	227	162	207	241	66
14	73	13	16	16	15	19	166	217	169	201	239	66
15	70	13	16	16	15	20	180	200	175	202	233	67
16	49	13	16	16	15	19	185	200	183	202	233	70
17	49	13	16	16	15	20	179	200	182	202	228	74
18	49	13	16	16	15	20	174	198	189	202	216	75
19	49	13	17	16	15	20	174	199	198	201	201	75
20	49	13	17	16	16	58	170	183	197	205	184	75
21	72	13	17	16	16	82	164	154	197	210	171	75
22	107	13	17	16	16	83	179	138	202	210	166	79
23	107	12	17	16	16	83	193	138	210	197	166	84
24	107	13	17	15	16	82	199	138	208	180	161	86
25	107	13	17	15	16	100	205	138	211	172	154	85
26	107	14	17	15	16	119	215	130	216	172	152	85
27	107	14	17	15	16	115	230	116	216	172	151	86
28	108	14	17	15	55	110	240	117	214	172	150	86
29	107	14	17	15	---	111	223	116	213	171	151	82
30	108	14	17	15	---	96	204	116	219	174	150	66
31	77	---	17	15	---	87	---	117	---	183	147	---
TOTAL	1597.8	385	494	500	466	2719	4630	5534	5081	6259	6194	2712
MEAN	51.5	12.8	15.9	16.1	16.6	87.7	154	179	169	202	200	90.4
MAX	108	14	17	17	55	336	240	227	219	232	243	142
MIN	5.9	12	14	15	14	18	71	116	114	171	147	66
AC-FT	3170	764	980	992	924	5390	9180	10980	10080	12410	12290	5380

CAL YR 1986 TOTAL 102439.8 MEAN 281 MAX 1350 MIN 5.9 AC-FT 203200
WTR YR 1987 TOTAL 36571.8 MEAN 100 MAX 336 MIN 5.9 AC-FT 72540

e Estimated.

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

LOCATION.--Lat 38°48'45", long 119°02'50", in NW1/4SW1/4 sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank 0.9 mi upstream from head of Strosnider ditch, 12 mi southeast of Mason, and 13.5 mi southeast of Yerington.

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

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft^3/s, June 7, 1986, gage height, 7.49 ft, on basis of rating extension above 2,380 ft^3/s; minimum daily, 2.3 ft^3/s, Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 303 ft^3/s, July 3, gage height, 4.14 ft; minimum daily recorded during period of operation, 62 ft^3/s, Sept. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e70	140	105	281	157	105
2	---	---	---	---	---	---	e71	125	102	290	154	108
3	---	---	---	---	---	---	e73	124	95	240	161	116
4	---	---	---	---	---	---	e74	125	90	172	174	116
5	---	---	---	---	---	---	e74	128	87	185	193	111
6	---	---	---	---	---	---	e76	138	88	190	187	107
7	---	---	---	---	---	---	78	139	121	201	180	107
8	---	---	---	---	---	---	79	143	127	202	173	106
9	---	---	---	---	---	---	76	139	122	201	175	104
10	---	---	---	---	---	---	69	151	123	202	179	95
11	---	---	---	---	---	---	74	154	130	162	177	88
12	---	---	---	---	---	---	78	187	124	162	189	81
13	---	---	---	---	---	---	86	157	127	163	188	75
14	---	---	---	---	---	---	86	160	143	163	186	71
15	---	---	---	---	---	---	87	163	150	163	184	69
16	---	---	---	---	---	---	95	148	150	160	180	67
17	---	---	---	---	---	---	103	148	162	156	177	65
18	---	---	---	---	---	---	105	173	156	155	175	63
19	---	---	---	---	---	---	101	167	160	157	170	64
20	---	---	---	---	---	---	100	196	164	160	157	63
21	---	---	---	---	---	---	100	225	161	160	144	62
22	---	---	---	---	---	---	96	175	157	165	134	62
23	---	---	---	---	---	---	99	152	157	168	123	62
24	---	---	---	---	---	---	109	137	158	169	120	62
25	---	---	---	---	---	---	120	131	178	159	115	65
26	---	---	---	---	---	---	123	129	214	145	104	64
27	---	---	---	---	---	---	135	129	285	142	100	66
28	---	---	---	---	---	---	144	113	283	133	98	66
29	---	---	---	---	---	---	162	108	283	133	100	66
30	---	---	---	---	---	---	155	110	286	143	100	63
31	---	---	---	---	---	---	---	108	---	153	100	---
TOTAL	---	---	---	---	---	---	2898	4522	4688	5435	4754	2419
MEAN	---	---	---	---	---	---	96.6	146	156	175	153	80.6
MAX	---	---	---	---	---	---	162	225	286	290	193	116
MIN	---	---	---	---	---	---	69	108	87	133	98	62
AC-FT	---	---	---	---	---	---	5750	8970	9300	10780	9430	4800

e Estimated.

WALKER LAKE BASIN

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

LOCATION.--Lat 38°22'47", long 119°26'57", in NE1/4SE1/4 sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank 50 ft downstream from Little Walker River, 160 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

DRAINAGE AREA.--180 mi^2, revised.

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, above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1958. Prior to Oct. 1, 1939, at site, 125 ft downstream at datum 1.00 ft higher. Oct. 1, 1939, to Sept. 30, 1969, at present site and datum. Oct. 1, 1969, to July 10, 1987, at site 100 ft downstream at same datum.

REMARKS.--Records good except for periods of estimated daily discharges, 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 upstream.

AVERAGE DISCHARGE.--49 years, 265 ft^3/s, 192,000 acre-ft/yr.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	0100	*963	*3.37				

Minimum daily, 18 ft^3/s, Sept. 15-17, 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	61	e40	55	41	56	69	410	362	e109	38	22
2	92	59	e44	54	40	56	79	323	366	e100	36	25
3	88	59	e46	49	41	56	87	315	362	e95	36	28
4	87	59	e47	e49	45	58	81	391	351	e90	37	25
5	86	60	47	e49	52	72	82	476	370	e84	36	24
6	87	57	47	e48	49	77	86	528	374	e80	35	24
7	88	51	47	e49	44	74	93	526	405	e75	42	22
8	88	52	43	e49	44	70	108	519	381	e72	43	23
9	88	54	e42	e45	45	64	128	544	e350	e70	44	23
10	87	53	e42	e43	49	61	161	587	e300	60	42	23
11	87	53	e41	e41	53	60	181	620	e280	62	42	23
12	84	53	e43	e40	50	64	186	649	e260	72	40	24
13	82	52	e45	e40	83	65	199	593	e250	77	39	24
14	80	52	e46	e40	63	63	257	599	e250	66	38	25
15	79	49	e49	e40	57	61	279	665	e240	66	39	18
16	77	51	e47	e40	52	61	304	755	e205	66	38	18
17	75	49	e46	e40	53	63	346	749	e180	52	36	18
18	74	51	e46	e40	52	66	349	547	e170	49	35	19
19	74	51	e47	e40	52	59	252	491	e160	44	30	19
20	73	48	e48	e40	54	58	217	437	e160	45	27	19
21	72	48	52	e41	54	59	239	370	e150	52	26	19
22	71	43	e52	e41	55	56	309	320	e145	55	25	19
23	71	47	e52	e42	53	58	348	325	e135	52	24	19
24	70	44	51	e43	58	60	375	306	e130	49	25	19
25	69	43	e52	e44	54	59	420	278	e125	48	24	19
26	68	40	e54	44	58	57	484	262	e125	47	25	19
27	67	45	56	45	64	57	519	241	e130	45	30	19
28	65	42	57	43	58	56	553	243	e125	45	26	18
29	65	41	e56	42	---	56	603	285	e120	e43	24	18
30	64	40	e56	41	---	58	625	299	e115	40	23	18
31	63	---	e55	43	---	63	---	348	---	39	23	---
TOTAL	2411	1507	1496	1360	1473	1903	8019	14001	7076	1949	1028	633
MEAN	77.8	50.2	48.3	43.9	52.6	61.4	267	452	236	62.9	33.2	21.1
MAX	92	61	57	55	83	77	625	755	405	109	44	28
MIN	63	40	40	40	40	56	69	241	115	39	23	18
AC-FT	4780	2990	2970	2700	2920	3770	15910	27770	14040	3870	2040	1260

CAL YR 1986 TOTAL 147144 MEAN 403 MAX 2700 MIN 40 AC-FT 291900
WTR YR 1987 TOTAL 42856 MEAN 117 MAX 755 MIN 18 AC-FT 85000

e Estimated.

WALKER LAKE BASIN

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW1/4NE1/4 sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16060302, in Toiyabe National Forest, on left bank 0.2 mi downstream from Rock Creek, and 5 mi southeast of Coleville.

DRAINAGE AREA.--271 mi^2, revised.

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

REMARKS.--Records good except for estimated daily discharges, 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 upstream.

AVERAGE DISCHARGE.--58 years (1902-7, 1909-10, 1915-37, 1957-87), 280 ft^3/s, 202,900 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	0500	*1,020	*2.73				

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	e83	e56	62	62	63	84	426	412	123	55	32
2	112	e80	65	57	61	65	94	342	418	118	53	35
3	106	e80	67	55	60	65	104	327	418	117	53	39
4	101	e82	67	56	60	69	97	392	410	108	54	37
5	98	e80	65	e54	62	80	97	470	414	103	54	37
6	100	e75	68	e54	62	87	101	527	422	95	52	36
7	102	e70	66	e54	62	86	112	530	475	92	55	35
8	100	e71	58	53	62	83	130	524	416	87	55	35
9	103	e72	e55	e52	62	77	149	551	381	86	56	34
10	104	e74	e54	e50	65	75	180	593	345	84	54	34
11	99	e72	e54	e50	70	73	202	614	332	81	53	33
12	e96	e71	e56	e50	68	77	211	679	313	80	52	34
13	e95	e71	e56	e50	101	80	219	621	297	89	51	34
14	e94	e70	e58	e50	85	77	263	621	295	87	49	35
15	e93	e66	59	e50	76	73	282	668	290	83	48	35
16	e91	e69	58	e50	68	74	316	812	237	85	48	34
17	e90	e68	e56	e50	69	74	358	858	208	80	46	34
18	e90	e68	e56	e50	67	80	369	619	195	76	45	33
19	e92	e68	e56	e50	63	71	275	552	188	70	41	32
20	e90	e66	e56	e50	65	69	240	491	184	67	38	31
21	e90	e66	58	e52	64	72	256	425	175	66	37	31
22	e90	e64	e58	e54	65	69	313	373	167	66	36	31
23	e90	e64	e58	58	61	73	351	371	157	68	35	31
24	e90	e63	59	60	66	76	378	363	150	67	35	31
25	e90	66	59	62	65	73	425	334	143	67	33	31
26	e90	58	60	63	64	72	503	319	144	66	33	32
27	e91	65	61	66	69	72	528	305	143	64	34	32
28	e92	61	58	66	68	70	596	298	143	63	34	30
29	e90	62	57	63	---	70	630	330	135	61	33	29
30	e88	56	56	64	---	73	640	351	123	58	33	29
31	e86	---	60	62	---	78	---	390	---	57	33	---
TOTAL	2950	2081	1830	1717	1872	2296	8503	15076	8130	2514	1388	996
MEAN	95.2	69.4	59.0	55.4	66.9	74.1	283	486	271	81.1	44.8	33.2
MAX	112	83	68	66	101	87	640	858	475	123	56	39
MIN	86	56	54	50	60	63	84	298	123	57	33	29
AC-FT	5850	4130	3630	3410	3710	4550	16870	29900	16130	4990	2750	1980

CAL YR 1986 TOTAL 159990 MEAN 438 MAX 2780 MIN 54 AC-FT 317300
WTR YR 1987 TOTAL 49353 MEAN 135 MAX 858 MIN 29 AC-FT 97890

e Estimated.

WALKER LAKE BASIN

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW1/4NE1/4 sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050301, at outlet works of Topaz Lake on West Walker River, and 5.5 mi north of Topaz.

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

GAGE.--Water-stage recorder read once daily. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at datum 4.62 ft higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft, between elevations 4,967.68 ft (lowest practical elevation for diversion through tunnel) and 5,000.38 ft (3 ft below top of levee). Useable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker Irrigation District.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 41,980 acre-ft, Apr. 3, elevation, 4,992.33 ft. Minimum contents recorded, 1,950 acre-ft, Sept. 30, elevation, 4,968.95 ft.

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

4,968	490	4,985	28,310
4,970	3,580	4,990	37,360
4,975	11,520	4,995	47,540
4,980	19,760		

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19470	16400	21240	26120	31260	36610	41900	38620	39670	29230	15890	4970
2	19500	16590	21420	26290	31390	36860	41960	38150	39710	28690	15360	4750
3	19570	16700	21560	26410	31550	37110	41980	37550	39730	28270	14990	4520
4	19620	16870	21760	26710	31710	37300	41920	37130	39550	27730	14580	4160
5	19650	17070	21900	26860	31890	37490	41900	36820	39250	27330	14070	3970
6	19670	17230	22080	27020	32070	37690	41880	36670	39090	26970	13550	3740
7	19690	17380	22250	27230	32230	37920	41840	36480	39050	26590	12990	3570
8	19720	17570	22420	27380	32410	38130	41780	36330	38920	26190	12470	3430
9	19700	17720	22560	27490	32590	38330	41760	e36380	38740	25760	11870	3300
10	19540	17860	22710	27590	32750	38520	41740	36440	38660	25360	11450	3180
11	19330	18010	22860	27720	32950	38700	41680	36650	38480	24930	10970	3070
12	19130	18220	23050	27840	33130	38880	41680	36800	38230	24470	10480	2960
13	18950	18380	23220	27940	33420	39090	41680	37070	37900	24090	10000	2880
14	18770	18530	23390	28080	33830	39330	41630	37240	37460	23700	9600	2790
15	18580	18680	23550	28220	34010	39490	41650	37420	37010	23190	9280	2730
16	18400	18850	23700	28360	34210	39650	41570	37840	36600	22640	8980	2670
17	18200	19030	23840	28430	34400	39830	41470	38470	36140	22130	8670	2620
18	18000	19220	23990	28600	34580	39970	41310	39070	35650	e21720	8370	2560
19	17810	19370	24150	28730	34730	40100	41250	39330	35210	e21300	8040	2500
20	17650	19570	24320	28870	34910	40220	41010	39550	34860	e20890	7730	2450
21	17500	19720	24490	28990	35100	40420	40710	39750	34450	e20480	7430	2390
22	17350	19890	24640	29130	35320	40570	40400	39870	34120	20070	7150	2330
23	17200	20040	24800	29320	35480	40730	40100	39890	33740	19740	6890	2280
24	17080	20210	24970	29480	35670	40930	39790	39910	33340	19420	6630	2230
25	16970	20360	25110	29720	35880	41110	39550	39830	32870	19050	6390	2170
26	16850	20530	25330	29940	36050	41310	39350	39710	32320	18670	6180	2120
27	16740	20700	25420	30130	36220	41490	39330	39630	31710	18300	5980	2060
28	16620	20850	25570	30380	36420	41700	39110	39570	31070	17900	5760	2020
29	16500	21000	25670	30640	---	41700	38900	39530	30450	17420	5540	1980
30	16420	21140	25840	30820	---	41780	38780	39570	29810	16880	5300	1950
31	16340	---	25970	31030	---	41860	---	39610	---	16390	5160	---
MAX	19700	21100	26000	31000	36400	41900	42000	39900	39700	29200	15900	4970
MIN	16300	16400	21200	26100	31300	36600	38800	36300	29800	16400	5160	1950
#	4977.95	4980.82	4983.65	4986.55	4989.51	4992.27	4990.73	4991.15	4985.86	4977.98	4971.01	4968.95
##	-3200	+4800	+4830	+5060	+5390	+5440	-3080	+830	-9800	-13420	-11230	-3210

CAL YR 1986 MAX 60300 MIN 16300 ## +5660
WTR YR 1987 MAX 42000 MIN 1950 ## -17590

\# Elevation, in feet NGVD, at end of month.
Change in contents, in acre-feet.
e Estimated.

WALKER LAKE BASIN

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

LOCATION.--Lat 38°43'40", long 119°25'40", in NE1/4SE1/4 sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft upstream from Hoye Bridge, 2 mi upstream from head of Saroni Canal, and 4 mi southwest of Wellington.

DRAINAGE AREA.--497 mi^2.

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

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

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

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake (station 10297000), since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres above station. Records include releases from Topaz Lake and all return flow from Antelope Valley.

AVERAGE DISCHARGE.--40 years (1920-23, 1925-32, 1957-87), 252 ft^3/s, 182,600 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 534 ft^3/s, May 1, gage height, 4.50 ft; minimum daily, 14 ft^3/s, Feb. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	39	21	24	18	20	68	523	193	372	229	109
2	139	26	20	24	17	21	68	485	222	312	215	119
3	140	23	22	25	17	22	77	477	286	281	200	116
4	136	21	22	27	16	21	89	429	344	274	221	110
5	135	20	22	27	16	20	91	426	349	266	247	104
6	134	21	22	27	15	21	92	481	355	246	242	99
7	133	21	21	28	15	22	92	500	358	243	244	93
8	135	22	20	28	15	22	85	472	356	253	238	86
9	183	21	19	25	14	22	82	438	323	243	233	74
10	205	21	19	26	14	21	86	442	311	220	228	70
11	206	22	19	26	15	21	94	466	329	225	223	64
12	205	22	20	26	15	20	97	501	327	223	210	59
13	206	22	20	27	17	23	115	499	330	225	182	57
14	207	22	22	26	18	22	135	483	348	264	143	54
15	206	22	22	27	19	22	164	457	339	272	147	52
16	203	23	22	26	19	22	223	444	317	263	144	50
17	201	22	22	28	21	21	244	454	334	239	144	50
18	201	22	21	29	20	20	256	440	328	217	148	48
19	200	22	22	28	19	21	264	402	279	215	154	48
20	193	22	24	27	18	21	283	377	257	212	151	46
21	186	21	24	27	19	22	268	332	243	204	144	44
22	186	22	24	28	19	21	292	290	249	176	132	44
23	179	22	25	26	19	22	328	275	274	186	127	42
24	171	22	25	26	19	23	363	270	283	183	123	41
25	169	23	24	22	19	23	384	269	324	180	116	39
26	168	22	24	21	19	23	388	253	347	191	113	39
27	167	21	23	21	19	24	440	203	353	204	110	37
28	167	21	24	22	19	41	523	177	365	220	110	37
29	165	21	24	21	---	68	526	166	380	245	110	37
30	165	21	24	20	---	69	525	163	e394	247	107	36
31	160	---	24	19	---	69	---	169	---	243	105	---
TOTAL	5390	672	687	784	490	830	6742	11763	9497	7344	5240	1904
MEAN	174	22.4	22.2	25.3	17.5	26.8	225	379	317	237	169	63.5
MAX	207	39	25	29	21	69	526	523	394	372	247	119
MIN	133	20	19	19	14	20	68	163	193	176	105	36
AC-FT	10690	1330	1360	1560	972	1650	13370	23330	18840	14570	10390	3780

CAL YR 1986 TOTAL 153639 MEAN 421 MAX 2040 MIN 19 AC-FT 304700
WTR YR 1987 TOTAL 51343 MEAN 141 MAX 526 MIN 14 AC-FT 101800

e Estimated.

WALKER LAKE BASIN

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE1/4SW1/4 sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi upstream from Wilson Canyon, and 3 mi southeast of Hudson.

DRAINAGE AREA.--964 mi^2.

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

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

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake (station 10297000) since Jan. 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 435 ft^3/s, May 9, gage height, 2.39 ft; minimum daily during period of operation, 37 ft^3/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	74	354	147	223	133	61
2	---	---	---	---	---	---	77	317	187	201	128	60
3	---	---	---	---	---	---	75	319	217	172	104	66
4	---	---	---	---	---	---	88	277	246	157	110	66
5	---	---	---	---	---	---	92	254	245	152	129	74
6	---	---	---	---	---	---	90	287	258	140	118	80
7	---	---	---	---	---	---	95	305	264	134	117	77
8	---	---	---	---	---	---	96	297	267	132	129	77
9	---	---	---	---	---	---	88	309	242	124	139	79
10	---	---	---	---	---	---	84	285	231	109	137	80
11	---	---	---	---	---	---	87	329	253	108	137	73
12	---	---	---	---	---	---	86	373	247	92	128	62
13	---	---	---	---	---	---	90	364	243	89	104	58
14	---	---	---	---	---	---	118	357	251	101	78	57
15	---	---	---	---	---	---	131	364	259	105	66	57
16	---	---	---	---	---	---	182	353	233	107	53	58
17	---	---	---	---	---	---	195	374	237	100	48	56
18	---	---	---	---	---	---	209	376	221	95	52	54
19	---	---	---	---	---	---	218	317	193	102	69	53
20	---	---	---	---	---	---	223	305	155	105	69	53
21	---	---	---	---	---	---	189	268	137	114	74	52
22	---	---	---	---	---	---	188	225	125	100	73	50
23	---	---	---	---	---	---	203	213	124	98	75	48
24	---	---	---	---	---	---	228	213	129	93	72	42
25	---	---	---	---	---	---	245	218	156	92	66	43
26	---	---	---	---	---	---	240	193	169	93	68	42
27	---	---	---	---	---	---	258	126	175	107	78	40
28	---	---	---	---	---	---	346	117	187	100	85	40
29	---	---	---	---	---	---	366	123	209	121	85	43
30	---	---	---	---	---	---	360	133	204	141	74	37
31	---	---	---	---	---	---	---	138	---	141	68	---
TOTAL	---	---	---	---	---	---	5021	8483	6211	3748	2866	1738
MEAN	---	---	---	---	---	---	167	274	207	121	92.5	57.9
MAX	---	---	---	---	---	---	366	376	267	223	139	80
MIN	---	---	---	---	---	---	74	117	124	89	48	37
AC-FT	---	---	---	---	---	---	9960	16830	12320	7430	5680	3450

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE1/4NW1/4 sec.20, T.15 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on left bank 600 ft upstream from timber bridge at Julian Ranch, 1.8 mi downstream from Southern Pacific Railroad bridge, 4.6 mi east of Wabuska, and 16 mi upstream from Weber Dam.

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

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--No estimated daily discharges. Records fair. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Reservoir (station 10297000), combined capacity, 101,900 acre-ft.

AVERAGE DISCHARGE.--62 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-87), 176 ft^3/s, 127,500 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft^3/s, Mar. 5, gage height, 5.52 ft; minimum daily, 20 ft^3/s, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	214	114	107	102	99	82	92	75	61	31	41
2	266	256	107	108	98	101	89	89	54	39	27	26
3	227	166	106	106	97	121	78	91	61	40	26	25
4	204	142	102	117	93	253	70	95	61	60	28	57
5	202	130	108	119	90	339	58	120	51	51	26	53
6	198	125	109	110	84	313	61	98	61	53	29	48
7	183	121	110	114	89	302	64	67	87	49	30	49
8	161	121	112	105	86	169	66	64	107	37	35	47
9	96	120	107	75	87	113	61	76	111	39	37	53
10	91	121	99	72	86	104	46	103	87	37	37	70
11	123	124	99	69	86	105	35	71	73	38	34	69
12	133	116	102	60	87	108	35	71	74	66	41	63
13	124	112	104	e59	91	112	36	110	62	58	63	43
14	113	121	108	e58	97	112	31	85	55	38	47	38
15	118	122	108	e58	99	106	32	93	64	35	42	33
16	133	120	105	e58	96	103	37	116	68	35	57	29
17	168	122	105	e58	90	103	76	109	74	29	50	31
18	153	117	106	e58	91	97	79	132	49	27	40	34
19	177	113	108	e60	90	84	94	164	49	26	38	28
20	174	118	113	e64	88	78	106	171	71	28	46	25
21	178	118	114	e72	86	79	83	169	46	36	55	24
22	196	113	109	e82	87	81	55	143	41	52	57	23
23	176	111	110	e95	91	94	49	125	41	55	63	22
24	184	112	106	e110	107	82	49	164	39	46	64	21
25	179	124	104	122	106	92	82	155	33	53	76	21
26	192	120	101	127	105	101	99	172	32	56	66	21
27	190	119	103	128	106	79	88	166	39	51	42	21
28	199	121	100	133	102	87	83	117	47	43	35	21
29	164	117	98	121	---	73	99	111	51	36	37	20
30	145	113	95	117	---	74	98	101	71	26	49	23
31	157	---	100	109	---	74	---	84	---	27	45	---
TOTAL	5262	3869	3272	2851	2617	3838	2021	3524	1834	1327	1353	1079
MEAN	170	129	106	92.0	93.5	124	67.4	114	61.1	42.8	43.6	36.0
MAX	266	256	114	133	107	339	106	172	111	66	76	70
MIN	91	111	95	58	84	73	31	64	32	26	26	20
AC-FT	10440	7670	6490	5650	5190	7610	4010	6990	3640	2630	2680	2140

CAL YR 1986 TOTAL 156697 MEAN 429 MAX 2740 MIN 74 AC-FT 310800
WTR YR 1987 TOTAL 32847 MEAN 90.0 MAX 339 MIN 20 AC-FT 65150

e Estimated.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Inflow from two drainage ditches enters stream less than a mile above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous either chemically or thermally. This doubtless was responsible for some of the variation shown by daily specific-conductance and temperature data during water years 1969-76. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Pesticide analyses prior to October 1981 from U.S. Environmental Protection Agency.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
17...	1115	123	525	8.40	15.0	7.0	4.2	11.5	112	<4	K44	150
JAN												
13...	1230	109	651	8.30	1.5	0.5	19	11.4	92	<4	92	190
MAR												
03...	1300	122	519	8.40	19.0	12.0	30	10.1	110	K5	--	140
MAY												
14...	1100	81	457	8.20	29.0	25.0	13	7.1	102	160	550	110
JUN												
24...	1330	39	522	8.50	34.5	27.5	6.8	9.7	145	K40	K30	140
AUG												
11...	1415	36	414	8.60	33.5	29.5	4.3	8.0	124	150	42	110

K: NON-IDEAL COLONY COUNT.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L 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 17...	45	10	57	2	4.7	226	3	185	69	20	0.70	25
JAN 13...	56	13	73	2	5.4	285	--	234	85	25	0.80	38
MAR 03...	42	9.6	58	2	4.8	--	--	164	71	20	0.70	27
MAY 14...	32	7.3	50	2	5.6	188	--	154	52	18	0.80	19
JUN 24...	39	9.2	54	2	6.5	191	8	170	64	18	0.70	23
AUG 11...	32	7.4	42	2	6.0	154	9	141	43	12	0.60	21

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 AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 17...	335	340	0.46	<0.010	0.200	0.030	0.040	0.57	0.60	0.070	0.060	0.060
JAN 13...	433	440	0.59	<0.010	--	0.170	0.130	0.53	0.70	0.190	0.110	0.100
MAR 03...	328	330	0.45	<0.010	0.180	0.040	0.020	1.4	1.4	0.220	0.050	0.060
MAY 14...	287	280	0.39	<0.010	0.140	0.090	0.050	0.81	0.90	0.150	0.110	0.110
JUN 24...	325	320	0.44	<0.010	<0.100	0.020	0.030	0.88	0.90	0.410	0.120	0.110
AUG 11...	244	250	0.33	<0.010	<0.100	0.010	0.040	0.69	0.70	0.140	0.110	0.090

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 17...	10	14	51	<0.5	<1	2	<3	6	13	7	41	10
JAN 13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	30	14	56	<0.5	<1	<1	<3	3	27	<5	41	18
MAY 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	<10	21	45	<0.5	<1	<1	<3	2	8	<5	41	9
AUG 11...	20	20	33	0.7	<1	<1	<3	2	15	<5	22	16

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 17...	<0.1	<10	1	<1	<1	400	<6	<3	59	20	--
JAN 13...	--	--	--	--	--	--	--	--	154	45	47
MAR 03...	<0.1	20	4	<1	<1	380	<6	4	142	47	--
MAY 14...	--	--	--	--	--	--	--	--	243	53	92
JUN 24...	<0.1	10	2	<1	<1	380	8	4	20	2.1	--
AUG 11...	0.2	20	<1	<1	<1	310	6	5	30	2.9	58

CARSON RIVER BASIN

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

LOCATION.--Lat 38°42'50", long 119°45'50", in SW1/4SE1/4 sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank 0.5 mi downstream from Markleeville Creek, and 1.5 mi north-northeast of Markleeville.

DRAINAGE AREA.--276 mi^2.

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft.

AVERAGE DISCHARGE.--27 years, 376 ft^3/s, 272,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s Jan. 31, 1963, gage height, 10.21 ft, present datum; minimum, 9.5 ft^3/s Nov. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2100	*1,270	*4.16				

Minimum daily, 11 ft^3/s, Sept. 6, 10-13, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	80	30	e58	e64	101	178	563	300	125	25	30
2	144	75	45	e58	e64	110	234	468	300	121	26	30
3	126	78	68	e59	e63	110	279	477	288	113	45	31
4	123	82	71	e55	e59	118	217	534	282	109	53	34
5	124	83	70	e64	e58	169	207	567	278	102	53	30
6	127	81	72	e63	e62	182	230	580	290	92	49	15
7	123	63	66	e62	e68	164	291	554	342	84	52	13
8	118	68	44	e60	e65	161	342	578	301	95	53	13
9	115	71	56	e59	e58	149	383	597	292	88	54	13
10	112	76	52	e58	e77	140	424	658	261	80	52	12
11	109	75	56	e57	124	133	439	859	239	79	51	12
12	101	74	63	e56	120	143	433	853	217	79	56	12
13	102	77	66	e56	418	165	431	700	204	95	69	12
14	101	77	66	e55	186	157	501	671	216	83	65	14
15	99	68	68	e54	154	139	539	815	194	105	65	17
16	97	76	e54	e54	127	143	574	877	171	137	57	15
17	94	75	e54	e54	121	136	650	724	156	110	55	16
18	92	73	e54	e55	114	157	593	618	146	95	53	17
19	99	74	e55	e55	111	133	431	541	132	94	40	16
20	94	72	e57	e55	111	123	404	501	125	87	41	16
21	93	74	62	e56	99	131	444	467	117	81	57	15
22	92	59	73	e56	107	118	526	432	112	77	56	13
23	92	69	66	e57	105	126	561	422	108	79	53	12
24	91	63	58	e57	118	128	594	395	108	88	50	18
25	87	65	e59	e58	115	123	641	360	123	85	38	19
26	86	52	e60	e59	110	124	686	341	125	81	39	18
27	86	68	e62	e59	122	127	711	312	126	75	50	19
28	84	62	65	e60	118	122	764	300	129	62	38	20
29	86	62	63	e61	---	123	817	295	125	59	29	19
30	85	44	62	e62	---	132	786	301	117	57	29	20
31	86	---	58	e64	---	153	---	302	---	51	28	---
TOTAL	3207	2116	1855	1796	3118	4240	14310	16662	5924	2768	1481	541
MEAN	103	70.5	59.8	57.9	111	137	477	537	197	89.3	47.8	18.0
MAX	144	83	73	64	418	182	817	877	342	137	69	34
MIN	84	44	30	54	58	101	178	295	108	51	25	12
AC-FT	6360	4200	3680	3560	6180	8410	28380	33050	11750	5490	2940	1070

CAL YR 1986 TOTAL 210419 MEAN 576 MAX 5120 MIN 30 AC-FT 417400
WTR YR 1987 TOTAL 58018 MEAN 159 MAX 877 MIN 12 AC-FT 115100

e Estimated.

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW1/4NE1/4 sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank 0.1 mi downstream from Horseshoe Bend, 2 mi east of Mud Lake Reservoir, 4.5 mi downstream from Bryant Creek, and 7 mi southeast of Gardnerville.

DRAINAGE AREA.--356 mi^2.

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

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft, National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft.

AVERAGE DISCHARGE.--61 years (1890-93, 1908-10, 1925-28, 1935-37, 1939-87), 393 ft^3/s, 284,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft^3/s, Dec. 23, 1955, gage height, 11.88 ft, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurements at gage heights, 9.66 ft and 11.88 ft; minimum observed, 7.8 ft^3/s, Nov. 20, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2400	*1,260	*3.07				

Minimum daily, 28 ft^3/s, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	97	86	87	89	95	147	599	281	118	44	41
2	154	93	102	80	87	100	180	482	281	114	38	43
3	139	91	99	83	86	99	228	471	275	106	47	42
4	134	96	95	77	82	104	190	536	269	103	58	44
5	133	97	95	84	81	121	179	573	266	98	60	46
6	135	97	96	82	84	156	186	603	266	90	56	35
7	134	87	95	88	89	139	229	573	326	84	57	31
8	130	86	76	68	89	133	277	581	285	91	59	30
9	127	86	71	e66	89	129	307	611	284	89	59	30
10	125	92	87	e65	92	122	362	653	250	82	57	29
11	122	92	92	e66	102	118	386	853	229	81	54	29
12	119	93	95	e68	106	122	393	918	212	80	53	30
13	114	92	93	e70	321	142	366	741	194	90	64	29
14	113	95	92	e73	184	136	455	674	203	84	63	28
15	112	90	80	e75	138	125	503	779	183	82	63	32
16	108	93	82	e72	113	126	536	951	170	125	59	32
17	106	96	89	e73	108	120	618	758	153	104	56	32
18	105	93	95	e74	103	131	612	645	145	91	54	34
19	107	94	91	e74	94	120	419	564	135	90	48	32
20	107	94	85	e75	102	107	375	512	126	85	44	32
21	106	94	81	e75	88	121	405	483	119	81	52	31
22	104	88	78	e78	93	108	501	428	115	77	55	31
23	103	89	87	e84	100	117	555	410	110	75	53	29
24	103	88	78	e87	94	119	587	384	108	86	53	32
25	100	89	74	e93	96	112	643	347	115	83	50	34
26	98	80	79	e98	88	115	711	327	119	83	49	32
27	98	85	82	100	82	114	716	307	121	78	56	33
28	98	91	69	105	94	111	800	285	122	69	52	35
29	98	90	79	89	---	111	837	280	124	63	44	35
30	98	80	65	93	---	116	843	282	124	62	40	34
31	99	---	83	87	---	129	---	283	---	61	41	---
TOTAL	3570	2728	2651	2489	2974	3718	13546	16893	5710	2705	1638	1007
MEAN	115	90.9	85.5	80.3	106	120	452	545	190	87.3	52.8	33.6
MAX	154	97	102	105	321	156	843	951	326	125	64	46
MIN	98	80	65	65	81	95	147	280	108	61	38	28
AC-FT	7080	5410	5260	4940	5900	7370	26870	33510	11330	5370	3250	2000

CAL YR 1986 TOTAL 219440 MEAN 601 MAX 4570 MIN 65 AC-FT 435300
WTR YR 1987 TOTAL 59629 MEAN 163 MAX 951 MIN 28 AC-FT 118300

e Estimated.

CARSON RIVER BASIN

10309025 INDIAN CREEK NEAR WOODFORDS, CA

LOCATION.--Lat 38°44'54", long 119°48'54", in NE1/4NE1/4 sec.6, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank 2 mi south of Woodfords.

DRAINAGE AREA.--1.7 mi^2, approximately.

PERIOD OF RECORD.--May to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 5,880 ft, from topographic map.

REMARKS.--Records good. Irrigation above the gage can cause considerable fluctuations. Periodic diversions from Millberry Canyon.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during period, May to September, 0.56 ft^3/s, May 25, gage-height, 1.38 ft; minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.05	.00	.00	.00
2	---	---	---	---	---	---	---	---	.05	.00	.00	.00
3	---	---	---	---	---	---	---	---	.05	.00	.00	.00
4	---	---	---	---	---	---	---	---	.05	.00	.00	.00
5	---	---	---	---	---	---	---	---	.04	.00	.00	.00
6	---	---	---	---	---	---	---	---	.06	.00	.00	.00
7	---	---	---	---	---	---	---	---	.06	.00	.00	.00
8	---	---	---	---	---	---	---	---	.06	.00	.00	.00
9	---	---	---	---	---	---	---	---	.05	.00	.00	.00
10	---	---	---	---	---	---	---	---	.04	.00	.00	.00
11	---	---	---	---	---	---	---	---	.03	.00	.00	.00
12	---	---	---	---	---	---	---	---	.03	.00	.00	.00
13	---	---	---	---	---	---	---	---	.02	.00	.00	.00
14	---	---	---	---	---	---	---	---	.03	.00	.00	.00
15	---	---	---	---	---	---	---	---	.03	.00	.00	.00
16	---	---	---	---	---	---	---	---	.02	.00	.00	.00
17	---	---	---	---	---	---	---	---	.04	.00	.00	.00
18	---	---	---	---	---	---	---	---	.09	.00	.00	.00
19	---	---	---	---	---	---	---	---	.11	.00	.00	.00
20	---	---	---	---	---	---	---	---	.09	.00	.00	.00
21	---	---	---	---	---	---	---	.10	.02	.00	.00	.00
22	---	---	---	---	---	---	---	.09	.01	.00	.00	.00
23	---	---	---	---	---	---	---	.09	.01	.00	.00	.00
24	---	---	---	---	---	---	---	.12	.0	.00	.00	.00
25	---	---	---	---	---	---	---	.36	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.26	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.35	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.22	.0	.00	.00	.00
29	---	---	---	---	---	---	---	.08	.00	.00	.00	.00
30	---	---	---	---	---	---	---	.07	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.06	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	1.04	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	---	---	.035	.00	.00	.00
MAX	---	---	---	---	---	---	---	---	.11	.00	.00	.00
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	2.1	.0	.0	.0

CARSON RIVER BASIN

10309030 INDIAN CREEK AT DIAMOND VALLEY NEAR PAYNESVILLE, CA

LOCATION.--Lat 38°46'37", long 119°45'53", in NW1/4NE1/4 sec.32, T.11 N., R.20 E., Alpine County, Calif., Hydrologic Unit 16050201, on left bank 1 mi southwest of Paynesville.

DRAINAGE AREA.--16.2 mi^2, approximately.

PERIOD OF RECORD.--May 22 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, May to September, 40 ft^3/s, June 14, gage height, 3.17 ft; minimum daily, 2.2 ft^3/s, Sept. 19, 22-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	25	4.2	3.6	2.7
2	---	---	---	---	---	---	---	---	6.4	3.8	3.7	2.7
3	---	---	---	---	---	---	---	---	6.0	3.5	3.6	2.6
4	---	---	---	---	---	---	---	---	5.6	3.4	3.7	2.6
5	---	---	---	---	---	---	---	---	5.2	3.3	3.6	2.6
6	---	---	---	---	---	---	---	---	5.4	3.3	3.5	2.8
7	---	---	---	---	---	---	---	---	5.4	3.3	3.5	3.0
8	---	---	---	---	---	---	---	---	5.4	3.3	3.6	2.6
9	---	---	---	---	---	---	---	---	5.8	3.3	3.8	2.5
10	---	---	---	---	---	---	---	---	6.1	3.3	3.9	2.5
11	---	---	---	---	---	---	---	---	5.6	4.2	3.5	2.5
12	---	---	---	---	---	---	---	---	8.8	5.0	3.3	2.4
13	---	---	---	---	---	---	---	---	18	4.4	3.3	2.4
14	---	---	---	---	---	---	---	---	17	3.6	3.3	2.3
15	---	---	---	---	---	---	---	---	6.2	3.6	3.3	2.3
16	---	---	---	---	---	---	---	---	4.4	3.5	3.4	2.3
17	---	---	---	---	---	---	---	---	4.0	3.5	3.4	2.3
18	---	---	---	---	---	---	---	---	3.8	3.6	3.3	2.3
19	---	---	---	---	---	---	---	---	3.6	3.7	3.2	2.2
20	---	---	---	---	---	---	---	---	3.4	3.6	3.0	2.3
21	---	---	---	---	---	---	---	---	3.2	3.6	3.0	2.4
22	---	---	---	---	---	---	---	.10	3.2	3.5	3.0	2.2
23	---	---	---	---	---	---	---	.12	3.1	3.4	3.1	2.2
24	---	---	---	---	---	---	---	8.4	3.0	3.3	3.2	2.2
25	---	---	---	---	---	---	---	4.9	2.9	3.9	2.9	2.2
26	---	---	---	---	---	---	---	5.4	3.8	4.3	3.0	2.2
27	---	---	---	---	---	---	---	5.9	6.2	4.1	3.0	2.2
28	---	---	---	---	---	---	---	5.7	9.2	3.4	2.8	2.2
29	---	---	---	---	---	---	---	16	5.4	3.4	2.8	2.3
30	---	---	---	---	---	---	---	22	4.5	3.4	2.8	2.3
31	---	---	---	---	---	---	---	31	---	3.4	2.8	---
TOTAL	---	---	---	---	---	---	---	---	195.6	113.1	101.9	72.3
MEAN	---	---	---	---	---	---	---	---	6.52	3.65	3.29	2.41
MAX	---	---	---	---	---	---	---	---	25	5.0	3.9	3.0
MIN	---	---	---	---	---	---	---	---	2.9	3.3	2.8	2.2
AC-FT	---	---	---	---	---	---	---	---	388	224	202	143

CARSON RIVER BASIN

10309050 PINE NUT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°51'34", long 119°34'02", in NE1/2SE1/4 sec.36, T.11 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on right bank 11.5 mi southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi^2.

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

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

REMARKS.--Records fair except for discharges above 10 ft^3/s, which are poor.

AVERAGE DISCHARGE.--7 years, 1.81 ft^3/s, 1,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165 ft^3/s, Mar. 8, 1986, from rating curve extended above 8.0 ft^3/s, gage height, 3.70 ft, maximum gage height, 3.97 ft, Feb. 19, 1986; minimum, 0.02 ft^3/s, July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.1 ft^3/s, Feb. 10, gage height, 3.36 ft; maximum gage height, 3.90 ft, Nov. 5, 6, backwater from debris; minimum, 0.16 ft^3/s, Sept. 10, 13, 20-23, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	1.2	1.7	2.5	2.2	2.0	1.2	1.3	.91	.59	.24	.24
2	.76	1.3	1.8	2.5	2.2	2.0	1.2	1.2	1.0	.53	.23	.24
3	.75	1.3	1.9	e2.3	2.2	2.0	1.2	1.1	.97	.53	.24	.25
4	.75	1.3	1.9	e2.2	2.1	2.0	1.2	1.0	.88	.49	.25	.27
5	.75	1.4	2.0	e2.1	2.1	1.9	1.1	.97	.93	.42	.25	.29
6	.76	1.3	2.1	e1.9	2.2	2.0	1.1	1.0	1.1	.40	.25	.28
7	.77	1.1	2.1	e1.7	2.2	2.0	1.1	1.0	1.1	.36	.24	.31
8	.77	1.2	1.8	e1.6	2.2	2.0	1.0	1.0	.93	.37	.24	.30
9	.78	1.2	1.8	e1.5	2.3	1.9	1.0	1.1	.88	.36	.24	.30
10	.81	1.2	1.9	e1.3	2.1	1.9	1.0	1.1	.88	.34	.24	.29
11	.86	1.2	2.1	e1.6	1.5	1.8	1.1	1.1	.84	.33	.25	.29
12	.89	1.2	2.2	e1.8	1.5	1.7	1.2	1.0	.80	.31	.24	.30
13	.91	1.2	2.2	e1.8	1.9	1.8	1.2	.91	.80	.28	.24	.30
14	.93	1.3	2.3	e1.8	1.6	1.8	1.2	.93	.82	.26	.24	.29
15	.95	1.3	2.2	e1.2	1.8	1.7	1.1	.98	.81	.33	.25	.29
16	.98	1.4	2.2	e1.3	1.7	1.8	1.1	.97	.78	.33	.24	.32
17	1.0	1.4	2.2	e1.4	e1.6	1.7	1.1	1.0	.74	.29	.24	.35
18	1.1	1.4	2.4	e1.4	e1.5	1.7	1.2	1.0	.72	.38	.24	.32
19	1.1	1.4	2.4	e1.4	e1.4	1.6	1.1	1.2	.70	.40	.23	.29
20	1.1	1.5	2.5	e1.5	e1.5	1.5	1.2	1.6	.66	.39	.24	.27
21	1.1	1.5	2.4	e1.7	e1.6	1.7	1.2	1.4	.68	.38	.25	.27
22	1.1	1.4	2.5	e1.9	e1.7	1.6	1.1	1.4	.71	.38	.25	.27
23	1.1	1.6	2.6	e2.1	e1.5	1.6	1.1	1.3	.64	.34	.23	.27
24	1.1	1.6	2.5	e2.2	e1.2	1.5	1.1	1.2	.58	.30	.24	.28
25	1.1	1.6	2.5	2.3	e1.3	1.4	1.2	1.2	.56	.29	.24	.27
26	1.1	1.5	2.6	2.3	e1.5	1.3	1.1	1.2	.52	.27	.22	.31
27	1.1	1.7	2.6	2.2	e1.7	1.2	1.1	1.1	.62	.24	.24	.31
28	1.2	1.7	2.5	2.2	e1.9	1.2	1.2	1.0	.63	.25	.25	.29
29	1.2	1.7	2.6	2.3	---	1.1	1.1	1.0	.58	.25	.25	.26
30	1.2	1.4	2.4	2.2	---	1.2	1.2	.98	.56	.26	.26	.26
31	1.2	---	2.6	2.2	---	1.2	---	.89	---	.24	.24	---
TOTAL	29.97	41.5	69.5	58.4	50.2	51.8	34.0	34.13	23.33	10.89	7.50	8.58
MEAN	.97	1.38	2.24	1.88	1.79	1.67	1.13	1.10	.78	.35	.24	.29
MAX	1.2	1.7	2.6	2.5	2.3	2.0	1.2	1.6	1.1	.59	.26	.35
MIN	.75	1.1	1.7	1.2	1.2	1.1	1.0	.89	.52	.24	.22	.24
AC-FT	59	82	138	116	100	103	67	68	46	22	15	17

CAL YR 1986 TOTAL 992.76 MEAN 2.72 MAX 60 MIN .37 AC-FT 1970
WTR YR 1987 TOTAL 419.80 MEAN 1.15 MAX 2.6 MIN .22 AC-FT 833

e Estimated.

CARSON RIVER BASIN

10309070 BUCKEYE CREEK NEAR MINDEN, NV

LOCATION.--Lat 38°58'59", long 119°34'23", in NE1/4NW1/4 sec.24, T.13 N., R.21 E. (revised), Douglas County, Hydrologic Unit 16050201, on left bank 10.5 mi east of Minden.

DRAINAGE AREA.--46.3 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions above station.

AVERAGE DISCHARGE.--7 years (1981-87), 1.02 ft^3/s, 739 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft^3/s, Aug. 29, 1984, gage height, 7.81 ft, from rating curve extended above 30 ft^3/s on basis of step-backwater method; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft^3/s, May 10, gage height, 3.97 ft; minimum daily, 0.01 ft^3/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.15	e.04	e.34	.23	e.20	.41	.09	.06	.07	.01	.02
2	.10	.15	e.06	e.32	.23	.23	.20	.10	.06	.07	.01	.02
3	.09	.13	e.08	e.28	.22	.30	.50	.08	.04	.07	.01	.01
4	.08	.11	.11	e.25	.23	1.7	.43	.06	.09	.07	.01	.02
5	.07	.10	.09	e.24	.30	2.0	.14	.05	.09	.07	.02	.02
6	.06	.10	.11	e.23	.42	1.4	.10	.06	.09	.08	.01	.01
7	.05	.14	.10	e.23	.30	.80	.07	.07	.09	.05	.01	.01
8	.05	.14	e.10	e.23	.34	.42	.07	.10	.09	.06	.01	.02
9	.03	.15	e.09	e.21	.44	.25	.06	.11	.09	.06	.01	.01
10	.04	.13	e.09	e.18	.49	.12	.06	1.1	.08	.06	.01	.01
11	.05	.11	e.10	e.20	1.0	.10	.07	.73	.08	.06	.01	.01
12	.08	.12	e.12	e.22	.65	.14	.07	.10	.07	.05	.01	.02
13	.07	.10	e.14	e.24	2.8	1.4	.07	.06	.07	.04	.02	.01
14	.07	.06	e.15	e.22	.96	.67	.06	.09	.09	.04	.02	.01
15	.07	.06	e.14	e.15	.46	.26	.05	.15	.08	.04	.03	.02
16	.08	.08	e.12	e.16	.16	.24	.04	.76	.08	.04	.03	.02
17	.07	.07	e.12	e.18	.15	.48	.04	1.8	.07	.05	.02	.03
18	.08	.07	e.14	e.19	.12	.72	e.04	1.0	.07	.10	.01	.04
19	.09	.08	e.16	e.20	e.10	.51	e.04	.45	.07	.10	.01	.04
20	.11	.09	e.19	e.20	e.10	.32	e.04	2.6	.07	.08	.01	.04
21	.12	.08	e.19	e.20	e.11	.30	e.04	1.2	.07	.08	.03	.05
22	.12	.10	e.19	e.21	e.11	.24	.05	.32	.07	.08	.02	.06
23	.12	.09	e.19	e.22	e.11	.79	.07	.94	.07	.07	.01	.06
24	.12	.08	e.21	e.23	e.10	1.1	.07	1.5	.06	.06	.03	.08
25	.10	.08	e.23	e.25	e.08	.62	.08	.41	.06	.05	.02	.09
26	.09	.13	e.25	e.30	e.06	1.5	.11	.78	.06	.04	.02	.09
27	.10	.07	e.27	.37	e.12	1.2	.13	.34	.07	.03	.02	.11
28	.11	.06	e.29	.27	e.16	.78	.13	.16	.07	.03	.02	.10
29	.12	.06	e.32	.27	---	.57	.12	.13	.07	.04	.02	.09
30	.12	e.06	e.34	.27	---	.59	.10	.11	.07	.04	.02	.08
31	.13	---	e.35	.31	---	.66	---	.06	---	.03	.02	---
TOTAL	2.69	2.95	5.08	7.37	10.55	20.61	3.46	15.51	2.20	1.81	0.51	1.20
MEAN	.087	.098	.16	.24	.38	.66	.12	.50	.073	.058	.016	.040
MAX	.13	.15	.35	.37	2.8	2.0	.50	2.6	.09	.10	.03	.11
MIN	.03	.06	.04	.15	.06	.10	.04	.05	.04	.03	.01	.01
AC-FT	5.3	5.9	10	15	21	41	6.9	31	4.4	3.6	1.0	2.4

CAL YR 1986 TOTAL 835.41 MEAN 2.29 MAX 86 MIN .00 AC-FT 1660
WTR YR 1987 TOTAL 73.94 MEAN .20 MAX 2.8 MIN .01 AC-FT 147

e Estimated.

CARSON RIVER BASIN

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW1/4SE1/4 sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi downstream from bridge on State Highway 88-89, 0.6 mi southwest of Woodfords, and 3.8 mi downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1938, nonrecording gage at about the same site at different datum. Oct. 1, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft downstream at datum 3.06 ft lower.

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

AVERAGE DISCHARGE.--56 years (1900-1907, 1938-87), 114 ft^3/s, 82,590 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft^3/s, Feb. 1, 1963, gage height, 9.0 ft, on basis of slope-area measurement of peak flow; minimum, about 5 ft^3/s, Dec. 28, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft, present datum, from floodmarks, discharge, 3,500 ft^3/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	0100	*330	*2.57				

Minimum daily, 11 ft^3/s, Aug. 6-9, 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	29	28	28	30	35	62	169	78	59	e40	16
2	36	28	28	26	28	35	70	138	70	56	e25	16
3	35	28	28	26	30	36	75	136	70	56	e17	15
4	33	28	28	24	30	38	65	161	69	33	e14	14
5	33	28	28	28	30	43	69	187	71	24	e12	13
6	33	27	28	28	30	47	78	192	77	24	e11	13
7	33	27	28	28	30	51	99	184	88	21	11	25
8	33	27	25	e28	30	52	114	186	75	20	11	37
9	33	27	24	e28	30	51	131	210	64	20	11	30
10	31	28	24	e28	32	49	135	210	61	24	14	25
11	31	28	26	28	34	48	153	233	59	22	47	21
12	31	27	29	28	34	52	143	209	57	22	47	18
13	31	27	29	28	44	52	143	163	55	24	47	17
14	31	27	28	e28	34	48	167	153	63	68	44	15
15	31	27	25	e27	34	44	173	175	56	67	25	13
16	30	28	25	e27	34	44	178	212	54	64	16	13
17	30	27	25	e27	34	45	195	158	50	51	14	13
18	30	27	29	28	34	46	173	137	48	48	13	13
19	30	28	28	27	35	42	126	127	46	24	12	13
20	30	28	28	27	34	46	119	119	43	19	11	12
21	29	29	26	27	36	43	132	117	40	18	11	12
22	29	27	28	28	35	42	163	108	39	17	11	13
23	29	28	28	28	35	43	162	97	39	17	11	13
24	29	27	26	29	35	41	171	90	36	15	27	13
25	28	26	26	29	34	41	184	86	35	14	48	13
26	28	25	27	30	37	42	198	87	35	13	49	12
27	28	26	27	30	40	44	207	78	34	13	48	12
28	27	26	24	28	36	43	219	76	34	49	44	12
29	28	26	28	30	---	43	247	71	47	59	27	12
30	29	23	24	30	---	47	240	71	57	e56	18	12
31	29	---	28	30	---	55	---	76	---	e50	16	---
TOTAL	954	814	833	866	939	1388	4391	4416	1650	1067	752	476
MEAN	30.8	27.1	26.9	27.9	33.5	44.8	146	142	55.0	34.4	24.3	15.9
MAX	36	29	29	30	44	55	247	233	88	68	49	37
MIN	27	23	24	24	28	35	62	71	34	13	11	12
AC-FT	1890	1610	1650	1720	1860	2750	8710	8760	3270	2120	1490	944

CAL YR 1986 TOTAL 61418 MEAN 168 MAX 1230 MIN 23 AC-FT 121800
WTR YR 1987 TOTAL 18546 MEAN 50.8 MAX 247 MIN 11 AC-FT 36790

e Estimated.

CARSON RIVER BASIN

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", in SW1/4NW1/4 sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi downstream from Clear Creek, 3 mi upstream from Lloyd Bridge on road to Mexican Dam, and 5 mi southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi^2.

PERIOD OF RECORD.--May 1939 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

AVERAGE DISCHARGE.--48 years, 422 ft^3/s, 305,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s, Dec. 24, 1955, gage height, 16.0 ft, present datum from floodmarks, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurements at gage heights 9.40 ft and 16.0 ft, computation of flow over dam at gage height 12.40 ft, and float measurement at gage height 10.60 ft, all at present datum; minimum daily, 1.6 ft^3/s, Aug. 29, 30, Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	1800	*809	*3.67				

Minimum daily, 3.1 ft^3/s, Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	176	145	190	209	168	184	534	102	34	9.3	18
2	211	181	144	200	203	174	192	356	91	32	8.6	19
3	229	195	172	197	194	186	217	274	85	31	25	15
4	236	188	187	253	186	226	227	268	83	31	28	11
5	227	184	175	246	177	244	225	242	89	30	26	11
6	222	182	173	225	169	222	209	251	103	28	18	14
7	215	173	179	209	160	219	187	269	108	29	18	14
8	202	166	178	203	157	213	180	264	151	28	25	14
9	196	164	165	168	156	205	187	263	161	26	31	14
10	184	164	149	152	154	198	194	312	138	24	36	10
11	185	176	148	e140	154	194	221	406	124	23	30	5.2
12	182	177	157	e140	156	187	227	637	127	21	22	9.7
13	181	176	184	e140	237	193	241	572	112	20	3.1	13
14	187	175	182	e140	536	226	211	408	98	19	3.6	20
15	188	174	177	e140	344	229	262	388	102	17	4.5	21
16	188	171	171	e140	282	221	281	576	95	15	9.5	24
17	184	168	171	e150	250	209	263	707	83	15	8.5	22
18	178	172	167	e150	227	200	288	615	75	15	6.5	20
19	179	172	188	e150	210	199	287	486	68	14	4.4	15
20	185	174	191	163	192	203	204	413	62	14	3.8	13
21	187	176	186	164	181	205	171	409	54	15	3.4	14
22	184	169	173	174	172	208	165	403	55	15	3.9	15
23	184	167	179	178	169	209	180	352	57	14	3.9	14
24	184	166	189	187	169	206	198	326	45	14	6.9	13
25	183	163	171	217	168	208	224	306	42	14	9.8	15
26	181	159	166	245	167	195	308	272	42	13	9.4	14
27	176	155	176	237	164	178	369	238	41	13	8.8	14
28	171	157	176	229	162	178	406	208	39	13	7.7	14
29	174	160	164	232	---	178	489	171	36	12	14	13
30	176	156	173	222	---	179	554	141	34	11	15	15
31	176	---	161	216	---	181	---	115	---	10	15	---
TOTAL	5950	5136	5317	5797	5705	6241	7551	11182	2502	610	418.6	443.9
MEAN	192	171	172	187	204	201	252	361	83.4	19.7	13.5	14.8
MAX	236	195	191	253	536	244	554	707	161	34	36	24
MIN	171	155	144	140	154	168	165	115	34	10	3.1	5.2
AC-FT	11800	10190	10550	11500	11320	12380	14980	22180	4960	1210	830	880

CAL YR 1986 TOTAL 282829 MEAN 775 MAX 11500 MIN 36 AC-FT 561000
WTR YR 1987 TOTAL 56853.5 MEAN 156 MAX 707 MIN 3.1 AC-FT 112800

e Estimated.

CARSON RIVER BASIN

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NE1/4NE1/4 sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 2 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA.--4.06 mi^2.

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

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

REMARKS.--Records good. Diversion for municipal use above station.

AVERAGE DISCHARGE.--11 years (1977-87), 2.14 ft^3/s, 1,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s, Feb. 19, 1986, on basis of slope-conveyance measurement of peak flow, gage height, 5.44 ft, from flood marks; minimum daily, 0.16 ft^3/s, June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.8 ft^3/s, Oct. 2, gage height, 4.04 ft, and Feb. 13, gage height, 4.03 ft; minimum daily, 0.45 ft^3/s, May 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	2.1	1.8	1.7	1.5	1.2	1.0	.66	.88	1.1	.92
2	3.6	3.3	2.1	1.9	1.8	1.4	1.2	.98	.70	.88	1.0	.82
3	3.1	3.1	2.1	1.9	1.8	1.3	1.3	.94	.70	.88	1.0	.63
4	2.8	3.3	2.1	1.9	1.5	1.3	1.2	1.3	.68	.88	.97	.75
5	2.8	3.3	2.1	1.9	1.5	1.3	1.2	1.4	.68	.88	.95	.78
6	2.9	2.8	2.1	1.7	1.5	1.3	1.2	1.1	.73	.75	1.0	.88
7	2.8	2.4	2.1	1.7	1.6	1.3	1.2	.96	.64	.75	1.0	.85
8	2.8	2.5	2.1	1.7	1.7	1.3	1.2	.94	.70	.75	.98	.94
9	2.8	2.6	2.1	1.9	1.7	1.3	1.3	.86	.74	.75	.77	.79
10	2.9	2.7	2.2	1.7	1.6	1.2	1.3	.86	.73	.75	.96	.78
11	3.0	2.5	1.7	1.5	1.5	1.2	1.2	.67	.76	.75	1.0	.77
12	3.1	2.6	1.7	1.6	1.6	1.5	1.2	.54	.68	.75	1.0	.83
13	2.8	2.5	1.7	1.8	3.2	1.8	1.2	.45	.78	.75	1.1	.75
14	2.8	2.5	1.6	1.6	2.3	1.3	1.3	.48	.69	.88	1.3	.98
15	3.2	2.5	1.7	1.7	2.0	1.3	1.2	.57	.81	.89	1.4	.94
16	3.0	2.4	1.7	1.5	1.8	1.3	1.1	.62	.83	.91	1.2	1.0
17	3.0	2.5	1.7	1.4	1.7	1.2	1.2	.70	.91	.86	1.1	.95
18	2.9	2.5	1.9	1.7	1.6	1.2	1.1	.68	1.0	.89	.89	1.0
19	2.9	2.5	1.9	1.7	1.4	1.2	1.1	.71	.96	.80	.92	1.1
20	2.8	2.3	1.9	1.5	1.3	1.5	1.1	.66	.96	1.1	.90	1.2
21	2.7	2.3	1.9	1.5	1.4	1.3	1.1	.68	.97	1.0	.86	1.1
22	2.7	2.3	1.9	1.7	1.3	1.2	1.1	.70	1.0	.92	.81	1.2
23	2.9	2.1	1.9	1.9	1.4	1.3	1.2	.67	.97	1.0	.74	1.3
24	2.8	1.9	1.9	2.2	1.3	1.5	1.1	.60	.96	.94	.94	1.2
25	2.6	1.9	1.8	2.3	1.3	1.4	1.1	.65	.94	.91	.83	1.3
26	3.0	1.9	1.7	2.0	1.2	1.2	1.0	.67	.92	.89	.83	1.4
27	3.2	2.1	1.7	2.0	1.3	1.2	1.4	.68	.87	.89	.82	1.2
28	3.2	2.1	1.7	2.0	1.4	1.2	1.2	.67	.76	.92	.94	1.1
29	2.9	2.3	1.7	1.9	---	1.2	1.1	.69	.93	.92	.81	1.2
30	3.2	2.5	1.7	1.9	---	1.2	1.1	.67	.91	.96	.64	1.0
31	3.2	---	1.7	1.8	---	1.2	---	.62	---	.98	.73	---
TOTAL	91.4	75.4	58.2	55.3	45.4	40.6	35.4	23.72	24.57	27.06	29.49	29.66
MEAN	2.95	2.51	1.88	1.78	1.62	1.31	1.18	.77	.82	.87	.95	.99
MAX	3.6	3.3	2.2	2.3	3.2	1.8	1.4	1.4	1.0	1.1	1.4	1.4
MIN	2.6	1.9	1.6	1.4	1.2	1.2	1.0	.45	.64	.75	.64	.63
AC-FT	181	150	115	110	90	81	70	47	49	54	58	59

CAL YR 1986 TOTAL 1246.7 MEAN 3.42 MAX 42 MIN 1.2 AC-FT 2470
WTR YR 1987 TOTAL 536.20 MEAN 1.47 MAX 3.6 MIN .45 AC-FT 1060

CARSON RIVER BASIN

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'16", in NW1/4SW1/4 sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,080 ft, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years (1977-87), 3.94 ft^3/s, 2,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58 ft^3/s, Feb. 17, 1986, gage height, unknown, on basis of slope-conveyance measurement of peak flow; minimum daily, 0.80 ft^3/s, Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.8 ft^3/s, Feb. 13, gage height, 1.85 ft; minimum daily, 1.2 ft^3/s, Aug. 9, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.6	3.4	3.3	3.0	3.0	3.3	3.4	2.3	1.7	1.3	1.4
2	4.1	3.6	3.4	3.3	3.0	3.1	3.3	3.3	2.3	1.6	1.3	1.4
3	4.0	3.5	3.4	3.3	3.1	3.2	3.4	3.3	2.2	1.6	1.3	1.3
4	4.0	3.5	3.4	3.3	3.0	3.3	3.2	3.3	2.2	1.6	1.3	1.4
5	4.2	3.5	3.4	3.3	3.0	3.4	3.2	3.3	2.2	1.6	1.3	1.4
6	4.3	3.4	3.4	3.3	3.0	3.4	3.3	3.2	2.3	1.6	1.3	1.4
7	4.2	3.5	3.4	3.3	3.0	3.3	3.4	3.2	2.3	1.5	1.3	1.4
8	4.1	3.6	3.3	3.2	3.0	3.3	3.5	3.1	2.2	1.5	1.3	1.4
9	4.1	3.5	3.3	e3.2	3.0	3.2	3.6	3.2	2.2	1.5	1.2	1.4
10	4.0	3.4	3.5	e3.1	3.1	3.1	3.6	3.3	2.1	1.5	1.3	1.4
11	4.0	3.5	3.4	3.1	3.1	3.1	3.7	3.3	2.1	1.5	1.3	1.4
12	3.9	e3.5	3.4	3.1	3.3	3.3	3.5	3.1	2.0	1.5	1.3	1.4
13	3.9	e3.5	3.4	3.2	5.8	3.4	3.5	3.0	2.0	1.4	1.3	1.5
14	3.9	3.4	3.4	3.0	3.7	3.2	3.7	2.9	2.1	1.4	1.3	1.4
15	3.9	3.4	3.3	2.9	3.4	3.1	3.7	3.1	2.1	1.4	1.4	1.5
16	3.9	3.4	3.2	2.9	3.2	3.1	3.7	3.0	2.0	1.4	1.3	1.5
17	3.9	3.4	3.2	2.9	3.2	3.1	3.7	2.9	2.0	1.5	1.3	1.5
18	3.9	3.4	3.2	2.9	3.1	3.1	3.5	2.8	1.9	1.6	1.3	1.5
19	3.9	3.4	3.3	2.9	3.1	3.0	3.3	2.8	1.9	1.7	1.2	1.5
20	3.9	3.4	3.3	2.9	3.0	3.2	3.3	2.9	1.9	1.6	1.3	1.5
21	3.9	3.5	3.3	2.9	3.2	3.0	3.4	2.8	1.9	1.6	1.3	1.5
22	3.9	3.3	3.3	2.9	3.0	3.0	3.5	2.7	1.8	1.6	1.3	1.5
23	3.8	3.4	3.3	e2.9	3.1	3.1	3.5	2.7	1.8	1.5	1.3	1.5
24	3.7	3.4	3.3	e3.0	3.0	3.0	3.6	2.6	1.7	1.5	1.3	1.5
25	3.7	3.3	3.3	3.2	3.0	3.0	3.6	2.6	1.7	1.5	1.3	1.5
26	3.7	3.3	3.3	3.1	3.0	3.1	3.7	2.7	1.7	1.4	1.3	1.6
27	3.7	3.4	3.2	3.1	3.0	3.0	4.2	2.8	1.7	1.4	1.3	1.6
28	3.7	3.4	3.2	3.1	3.0	3.0	3.9	2.7	1.7	1.4	1.3	1.6
29	3.6	3.3	3.2	3.0	---	3.0	3.8	2.6	1.6	1.4	1.3	1.6
30	3.6	3.3	3.2	3.0	---	3.1	3.8	2.5	1.7	1.4	1.3	1.5
31	3.6	---	3.2	3.0	---	3.2	---	2.4	---	1.3	1.3	---
TOTAL	121.5	103.0	102.8	95.6	89.4	97.4	106.4	91.5	59.6	46.7	40.2	44.0
MEAN	3.92	3.43	3.32	3.08	3.19	3.14	3.55	2.95	1.99	1.51	1.30	1.47
MAX	4.5	3.6	3.5	3.3	5.8	3.4	4.2	3.4	2.3	1.7	1.4	1.6
MIN	3.6	3.3	3.2	2.9	3.0	3.0	3.2	2.4	1.6	1.3	1.2	1.3
AC-FT	241	204	204	190	177	193	211	181	118	93	80	87

CAL YR 1986 TOTAL 2104.3 MEAN 5.77 MAX 45 MIN 3.0 AC-FT 4170
WTR YR 1987 TOTAL 998.1 MEAN 2.73 MAX 5.8 MIN 1.2 AC-FT 1980

e Estimated.

CARSON RIVER BASIN

10311300 EAGLE VALLEY CREEK AT CARSON CITY, NV

LOCATION.--Lat 39°09'56", long 119°43'23", in SE1/4NW1/4 sec.15, T.15 N. R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 100 ft downstream from North Edmonds Drive, and 1.1 mi south of intersection with Highway 50.

DRAINAGE AREA.--34.4 mi^2.

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,620 ft, from topographic map.

REMARKS.--Records fair except for period of estimated daily discharges, which is poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft^3/s, Feb. 19, 1986, gage height, 8.85 ft, from rating curve extended above 620 ft^3/s, minimum daily, 0.14 ft^3/s, Sept. 27, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 127 ft^3/s, Feb. 13, gage height, 5.55 ft; minimum daily, 0.14 ft^3/s, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	13	7.3	11	8.2	8.0	5.3	3.3	e1.7	5.3	.22	2.4
2	16	13	7.3	9.0	7.2	9.7	5.3	e2.9	e1.7	3.2	.84	2.0
3	17	14	9.3	25	8.5	9.0	7.8	e2.9	e1.7	5.3	1.2	1.9
4	11	11	8.4	28	7.9	9.1	6.9	e2.8	e1.6	.89	.56	6.0
5	12	7.9	6.9	13	7.3	8.9	7.0	e2.8	e1.6	1.3	.33	5.0
6	9.6	6.1	9.0	11	7.0	8.8	5.9	e2.7	e1.5	1.8	.17	5.8
7	8.8	8.1	10	13	6.9	8.4	5.6	e2.7	e1.5	1.5	.95	9.2
8	16	5.9	9.9	10	7.3	8.3	3.7	e2.7	e1.5	.68	.63	2.4
9	9.1	7.0	8.9	7.7	7.4	8.0	2.9	e2.6	e1.4	.64	.54	6.8
10	8.3	7.0	9.6	7.5	6.5	7.8	3.9	e2.6	e1.4	.72	.53	8.9
11	8.3	7.2	9.9	7.3	6.9	7.6	3.7	e2.5	e1.3	1.2	.66	3.3
12	9.7	9.1	10	7.9	9.1	9.7	4.0	e2.5	e1.3	1.1	.84	2.2
13	12	8.3	9.9	8.1	60	16	3.9	e2.5	e1.3	.73	.61	4.8
14	13	8.7	9.2	7.8	16	9.2	3.2	e2.4	e1.2	.64	.51	5.2
15	11	7.2	8.1	7.8	8.0	10	3.9	e2.4	e1.2	1.6	4.1	5.4
16	8.9	9.4	7.8	7.3	7.5	9.3	1.9	e2.3	e1.1	1.2	1.5	15
17	6.7	9.8	7.4	6.7	7.7	8.7	2.3	e2.3	1.1	1.1	2.9	8.4
18	12	6.6	9.6	6.9	7.2	8.9	2.7	e2.3	3.3	4.2	6.7	8.6
19	9.1	7.2	11	7.7	7.0	12	3.6	e2.2	1.9	3.6	3.7	8.5
20	12	6.4	11	8.1	7.1	10	2.4	e2.2	1.9	4.4	3.1	8.8
21	9.9	6.8	11	7.7	6.5	9.9	1.8	e2.1	3.1	3.5	2.4	8.0
22	12	6.3	10	8.1	8.1	9.1	2.0	e2.1	4.5	3.1	4.9	9.0
23	13	6.1	11	8.9	12	19	2.1	e2.1	.95	2.9	7.4	11
24	14	6.0	10	12	9.5	12	1.0	e2.0	2.0	4.0	1.9	4.4
25	11	5.5	11	12	9.8	11	1.1	e2.0	1.1	3.0	8.8	10
26	13	5.8	9.6	12	9.1	9.7	1.4	e1.9	2.7	1.1	1.7	2.0
27	12	8.3	9.1	11	8.1	8.2	4.3	e1.9	1.8	.69	1.9	.14
28	10	8.0	7.9	15	8.1	6.6	4.1	e1.9	2.3	1.4	3.3	.15
29	13	7.0	8.1	9.3	---	7.0	2.7	e1.9	1.5	.95	2.7	.18
30	12	6.7	7.3	8.8	---	7.1	5.5	e1.8	3.7	.62	2.9	.24
31	12	---	9.9	8.0	---	5.4	---	e1.8	---	.23	3.6	---
TOTAL	364.4	239.4	285.4	323.6	281.9	292.4	111.9	73.1	54.85	62.59	72.09	165.71
MEAN	11.8	7.98	9.21	10.4	10.1	9.43	3.73	2.36	1.83	2.02	2.33	5.52
MAX	22	14	11	28	60	19	7.8	3.3	4.5	5.3	8.8	15
MIN	6.7	5.5	6.9	6.7	6.5	5.4	1.0	1.8	.95	.23	.17	.14
AC-FT	723	475	566	642	559	580	222	145	109	124	143	329

CAL YR 1986 TOTAL 5898.5 MEAN 16.2 MAX 701 MIN 1.6 AC-FT 11700
WTR YR 1987 TOTAL 2327.34 MEAN 6.38 MAX 60 MIN .14 AC-FT 4620

e Estimated.

CARSON RIVER BASIN

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

LOCATION.--Lat 39°17'30", long 119°18'40", in SW1/4SE1/4 sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on right bank 400 ft downstream from Buckland ditch, 2 mi west of Fort Churchill, and 4.5 mi upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,302 mi^2, revised.

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 4,219.70 ft, above National Geodetic Vertical Datum of 1929. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft higher (levels by Truckee-Carson Irrigation District). July 8, 1986, water-stage recorder at site 50 ft upstream at datum 5.0 ft higher.

REMARKS.--Records good except for periods with ice effect, which are poor. Many diversions for irrigation above station, including diversions for irrigation above station, including diversions for 720 acres between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft upstream for irrigation downstream from station.

AVERAGE DISCHARGE.--76 years, 380 ft^3/s, 275,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft^3/s, Feb. 19, 1986, gage height, 8.35 ft; maximum gage height, about 11 ft in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	1000	*776	*5.31				

Minimum daily, no flow many days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	178	175	185	242	226	198	505	101	1.3	.06	.01
2	203	183	166	e200	234	236	193	440	90	1.2	.02	.01
3	220	195	171	e195	224	245	187	328	79	1.7	.03	.01
4	240	202	191	e187	217	274	213	268	72	2.0	.01	.01
5	226	186	201	e180	213	329	218	240	66	1.7	.02	.01
6	221	176	193	e175	208	271	194	210	69	1.3	.02	.01
7	210	172	195	e170	198	259	169	217	86	1.0	.02	.01
8	192	150	200	e160	193	258	158	209	77	.75	.05	.01
9	176	151	196	e153	192	249	152	216	114	.75	.04	.02
10	160	156	183	e150	189	240	148	257	120	.75	.02	.02
11	162	146	171	e146	186	234	160	312	90	.66	.01	.01
12	174	162	164	e146	188	231	181	413	72	.61	.01	.01
13	172	172	178	e146	215	242	180	538	57	.72	.01	.01
14	173	177	198	e146	444	280	187	462	44	.61	.01	.00
15	177	174	199	e146	505	290	173	377	49	.51	.03	.00
16	185	174	194	e148	334	267	195	424	47	.48	.04	.00
17	176	174	181	e149	287	240	207	689	33	.37	.04	.01
18	170	179	181	e150	257	232	213	639	25	.30	.04	.01
19	172	179	188	e152	238	225	254	537	20	.29	.04	.01
20	187	187	205	e165	229	239	223	462	13	.69	.05	.00
21	184	190	209	e179	221	233	166	413	12	.72	.07	.01
22	179	192	204	e190	217	235	135	439	9.5	.57	.07	.00
23	179	190	195	e200	212	236	121	440	7.2	.32	.07	.00
24	189	188	197	e202	219	243	146	409	6.0	.28	.07	.00
25	186	182	202	242	224	237	178	372	5.4	.17	.07	.00
26	186	184	191	291	224	237	228	318	4.4	.19	.04	.00
27	183	179	187	282	219	219	296	269	1.6	.21	.03	.00
28	174	174	192	267	218	209	316	250	1.8	1.1	.01	.00
29	178	174	189	270	---	205	364	204	2.2	.11	.01	.00
30	182	174	182	263	---	199	454	145	2.0	.10	.01	.00
31	181	---	187	245	---	200	---	126	---	.10	.01	---
TOTAL	5865	5300	5865	5880	6747	7520	6207	11128	1376.1	21.56	1.03	0.19
MEAN	189	177	189	190	241	243	207	359	45.9	.70	.033	.006
MAX	268	202	209	291	505	329	454	689	120	2.0	.07	.02
MIN	160	146	164	146	186	199	121	126	1.6	.10	.01	.00
AC-FT	11630	10510	11630	11660	13380	14920	12310	22070	2730	43	2.0	.4

CAL YR 1986 TOTAL 273874.2 MEAN 750 MAX 13400 MIN 3.1 AC-FT 543200
WTR YR 1987 TOTAL 55910.88 MEAN 153 MAX 689 MIN .00 AC-FT 110900

e Estimated.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV-Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to current year (published as Carson River near Silver Springs, sta. no. 10312020, October 1962 to September 1970).
CHEMICAL ANALYSES: October 1962 to April 1967, once daily (composited); May 1967 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
SPECIFIC CONDUCTANCES: October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily; October 1982 to current year, four times per year.
BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily; October 1982 to current year, four times per year.
SEDIMENT DATA: January to June 1974, occasional; January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

REMARKS.--Monthly water-quality data are collected from river at gage, or from Buckland Ditch, which leaves river 400 ft upstream from gage, depending on discharge. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Discharge data do not include ditch flow.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 840 microsiemens Sept. 13, 1973; minimum, 81 microsiemens 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, 2,320 mg/L Feb. 18, 1986; minimum, 4 mg/L Jan. 2, 1975, Dec. 1, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
18...	1110	170	380	8.20	15.0	8.5	3.4	10.2	103	K4	94	130
MAR												
04...	1300	270	386	8.20	18.0	10.0	5.9	10.1	105	K25	--	120
MAY												
13...	1025	604	196	8.00	26.5	22.0	1.9	7.5	101	640	760	63
AUG												
10...	1230	0.03	--	8.50	31.5	22.5	4.3	6.0	81	K40	K50	190

K: NON-IDEAL COLONY COUNT.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L 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 18...	37	8.0	33	1	3.8	133	--	109	69	13	0.40	21
MAR 04...	35	7.7	33	1	3.9	132	--	108	61	13	0.40	26
MAY 13...	18	4.4	16	0.9	3.6	81	--	66	24	4.7	0.30	22
AUG 10...	54	14	57	2	6.3	169	3	143	150	16	0.50	29

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 AC-FT)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV 18...	244	250	0.33	0.260	0.020	0.280	0.040	0.020	0.56	0.60	0.210	0.200
MAR 04...	248	250	0.34	0.640	0.020	0.660	0.040	0.030	0.96	1.0	0.340	0.190
MAY 13...	144	130	0.20	0.260	0.020	0.280	0.060	0.050	1.0	1.1	0.420	0.200
AUG 10...	410	410	0.56	--	<0.010	<0.100	<0.010	<0.010	--	<0.20	0.130	0.070

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV 18...	0.180	10	6	49	<0.5	<1	<1	<3	4	33	7	27
MAR 04...	0.220	<10	7	46	<0.5	<1	<1	<3	5	43	<5	28
MAY 13...	0.190	20	8	27	<0.5	<1	<1	<3	4	78	17	14
AUG 10...	0.040	<10	8	51	0.8	<1	<1	<3	2	13	<5	18

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	14	<0.1	<10	3	<1	<1	380	<6	4	41	19	--
MAR 04...	8	<0.1	20	5	<1	<1	370	<6	6	72	52	--
MAY 13...	12	<0.1	<10	<1	<1	<1	210	<6	<3	182	297	71
AUG 10...	18	0.2	20	2	<1	<1	610	<6	6	30	0.00	59

CARSON RIVER BASIN

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW1/4SE1/4 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 west of Fallon.

DRAINAGE AREA.--1,799 mi^2, revised (not including inflow from Truckee Canal).

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734.

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

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to 1966, at datum 3.73 ft lower (Bureau of Reclamation datum).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft between elevations, 4,060.0 ft, invert of outlet conduit, and 4,162.0 ft, spillway crest; includes 91 acre-ft of dead storage below elevation, 4,070 ft. Surface area at spillway elevation, 12,120 acres. Water is used for irrigation of 87,500 acres in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe (station 10337000), Donner Lake, Prosser Creek (station 10340300), Stampede (station 10344300), Boca (station 10344490), 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, June 16, 1942, elevation, 4,164.43 ft; minimum observed, 91 acre-ft, Sept. 7-9, 1929, elevation, 4,070.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 288,900 acre-ft, Apr. 2, 3, elevation, 4,161.47 ft; minimum observed, 63,790 acre-ft, Sept. 30, elevation, 4,124.52 ft.

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

4,124	62,190	4,140	127,800	4,155	225,600
4,125	65,300	4,145	155,400	4,160	272,500
4,130	82,700	4,150	187,200	4,162	295,100
4,135	103,500				

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158800	145900	147100	170400	198600	227400	288300	258500	250100	201100	148100	95330
2	158300	145400	147800	171400	199700	228300	288900	258500	249600	199300	146400	93930
3	157700	145000	148400	172200	200700	229300	288900	258400	248300	197500	144700	92800
4	157200	145000	149100	173000	201800	230400	288400	258300	247300	195500	143500	91230
5	156700	144600	149700	173600	202700	231400	288100	258900	245600	193400	141900	90000
6	156300	144400	150300	174900	203600	232500	287400	257000	244900	191700	140200	88790
7	155900	144100	151000	175800	204600	233500	286700	256000	242500	189700	138500	87660
8	155300	143800	151800	176800	205600	234600	285900	254700	241000	187800	136700	87100
9	154900	143500	152500	178100	206600	235700	284800	253200	239900	185800	135000	85800
10	154500	143200	153200	179100	207600	236900	284000	253000	238800	184000	133400	84630
11	154100	143000	153800	179900	208600	238000	282400	252400	237500	182400	131700	83470
12	153600	142800	154400	180900	209600	239200	281600	251800	236100	180600	129500	82090
13	153100	142700	155100	181800	210600	240400	280600	251400	234800	179100	127400	80660
14	152500	142500	155900	182800	211700	241600	279800	250900	232800	177400	125400	79210
15	151900	142300	156700	183600	212700	242500	278300	250300	231100	175900	123600	78880
16	151400	142200	157400	184400	213700	243600	276900	249800	229500	174400	121900	76770
17	151100	142100	158200	185300	214800	244800	275200	249300	228000	172400	119800	75420
18	150700	142000	158600	186100	215800	245900	273900	248900	226600	170400	118000	74460
19	150300	142000	159200	187100	216900	247100	272400	249400	225200	169000	116200	73420
20	149900	142600	160400	188000	218000	248200	270900	249100	223200	167700	114200	72390
21	149400	142800	161500	188800	219000	249600	269300	249600	221700	166300	112500	71360
22	149100	143100	162200	189700	220100	250900	268200	250100	219200	165000	110700	70350
23	148800	143500	162900	190500	221200	252100	266600	250500	217200	163600	109400	69420
24	148500	143800	163500	191500	222200	253300	265200	250800	215100	162300	108100	68490
25	148200	144100	164200	192300	223300	254200	263700	251000	213500	160400	106100	67580
26	147900	144700	165100	193200	224400	255200	262100	251500	211100	158500	104400	66770
27	147300	145100	166000	194700	225500	256300	261300	251900	209100	156600	102700	65970
28	146900	145600	166900	195100	226500	e262700	260400	251800	206400	154800	101200	65140
29	146800	146100	167700	195900	---	e269100	259500	251800	204900	153600	99830	64320
30	146500	146600	168400	196800	---	e275500	259200	251200	203400	151800	98430	63790
31	146200	---	169400	197700	---	e281900	---	250800	---	150000	96870	---
TOTAL	4709800	4314500	4888400	5711400	5946100	7612100	8278900	7830800	6874400	5418000	3786330	2347230
MEAN	151900	143800	157700	184200	212400	245600	276000	252600	229100	174800	122100	78240
MAX	158800	146600	169400	197700	226500	281900	288900	258900	250100	201100	148100	95330
MIN	146200	142000	147100	170400	198600	227400	259200	248900	203400	150000	96870	63790
#	4143.39	4143.47	4147.30	4151.47	4155.10	--	4158.70	4157.82	4152.23	4144.06	4133.49	4124.52
##	-13000	+400	22800	28300	28800	+55400	-22700	-8400	-47400	-53400	-53130	-33080

CAL YR 1986 MAX 310400 MIN 142000 ## +24300
WTR YR 1987 MAX 288900 MIN 63790 ## -95410

\# Elevation, in feet NGVD, at end of month.
Change in contents, in acre-feet.
e Estimated.

CARSON RIVER BASIN

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E1/2SE1/4 sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 1.1 mi downstream from Lahontan Dam, and 15 mi west of Fallon.

DRAINAGE AREA.--1,801 mi^2 (not counting inflow from Truckee Canal).

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

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

GAGE.--Water-stage recorder. Elevation of gage is 4,040 ft, from topographic map.

REMARKS.--Records good except for estimated discharges, which are fair. Flow regulated by Lahontan Reservoir (station 10312100), capacity 295,100 acre-ft, and other upstream regulations. One diversion, approximately 2,500 acre-ft per year, between gage and Lahontan Reservoir.

AVERAGE DISCHARGE.--21 years, 568 ft^3/s, 411,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft^3/s, June 28, 1983, gage height, 8.05 ft; minimum daily, 1.6 ft^3/s, Oct. 25 to Nov. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft^3/s, June 15, gage height, 5.53 ft; minimum recorded, 1.8 ft^3/s, Jan. 13-15, 22-28, but may have been less during period of no gage-height record, Nov. 16 to Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	468	327	e2.8	e2.4	2.0	2.3	388	692	424	1010	894	822
2	339	327	e2.8	e2.4	2.0	2.3	473	696	654	1010	866	817
3	337	327	e2.8	e2.4	2.0	2.3	544	697	716	1010	861	810
4	334	327	e2.8	e2.4	2.0	2.3	547	698	772	1010	861	757
5	334	327	e2.8	e2.3	2.0	2.2	546	699	802	1010	908	729
6	334	327	e2.8	e2.3	2.0	2.3	547	801	797	1010	923	694
7	418	325	e2.8	e2.3	2.1	2.3	549	899	794	1010	917	674
8	510	324	e2.7	2.3	2.1	2.4	549	899	785	946	917	672
9	449	324	e2.7	2.3	2.1	2.4	549	860	791	908	915	667
10	408	324	e2.7	2.3	2.3	2.5	551	731	790	908	951	698
11	411	325	e2.7	2.3	2.3	2.7	610	732	789	903	1020	767
12	409	323	e2.7	2.3	2.3	2.5	635	733	856	903	1010	764
13	409	317	e2.7	2.0	2.5	2.7	638	733	941	903	1010	762
14	409	317	e2.7	1.8	2.5	2.5	742	735	964	903	1000	761
15	384	261	e2.7	1.9	2.3	2.4	831	734	960	903	998	758
16	349	e2.8	e2.6	2.0	2.4	161	850	734	913	898	998	753
17	371	e2.8	e2.6	2.0	2.2	255	836	734	923	889	996	692
18	371	e2.8	e2.6	2.0	2.2	345	832	626	e884	848	995	660
19	371	e2.8	e2.6	2.0	2.3	387	835	565	e884	830	987	655
20	371	e2.8	e2.6	2.0	2.4	387	835	349	e950	826	959	653
21	371	e2.8	e2.5	1.9	2.2	387	838	152	e950	817	943	650
22	375	e2.8	e2.5	1.8	2.2	388	834	145	e950	826	868	649
23	375	e2.8	e2.5	1.8	2.2	387	834	139	e950	852	830	648
24	375	e2.8	e2.5	1.8	2.3	388	832	140	e950	880	843	633
25	390	e2.8	e2.5	1.8	2.2	388	817	141	e950	960	841	619
26	406	e2.8	e2.5	1.8	2.2	388	820	146	e950	956	838	614
27	397	e2.8	e2.5	1.8	2.2	385	822	150	e950	956	836	610
28	400	e2.8	e2.5	1.8	2.2	387	822	152	e950	951	831	572
29	363	e2.8	e2.4	2.0	---	386	823	248	e950	946	832	531
30	336	e2.8	e2.4	2.0	---	388	728	342	1040	946	831	530
31	331	---	e2.4	2.0	---	389	---	335	---	941	828	---
TOTAL	11905	4844.0	81.4	64.2	61.7	5832.1	21057	16437	25979	28669	28307	20621
MEAN	384	161	2.63	2.07	2.20	188	702	530	866	925	913	687
MAX	510	327	2.8	2.4	2.5	389	850	899	1040	1010	1020	822
MIN	331	2.8	2.4	1.8	2.0	2.2	388	139	424	817	828	530
AC-FT	23610	9610	161	127	122	11570	41770	32600	51530	56860	56150	40900

CAL YR 1986 TOTAL 288289.2 MEAN 790 MAX 2230 MIN 2.4 AC-FT 571800
WTR YR 1987 TOTAL 163858.4 MEAN 449 MAX 1040 MIN 1.8 AC-FT 325000

e Estimated.

CARSON RIVER BASIN

10312275 CARSON RIVER AT TARZYN ROAD NEAR FALLON, NV

LOCATION.--Lat 39°33'32", long 118°43'30", in NE1/4NE1/4 sec.33, T.19 N., R.29 E., Churchill County, Hydrologic Unit 16050203, on right bank 4 mi north-northeast of Fallon.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,900 ft, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir (station 10312100), capacity, 295,100 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 753 ft^3/s, June 4, 1986, gage height, 5.22 ft; minimum daily, 1.4 ft^3/s, Oct. 29, 1986, but may have been less during period of estimated daily discharges.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 141 ft^3/s, Oct. 3, gage height, 2.36 ft; minimum daily, 0.13 ft^3/s, June 1, 2, but may have been less during period of estimated daily discharges.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	13	3.0	16	e2.5	2.0	2.1	5.8	.13	e6.4	8.8	7.1
2	50	9.7	3.0	16	e2.5	2.0	9.9	7.8	3.2	e6.4	13	21
3	85	28	3.0	8.4	e2.5	2.0	33	9.2	7.5	e7.2	11	10
4	36	23	3.0	4.4	e2.5	2.0	5.4	.98	2.6	e7.2	5.0	8.4
5	23	20	3.3	4.1	2.4	1.8	4.5	4.1	12	e7.6	12	8.1
6	24	25	3.3	3.8	2.4	1.7	3.9	20	9.2	e8.1	6.8	8.3
7	16	31	3.3	3.5	2.4	1.6	3.0	11	2.5	e8.2	8.1	7.7
8	21	31	3.3	3.5	2.5	2.3	3.7	9.3	11	e9.0	12	14
9	28	32	e3.3	e3.1	2.6	2.0	2.8	4.3	9.7	e9.0	17	9.3
10	5.7	37	e3.2	e2.8	2.6	1.8	4.3	5.2	8.1	e11	12	13
11	4.1	32	e3.2	e2.8	2.5	1.8	2.7	.65	.90	e12	8.0	4.6
12	2.1	9.8	e3.2	e2.8	2.4	1.8	1.2	12	2.6	e13	11	3.0
13	1.9	16	e3.2	e2.8	2.4	1.8	1.8	10	3.9	15	27	2.8
14	5.3	29	e3.2	e2.8	2.2	1.8	3.7	8.1	e5.4	11	25	6.5
15	5.6	13	e3.2	e2.8	2.2	2.0	5.5	5.7	e5.4	9.6	11	24
16	34	12	e3.3	e2.8	2.1	2.1	5.8	.61	e5.4	8.0	21	14
17	13	8.0	e3.4	e2.8	2.2	2.0	7.9	7.7	e5.4	9.0	16	8.2
18	18	4.3	e3.5	e2.8	2.3	2.2	8.3	31	e5.6	8.3	11	12
19	5.3	4.1	e3.6	e2.8	2.2	2.2	.63	18	e5.6	8.2	12	7.0
20	3.8	4.4	e3.7	e2.8	2.1	2.1	3.0	17	e5.6	1.4	8.4	20
21	3.4	4.1	3.8	e2.8	2.1	2.8	7.5	11	e5.8	1.6	11	12
22	5.0	3.5	3.5	e2.8	2.2	2.3	5.5	8.0	e5.8	.79	9.5	29
23	13	3.1	3.5	e2.8	2.1	2.0	8.0	6.0	e5.8	7.2	9.0	8.3
24	18	3.2	3.5	e2.8	2.0	2.2	5.1	.62	e5.8	7.3	16	17
25	21	2.7	3.5	e2.8	2.0	1.9	3.0	.24	e5.8	11	22	10
26	18	2.6	3.5	e2.7	e1.6	2.1	9.4	.29	e6.0	5.6	9.2	4.3
27	20	2.6	3.3	e2.7	2.0	3.3	12	.28	e6.0	1.0	12	4.4
28	20	2.6	3.0	e2.6	2.0	2.5	11	.60	e6.0	2.0	8.7	20
29	20	2.6	3.0	e2.6	---	2.4	11	.19	e6.0	5.0	7.5	16
30	12	2.6	3.8	e2.6	---	2.3	13	.18	e6.0	7.8	6.0	18
31	16	---	6.2	e2.6	---	2.0	---	.15	---	11	8.3	---
TOTAL	593.2	411.9	105.8	123.4	63.5	64.8	198.63	215.99	170.73	235.89	375.3	348.0
MEAN	19.1	13.7	3.41	3.98	2.27	2.09	6.62	6.97	5.69	7.61	12.1	11.6
MAX	85	37	6.2	16	2.6	3.3	33	31	12	15	27	29
MIN	1.9	2.6	3.0	2.6	1.6	1.6	.63	.15	.13	.79	5.0	2.8
AC-FT	1180	817	210	245	126	129	394	428	339	468	744	690

CAL YR 1986 TOTAL 54727.7 MEAN 150 MAX 728 MIN 1.9 AC-FT 108600
WTR YR 1987 TOTAL 2907.14 MEAN 7.96 MAX 85 MIN .13 AC-FT 5770

e Estimated.

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE1/4SE1/4 sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi upstream from Hot Springs Creek, 7 mi north of Cross Ranch, and 13 mi north of Deeth.

DRAINAGE AREA.--415 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft, from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft higher. Oct. 1, 1967, to Sept. 8, 1982, at site 200 ft downstream at datum, 0.33 ft lower.

REMARKS.--Records good except for periods of estimated daily discharges, which are poor. Several diversions for irrigation of 7,150 acres, Humboldt Decree, above station.

AVERAGE DISCHARGE.--43 years (1943-80, 1982-87), 69.3 ft^3/s, 50,208 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft^3/s, Feb. 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft^3/s on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
May 21	0500	*201	*3.15	No other peak greater than base discharge.			

Minimum daily, 1.2 ft^3/s, Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	e20	e15	e20	e29	38	138	77	15	1.7	1.3
2	15	e17	e19	e15	e21	e29	43	135	72	14	1.7	1.2
3	16	e17	e19	e14	22	e31	57	118	66	14	1.6	1.2
4	15	e17	e19	e15	21	31	77	103	62	13	1.6	1.3
5	15	e18	19	e15	22	34	77	86	58	13	1.5	1.4
6	15	16	21	e14	21	41	83	81	53	12	1.5	1.4
7	15	16	e19	e13	22	49	75	80	49	11	1.4	1.5
8	15	16	e19	e12	22	70	82	75	51	10	1.5	1.5
9	14	15	e20	e11	24	71	82	54	52	9.4	1.4	1.4
10	15	e16	e19	e11	24	67	74	56	56	8.7	1.4	1.4
11	14	e15	e19	e11	26	62	74	60	53	8.0	1.4	1.4
12	14	18	e19	e12	29	62	81	64	48	7.1	1.4	1.5
13	14	18	e19	e12	31	59	81	64	43	6.6	1.3	1.5
14	15	e18	e18	e10	32	61	79	60	35	6.1	1.4	1.5
15	15	19	e17	e10	31	59	79	58	33	5.3	1.4	1.5
16	15	18	e18	e10	31	56	79	72	30	4.6	1.4	1.5
17	15	18	e16	e11	30	52	79	91	30	4.0	1.4	1.5
18	15	e19	e16	e11	29	52	79	134	28	4.0	1.3	1.6
19	15	19	15	e12	e28	54	79	165	24	3.7	1.3	1.6
20	15	e19	e17	e12	e28	47	79	191	22	3.7	1.3	1.6
21	17	e19	e16	e12	e28	45	79	196	21	3.6	1.3	1.7
22	18	e18	e16	e13	e29	43	79	180	21	3.5	1.3	1.7
23	17	e18	e15	e14	e29	41	78	157	21	3.4	1.3	1.7
24	17	e19	e16	e15	e29	41	82	133	19	3.2	1.3	1.8
25	16	e21	e15	e17	e29	42	89	122	18	2.8	1.4	1.8
26	16	e21	e16	e17	e28	38	95	120	18	2.5	1.4	1.7
27	16	e19	e15	e18	e28	37	101	122	16	2.2	1.3	1.8
28	16	e18	e18	e18	e28	36	109	129	15	2.2	1.3	1.8
29	17	e19	e17	e18	---	36	116	117	16	2.2	1.3	1.8
30	17	e19	e15	e18	---	35	129	101	16	2.1	1.3	1.8
31	16	---	e15	e19	---	38	---	87	---	1.9	1.3	---
TOTAL	478	536	542	425	742	1448	2434	3349	1123	202.8	43.4	46.4
MEAN	15.4	17.9	17.5	13.7	26.5	46.7	81.1	108	37.4	6.54	1.40	1.55
MAX	18	21	21	19	32	71	129	196	77	15	1.7	1.8
MIN	13	15	15	10	20	29	38	54	15	1.9	1.3	1.2
AC-FT	948	1060	1080	843	1470	2870	4830	6640	2230	402	86	92

CAL YR 1986 TOTAL 41449.3 MEAN 114 MAX 520 MIN 3.5 AC-FT 82210
WTR YR 1987 TOTAL 11369.5 MEAN 31.1 MAX 196 MIN 1.2 AC-FT 22550

e Estimated.

HUMBOLDT RIVER BASIN

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'27", long 115°28'32", in NE1/4 sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, on left bank 600 ft upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermott ditch, and 3 mi south of Lamoille.

DRAINAGE AREA.--26 mi^2, approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft, from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums. Oct. 1 to Jan. 16, 1975, water-stage recorder at site 600 ft downstream at datum 4.28 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--51 years (1915-22, 1943-87), 45.1 ft^3/s, 32,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 838 ft^3/s, June 3, 1986, gage height, 6.08 ft, from rating curve extended above 260 ft^3/s, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft^3/s, Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 310 ft^3/s and maximum (*), based on rating curve extended above 260 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	2400	*297	*4.45				

Minimum daily, 2.0 ft^3/s, Jan. 11-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.3	e5.4	e3.3	e2.9	e3.6	4.8	125	95	29	8.4	3.6
2	7.8	6.9	e5.4	e3.3	e3.2	e3.6	5.6	101	94	28	10	3.5
3	7.4	6.8	e5.4	e3.3	3.8	3.6	6.3	97	103	27	9.3	3.3
4	7.3	6.9	e5.4	e3.2	3.7	3.6	7.3	109	111	25	8.9	3.4
5	7.4	6.9	e5.3	e3.1	4.4	3.8	8.7	126	115	23	8.3	3.5
6	7.6	6.8	e5.2	e2.9	4.1	4.1	8.2	141	109	22	7.3	3.4
7	8.3	6.5	e5.1	e2.6	3.6	4.4	8.7	158	138	21	7.2	3.3
8	9.0	6.8	e5.0	e2.3	3.6	4.6	9.1	174	120	20	6.9	3.3
9	9.4	8.2	e4.9	e2.1	3.6	4.3	9.5	174	104	19	6.5	3.3
10	10	6.7	e4.9	e2.1	3.6	4.1	10	165	93	19	6.0	3.2
11	9.7	7.1	e4.9	e2.0	3.6	4.1	11	174	92	18	5.9	3.2
12	8.9	6.3	e4.8	e2.0	3.6	4.1	11	171	89	16	5.9	3.2
13	8.7	6.3	e4.8	e2.0	4.1	4.5	11	168	85	15	5.6	3.2
14	8.7	6.3	e4.7	e2.0	3.7	4.3	13	165	83	14	5.8	3.1
15	8.6	6.3	e4.7	e2.0	e3.6	4.7	16	168	77	14	5.7	3.0
16	8.3	6.3	e4.6	e2.0	3.6	4.5	23	193	69	14	5.4	3.0
17	8.3	6.3	e4.5	e2.0	e3.7	4.3	29	204	63	13	5.2	3.0
18	8.2	6.3	e4.3	e2.0	e3.7	4.6	36	206	58	13	5.0	3.0
19	9.2	6.2	e4.3	e2.0	e3.8	5.3	30	159	55	13	4.8	3.0
20	8.7	6.1	e4.2	e2.0	3.8	4.5	30	137	52	12	4.6	3.0
21	8.6	6.3	e4.1	e2.0	e3.8	5.3	33	118	49	13	4.6	2.9
22	8.5	5.5	e4.0	e2.0	e3.8	4.5	47	104	53	12	4.5	2.9
23	8.3	6.1	e3.9	e2.0	e3.7	4.3	64	95	45	11	4.3	2.9
24	8.3	5.9	e3.8	e2.1	e3.7	4.3	79	89	42	9.9	4.3	2.8
25	8.5	5.6	e3.7	e2.1	e3.7	4.3	100	90	40	9.3	4.4	2.8
26	8.5	6.8	e3.7	e2.2	e3.7	4.3	134	86	38	8.7	4.2	2.7
27	8.3	5.4	e3.6	e2.3	e3.7	4.3	166	89	36	8.5	4.0	2.7
28	8.1	5.3	e3.5	e2.3	e3.7	4.3	183	88	35	9.8	3.8	2.7
29	8.1	5.3	e3.4	e2.4	---	5.0	189	86	34	11	3.7	2.7
30	8.1	e5.4	e3.3	e2.6	---	4.6	187	87	32	9.4	3.6	2.7
31	7.8	---	e3.3	e2.7	---	4.4	---	91	---	8.3	3.6	---
TOTAL	260.2	190.9	138.1	72.9	103.5	134.2	1470.2	4138	2209	485.9	177.7	92.3
MEAN	8.39	6.36	4.45	2.35	3.70	4.33	49.0	133	73.6	15.7	5.73	3.08
MAX	10	8.2	5.4	3.3	4.4	5.3	189	206	138	29	10	3.6
MIN	7.3	5.3	3.3	2.0	2.9	3.6	4.8	86	32	8.3	3.6	2.7
AC-FT	516	379	274	145	205	266	2920	8210	4380	964	352	183

CAL YR 1986 TOTAL 21986.0 MEAN 60.2 MAX 660 MIN 3.3 AC-FT 43610
WTR YR 1987 TOTAL 9472.8 MEAN 26.0 MAX 206 MIN 2.0 AC-FT 18790

e Estimated.

HUMBOLDT RIVER BASIN

10317450 GANCE CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°17'45", long 115°57'16", in NW1/4SE1/4 sec.1, T.39 N., R.53 E., Elko County, Hydrologic Unit 16040102, on left bank 13 mi east of Tuscarora, and 37 mi north of Elko.

DRAINAGE AREA.--6.45 mi^2.

PERIOD OF RECORD.--October 1979 to April 1987 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,550 ft, from topographic map. Prior to July 24, 1984, at site 15 ft downstream at datum, 0.48 ft higher.

REMARKS.--Records good except for period, Dec. 16 to Apr. 13, which are fair.

AVERAGE DISCHARGE.--7 years (water years 1980-86), 6.78 ft^3/s, 4,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 168 ft^3/s, May 11, 1984, gage height, 3.17 ft; minimum daily, 1.2 ft^3/s, Aug. 2, 3, Aug. 23 to Sept. 4, Sept. 11, 1981, Oct. 4, 5, 15-18, 1982, at datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, October 1986 to April 1987, 14 ft^3/s, Apr. 10, gage height, 1.38 ft; minimum daily, 2.0 ft^3/s, Oct. 3-9, Dec. 10-13, Feb. 2-5, 18, 19, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	2.2	2.5	2.1	2.2	4.8	---	---	---	---	---
2	2.2	2.2	2.4	2.5	2.0	2.3	6.1	---	---	---	---	---
3	2.0	2.2	2.4	2.4	2.0	2.4	6.7	---	---	---	---	---
4	2.0	2.2	2.6	2.4	2.0	2.6	6.8	---	---	---	---	---
5	2.0	2.2	2.4	2.4	2.0	3.1	8.0	---	---	---	---	---
6	2.0	2.3	2.4	2.4	2.1	4.5	7.9	---	---	---	---	---
7	2.0	2.3	2.4	2.4	2.1	4.6	8.5	---	---	---	---	---
8	2.0	2.7	2.2	2.4	2.1	4.1	9.9	---	---	---	---	---
9	2.0	2.8	2.1	e2.3	2.1	3.9	9.8	---	---	---	---	---
10	2.1	2.8	2.0	2.2	2.2	3.7	12	---	---	---	---	---
11	2.3	2.8	2.0	2.3	2.2	3.5	11	---	---	---	---	---
12	2.5	2.9	2.0	2.3	2.2	3.5	10	---	---	---	---	---
13	2.6	2.6	2.0	2.3	2.5	3.8	9.4	---	---	---	---	---
14	2.6	2.6	2.1	2.3	2.2	3.3	---	---	---	---	---	---
15	2.8	2.6	2.1	2.3	2.2	3.3	---	---	---	---	---	---
16	2.8	2.6	2.1	2.2	2.1	3.0	---	---	---	---	---	---
17	2.8	2.4	2.0	2.2	2.1	3.1	---	---	---	---	---	---
18	2.8	2.4	2.1	2.2	2.1	3.1	---	---	---	---	---	---
19	2.9	2.4	2.2	2.2	2.0	2.9	---	---	---	---	---	---
20	2.8	2.4	2.2	2.2	2.0	2.9	---	---	---	---	---	---
21	2.6	2.6	2.3	2.3	2.1	2.9	---	---	---	---	---	---
22	2.6	2.3	2.3	2.3	2.1	2.8	---	---	---	---	---	---
23	2.4	2.4	2.3	2.3	2.1	2.9	---	---	---	---	---	---
24	2.4	2.4	2.3	2.4	2.1	2.9	---	---	---	---	---	---
25	2.4	2.4	2.3	2.4	2.1	3.1	---	---	---	---	---	---
26	2.4	2.3	2.3	2.3	2.0	3.3	---	---	---	---	---	---
27	2.4	2.4	2.3	2.4	2.1	3.3	---	---	---	---	---	---
28	2.4	2.4	2.2	2.4	2.1	3.2	---	---	---	---	---	---
29	2.4	2.3	2.3	2.3	---	3.3	---	---	---	---	---	---
30	2.7	2.1	2.4	2.2	---	3.4	---	---	---	---	---	---
31	2.4	---	2.3	2.2	---	3.9	---	---	---	---	---	---
TOTAL	74.6	73.2	69.2	71.9	59.0	100.8	---	---	---	---	---	---
MEAN	2.41	2.44	2.23	2.32	2.11	3.25	---	---	---	---	---	---
MAX	2.9	2.9	2.6	2.5	2.5	4.6	---	---	---	---	---	---
MIN	2.0	2.1	2.0	2.2	2.0	2.2	---	---	---	---	---	---
AC-FT	148	145	137	143	117	200	---	---	---	---	---	---

e Estimated.

HUMBOLDT RIVER BASIN

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'10", long 115°37'25", in SE1/4NE1/4 sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi southwest of Ryndon, 1.5 mi upstream from Jackson Creek, 5 mi downstream from North Fork, and 10 mi northeast of Elko.

DRAINAGE AREA.--2,800 mi^2, approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft, above National Geodetic Vertical Datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of 95,800 acres, above station.

AVERAGE DISCHARGE.--50 years (1896-1902, 1945-87), 266 ft^3/s, 192,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft^3/s, Mar. 4, 1983, gage height, 12.18 ft; no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 491 ft^3/s, May 28, gage height, 2.94 ft, minimum daily, 0.97 ft^3/s, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	63	e98	e72	e78	125	178	153	274	31	1.5	1.0
2	36	63	e100	e73	e78	130	178	161	237	29	1.5	.97
3	38	64	e102	e72	e77	149	175	160	202	27	1.5	1.1
4	40	66	e105	e66	e74	187	174	158	181	28	1.4	1.1
5	41	69	e107	e58	e72	227	185	143	162	26	1.4	1.1
6	41	72	e107	e50	e72	263	201	116	143	24	1.4	1.1
7	41	75	e103	e44	e73	306	203	82	139	21	1.4	1.2
8	41	74	e98	e42	e76	346	199	69	180	15	1.4	1.1
9	45	73	e90	e41	e82	361	195	66	291	11	1.4	1.2
10	42	74	e86	e40	e92	325	194	64	348	10	1.4	1.3
11	39	75	e83	e39	e98	299	191	61	296	9.1	1.3	1.4
12	39	76	e81	e39	e105	285	183	61	264	8.2	1.3	1.5
13	40	82	e79	e39	e108	272	171	64	219	7.0	1.3	1.4
14	41	87	e77	e39	e111	281	168	69	188	6.1	1.4	1.5
15	42	90	e76	e39	e113	288	163	78	172	5.7	1.3	1.7
16	44	90	e76	e40	e114	286	153	85	151	5.0	1.3	1.7
17	45	92	e75	e40	e114	279	148	111	129	4.9	1.3	1.8
18	47	90	e74	e40	e113	281	142	284	115	4.0	1.3	2.0
19	50	94	e73	e41	e112	291	142	381	102	3.5	1.3	2.0
20	54	105	e73	e41	e109	290	141	394	91	3.3	1.3	2.0
21	58	109	e73	e42	e103	269	143	435	81	3.0	1.3	2.1
22	59	108	e73	e43	e100	251	139	437	73	2.8	1.3	2.1
23	59	108	e72	e45	e98	234	132	376	67	2.6	1.3	2.0
24	59	100	e72	e46	e98	223	132	311	60	2.4	1.2	2.1
25	59	115	e71	e47	e103	220	133	300	55	2.2	1.3	2.1
26	59	112	e71	e50	e105	218	129	332	50	2.5	1.3	2.1
27	60	e102	e70	e55	e115	209	128	375	45	2.2	1.3	2.1
28	61	e99	e70	e63	e122	198	136	479	40	1.5	1.2	2.2
29	61	e97	e71	e70	---	184	135	460	36	1.4	1.1	2.2
30	61	e96	e71	e74	---	178	148	387	34	1.5	1.0	2.2
31	62	---	e72	e78	---	174	---	305	---	1.5	1.1	---
TOTAL	1497	2620	2549	1568	2715	7629	4839	6957	4425	302.4	40.8	49.37
MEAN	48.3	87.3	82.2	50.6	97.0	246	161	224	147	9.75	1.32	1.65
MAX	62	115	107	78	122	361	203	479	348	31	1.5	2.2
MIN	33	63	70	39	72	125	128	61	34	1.4	1.0	.97
AC-FT	2970	5200	5060	3110	5390	15130	9600	13800	8780	600	81	98

CAL YR 1986 TOTAL 168879.31 MEAN 463 MAX 6410 MIN 8.1 AC-FT 335000
WTR YR 1987 TOTAL 35191.33 MEAN 96.4 MAX 479 MIN .97 AC-FT 69800

e Estimated.

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°43'40", long 116°00'30", in SE1/4SE1/4 sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank 1.0 mi downstream from Tonka Creek, 5 mi upstream from Susie Creek, 5.5 mi east of Carlin, and 15 mi southwest of Elko.

DRAINAGE AREA.--4,310 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft, above National Geodetic Vertical Datum of 1929 (levels by Nevada State Highway Department).

REMARKS.--Records good except for period of estimated daily discharges, which are poor. Many diversions for irrigation of about 143,000 acres, above station.

AVERAGE DISCHARGE.--44 years, 396 ft^3/s, 286,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,250 ft^3/s, May 17, 1984, gage height, 10.04 ft; maximum gage height, 10.21 ft, Feb. 14, 1962; minimum, 0.1 ft^3/s, Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft^3/s, based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 748 ft^3/s, May 29, gage height, 3.38 ft; minimum daily, 1.2 ft^3/s, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	88	125	e80	e96	e184	211	332	485	58	17	10
2	62	89	122	e81	e98	e190	206	296	439	54	16	10
3	66	90	e120	e82	e104	e200	207	269	402	52	16	10
4	68	90	e118	e81	e120	e214	209	263	369	53	16	9.0
5	69	92	e114	e78	e140	e232	222	270	344	51	16	8.7
6	71	96	e110	e74	e154	e250	228	266	320	47	15	8.9
7	70	98	e106	e71	e165	e276	232	266	337	44	14	8.9
8	65	101	e102	e68	e177	e300	205	259	356	42	14	8.6
9	70	100	e100	e66	e187	e410	209	248	399	39	14	8.2
10	71	103	e98	e66	e196	e442	227	252	459	39	14	4.2
11	70	107	e94	e65	e204	e404	238	258	488	39	13	3.2
12	70	108	e92	e66	e212	e390	239	270	414	39	13	2.7
13	70	109	e90	e67	e220	e382	234	266	357	36	12	2.4
14	70	113	e88	e66	e230	e390	224	261	300	34	13	2.1
15	68	117	e88	e66	e240	e404	213	261	259	34	12	1.8
16	71	119	e86	e66	e274	e404	209	286	221	30	12	1.6
17	73	122	e86	e66	e258	e396	202	358	189	28	12	1.5
18	75	124	e86	e65	e222	e386	195	472	171	28	12	1.5
19	73	124	e85	e66	e200	e370	193	640	156	31	12	1.4
20	77	124	e82	e67	e196	e356	189	665	144	31	11	1.3
21	82	129	e81	e68	e200	e346	185	645	130	30	11	1.2
22	85	138	e80	e70	e204	e328	187	670	123	30	11	1.3
23	88	139	e79	e71	e206	e310	199	635	118	30	10	1.4
24	89	137	e78	e72	e198	e300	210	544	106	28	10	1.4
25	89	143	e77	e74	e192	275	216	486	96	26	11	1.3
26	89	142	e77	e76	e182	267	241	495	88	23	10	2.3
27	89	140	e76	e75	e178	253	276	591	78	21	11	4.5
28	84	145	e75	e76	e182	248	310	675	64	21	11	6.0
29	89	153	e74	e80	---	239	309	737	60	20	9.6	7.4
30	88	139	e75	e86	---	226	327	669	65	19	10	8.5
31	88	---	e77	e96	---	217	---	574	---	19	10	---
TOTAL	2348	3519	2841	2251	5235	9589	6752	13179	7537	1076	388.6	141.3
MEAN	75.7	117	91.6	72.6	187	309	225	425	251	34.7	12.5	4.71
MAX	89	153	125	96	274	442	327	737	488	58	17	10
MIN	59	88	74	65	96	184	185	248	60	19	9.6	1.2
AC-FT	4660	6980	5640	4460	10380	19020	13390	26140	14950	2130	771	280

CAL YR 1986 TOTAL 225683.0 MEAN 618 MAX 5110 MIN 13 AC-FT 447600
WTR YR 1987 TOTAL 54856.8 MEAN 150 MAX 737 MIN 1.2 AC-FT 108800

e Estimated.

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1949 to October 1951, November 1961 to March 1971, September 1971 to current year (published as Humboldt River at Carlin, sta. no. 10321000, October 1965 to September 1968).
CHEMICAL ANALYSES: October 1965 to September 1968, once daily (composited); April 1979 to September 1980, monthly; October 1980 to current year, every two months.
SPECIFIC CONDUCTANCES: October 1965 to September 1968, daily; May 1977 to September 1978, April 1979 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.
BIOLOGICAL DATA: May 1979 to September 1980, monthly (seasonal); October 1980 to September 1981, every two months (discontinued).
MICROBIOLOGICAL DATA: April 1979 to September 1980, monthly; October 1980 to current year, every two months.
WATER TEMPERATURES: August 1949 to October 1951, monthly (seasonal); November 1961 to March 1971, September 1971 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.
SEDIMENT DATA: May 1979 to September 1980, monthly; October 1980 to current year, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 677 microsiemens Dec. 21, 22, 1966; minimum, 193 microsiemens Feb. 16, 1982.
PHYTOPLANKTON: Maximum, 32,000 cells/mL Aug. 25, 1980; minimum, 150 cells/mL Mar. 27, 1980.
FECAL STREPTOCOCCI: Maximum, 1,700 colonies/100 mL Mar. 6, 1983, Jan. 22, 1986; minimum, 9 colonies/100 mL (non-ideal colony count) Mar. 27, 1980.
WATER TEMPERATURES: Maximum, 29.0°C July 26, 28, 29, 1968; minimum, freezing point on some days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,440 mg/L May 18, 1984; minimum, 10 mg/L Sept. 23, 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
25...	1345	152	486	8.30	6.0	4.0	9.7	11.6	102	K20	270	180
JAN												
28...	1240	74	480	8.30	3.5	0.5	3.2	11.8	97	K5	61	180
MAR												
24...	1250	300	588	8.60	7.5	7.5	33	10.5	102	K6	K56	210
JUN												
01...	1400	483	437	8.50	18.0	18.5	31	--	--	K40	190	160
AUG												
26...	1130	10	466	8.60	26.5	21.0	5.2	9.8	128	K24	--	170

K: NON-IDEAL COLONY COUNT.

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L 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 25...	51	12	39	1	6.0	235	1	194	32	16	0.40	29
JAN 28...	51	12	39	1	6.1	235	4	199	37	16	0.50	28
MAR 24...	57	16	55	2	7.4	268	3	225	60	27	0.60	33
JUN 01...	47	10	34	1	5.9	222	3	187	28	16	0.40	31
AUG 26...	45	14	41	1	8.6	235	5	201	30	21	0.80	24

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV 25...	302	300	0.41	<0.010	<0.100	0.010	<0.010	0.19	0.20	0.050	0.030	0.020
JAN 28...	301	310	0.41	<0.010	<0.100	0.020	<0.010	0.48	0.50	0.030	0.020	0.030
MAR 24...	394	390	0.54	<0.010	--	0.060	0.010	0.44	0.50	0.080	0.040	0.040
JUN 01...	282	290	0.38	<0.010	<0.100	0.110	0.020	1.1	1.2	0.110	0.070	0.040
AUG 26...	289	300	0.39	<0.010	<0.100	0.030	<0.010	--	<0.20	0.010	<0.010	<0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 25...	<10	7	90	<0.5	<1	<1	<3	1	79	<5	32	13
JAN 28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	10	8	100	<0.5	<1	<1	<3	1	19	<5	39	11
JUN 01...	10	3	82	<0.5	1	3	<3	8	27	<5	26	8
AUG 26...	<10	9	100	<0.5	<1	2	<3	2	4	<5	45	12

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 25...	<0.1	<10	1	<1	<1	360	<6	17	84	34	--
JAN 28...	--	--	--	--	--	--	--	--	58	12	--
MAR 24...	0.5	<10	2	<1	<1	370	<6	4	132	107	79
JUN 01...	<0.1	<10	<1	<1	<1	280	<6	12	--	--	--
AUG 26...	<0.1	<10	<1	<1	<1	490	<6	7	20	0.56	85

HUMBOLDT RIVER BASIN

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE1/4SE1/4 sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank 0.2 mi downstream from Southern Pacific Railroad bridge, 0.5 mi downstream from Palisade, and 0.8 mi upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi^2, approximately.

PERIOD OF RECORD.--October 1902 to October 1906, and 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, above 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 0.5 mi of present site at various datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation of 148,000 acres of hay and pastureland above station.

AVERAGE DISCHARGE.--80 years (1902-6, 1911-87), 405 ft^3/s, 293,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft^3/s, May 18, 1984, gage height, 10.08 ft; minimum, 2 ft^3/s, Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft, present datum, about Feb. 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft^3/s, from rating curve extended above 7,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 768 ft^3/s, May 29, gage height, 3.74 ft; minimum daily, 13 ft^3/s, Sept. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	116	169	e105	e105	202	267	349	538	70	26	17
2	85	115	155	e110	e115	219	258	317	497	64	25	17
3	87	116	e145	e112	e125	225	257	285	462	64	24	16
4	91	118	e135	e111	e140	236	260	267	420	61	24	16
5	93	119	e130	e105	e150	254	271	268	385	61	24	16
6	97	121	e125	e100	e170	298	277	259	355	57	24	16
7	96	127	e120	e95	208	341	280	215	364	54	24	16
8	91	130	e115	e92	216	395	263	260	392	51	23	16
9	91	132	e112	e89	213	438	254	250	415	48	23	16
10	94	131	e109	e87	215	449	263	247	465	46	23	16
11	93	134	e107	e86	215	433	285	256	501	46	23	15
12	91	135	e106	e85	221	403	286	263	460	47	22	16
13	93	138	e105	e84	247	393	284	273	393	46	22	16
14	94	139	e105	e83	294	384	274	262	337	43	22	16
15	93	144	e103	e83	295	409	261	264	283	45	21	16
16	94	147	e103	e83	292	418	252	299	248	41	21	15
17	96	150	e102	e83	281	407	246	353	209	38	21	15
18	101	150	e102	e83	275	412	234	462	190	37	20	15
19	104	151	e101	e83	253	410	235	630	180	38	20	15
20	105	149	e101	e83	206	414	232	724	165	39	19	15
21	110	153	e100	e83	215	403	230	678	148	42	19	14
22	115	162	e100	e84	213	394	225	692	138	41	19	14
23	117	167	e100	e85	230	375	230	679	132	39	19	14
24	119	163	e100	e87	237	362	241	600	127	38	18	14
25	120	164	e101	e88	220	340	241	539	115	35	18	13
26	119	171	e102	e90	205	327	258	537	105	33	18	13
27	120	165	e102	e91	205	312	284	603	95	31	18	13
28	117	168	e103	e92	184	304	327	692	82	31	17	13
29	116	178	e103	e93	---	296	331	757	73	30	17	14
30	120	165	e104	e96	---	285	341	717	72	29	17	14
31	116	---	e105	e100	---	275	---	631	---	27	17	---
TOTAL	3156	4318	3470	2831	5945	10813	7947	13628	8346	1372	648	452
MEAN	102	144	112	91.3	212	349	265	440	278	44.3	20.9	15.1
MAX	120	178	169	112	295	449	341	757	538	70	26	17
MIN	78	115	100	83	105	202	225	215	72	27	17	13
AC-FT	6260	8560	6880	5620	11790	21450	15760	27030	16550	2720	1290	897

CAL YR 1986 TOTAL 265814 MEAN 728 MAX 5870 MIN 23 AC-FT 527200
WTR YR 1987 TOTAL 62926 MEAN 172 MAX 757 MIN 13 AC-FT 124800

e Estimated.

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW1/4SE1/4 sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, on left bank at mouth of canyon, and 22 mi northeast of Battle Mountain.

DRAINAGE AREA.--875 mi^2, approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft, estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946; at datum 9.45 ft higher Jan. 4, 1946; to July 23, 1964; at datum 7.35 ft higher July 23, 1964, to Oct. 31, 1968; and at datum 6.34 ft higher Nov. 1, 1968, to Oct. 28, 1970.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions for irrigation of 4,380 acres, in valleys upstream. Station is above all diversions in Boulder Flat and below tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft.

AVERAGE DISCHARGE.--47 years (1919-23, 1946-87), 41.9 ft^3/s, 30,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s, Feb. 11, 1962, gage height, 6.89 ft, from rating curve extended above 2,500 ft^3/s on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 29	0500	*86	*2.90				

Minimum daily, 0.12 ft^3/s, Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	6.3	5.3	e5.4	e7.3	e14	23	2.0	44	2.1	.23	.31
2	5.8	6.2	5.6	e5.3	e7.7	e15	31	1.9	34	1.9	.21	.32
3	5.4	6.4	e7.1	e5.2	e9.6	e15	46	1.8	25	2.0	.21	.32
4	5.1	6.4	e6.8	e4.9	22	18	57	1.7	19	1.9	.19	.33
5	5.0	6.3	e6.7	e4.7	22	18	52	1.6	10	1.2	.19	.34
6	4.3	6.4	e6.6	e4.4	21	25	47	1.4	8.2	.85	.16	.38
7	3.2	6.0	e6.4	e4.3	19	31	43	1.3	7.4	.69	.14	.43
8	5.0	7.1	e6.1	e4.2	19	36	39	1.2	5.6	.56	.13	.45
9	5.8	7.1	e5.9	e4.1	12	36	27	1.3	5.3	.48	.12	.44
10	5.8	7.3	e5.7	e4.0	14	30	24	1.6	5.7	.45	.14	.43
11	5.6	5.9	e5.7	e3.9	15	25	22	1.4	12	.48	.16	.45
12	5.6	6.2	e5.7	e3.8	13	22	21	1.3	11	.49	.17	.45
13	5.6	6.5	e5.7	e3.8	17	22	21	1.3	9.2	.44	.17	.45
14	5.8	6.6	e5.7	e3.7	25	23	23	1.2	7.1	.36	.18	.44
15	5.9	6.3	e5.6	e3.7	33	30	21	1.2	5.8	.31	.22	.46
16	5.9	6.3	e5.6	e3.7	28	27	18	4.0	5.2	.29	.27	.46
17	5.9	6.4	e5.6	e3.7	23	24	15	5.4	4.7	.27	.29	.49
18	5.8	5.9	e5.6	e3.8	18	25	13	6.6	4.4	.28	.29	.53
19	6.0	6.6	e5.5	e3.9	14	32	13	36	4.0	.32	.29	.57
20	6.2	6.0	e5.5	e4.1	30	34	11	41	3.6	.41	.27	.60
21	6.5	6.6	e5.5	e4.2	16	30	11	30	3.3	.47	.27	.61
22	6.6	5.7	e5.5	e4.4	17	27	7.8	25	3.1	.48	.28	.63
23	6.5	5.8	e5.5	e4.7	e13	22	5.4	19	3.0	.47	.27	.63
24	6.5	6.3	e5.5	e5.0	e13	22	4.3	18	2.8	.42	.27	.67
25	6.4	6.8	e5.6	e5.2	e13	21	3.5	21	2.6	.35	.28	.66
26	6.3	5.4	e5.6	e5.6	e14	18	3.1	29	2.4	.32	.29	.65
27	6.4	6.0	e5.6	e5.9	e14	18	2.6	45	2.3	.29	.32	.65
28	6.4	6.6	e5.6	e6.2	e14	21	2.3	52	2.2	.28	.35	.71
29	6.5	6.2	e5.6	e6.6	---	23	2.3	70	2.1	.28	.34	.74
30	6.3	6.1	e5.6	e6.8	---	20	2.3	56	2.5	.29	.33	.76
31	6.4	---	e5.5	e7.1	---	21	---	53	---	.25	.31	---
TOTAL	180.4	189.7	179.5	146.3	483.6	745	611.6	533.2	257.5	19.68	7.34	15.36
MEAN	5.82	6.32	5.79	4.72	17.3	24.0	20.4	17.2	8.58	.63	.24	.51
MAX	6.6	7.3	7.1	7.1	33	36	57	70	44	2.1	.35	.76
MIN	3.2	5.4	5.3	3.7	7.3	14	2.3	1.2	2.1	.25	.12	.31
AC-FT	358	376	356	290	959	1480	1210	1060	511	39	15	30

CAL YR 1986 TOTAL 27981.5 MEAN 76.7 MAX 1830 MIN 3.0 AC-FT 55500
WTR YR 1987 TOTAL 3369.18 MEAN 9.23 MAX 70 MIN .12 AC-FT 6680

e Estimated.

HUMBOLDT RIVER BASIN

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°59'33", long 117°19'00", in SE1/4 sec.14, T.36 N., R.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank at Comus siding of Southern Pacific Railrooad, 1.0 mi upstream from Kelly Creek, 9 mi northeast of Golconda, and 32 mi northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi^2, approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft, above National Geodetic Vertical Datum of 1929 (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 mi downstream at different datums. Sept. 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi of present site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions above station for irrigation, 206,000 acres, additional acreage not covered by decree.

AVERAGE DISCHARGE.--73 years, 339 ft^3/s, 245,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft^3/s, Apr. 24, 1984, gage height, 12.25 ft, no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft^3/s, June 2, gage height, 5.57 ft; minimum daily, 0.12 ft^3/s, Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	53	102	70	94	197	271	189	440	60	.65	.19
2	.50	52	e92	81	96	188	263	208	469	59	.56	.19
3	.46	56	e100	80	106	190	258	203	473	58	.64	.19
4	.44	58	114	e76	125	199	250	225	445	73	.55	.19
5	.43	61	128	e72	135	202	243	249	421	67	.57	.22
6	.40	67	149	e68	145	210	239	226	418	52	.50	.19
7	.44	71	139	e64	141	214	237	205	429	45	.47	.19
8	19	74	137	e62	148	226	236	204	401	41	.37	.19
9	24	77	137	e60	158	248	235	202	376	36	.37	.18
10	27	80	120	e59	176	266	239	183	363	30	.31	.17
11	28	82	97	e59	193	290	238	194	357	25	.26	.17
12	30	87	82	e60	205	322	226	196	352	26	.32	.21
13	30	92	85	62	214	335	220	188	364	24	.33	.21
14	31	94	86	65	222	331	228	186	356	20	.34	.19
15	33	96	e88	65	209	322	204	184	348	17	.32	.19
16	35	100	e89	e66	204	324	215	197	331	15	.28	.19
17	36	100	e90	e66	222	327	205	213	302	13	.25	.19
18	37	102	92	e66	224	342	198	257	261	12	.25	.19
19	38	105	e90	e66	228	347	193	283	240	12	.26	.22
20	38	105	e90	67	231	346	177	279	222	12	.23	.25
21	39	109	e90	74	228	354	174	333	195	12	.23	.27
22	40	108	e90	79	218	348	170	390	171	11	.14	.27
23	41	110	e89	81	207	353	173	382	158	11	.13	.31
24	43	113	e87	81	200	350	172	374	148	11	.12	.29
25	44	115	e87	83	190	342	163	375	133	10	.14	.27
26	46	116	e84	85	198	327	161	392	114	7.8	.15	.29
27	46	122	e82	87	209	317	160	421	93	5.2	.15	.32
28	47	122	e80	88	208	305	157	446	78	4.2	.15	.28
29	47	125	e78	90	---	297	200	435	71	2.2	.15	.28
30	50	125	e76	95	---	288	180	428	64	1.6	.17	.29
31	55	---	e73	95	---	279	---	434	---	.87	.19	---
TOTAL	907.16	2777	3023	2272	5134	8986	6285	8681	8593	773.87	9.55	6.78
MEAN	29.3	92.6	97.5	73.3	183	290	209	280	286	25.0	.31	.23
MAX	55	125	149	95	231	354	271	446	473	73	.65	.32
MIN	.40	52	73	59	94	188	157	183	64	.87	.12	.17
AC-FT	1800	5510	6000	4510	10180	17820	12470	17220	17040	1530	19	13

CAL YR 1986 TOTAL 226403.78 MEAN 620 MAX 3030 MIN .40 AC-FT 449100
WTR YR 1987 TOTAL 47448.12 MEAN 130 MAX 473 MIN .12 AC-FT 94110

e Estimated.

HUMBOLDT RIVER BASIN

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW1/4SE1/4 sec.20, T.42 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank 3.5 mi downstream from Bull Head Ranch, and 9.5 mi southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi^2, 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. Elevation of gage is 4,470 ft, from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft upstream at datum 2.21 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft, 10 mi upstream, since 1974. Diversions for irrigation of 4,450 acres, Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley.

AVERAGE DISCHARGE.--49 years (1921-23, 1924-27, 1943-87), 26.3 ft^3/s, 19,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s, Jan. 21, 1969, gage height, 8.40 ft; minimum, 0.46 ft^3/s, Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80 ft^3/s, Apr. 23, gage height, 1.17 ft; minimum daily, 8.1 ft^3/s, Aug. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	9.9	11	10	12	9.6	50	41	36	10	8.2
2	12	12	10	11	10	10	9.4	46	41	35	10	8.2
3	11	12	10	11	11	10	9.8	44	41	36	9.7	8.2
4	11	12	10	11	10	11	22	43	40	36	9.4	8.3
5	11	12	11	11	9.8	11	29	44	40	35	9.0	8.4
6	11	12	11	11	9.8	12	27	44	40	35	8.9	8.4
7	11	12	11	11	9.8	12	28	43	42	35	8.7	8.4
8	10	12	11	11	9.8	11	27	42	41	35	8.6	8.4
9	10	13	11	11	10	11	25	43	41	35	8.3	8.4
10	9.9	13	10	11	10	11	31	42	40	35	8.2	8.4
11	9.6	12	10	11	10	11	37	42	39	35	8.1	8.4
12	9.5	12	10	10	10	11	47	42	39	35	8.1	8.4
13	9.5	12	11	10	12	11	51	41	39	35	20	8.4
14	9.6	13	11	10	12	11	53	41	38	35	29	8.4
15	9.6	12	11	10	11	11	53	40	38	34	31	13
16	11	13	10	9.6	11	10	53	43	38	26	31	19
17	12	13	10	9.3	11	11	55	45	38	26	31	19
18	12	12	10	9.2	11	11	56	44	38	26	31	24
19	11	13	10	9.2	10	11	56	42	38	26	31	24
20	10	13	10	9.0	10	11	58	42	37	26	31	24
21	10	12	10	8.8	10	11	59	41	37	26	31	24
22	12	12	10	8.8	10	11	66	41	37	26	31	24
23	10	12	10	8.8	11	11	71	41	37	26	32	24
24	10	11	10	9.3	10	11	67	41	37	26	32	24
25	13	11	10	11	10	10	66	44	37	26	31	24
26	11	11	10	9.8	10	10	65	48	37	26	11	24
27	11	11	11	9.7	10	10	64	48	37	26	8.7	24
28	11	11	10	10	10	9.6	65	44	37	16	8.4	24
29	11	11	10	10	---	9.4	61	43	36	12	8.3	13
30	15	10	10	10	---	9.6	53	42	36	11	8.3	9.1
31	12	---	10	10	---	9.6	---	42	---	11	8.2	---
TOTAL	339.7	360	318.9	313.5	289.2	332.2	1373.8	1338	1157	889	551.9	454.0
MEAN	11.0	12.0	10.3	10.1	10.3	10.7	45.8	43.2	38.6	28.7	17.8	15.1
MAX	15	13	11	11	12	12	71	50	42	36	32	24
MIN	9.5	10	9.9	8.8	9.8	9.4	9.4	40	36	11	8.1	8.2
AC-FT	674	714	633	622	574	659	2720	2650	2290	1760	1090	901

CAL YR 1986 TOTAL 10693.6 MEAN 29.3 MAX 92 MIN 9.5 AC-FT 21210
WTR YR 1987 TOTAL 7717.2 MEAN 21.1 MAX 71 MIN 8.1 AC-FT 15310

HUMBOLDT RIVER BASIN

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in SE1/4NW1/4 (revised) sec.12, T.42 N., R.40 E., Humboldt County Hydrologic Unit 16040109, on left bank 0.6 mi upstream from Humboldt County Recreation Park, and 7 mi northeast of Paradise Valley.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft, from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft of present site at different datums.

REMARKS.--Records good. Diversion for irrigation of 40 acres, above station.

AVERAGE DISCHARGE.--66 years, 34.6 ft^3/s, 25,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft^3/s, Jan. 21, 1943, gage height, 11.1 ft, site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft^3/s, Feb. 6, 1945.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 26	2000	*118	*1.48				

Minimum daily, 4.7 ft^3/s, Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	8.6	10	11	11	18	53	55	8.7	4.9	5.2
2	10	11	9.8	11	11	11	21	45	50	9.1	5.1	5.2
3	9.9	11	11	10	11	11	28	40	46	9.0	5.0	5.4
4	9.9	11	11	12	10	14	29	39	41	8.3	4.9	5.7
5	9.9	11	11	11	9.9	19	27	39	38	7.9	4.8	5.9
6	10	11	11	11	9.8	46	27	42	35	7.4	4.8	5.9
7	10	12	11	8.6	10	42	29	43	38	7.2	4.7	5.8
8	11	11	8.6	7.2	10	31	31	42	39	6.9	4.9	5.8
9	11	11	7.9	e7.4	10	24	30	45	36	6.8	4.9	6.0
10	11	11	7.0	7.7	11	22	30	47	31	6.8	4.8	5.7
11	11	11	8.5	8.6	11	19	34	44	28	7.1	4.9	5.6
12	11	11	9.8	8.9	10	20	31	40	25	6.7	4.9	5.5
13	11	12	10	10	15	22	29	38	22	6.2	5.1	5.6
14	11	12	11	10	20	21	30	36	21	5.7	5.8	5.7
15	11	11	9.4	9.4	15	19	31	35	20	5.4	7.3	5.7
16	11	11	8.5	8.6	12	18	35	51	21	5.7	6.3	6.0
17	11	11	9.1	7.5	12	17	38	63	20	5.9	6.0	6.3
18	11	11	8.0	7.3	12	19	37	67	18	6.5	6.1	6.3
19	11	11	10	8.5	10	18	32	52	17	7.0	5.7	6.1
20	11	11	10	9.6	9.9	15	28	46	16	7.0	5.8	6.1
21	11	11	10	9.6	9.9	16	27	42	15	6.8	5.9	6.1
22	11	12	8.3	9.0	9.7	16	29	38	14	6.7	5.8	6.0
23	11	11	10	9.5	11	16	33	36	13	6.5	5.7	6.1
24	11	12	9.1	9.9	10	15	32	34	12	6.1	5.5	6.1
25	11	11	11	11	9.1	14	35	39	11	5.7	5.5	6.1
26	11	9.9	10	11	9.5	15	36	68	10	5.4	5.5	6.2
27	11	11	11	11	9.8	14	42	96	9.7	5.2	5.5	6.4
28	11	11	7.9	11	10	15	48	81	10	5.0	5.4	6.6
29	11	11	7.7	11	---	14	57	71	9.0	5.1	5.4	6.5
30	11	8.7	8.8	11	---	15	63	67	9.2	4.9	5.5	6.4
31	12	---	8.8	10	---	16	---	61	---	4.9	5.2	---
TOTAL	334.7	332.6	293.8	298.3	309.6	585	997	1540	729.9	203.6	167.6	178.0
MEAN	10.8	11.1	9.48	9.62	11.1	18.9	33.2	49.7	24.3	6.57	5.41	5.93
MAX	12	12	11	12	20	46	63	96	55	9.1	7.3	6.6
MIN	9.9	8.7	7.0	7.2	9.1	11	18	34	9.0	4.9	4.7	5.2
AC-FT	664	660	583	592	614	1160	1980	3050	1450	404	332	353

CAL YR 1986 TOTAL 27496.9 MEAN 75.3 MAX 1900 MIN 4.3 AC-FT 54540
WTR YR 1987 TOTAL 5970.1 MEAN 16.4 MAX 96 MIN 4.7 AC-FT 11840

e Estimated.

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW1/4SE1/4 sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank 1 mi upstream from Callahan bridge, and 4 mi northwest of Imlay.

DRAINAGE AREA.--15,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,130 ft, from Geological Survey vertical-angle bench mark. Prior to Apr. 28, 1945, at site 1 mi downstream at different datum. Apr. 28, 1945, to Aug. 20, 1947, at present site at datum 1 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Humboldt-Lovelock Irrigation, Light and Power Co.'s feeder canal diverts water at times from river above station to Pitt-Taylor Reservoirs. Flow affected by many diversions above station for irrigation.

AVERAGE DISCHARGE.--48 years, 279 ft^3/s, 202,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft^3/s, May 27, 1984, gage height, 13.20 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 328 ft^3/s, June 19, gage height, 4.34 ft; minimum daily, 12 ft^3/s, Sept. 25-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	63	109	108	130	193	300	59	240	162	47	15
2	38	64	114	130	135	194	277	55	239	151	45	15
3	40	65	113	134	136	203	251	55	235	141	43	15
4	40	65	124	135	140	207	227	54	248	132	41	15
5	38	68	116	127	117	201	218	54	250	125	40	14
6	37	69	109	124	110	206	221	54	215	119	38	14
7	37	71	109	106	113	208	235	61	212	114	36	14
8	36	70	109	85	118	216	228	68	244	111	34	14
9	36	74	127	72	125	224	214	90	266	117	31	14
10	36	74	117	85	130	227	215	101	274	116	29	14
11	35	75	81	118	135	231	227	103	292	110	28	14
12	36	77	e83	110	140	227	205	106	295	105	26	14
13	36	78	e84	e104	159	243	172	162	288	100	25	14
14	37	79	e86	e98	159	267	155	167	283	96	24	13
15	40	81	e88	92	169	296	141	154	276	91	23	13
16	43	83	e88	92	181	301	132	155	289	87	23	13
17	45	85	e87	91	186	309	139	171	306	87	22	13
18	47	87	87	e94	189	317	144	196	321	82	21	13
19	48	88	e88	e96	186	319	130	182	324	73	20	13
20	50	90	e92	e100	193	282	122	177	308	72	20	13
21	52	92	e97	104	198	291	120	178	269	71	19	13
22	53	92	e101	107	202	306	117	177	252	70	18	13
23	55	94	102	114	208	311	104	150	242	70	18	13
24	56	96	102	115	215	320	82	114	230	68	17	13
25	57	97	106	114	226	289	70	111	241	65	17	12
26	59	97	e100	117	208	270	62	153	237	61	16	12
27	60	99	e97	120	204	294	56	173	223	58	15	12
28	60	100	e96	125	199	305	54	184	220	55	15	12
29	62	102	e95	126	---	308	58	207	192	53	15	12
30	63	98	95	126	---	305	59	234	176	51	15	12
31	63	---	98	132	---	303	---	242	---	49	15	---
TOTAL	1432	2473	3100	3401	4611	8173	4735	4147	7687	2862	796	401
MEAN	46.2	82.4	100	110	165	264	158	134	256	92.3	25.7	13.4
MAX	63	102	127	135	226	320	300	242	324	162	47	15
MIN	35	63	81	72	110	193	54	54	176	49	15	12
AC-FT	2840	4910	6150	6750	9150	16210	9390	8230	15250	5680	1580	795

CAL YR 1986 TOTAL 196345 MEAN 538 MAX 2420 MIN 22 AC-FT 389500
WTR YR 1987 TOTAL 43818 MEAN 120 MAX 324 MIN 12 AC-FT 86910

e Estimated.

HUMBOLDT RIVER BASIN

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION--Lat 40°28'15", long 118°18'30", in NW1/4NE1/4 sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2, approximately.

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is National Geodetic Vertical Datum of 1929 (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft between elevations, 4,072.5 ft, sill of trashrack structure, and 4,136.0 ft, top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft. Figures given herein represent usable contents and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft, Apr. 9, 1946, elevation, 4,134.62 ft, capacity table then in use; maximum elevation, 4,135.9 ft, July 27 to Aug. 3, 1983, and July 11-15, 1984; no contents, Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 162,600 acre-ft, Mar. 28 to Apr. 4, elevation, 4,133.4 ft; minimum, 68,520 acre-ft, Sept. 30, elevation, 4,122.8 ft.

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

4,122	63,800	4,129	113,900
4,123	69,700	4,131	133,200
4,125	82,700	4,133	157,200
4,127	97,300	4,134	170,750

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136500	127200	127200	133200	138700	149400	162600	136500	134300	124200	106200	82030
2	136500	126200	128200	133200	138700	149400	162600	136500	134300	123200	105300	82030
3	136500	126200	128200	133200	139800	149400	162600	135400	134300	122300	104500	81360
4	135400	126200	128200	133200	139800	150700	162600	135400	134300	121300	102900	81360
5	135400	126200	128200	133200	139800	150700	161300	134300	134300	120400	102100	80690
6	135400	126200	128200	134300	139800	152000	161300	134300	133200	119500	101300	80690
7	135400	126200	129200	134300	140900	152000	159900	133200	133200	118600	100500	80020
8	135400	126200	129200	134300	140900	153300	159900	133200	133200	117600	99700	79350
9	134300	126200	129200	134300	140900	153300	158600	132200	133200	116700	98900	78680
10	134300	126200	129200	135400	140900	153300	158600	132200	133200	115800	98100	78010
11	134300	126200	129200	135400	140900	153300	157200	131200	133200	114800	97300	77340
12	133200	126200	129200	135400	142000	154600	157200	131200	133200	114800	96550	76670
13	133200	126200	129200	135400	142000	154600	155900	131200	133200	113900	95800	76000
14	133200	126200	130200	135400	142000	154600	155900	130200	133200	113900	95050	75370
15	132200	126200	130200	136500	143100	155900	154600	130200	133200	113900	93550	74110
16	132200	126200	130200	136500	143100	157200	154600	130200	133200	113000	92800	73480
17	131200	126200	130200	136500	143100	157200	153300	130200	132200	113000	92000	72850
18	131200	126200	130200	136500	144200	157200	153300	131200	132200	113000	91300	72220
19	130200	126200	130200	136500	144200	157200	150700	131200	132200	112200	90550	71590
20	130200	126200	131200	136500	144200	158600	148100	131200	132200	112200	89800	71590
21	130200	126200	131200	136500	145500	158600	146800	131200	132200	111300	89090	70960
22	130200	126200	131200	136500	145500	158600	145500	131200	132200	111300	88380	70960
23	129200	126200	131200	137600	145500	158600	144200	131200	131200	110500	87670	70960
24	129200	126200	131200	137600	146800	159900	143100	132200	131200	109600	86960	70330
25	129200	126200	132200	137600	146800	159900	142000	132200	130200	109600	86250	70330
26	128200	126200	132200	137600	148100	161300	140900	132200	129200	108700	85540	69700
27	128200	126200	131200	137600	148100	161300	138700	133200	128200	107900	84830	69110
28	128200	127200	131200	137600	148100	162600	138700	133200	127200	107900	84120	69110
29	128200	127200	133200	137600	---	162600	137600	133200	126200	107900	83410	68520
30	127200	127200	133200	137600	---	162600	137600	134300	125200	107000	82700	68520
31	127200	---	133200	138700	---	162600	---	134300	---	107000	82700	---
MAX	136500	127200	133200	138700	148100	162600	162600	136500	134300	124200	106200	82030
MIN	127200	126200	127200	133200	138700	149400	137600	130200	125200	107000	82700	68520
#	4130.4	4130.4	4131.0	4131.5	4132.3	4133.4	4131.4	4131.1	4130.2	4128.2	4125.0	4122.8
##	-9300	0	+6000	+5500	+9400	+14500	-25000	-3300	-9100	-18200	-24300	-14180

CAL YR 1986 MAX 187200 MIN 118600 ## 15600
WTR YR 1987 MAX 162600 MIN 68520 ## -67980

\# Elevation, in feet NGVD, at end of month.
Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'00", long 118°18'20", in SE1/4NE1/4 sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank 1,000 ft downstream from Rye Patch Dam, and 1.5 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1975, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft, above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow completely regulated by Rye Patch Reservoir, capacity 194,300 acre-ft since June 1976. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--73 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-87), 248 ft^3/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft^3/s, May 28, 1984, gage height, 13.65 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 850 ft^3/s, Apr. 26, gage height, 3.25 ft; minimum daily, 0.60 ft^3/s, May 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	94	2.2	1.5	2.0	1.3	204	458	115	620	438	237
2	95	54	1.6	1.2	2.6	1.2	281	363	234	480	414	201
3	111	9.1	1.6	1.8	2.3	1.2	313	317	303	450	414	179
4	133	6.1	1.6	1.7	1.5	1.2	345	290	374	419	414	210
5	151	5.9	1.3	1.5	1.3	1.2	323	219	349	424	413	209
6	178	5.2	.62	1.1	1.2	1.0	368	197	272	411	413	199
7	210	44	.71	.72	1.2	1.0	398	216	294	416	434	252
8	242	96	1.0	.86	1.2	1.9	409	229	287	424	419	281
9	265	122	.94	1.2	1.2	1.2	438	259	256	362	432	317
10	288	121	1.1	1.2	1.2	1.2	413	313	202	315	375	336
11	228	143	1.2	1.2	1.2	1.2	418	281	180	278	404	287
12	159	114	.87	1.6	1.3	1.2	452	365	242	279	473	260
13	176	51	1.2	2.0	1.6	1.5	414	379	286	306	460	259
14	144	7.1	1.2	2.0	1.0	35	423	375	264	302	470	287
15	149	4.6	1.5	2.0	.73	80	482	438	300	277	450	358
16	214	4.2	1.2	2.9	.83	77	534	500	324	245	477	311
17	263	2.6	2.0	2.0	.85	88	546	371	291	184	488	274
18	e271	2.0	1.2	2.0	.83	148	516	214	273	175	430	175
19	e252	1.8	.75	2.0	.91	178	522	136	353	146	440	147
20	e202	1.5	1.1	2.3	.83	163	542	124	332	143	412	177
21	e171	1.6	1.2	2.8	.83	120	573	128	309	209	351	188
22	e171	1.1	1.5	2.8	.83	95	559	134	341	231	352	202
23	e171	1.4	.95	2.8	1.2	74	624	160	365	261	420	212
24	e171	1.6	1.4	2.8	1.2	12	655	121	461	295	415	188
25	e171	1.2	1.6	2.8	1.4	33	599	132	520	295	327	160
26	e171	1.4	2.0	2.8	1.5	66	757	127	570	297	265	135
27	e171	1.3	1.8	2.8	1.6	100	704	100	664	270	227	128
28	e211	1.4	1.7	2.5	1.7	108	620	42	665	272	239	145
29	e211	1.4	2.0	2.0	---	107	587	2.5	603	307	242	167
30	194	1.6	2.0	2.0	---	126	495	.60	606	342	255	200
31	118	---	2.0	2.0	---	160	---	36	---	459	262	---
TOTAL	5757	903.1	43.04	60.88	36.04	1786.3	14514	7027.10	10635	9894	12025	6681
MEAN	186	30.1	1.39	1.96	1.29	57.6	484	227	354	319	388	223
MAX	288	143	2.2	2.9	2.6	178	757	500	665	620	488	358
MIN	95	1.1	.62	.72	.73	1.0	204	.60	115	143	227	128
AC-FT	11420	1790	85	121	71	3540	28790	13940	21090	19620	23850	13250

CAL YR 1986 TOTAL 167810.87 MEAN 460 MAX 1740 MIN .62 AC-FT 332900
WTR YR 1987 TOTAL 69362.46 MEAN 190 MAX 757 MIN .60 AC-FT 137600

e Estimated.

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE1/4NW1/4 sec.3 T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi north of the Pyramid, 1.6 mi northeast of Anaho Island, and 13 mi northwest of Nixon.

DRAINAGE AREA.--2,730 mi^2.

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, above 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 Lake Office using elevation of 3,882.26 ft, adjustment of 1912; to convert these records to present datum, add 0.81 ft. January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevations of 3,940.04 ft, datum of 1929; to convert these records to present datum, add 0.25 ft. October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir (station 10312100). Elevations are given to the nearest 0.1 ft and contents to four significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published in WSP 1314 for 1867 and 1871 (3,875.9 and 3,884.9 ft, respectively) have been revised to 3,867 and 3,876 ft, respectively, on the basis the data and conclusions of Hardman and Venstrom (American Geophysical Union Transactions, 1941, p. 71-90), and Harding (University of California Archives Report 16, 1965).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,877.9 ft in 1891 (see REMARKS paragraph); minimum observed, 3,738.9 ft, Feb. 6, and Mar. 6, 1967.

MONTHEND ELEVATION AND TOTAL CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,815.6	23,500,000	--
Oct. 31	3,815.4	23,470,000	-30,000
Nov. 30	3,815.3	23,460,000	-10,000
Dec. 31	3,815.0	23,430,000	-30,000
CAL YR 1986	--	--	+580,000
Jan. 31	3,814.8	23,410,000	-20,000
Feb. 28	3,814.8	23,410,000	--
Mar. 31	3,814.9	23,420,000	+10,000
Apr. 30	3,815.0	23,430,000	+10,000
May 31	3,815.4	23,470,000	+40,000
June 30	3,815.3	23,460,000	-10,000
July 31	3,814.8	23,400,000	-60,000
Aug. 31	3,814.3	23,340,000	-60,000
Sept. 30	3,813.8	23,290,000	-50,000
WTR YR 1987	--	--	-210,000

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'26", long 119°56'41", in SW1/4NE1/4 sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.05 mi^2.

PERIOD OF RECORD.--October 1969 to September 1973, February to September 1975, October 1977 to current year.

REVISED RECORDS.--WDR NV-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,234.03 ft, above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges and discharges above 10 ft^3/s, which are poor. One transmountain diversion to Washoe Valley.

AVERAGE DISCHARGE.--14 years (1970-73, 1978-87), 8.90 ft^3/s, 6,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s, June 18, 1982, gage height, 3.40 ft; maximum gage height, 3.77 ft, Jan. 23, 1973, backwater from ice; minimum discharge, 0.66 ft^3/s, Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 29	1715	28	2.56	May 15	1545	*31	*2.60

Minimum daily, 2.1 ft^3/s, Aug. 6-10, 15, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.1	e3.9	4.4	4.0	3.6	6.0	12	5.0	2.9	2.3	2.4
2	5.0	4.1	e4.1	4.5	4.1	4.3	6.2	11	4.7	2.8	2.2	2.4
3	4.5	3.6	4.6	4.5	4.2	4.6	6.1	12	4.6	2.8	2.2	2.3
4	4.6	3.6	4.3	6.2	e4.3	4.8	5.5	12	4.6	2.7	2.2	2.4
5	5.1	3.5	4.3	e5.1	4.5	5.3	5.4	12	4.5	2.7	2.2	2.4
6	5.2	3.5	4.3	e5.1	4.7	5.8	5.6	12	4.6	2.7	2.1	2.4
7	4.9	3.3	4.2	e4.9	4.7	5.5	6.0	11	5.0	2.7	2.1	2.5
8	4.6	3.7	e4.0	e4.7	4.4	5.3	6.4	11	4.6	2.8	2.1	2.5
9	4.4	3.7	e4.1	e4.7	4.4	5.0	7.1	9.8	4.4	2.7	2.1	2.5
10	4.2	3.8	e4.3	e4.7	4.4	4.8	7.4	9.4	4.3	2.7	2.1	2.5
11	4.5	3.8	4.3	4.7	4.7	4.8	7.4	9.7	4.1	2.7	2.3	2.6
12	4.9	3.7	4.3	e4.7	4.9	4.9	7.2	9.5	3.8	2.7	2.3	2.5
13	5.4	3.7	4.2	5.0	6.3	5.5	7.8	11	3.8	2.6	2.2	2.6
14	4.4	3.6	4.2	e4.5	e4.9	5.0	8.8	11	3.9	3.0	2.2	2.6
15	3.6	4.2	4.1	e4.2	4.8	4.9	9.1	12	4.2	2.5	2.1	2.6
16	3.1	6.4	e4.2	e4.0	e4.9	5.1	9.8	12	4.0	2.5	2.2	2.7
17	3.0	4.0	4.1	e3.5	5.0	5.1	9.8	11	3.8	2.7	2.2	2.7
18	2.7	3.7	4.2	e3.8	5.0	5.1	8.5	8.9	3.6	3.0	2.2	2.7
19	2.7	3.7	4.4	e3.7	e4.9	e4.7	7.6	8.1	3.5	3.0	2.2	2.7
20	2.6	3.7	4.4	e3.6	e4.7	e4.6	7.6	7.3	3.5	2.8	2.2	2.9
21	3.0	3.9	e4.2	e3.5	e4.5	4.5	8.8	6.7	3.4	2.7	2.2	2.8
22	2.8	5.1	4.4	e3.7	e4.4	e4.5	9.4	6.6	3.4	3.0	2.2	3.6
23	3.1	4.5	4.4	e3.8	e4.5	4.4	9.5	6.3	3.3	4.3	2.1	2.7
24	3.6	4.1	e4.3	e4.0	e4.2	4.5	10	5.9	3.3	2.5	2.2	2.8
25	4.6	3.6	e4.4	4.2	e3.7	4.5	13	5.7	3.2	2.5	2.3	2.8
26	4.1	3.9	4.4	4.1	e3.1	4.7	16	6.9	3.1	2.5	2.3	2.7
27	4.0	4.0	4.3	4.1	e2.9	4.7	20	6.9	3.1	4.2	2.4	2.7
28	4.0	3.7	e4.4	4.0	3.0	4.6	21	6.7	3.0	2.5	2.3	2.8
29	4.1	3.8	4.2	4.1	---	4.6	22	6.3	2.9	2.4	2.3	2.6
30	4.1	e3.7	e4.4	4.1	---	5.0	18	5.8	3.2	2.4	2.3	2.5
31	3.9	---	4.2	4.0	---	5.5	---	5.3	---	2.3	2.4	---
TOTAL	125.7	117.7	132.1	134.1	124.1	150.2	293.0	281.8	116.4	86.3	68.7	78.9
MEAN	4.05	3.92	4.26	4.33	4.43	4.85	9.77	9.09	3.88	2.78	2.22	2.63
MAX	5.4	6.4	4.6	6.2	6.3	5.8	22	12	5.0	4.3	2.4	3.6
MIN	2.6	3.3	3.9	3.5	2.9	3.6	5.4	5.3	2.9	2.3	2.1	2.3
AC-FT	249	233	262	266	246	298	581	559	231	171	136	156

CAL YR 1986 TOTAL 4882.0 MEAN 13.4 MAX 79 MIN 2.6 AC-FT 9680
WTR YR 1987 TOTAL 1709.0 MEAN 4.68 MAX 22 MIN 2.1 AC-FT 3390

e Estimated.

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW1/4SE1/4 sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft upstream from left side of dam on Marlette Creek, and 7.5 mi west of Carson City.

DRAINAGE AREA.--2.86 mi^2.

PERIOD OF RECORD.--November 1973 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (spillway 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 at spillway; elevation, 7,838.0 ft. Figures given herein represent total contents. Stored water is used for spawning Cutthroat Trout and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded contents, 12,320 acre-ft, Feb. 19, 1986, elevation, 7,839.23 ft; minimum, 10,970 acre-ft, Nov. 10-13, 1976, elevation, 7,835.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum recorded contents, 12,040 acre-ft, Feb. 13, elevation, 7,838.59 ft; minimum, 11,430 acre-ft, Sept. 30; elevation, 7,837.05 ft.

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

7,837	11,410	7,839	12,220
7,838	11,790	7,840	12,650

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11830	11850	11870	11940	11930	e11950	e11930	e11950	11880	11810	11680	11540
2	e11830	11850	11870	11930	11950	e11950	e11930	e11950	11880	11810	11680	11540
3	e11830	11860	11870	12000	11950	e11950	e11930	e11950	11870	11810	11680	11530
4	e11830	11860	11850	11990	11950	e11940	e11930	e11940	11880	11800	11680	11530
5	e11840	11850	11880	11980	11940	e11940	e11930	e11940	11870	11800	11670	11520
6	e11840	11850	11890	11980	11940	e11940	e11930	e11940	11870	11790	11660	11520
7	e11840	11850	11880	11980	11930	e11940	e11930	e11930	11870	11790	11660	11520
8	e11840	11850	11880	11970	11930	e11940	e11930	e11930	11870	11790	11650	11510
9	11850	11860	11880	11970	11940	e11940	e11930	e11930	11870	11780	11650	11510
10	11850	11860	11880	11970	11930	e11940	e11930	e11930	11870	11780	11640	11510
11	11850	11860	11880	11960	11940	e11950	e11930	e11930	11870	11770	11630	11500
12	11850	11860	11900	11950	11960	e11950	e11940	e11920	11870	11770	11630	11500
13	11850	11860	11900	11940	12030	e11960	e11940	e11920	11870	11770	11620	11500
14	11850	11860	11890	11940	12010	e11960	e11940	11910	11870	11770	11610	11490
15	11850	11860	11920	11930	12010	e11970	e11940	11910	11860	11760	11610	11490
16	11850	11860	11930	11930	12000	e11970	e11940	11900	11860	11760	11600	11480
17	11850	11860	11900	11930	11990	e11970	e11940	11900	11850	11730	11600	11470
18	11850	11850	11900	11930	11980	e11970	e11950	11890	11850	11720	11600	11470
19	11850	11860	11900	11930	11970	e11970	e11950	11890	11850	11720	11590	11470
20	11860	11850	11900	11940	11960	e11960	e11950	11890	11850	11720	11590	11470
21	11860	11860	11910	11940	11960	e11960	e11950	11890	11840	11710	11580	11460
22	11860	11860	11930	11930	11950	e11960	e11950	11880	11840	11710	11580	11460
23	11860	11870	11930	11930	11970	e11950	e11950	11880	11830	11710	11580	11460
24	11860	11860	11920	11950	11970	e11950	e11950	11870	11830	11710	11570	11450
25	11870	11860	11930	11950	11970	e11950	e11950	11880	11830	11710	11570	11450
26	11860	11860	11930	11950	11960	e11940	e11950	11890	11830	11710	11560	11440
27	11870	11850	11930	11940	11960	e11940	e11950	11890	11830	11700	11560	11440
28	11870	11830	11930	11970	11960	e11940	e11950	11890	11830	11700	11560	11440
29	11860	11860	11930	11970	---	e11930	e11950	11890	11820	11690	11550	11430
30	11860	11860	11930	11960	---	e11930	e11950	11880	11820	11690	11550	11430
31	11840	---	11920	11960	---	e11930	---	11880	---	11690	11550	---
MAX	11870	11870	11930	12000	12030	11970	11950	11950	11880	11810	11680	11540
MIN	11830	11830	11850	11930	11930	11930	11930	11870	11820	11690	11550	11430
#	7838.13	7838.18	7838.32	7838.41	7838.40	--	--	7838.23	7838.07	7837.73	7837.36	7837.05
##	+10	+20	+60	+40	0	-30	+20	-70	-60	-130	-140	-120

CAL YR 1986 MAX 12310 MIN 11760 ## +30
WTR YR 1987 MAX 12030 MIN 11430 ## -400

\# Elevation, in feet NGVD, at end of month.
Change in contents, in acre-feet.
e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE1/4SW1/4 sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank about 300 ft below dam on Marlette Lake (station 10336710), 0.7 mi upstream from Marlette Reservoir, and 7 mi west of Carson City.

DRAINAGE AREA.--2.86 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NV-80-1.

GAGE.--Water-stage recorder. Elevation of gage is 7,760 ft, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Marlette Lake (station 10336710).

AVERAGE DISCHARGE.--14 years, 3.04 ft^3/s, 2,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70 ft^3/s, Feb. 20, 1986, gage height, 3.20 ft, from rating curve extended above 26 ft^3/s; no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.4 ft^3/s, Feb. 13, 15, gage height, 1.94 ft; minimum daily, 0.01 ft^3/s, many days in July and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	1.1	.87	1.8	3.3	e4.0	3.8	4.9	.67	.16	.06	.05
2	.40	.99	.90	2.1	3.3	e4.0	3.6	4.4	.53	.12	.07	.07
3	.34	.81	.95	3.1	2.9	e4.0	3.9	3.9	.58	.05	.07	.07
4	.43	.78	1.0	5.9	2.7	4.0	3.9	3.3	.63	.07	.10	.08
5	.50	.81	1.2	5.5	2.6	4.1	3.7	2.9	.55	.04	.11	.05
6	.32	.86	1.4	5.1	2.4	4.1	3.7	2.7	.61	.03	.11	.04
7	.32	.81	1.5	5.2	2.3	4.0	3.7	2.5	.84	.04	.10	.04
8	.31	.80	1.4	4.6	2.2	4.0	3.7	2.3	.84	.02	.10	.04
9	.35	.82	1.4	4.2	2.2	3.7	3.7	2.1	.76	.01	.10	.04
10	.40	.90	1.3	3.9	2.3	3.6	3.8	2.0	.86	.01	.10	.04
11	.61	.89	1.3	3.7	2.5	3.1	4.0	1.8	.91	.01	.10	.03
12	.51	.89	1.3	3.6	2.7	2.9	4.0	1.7	1.0	.01	.10	.02
13	.45	.89	1.4	3.2	7.1	4.8	4.0	1.6	1.0	.01	.11	.02
14	.47	.85	1.4	2.8	8.2	5.6	3.9	1.5	1.4	.01	.09	.02
15	.50	.83	e1.3	e2.6	8.2	6.4	4.1	1.4	1.7	.01	.07	.02
16	.55	.88	e1.3	e2.5	7.3	5.9	4.2	1.4	2.0	.13	.06	.02
17	.68	.90	e1.3	e2.4	6.6	5.6	4.4	1.3	.56	.07	.05	.02
18	.72	1.0	1.4	2.4	6.1	5.3	4.8	1.0	.40	.01	.05	.02
19	.75	.98	1.6	e2.3	5.9	5.7	4.8	.82	.43	.02	.05	.02
20	.73	1.1	1.7	2.2	5.4	5.4	4.5	.77	.36	.03	.05	.02
21	.73	1.1	1.7	2.1	5.0	5.2	4.7	.74	.34	.03	.05	.02
22	.74	.97	1.8	2.1	4.5	4.9	4.7	.71	.35	.04	.05	.02
23	.79	1.0	2.0	2.1	e4.2	5.0	4.8	.70	.36	.05	.07	.02
24	.81	1.1	2.0	e2.1	e4.1	5.7	4.4	.68	.41	.06	.06	.02
25	.85	.94	1.9	e2.1	e4.0	5.3	4.4	.65	.37	.07	.05	.02
26	.91	.97	1.9	e2.1	e4.0	5.0	4.6	.94	.32	.06	.04	.01
27	1.0	.96	2.0	2.4	e4.0	4.7	4.6	.98	.28	.07	.05	.01
28	.96	1.0	2.0	3.5	e4.0	4.6	4.8	.92	.24	.05	.05	.02
29	1.2	.94	2.0	3.7	---	4.2	4.7	.86	.21	.05	.05	.01
30	1.1	.87	2.0	3.5	---	4.1	5.3	.84	.16	.05	.05	.01
31	1.1	---	2.1	3.3	---	4.0	---	.77	---	.05	.04	---
TOTAL	19.88	27.74	47.32	98.1	120.0	142.9	127.2	53.08	19.67	1.44	2.21	0.89
MEAN	.64	.92	1.53	3.16	4.29	4.61	4.24	1.71	.66	.046	.071	.030
MAX	1.2	1.1	2.1	5.9	8.2	6.4	5.3	4.9	2.0	.16	.11	.08
MIN	.31	.78	.87	1.8	2.2	2.9	3.6	.65	.16	.01	.04	.01
AC-FT	39	55	94	195	238	283	252	105	39	2.9	4.4	1.8

CAL YR 1986 TOTAL 1609.49 MEAN 4.41 MAX 63 MIN .04 AC-FT 3190
WTR YR 1987 TOTAL 660.43 MEAN 1.81 MAX 8.2 MIN .01 AC-FT 1310

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'53", long 119°47'07", in NW1/4NW1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft downstream from Kietzke Lane bridge, 0.5 mi downstream from Scott Island, 1.5 mi east of Reno Post Office, 5 mi upstream from Steamboat Creek, and at mi 59.07, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 mi^2.

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1935, January to December 1943, January 1946 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft, above National Vertical Datum of 1929 (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi upstream at different datum.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300), and Boca (station 10344490) Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above station.

AVERAGE DISCHARGE.--61 years (1906-21, 1925-26, 1930-34, 1946-87), 716 ft^3/s, 518,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft^3/s, Dec. 23, 1955; maximum gage height, 13.83 ft Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft^3/s, May 17, gage height, 5.55 ft; minimum daily, 219 ft^3/s, Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	370	380	381	386	524	818	1210	683	301	246	230
2	329	361	392	396	382	560	801	1380	690	322	252	232
3	403	364	402	421	398	721	825	1350	691	248	255	228
4	450	383	396	417	391	768	845	1360	684	244	259	230
5	433	393	386	403	390	828	691	1420	753	233	258	232
6	427	353	378	402	395	956	595	1430	751	229	240	233
7	468	350	378	407	388	799	525	1390	770	252	243	238
8	465	376	375	384	394	748	505	1350	693	268	258	228
9	448	383	373	368	395	727	512	1390	598	270	256	227
10	430	383	377	385	410	736	552	1370	515	254	238	228
11	444	376	373	388	428	723	577	1440	452	251	231	225
12	437	370	384	394	447	785	586	1360	307	253	238	240
13	428	368	381	378	870	901	553	1210	226	282	233	234
14	405	366	378	372	609	770	579	1190	273	290	239	251
15	380	363	378	383	342	726	704	1200	285	248	248	249
16	374	358	351	373	248	692	947	1270	268	269	248	270
17	367	355	375	e370	381	715	963	1320	257	281	239	266
18	368	376	402	369	456	733	997	1220	244	289	234	257
19	358	369	400	356	502	673	952	1130	226	283	229	281
20	349	366	397	347	527	643	959	1090	245	280	232	279
21	347	372	388	360	538	769	931	1010	256	270	235	284
22	343	372	383	374	532	732	981	1010	258	279	238	274
23	344	366	391	366	531	748	1030	1040	255	262	244	268
24	347	364	387	365	530	736	957	1040	239	265	243	261
25	374	366	393	373	525	732	940	1020	235	264	232	267
26	369	358	390	375	515	725	1040	1000	271	266	227	258
27	354	376	390	378	518	719	1140	895	267	263	227	275
28	362	378	387	434	519	720	1210	835	242	265	230	294
29	373	382	381	403	---	712	1220	752	234	270	229	294
30	368	374	371	393	---	719	1250	705	230	270	224	307
31	380	---	368	382	---	804	---	682	---	256	219	---
TOTAL	12127	11091	11885	11897	12947	22844	25185	36069	12098	8277	7424	7640
MEAN	391	370	383	384	462	737	839	1164	403	267	239	255
MAX	468	393	402	434	870	956	1250	1440	770	322	259	307
MIN	329	350	351	347	248	524	505	682	226	229	219	225
AC-FT	24050	22000	23570	23600	25680	45310	49950	71540	24000	16420	14730	15150

CAL YR 1986 TOTAL 495122 MEAN 1356 MAX 10000 MIN 226 AC-FT 982100
WTR YR 1987 TOTAL 179484 MEAN 492 MAX 1440 MIN 219 AC-FT 356000

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in SW1/4NW1/4NE1/4 sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft upstream from McCarren Boulevard bridge, 1 mi south of Southern Pacific Railroad in Sparks, 2.5 mi upstream from Steamboat Creek, and at mi 56.15, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,070 mi^2, approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above station.

AVERAGE DISCHARGE.--10 years, 925 ft^3/s, 670,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft^3/s, Feb. 17, 1986, gage height, 15.22 ft; minimum, 2.0 ft^3/s, Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,960 ft^3/s, May 17, gage height, 7.18 ft; minimum daily, 139 ft^3/s, Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	366	392	357	392	488	760	1220	664	231	159	164
2	291	360	404	364	390	522	739	1380	669	293	166	162
3	354	359	407	410	405	695	781	1340	671	169	171	159
4	393	362	409	416	396	753	798	1360	667	169	172	168
5	368	373	401	396	396	830	626	1420	733	177	168	169
6	363	338	404	389	401	961	518	1460	747	158	154	169
7	399	331	402	399	395	779	453	1450	795	179	152	177
8	400	366	394	372	396	721	428	1400	684	195	160	172
9	391	373	384	370	396	702	432	1440	616	192	160	171
10	376	381	391	e380	405	713	481	1420	498	182	148	170
11	392	369	376	e382	432	694	506	1510	429	170	139	170
12	385	358	386	e382	441	770	518	1440	275	168	145	190
13	376	363	383	e370	904	906	485	1240	192	191	e150	202
14	369	357	395	e372	647	739	505	1220	263	201	e160	211
15	334	341	383	e375	326	685	610	1230	270	163	e160	199
16	332	341	384	e365	224	657	868	1310	239	185	e165	218
17	328	337	375	e370	356	680	889	1390	214	188	166	228
18	322	374	392	e365	436	715	925	1290	189	201	161	228
19	311	378	386	e368	482	653	889	1180	172	192	157	229
20	310	355	389	e369	505	604	901	1140	181	185	165	208
21	309	366	369	e350	514	726	881	1030	202	181	173	215
22	309	370	377	e365	513	688	922	999	202	189	185	219
23	309	373	399	e362	524	709	979	1090	199	173	189	206
24	308	369	381	e365	534	709	906	1090	182	175	181	202
25	342	376	365	e370	526	691	890	1070	171	184	165	203
26	344	373	361	407	515	677	1010	1060	202	187	165	190
27	338	395	361	396	517	685	1110	939	207	177	165	210
28	338	399	352	447	490	661	1200	872	181	179	161	226
29	356	401	350	410	---	648	1220	746	170	186	159	227
30	357	389	342	389	---	658	1260	692	174	179	162	222
31	378	---	341	395	---	747	---	682	---	161	156	---
TOTAL	10830	10993	11835	11827	12858	21866	23490	37110	11058	5760	5039	5884
MEAN	349	366	382	382	459	705	783	1197	369	186	163	196
MAX	400	401	409	447	904	961	1260	1510	795	293	189	229
MIN	291	331	341	350	224	488	428	682	170	158	139	159
AC-FT	21480	21800	23470	23460	25500	43370	46590	73610	21930	11420	9990	11670

CAL YR 1986 TOTAL 513871 MEAN 1408 MAX 11800 MIN 148 AC-FT 1019000
WTR YR 1987 TOTAL 168550 MEAN 462 MAX 1510 MIN 139 AC-FT 334300

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in NW1/4SW1/4SE1/4 sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank 300 ft upstream from Red House diversion dam, 0.2 mi upstream from Red House, and 6.1 mi northwest of Carson City.

DRAINAGE AREA.--3.24 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,380 ft, from topographic map.

REMARKS.--Records good except for flows greater than 4.0 ft^3/s, which are fair. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake (station 10336710) during dry years.

AVERAGE DISCHARGE.--13 years (1975-87), 3.88 ft^3/s, 2,810 acre-ft/yr.

CORRECTIONS.--The maximum discharge for water year 1982 is 49 ft^3/s, Apr. 12, 1982, gage height, 2.60 ft; the previously published figure was not the maximum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89 ft^3/s, Feb. 16, 1986, gage height, 3.64 ft, from rating curve extended above 20 ft^3/s and on basis of slope-conveyance measurement of peak flow; minimum daily, 0.48 ft^3/s, Sept. 9-11, and Sept. 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.3 ft^3/s, Apr. 27, gage height, 1.82 ft, maximum gage height, 2.22 ft, backwater from ice; minimum daily, 0.88 ft^3/s, July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.5	2.7	2.9	2.4	e2.0	2.9	5.0	2.2	1.7	1.1	1.1
2	4.1	3.3	2.9	2.9	2.3	2.0	3.3	4.7	2.3	1.7	1.2	1.1
3	4.0	3.3	2.8	3.5	2.4	2.1	3.4	4.8	1.8	1.7	1.2	1.1
4	4.0	2.7	2.7	3.5	2.2	2.4	2.5	4.9	1.4	1.7	1.2	1.1
5	4.4	1.9	2.9	3.0	2.2	2.9	2.5	5.4	1.5	1.7	1.3	1.1
6	4.5	2.2	3.0	3.0	2.0	2.9	2.9	4.9	1.6	1.6	1.4	1.1
7	4.4	2.9	2.9	2.9	1.9	2.7	3.6	4.5	1.6	1.4	1.2	1.1
8	4.1	3.1	2.7	2.6	1.9	2.7	4.0	4.4	1.5	1.3	1.2	1.1
9	3.9	3.1	2.9	2.6	2.0	2.5	4.4	4.4	1.2	1.2	1.2	1.1
10	3.7	3.1	2.8	2.5	2.1	2.6	4.6	4.6	1.1	1.1	1.2	1.1
11	3.6	3.1	2.7	2.6	2.2	2.5	4.8	4.6	1.0	1.4	1.3	1.1
12	3.6	3.2	2.8	2.6	2.2	2.9	4.5	4.4	.92	1.2	1.2	1.1
13	3.6	3.2	2.9	2.6	4.4	e3.0	4.6	3.7	1.0	.95	1.1	1.2
14	3.2	3.1	2.9	2.6	3.6	3.1	5.3	2.5	1.4	.89	1.0	1.1
15	3.1	3.0	2.8	2.3	2.7	2.7	6.3	3.1	1.6	.89	1.0	1.1
16	3.0	2.9	2.6	2.6	2.5	2.5	6.7	4.0	1.6	.88	1.1	1.2
17	3.0	3.0	2.6	2.5	2.2	2.5	6.9	3.2	1.5	.89	1.1	1.1
18	3.0	3.1	2.7	2.5	2.1	e2.5	5.6	2.7	1.5	.92	1.1	1.2
19	3.0	2.9	2.9	2.6	2.1	e2.4	4.4	2.6	1.4	.97	1.1	1.1
20	3.1	2.9	2.5	2.4	2.1	e2.4	4.4	2.7	1.3	.97	1.1	1.1
21	3.1	2.8	2.3	2.5	2.0	2.3	5.0	2.8	1.3	.95	1.1	1.1
22	3.1	2.7	2.5	2.3	2.0	2.5	5.6	2.4	1.4	.96	1.1	1.1
23	3.3	2.8	3.1	2.4	e2.0	2.2	5.6	2.2	1.5	1.1	1.1	1.1
24	3.3	2.7	3.0	2.6	e2.0	2.3	5.7	2.3	1.7	1.0	1.0	1.1
25	3.2	2.7	3.0	2.5	e2.0	2.0	5.6	2.1	1.7	1.0	1.1	1.1
26	3.3	2.4	2.9	2.4	e2.0	1.9	5.8	1.9	1.7	.99	1.0	1.1
27	3.4	2.6	2.9	2.4	e2.0	e1.9	6.7	2.0	1.7	.97	1.0	1.1
28	3.4	2.4	2.8	e2.5	e2.0	e1.9	7.1	2.3	1.7	.98	1.0	1.2
29	3.5	2.6	2.7	2.6	---	1.9	6.5	2.1	1.7	.98	1.1	1.3
30	3.3	2.6	2.7	2.4	---	2.1	6.5	2.2	1.7	.99	1.1	1.3
31	3.4	---	2.7	2.4	---	2.4	---	2.2	---	1.0	1.0	---
TOTAL	109.9	85.8	86.3	81.7	63.5	74.7	147.7	105.6	45.52	35.98	34.9	33.8
MEAN	3.55	2.86	2.78	2.64	2.27	2.41	4.92	3.41	1.52	1.16	1.13	1.13
MAX	4.5	3.5	3.1	3.5	4.4	3.1	7.1	5.4	2.3	1.7	1.4	1.3
MIN	3.0	1.9	2.3	2.3	1.9	1.9	2.5	1.9	.92	.88	1.0	1.1
AC-FT	218	170	171	162	126	148	293	209	90	71	69	67

CAL YR 1986 TOTAL 2143.31 MEAN 5.87 MAX 65 MIN .64 AC-FT 4250
WTR YR 1987 TOTAL 905.40 MEAN 2.48 MAX 7.1 MIN .88 AC-FT 1800

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION (REVISED).--Lat 39°14'09", long 119°14'09", in NW1/4SE1/4 sec.19, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Washoe Lake State Park, and about 4.75 mi north of Carson City.

DRAINAGE AREA.--83.8 mi^2, including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to September 1982 (monthly observations only), October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,020.00 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, nonrecording gage at different site but same datum.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Total capacity 55,700 acre-ft between elevations 5,017.5 ft and 5,032.0 ft. Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5,031.97 ft, Mar. 13, 1986; minimum observed, 5,021.8 ft, Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5,029.52 ft, Mar. 26; minimum recorded, 5,026.29 ft, Sept. 30.

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

5,026	21,700	5,029	37,400
5,027	26,600	5,030	43,300
5,028	32,000		

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.24	8.20	8.27	8.53	e8.90	9.35	9.43	9.19	e8.96	8.43	7.55	6.79
2	8.24	8.21	8.29	8.48	e8.91	9.35	9.47	9.20	e8.94	8.38	7.52	6.75
3	8.26	8.21	8.29	8.62	8.93	9.35	9.45	9.19	e8.93	8.34	7.50	6.73
4	8.26	8.21	8.20	8.64	8.93	9.27	9.43	9.20	8.92	8.32	7.49	6.71
5	8.26	8.23	8.29	8.66	8.93	9.30	9.43	9.20	8.92	8.29	7.45	6.70
6	8.27	8.20	8.31	8.66	8.94	9.35	9.42	9.20	8.93	8.27	7.41	6.68
7	8.28	8.22	8.31	8.67	8.95	9.34	9.42	9.17	8.91	8.27	7.40	6.66
8	8.28	8.20	8.32	8.67	8.95	9.33	9.43	9.16	8.90	8.23	7.37	6.65
9	8.27	8.21	8.33	8.68	8.96	9.32	9.42	9.17	8.89	8.20	7.35	6.64
10	8.28	8.21	8.33	8.68	8.98	9.29	9.46	9.18	8.88	8.17	7.30	6.63
11	8.26	8.21	8.35	8.70	8.98	9.30	9.40	9.18	8.85	8.15	7.26	6.60
12	8.25	8.22	8.37	8.70	9.10	9.37	9.37	9.18	8.83	8.14	7.24	6.60
13	8.25	8.21	8.35	8.70	9.24	9.38	9.38	9.16	8.83	8.11	7.17	6.56
14	8.25	8.22	8.36	8.73	9.21	9.37	9.40	9.15	8.82	8.09	7.16	6.55
15	8.26	8.23	8.36	8.70	9.27	9.36	9.39	9.15	8.74	8.04	7.15	6.53
16	8.25	8.23	8.36	8.71	9.27	9.36	9.38	9.16	8.73	7.93	7.15	6.49
17	8.24	8.21	8.39	8.72	9.27	9.42	e9.31	9.19	8.69	7.96	7.13	6.48
18	8.24	8.23	8.42	8.72	9.30	9.36	9.33	9.20	8.68	7.93	7.09	6.47
19	8.23	8.21	8.42	8.73	9.28	9.36	9.29	9.20	8.66	7.90	7.07	6.45
20	8.24	8.20	8.42	8.73	9.33	9.36	9.30	e9.20	8.69	7.87	7.05	6.43
21	8.24	8.20	8.38	8.74	9.30	9.37	9.31	e9.18	8.64	7.84	7.03	6.42
22	8.24	8.24	8.46	8.75	9.28	9.37	9.28	e9.16	8.59	7.80	7.01	6.41
23	8.23	8.19	8.48	8.77	9.31	9.42	9.30	e9.14	8.57	7.83	6.96	6.39
24	8.24	8.24	8.46	e8.77	9.32	9.42	9.28	e9.12	8.56	7.76	6.95	6.34
25	8.23	8.26	8.47	e8.79	9.32	9.43	9.30	e9.10	8.54	7.74	6.94	6.34
26	8.23	8.25	8.47	e8.80	9.32	9.43	e9.25	e9.08	8.53	7.70	6.89	6.33
27	8.23	8.18	8.48	e8.82	9.34	9.42	9.26	e9.06	8.51	7.66	6.88	6.32
28	8.21	8.15	8.49	e8.83	9.35	9.42	9.24	e9.04	8.48	7.66	6.88	6.31
29	8.19	8.26	8.49	e8.85	---	9.42	9.28	e9.02	8.46	7.64	6.88	6.30
30	8.21	8.25	8.45	e8.87	---	9.42	9.25	e9.00	8.44	7.61	6.82	6.29
31	8.21	---	8.52	e8.88	---	9.42	---	e8.98	---	7.56	e6.81	---
MAX	8.28	8.26	8.52	8.88	9.35	9.43	9.47	9.20	8.96	8.43	7.55	6.79
MIN	8.19	8.15	8.20	8.48	8.90	9.27	9.24	8.98	8.44	7.56	6.81	6.29
#	33130	33350	34810	36790	39460	39880	38880	37300	34380	29620	25650	23090
##	-170	+220	+1460	+1980	+2670	+420	-1000	-1580	-2920	-4760	-3970	-2560

CAL YR 1986 MAX 11.97 MIN 7.25 ## 6750
WTR YR 1987 MAX 9.47 MIN 6.29 ## -10210

\# Useable contents, in acre-feet, at end of month.
Change in content, in acre-feet.
e Estimated.

NOTE: Add 5,020 ft to obtain an elevation, in feet NGVD, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°19'45", long 119°48'00", in NE1/4NW1/4 sec.24, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at outlet (head of Steamboat Creek), and 5.5 mi southwest of Steamboat.

DRAINAGE AREA.--83.8 mi^2.

PERIOD OF RECORD.--April 1963 to September 1970, October 1982 to current year (monthly observations only), October 1970 to September 1982 (daily elevations).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. From October 1970 to September 1982, recording gage at same site and datum.

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 (station 10348700)."

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,031.8 ft, Apr. 1, 1986; no contents Sept. 13 to Dec. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,029.4 ft, Mar. 31; minimum, 5,027.5 ft, Sept. 30.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,028.2	522	--
Oct. 31	5,028.0	500	-22
Nov. 30	5,028.1	511	+11
Dec. 31	5,028.5	555	+44
CAL YR 1986	--	--	+147
Jan. 31	5,028.8	588	+33
Feb. 28	5,029.3	680	+92
Mar. 31	5,029.4	690	+10
Apr. 30	5,029.2	670	-20
May 31	5,028.9	600	-70
June 30	5,028.2	522	-78
July 31	5,027.8	480	-42
Aug. 31	5,027.6	460	-20
Sept. 30	5,027.5	450	-10
WTR YR 1987	--	--	-72

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10348850 GALENA CREEK AT GALENA STATE PARK, NV

LOCATION.--Lat 39°21'16", long 119°51'27", in SE1/4NW1/4 sec.9, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank at Galena State Park, west of Highway 27, and 3.5 mi northwest of Washoe City.

DRAINAGE AREA.--7.69 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair, and those discharges above 15 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft^3/s, June 3, 1986, gage height, 1.63 ft, from rating curve extended above 60 ft^3/s; minimum daily, 3.2 ft^3/s, July 25, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 27	2200	*55	1.31				

Minimum daily, 3.2 ft^3/s, July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	6.5	e6.6	7.0	9.4	7.2	8.2	e22	11	5.8	5.5	4.5
2	8.8	6.5	e6.6	7.0	9.8	7.2	8.9	e22	11	5.5	5.2	4.3
3	8.4	6.5	e6.6	7.3	8.9	7.6	8.5	e22	9.7	5.3	5.2	4.3
4	9.3	6.9	6.5	e7.7	8.9	7.6	6.8	e20	9.3	5.1	5.3	4.5
5	10	6.9	6.3	7.9	7.6	11	6.7	e23	8.9	5.2	4.8	4.5
6	9.8	5.9	6.3	7.7	7.6	e8.9	7.3	e32	9.6	5.2	4.6	4.5
7	9.8	6.5	6.0	7.7	8.0	e8.9	9.1	e34	10	5.3	4.7	4.5
8	9.2	6.9	e6.0	e7.7	8.0	e8.4	9.6	e26	8.8	5.4	4.7	4.3
9	8.9	6.2	e6.1	7.5	8.0	7.6	11	e26	8.2	5.1	4.5	4.2
10	8.6	6.5	e6.2	7.1	7.6	7.4	11	e26	7.9	4.7	4.3	4.2
11	8.2	6.9	e6.2	7.2	8.0	7.6	11	e19	7.9	4.8	4.4	4.0
12	7.9	7.6	e6.2	6.7	8.4	7.6	11	e18	7.5	4.7	4.2	4.1
13	7.6	7.2	e6.3	6.3	9.8	8.0	13	e24	7.2	4.4	4.1	4.4
14	7.6	6.5	e6.4	e6.4	9.8	7.2	15	e23	7.4	4.2	4.2	4.2
15	7.6	6.2	6.4	6.6	8.4	6.9	15	e16	8.8	4.1	5.2	4.0
16	7.6	6.5	e6.4	6.4	9.8	6.8	18	23	8.1	3.8	6.7	4.1
17	7.6	6.5	6.3	6.8	9.3	6.6	19	20	7.4	4.1	6.3	4.1
18	7.6	6.9	6.3	7.0	8.0	6.9	14	16	6.9	4.9	6.3	4.4
19	7.6	6.5	6.8	6.9	e8.0	6.9	12	17	6.6	4.9	6.1	4.3
20	7.6	7.2	6.9	6.7	8.0	7.8	12	16	6.6	4.5	6.1	4.0
21	7.6	6.5	6.8	7.4	e8.0	6.5	e15	14	6.7	4.1	6.0	3.9
22	7.2	6.5	7.0	e7.6	7.6	6.3	e18	13	6.4	4.0	5.8	3.9
23	7.2	6.5	6.9	7.9	7.6	6.1	e18	13	6.1	3.8	5.7	3.9
24	7.2	6.5	6.7	8.0	7.2	5.9	e21	12	6.0	3.6	5.5	3.9
25	6.9	6.2	6.7	8.1	6.5	6.0	e24	11	5.9	3.2	5.4	4.1
26	6.9	6.9	6.7	8.2	e6.5	6.0	e25	12	6.0	3.8	5.2	4.1
27	6.9	6.9	6.6	8.6	6.5	5.7	e33	13	6.1	6.1	5.2	4.4
28	6.5	6.9	6.5	8.9	6.9	5.8	e35	13	6.0	5.8	4.9	4.3
29	7.2	6.6	7.0	9.7	---	5.7	e36	12	5.6	5.4	4.9	4.2
30	7.2	e6.6	6.8	9.0	---	6.4	e30	11	5.9	5.3	4.6	4.4
31	6.9	---	7.0	9.7	---	7.3	---	11	---	5.5	4.5	---
TOTAL	247.2	199.4	202.1	234.7	228.1	221.8	482.1	580	229.5	147.6	160.1	126.5
MEAN	7.97	6.65	6.52	7.57	8.15	7.15	16.1	18.7	7.65	4.76	5.16	4.22
MAX	10	7.6	7.0	9.7	9.8	11	36	34	11	6.1	6.7	4.5
MIN	6.5	5.9	6.0	6.3	6.5	5.7	6.7	11	5.6	3.2	4.1	3.9
AC-FT	490	396	401	466	452	440	956	1150	455	293	318	251

CAL YR 1986 TOTAL 5921.1 MEAN 16.2 MAX 73 MIN 5.9 AC-FT 11740
WTR YR 1987 TOTAL 3059.1 MEAN 8.38 MAX 36 MIN 3.2 AC-FT 6070

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348900 GALENA CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°21'43", long 119°49'37", in SW1/4SW1/4 sec.2, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank 1 mi upstream from Jones Creek, 3.5 mi upstream from mouth, 4.5 mi west-southwest of Steamboat, and 12 mi south of Reno.

DRAINAGE AREA.--8.5 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft higher.

REMARKS.--Records poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake (station 10348800) during winter months.

AVERAGE DISCHARGE.--26 years, 9.80 ft^3/s, 7,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft^3/s, Aug. 15, 1965, gage height not determined, on basis of slope-area measurement of peak flow; no flow for parts of many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	1845	*33	3.07	Jan. 20	1000	ice jam	*3.39

Minimum daily, 0.58 ft^3/s, Mar. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	1.6	e1.1	e1.0	1.3	.62	14	8.7	5.9	4.2	3.8
2	12	12	1.9	e1.0	e1.0	1.1	.62	13	7.9	6.0	4.2	4.0
3	11	12	1.6	.95	e1.0	1.1	.69	15	7.8	5.4	4.3	4.2
4	11	12	1.5	.97	.95	1.1	.72	17	8.1	5.2	4.2	4.5
5	12	11	1.4	1.1	1.4	1.1	.72	17	8.2	5.2	4.2	4.4
6	12	10	1.4	e1.0	1.7	.98	.72	16	8.2	5.4	4.2	4.5
7	12	17	1.4	e.90	1.9	.91	.72	16	9.3	5.1	4.3	4.3
8	12	11	1.3	e.85	1.9	.87	.71	17	8.8	5.0	4.1	4.4
9	13	16	e1.1	e.81	2.0	.78	.84	16	8.6	5.0	4.0	4.2
10	12	9.7	e1.1	e.76	2.1	.72	1.0	16	8.1	5.0	4.1	4.4
11	12	10	e1.1	e.73	2.2	.67	.99	19	7.7	4.7	4.1	4.2
12	11	8.7	e1.2	e.71	2.4	.78	1.1	17	7.4	4.6	4.0	4.3
13	11	9.0	e1.4	e.81	4.7	1.0	1.2	15	7.2	4.6	4.1	4.5
14	11	8.4	e1.2	e.70	3.8	.87	1.4	15	7.2	4.5	4.0	4.7
15	11	8.5	e1.1	e.81	2.5	.76	2.3	14	8.3	4.4	4.3	4.3
16	11	8.3	e1.0	e.70	2.2	.72	7.5	15	8.3	4.7	4.1	4.2
17	11	6.8	e1.0	e.62	1.9	.72	8.1	15	7.7	5.0	4.0	4.6
18	11	6.6	e1.0	e.68	2.3	.72	8.0	13	7.2	5.5	3.9	4.4
19	11	6.6	e1.0	e.66	2.9	.64	7.7	13	6.9	5.8	3.9	4.1
20	11	6.6	e1.0	e.75	2.2	.73	7.6	12	6.9	5.9	4.0	3.8
21	11	6.7	1.0	e.68	2.3	.67	8.5	12	6.9	5.6	4.1	3.6
22	12	11	e1.1	e.78	1.9	.67	9.6	11	7.1	5.5	4.0	3.5
23	12	8.0	1.2	e.87	1.9	.69	10	11	6.8	5.6	3.9	3.7
24	12	8.2	e1.2	e.98	1.4	.70	11	11	6.5	5.3	4.2	4.3
25	12	8.8	e1.1	e1.0	1.6	.62	13	10	6.2	4.9	3.8	4.1
26	11	17	e1.0	e.94	1.4	.63	14	9.6	5.9	4.6	3.8	4.1
27	11	6.4	e1.0	e.92	1.4	.63	15	9.2	5.8	4.7	3.8	4.1
28	11	3.8	e1.0	e1.1	1.3	.58	15	8.9	6.0	4.5	3.9	4.5
29	11	1.9	e1.1	e1.1	---	.58	18	8.7	6.0	4.5	3.7	4.5
30	11	2.1	e1.0	e1.0	---	.62	15	8.6	5.9	4.5	3.7	4.5
31	12	---	e1.0	e1.0	---	.62	---	8.8	---	4.4	3.7	---
TOTAL	356	276.1	37.0	26.98	55.25	24.58	182.35	413.8	221.6	157.0	124.8	126.7
MEAN	11.5	9.20	1.19	.87	1.97	.79	6.08	13.3	7.39	5.06	4.03	4.22
MAX	13	17	1.9	1.1	4.7	1.3	18	19	9.3	6.0	4.3	4.7
MIN	11	1.9	1.0	.62	.95	.58	.62	8.6	5.8	4.4	3.7	3.5
AC-FT	706	548	73	54	110	49	362	821	440	311	248	251

CAL YR 1986 TOTAL 5964.44 MEAN 16.3 MAX 86 MIN .82 AC-FT 11830
WTR YR 1987 TOTAL 2002.16 MEAN 5.49 MAX 19 MIN .58 AC-FT 3970

e Estimated.

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in SE1/4SW1/4 sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft upstream from Steamboat ditch, 0.2 mi southwest of Steamboat Post Office, and 11 mi southeast of Reno.

DRAINAGE AREA.--123 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,600 ft, from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700).

AVERAGE DISCHARGE.--26 years, 21.8 ft^3/s, 15,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft^3/s, Feb. 17, 1986, gage height, 6.79 ft, from rating curve extended above 954 ft^3/s on basis of slope-area measurement of peak flow; minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75 ft^3/s, Feb. 13, gage height, 2.21 ft; minimum daily, 0.08 ft^3/s, July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	11	4.1	5.1	4.9	13	16	15	5.7	.68	4.1	2.1
2	16	10	3.9	6.3	11	14	17	11	4.0	.38	3.7	1.9
3	15	10	4.1	13	5.9	13	18	11	3.3	.08	3.2	1.7
4	14	10	4.9	7.7	4.8	14	15	9.1	2.4	.26	2.8	1.4
5	15	10	6.5	5.9	4.8	17	16	8.2	2.3	.37	3.4	2.2
6	15	9.8	6.3	5.1	4.7	15	17	7.1	3.0	.10	3.2	2.4
7	14	10	6.2	5.2	4.7	13	17	6.7	3.6	1.3	2.9	2.3
8	14	11	5.8	5.1	4.7	15	16	8.2	3.3	2.4	2.6	1.9
9	13	11	5.7	4.6	4.8	14	16	8.8	3.2	5.2	2.7	1.8
10	9.8	11	5.7	4.9	4.8	16	19	9.2	3.0	5.6	2.7	2.1
11	11	12	5.8	4.7	4.8	21	19	15	2.4	6.2	2.7	2.2
12	8.6	11	6.3	5.2	5.9	21	14	13	2.3	4.4	2.8	2.2
13	8.7	10	6.1	5.2	38	25	16	13	1.9	4.6	2.3	2.1
14	7.3	11	5.7	4.5	13	19	17	12	3.1	4.5	2.8	2.1
15	6.3	11	5.3	4.6	16	13	16	15	3.5	4.2	2.1	3.1
16	6.3	11	5.2	4.2	11	12	16	20	2.6	5.3	2.8	4.6
17	6.4	11	5.3	4.6	9.9	16	16	23	1.8	4.4	2.5	5.2
18	8.2	11	5.3	5.5	8.9	25	18	19	1.7	5.1	1.8	5.3
19	8.9	11	5.4	5.8	8.7	14	10	20	1.8	5.5	1.7	4.0
20	8.3	12	5.5	4.9	9.0	15	10	20	1.2	5.1	2.3	4.2
21	8.5	12	5.3	4.7	9.6	16	8.0	18	1.1	3.8	2.6	4.6
22	8.5	12	5.2	5.1	9.4	14	6.9	16	.97	3.5	2.8	4.2
23	9.0	11	5.6	5.2	11	17	9.8	12	.96	3.8	2.3	3.1
24	10	11	5.0	5.9	10	15	8.8	9.3	.77	3.9	1.7	3.2
25	12	11	4.9	6.4	11	16	10	9.3	.49	5.4	1.5	3.5
26	11	12	5.0	5.5	12	15	15	6.9	.59	4.4	2.0	2.8
27	10	11	5.0	5.9	12	14	18	7.7	.69	5.4	2.2	2.3
28	10	10	4.9	7.4	12	15	17	7.1	.70	5.0	2.1	1.7
29	11	6.3	5.0	5.5	---	16	17	5.6	.71	3.8	2.0	1.2
30	12	4.8	4.3	5.2	---	15	17	6.0	.39	3.6	2.2	1.2
31	11	---	4.4	5.0	---	15	---	6.3	---	4.2	2.1	---
TOTAL	335.8	315.9	163.7	173.9	267.3	493	446.5	368.5	63.47	112.47	78.6	82.6
MEAN	10.8	10.5	5.28	5.61	9.55	15.9	14.9	11.9	2.12	3.63	2.54	2.75
MAX	17	12	6.5	13	38	25	19	23	5.7	6.2	4.1	5.3
MIN	6.3	4.8	3.9	4.2	4.7	12	6.9	5.6	.39	.08	1.5	1.2
AC-FT	666	627	325	345	530	978	886	731	126	223	156	164

CAL YR 1986 TOTAL 24788.5 MEAN 67.9 MAX 1220 MIN 3.9 AC-FT 49170
WTR YR 1987 TOTAL 2901.74 MEAN 7.95 MAX 38 MIN .08 AC-FT 5760

PYRAMID AND WINNEMUCCA LAKES BASIN

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'05", long 119°40'58", in NW1/4NE1/4 sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 800 ft downstream from Southern Pacific Raiload bridge, 0.9 mi southeast of Vista, 1.5 mi downstream from Steamboat Creek, 4 mi southeast of Sparks, and at mi 52.23, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,431 mi^2.

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft, above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Apr. 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to Aug. 17, 1959, water-stage recorder at site 1,200 ft upstream at datum 5.59 ft higher.

REMARKS.--Records fair. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300), and Boca (station 10344490) Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--59 years, 852 ft^3/s, 617,300 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft^3/s, Feb. 1, 1963, gage height, 16.76 ft, from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 7 ft^3/s, Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,040 ft^3/s, May 17, gage height, 5.67 ft; minimum daily, 256 ft^3/s, Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	508	496	461	457	580	854	1330	729	370	281	265
2	532	502	501	467	448	596	843	1490	727	426	283	268
3	556	506	502	508	468	718	888	1470	721	301	293	278
4	591	510	503	550	460	768	906	1490	712	294	296	290
5	567	514	489	502	458	821	775	1540	760	303	288	294
6	548	484	498	492	459	913	686	1570	766	283	269	293
7	572	482	498	497	455	784	641	1550	811	299	260	294
8	570	512	489	474	459	738	612	1510	726	318	280	295
9	559	518	483	460	456	726	621	1530	691	309	285	296
10	544	524	479	457	465	735	660	1510	575	301	263	290
11	557	512	479	456	483	727	696	1620	519	291	270	286
12	559	503	478	475	495	775	709	1530	401	288	267	297
13	545	497	481	461	888	992	679	1350	327	301	268	316
14	544	499	486	450	769	798	690	1320	427	313	279	337
15	508	481	478	457	486	751	774	1330	436	278	287	324
16	498	488	459	e450	390	719	1000	1410	391	308	293	330
17	497	479	470	e443	465	734	1020	1590	366	309	293	355
18	496	498	486	437	529	771	1060	1470	338	327	283	349
19	483	503	485	437	571	741	1050	1280	345	324	275	352
20	485	486	493	433	589	698	1050	1260	312	315	283	335
21	475	494	473	441	596	796	1020	1130	341	316	291	338
22	474	494	479	458	595	770	1040	1090	341	326	280	336
23	471	502	497	456	609	796	1100	1150	348	301	279	338
24	470	497	478	454	621	809	1040	1140	334	294	281	323
25	493	495	471	467	612	786	1010	1110	306	304	256	329
26	495	486	465	462	602	771	1130	1090	334	311	269	322
27	491	510	468	458	603	777	1240	995	339	301	259	339
28	489	503	463	499	580	766	1320	934	308	288	269	351
29	499	509	457	474	---	764	1340	819	303	297	258	350
30	493	494	449	457	---	767	1400	769	306	296	259	358
31	508	---	453	456	---	836	---	749	---	281	258	---
TOTAL	16150	14990	14886	14449	15068	23723	27854	40126	14340	9573	8555	9528
MEAN	521	500	480	466	538	765	928	1294	478	309	276	318
MAX	591	524	503	550	888	992	1400	1620	811	426	296	358
MIN	470	479	449	433	390	580	612	749	303	278	256	265
AC-FT	32030	29730	29530	28660	29890	47050	55250	79590	28440	18990	16970	18900

CAL YR 1986 TOTAL 621136 MEAN 1702 MAX 15200 MIN 370 AC-FT 1232000
WTR YR 1987 TOTAL 209242 MEAN 573 MAX 1620 MIN 256 AC-FT 415000

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10350400 TRUCKEE RIVER BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW1/4NE1/4 sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank on upstream side of bridge, 200 ft downstream from Tracy powerplant, 13 mi east of Sparks, and at mi 40.62, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,590 mi^2.

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft, above National Geodetic Vertical Datum of 1929 (levels by S.E.A. Engineers, Sparks, Nev.).

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, other lakes, powerplants, and many diversions for irrigation.

AVERAGE DISCHARGE.--15 years, 967 ft^3/s, 700,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s, Feb. 19, 1986, from rating curve extended above 8,800 ft^3/s, gage height, 15.2 ft, from floodmarks; minimum, 22 ft^3/s, Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft^3/s, May 17, gage height, 6.93 ft; minimum daily, 262 ft^3/s, Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	489	481	443	522	516	591	883	1200	684	430	319	303
2	481	472	446	532	498	595	882	1390	692	522	325	311
3	479	472	450	566	516	735	902	1340	704	374	328	318
4	528	487	455	670	515	803	959	1340	712	347	320	336
5	510	492	453	603	508	870	805	1370	759	353	314	346
6	488	467	455	585	511	1030	673	1400	785	320	303	351
7	502	463	466	592	512	884	628	1380	849	318	292	353
8	512	489	469	571	503	803	584	1360	771	344	300	354
9	504	496	459	531	504	776	584	1370	752	336	309	357
10	495	496	455	514	506	777	611	1380	620	335	291	357
11	489	499	452	530	519	773	639	1490	572	325	284	352
12	504	491	462	554	538	783	662	1430	450	333	286	356
13	485	480	464	535	914	1140	624	1210	377	331	272	370
14	487	490	473	522	948	874	628	1170	454	358	269	388
15	463	474	472	529	525	793	665	1200	488	328	279	388
16	451	477	458	521	414	759	965	1280	461	335	286	382
17	450	466	471	555	451	766	974	1510	420	341	283	396
18	451	472	489	596	519	810	1020	1530	408	359	277	406
19	445	486	497	516	599	787	989	1210	378	364	262	411
20	442	471	502	504	592	735	999	1240	368	353	265	395
21	437	470	505	512	603	817	936	1060	402	348	274	400
22	438	472	495	531	604	796	947	1000	399	373	283	404
23	435	466	521	533	607	815	1020	1080	406	354	277	412
24	441	465	519	526	632	851	944	1090	405	344	285	405
25	455	460	504	539	628	816	873	1060	385	350	270	408
26	466	448	501	539	613	785	1020	1050	397	362	276	403
27	460	464	507	531	615	801	1120	955	415	350	275	407
28	457	467	509	556	600	777	1240	900	397	339	284	423
29	472	459	508	549	---	772	1270	770	386	342	285	422
30	465	455	505	524	---	770	1310	711	372	337	282	423
31	468	---	510	516	---	841	---	706	---	326	296	---
TOTAL	14649	14247	14875	16904	16010	24925	26356	37182	15668	10931	8951	11337
MEAN	473	475	480	545	572	804	879	1199	522	353	289	378
MAX	528	499	521	670	948	1140	1310	1530	849	522	328	423
MIN	435	448	443	504	414	591	584	706	368	318	262	303
AC-FT	29060	28260	29500	33530	31760	49440	52280	73750	31080	21680	17750	22490

CAL YR 1986 TOTAL 581580 MEAN 1593 MAX 16000 MIN 333 AC-FT 1154000
WTR YR 1987 TOTAL 212035 MEAN 581 MAX 1530 MIN 262 AC-FT 420600

10350500 TRUCKEE RIVER AT CLARK, NV

WATER-QUALITY RECORDS

LOCATION (REVISED).--Lat 39°33'56", long 119°29'08", in SE1/4SW1/4 sec.46, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on left bank about 250 ft downstream from Clark Bridge, about 2 mi downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi west of Clark. Prior to Jan. 16, 1985, at site about 200 ft upstream on right bank.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--April 1972 to current year.
SPECIFIC CONDUCTANCES: October 1983 to current year, hourly.
WATER TEMPERATURES: April and May 1972, monthly; June 1972 to September 1977, continuous; October 1977 to May 1978, monthly; June 1978 to February 1980, four times per hour; March 1980 to May 1982, twice per hour; June 1982 to current year, hourly.

INSTRUMENTATION.--Temperature recorder from June 1972 to current year. Specific-conductance recorder since October 1983.

REMARKS.--Periods of no record due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 480 microsiemens Mar. 15, 1987; minimum, 62 microsiemens Feb. 17, 1986.
WATER TEMPERATURES: Maximum, 29.5°C June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days during winter months of some years.
EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 480 microsiemens Mar. 15; minimum, 106 microsiemens May 11.
WATER TEMPERATURES: Maximum, 26.0°C July 13, 14; minimum, 0.5°C Jan. 10-13, 15-22.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	267	263	265	231	220	225	232	220	227	242	230	237
2	262	259	260	236	221	231	234	220	228	238	231	234
3	265	253	260	235	227	232	236	219	227	246	229	240
4	255	249	253	239	230	234	233	219	228	308	232	273
5	250	247	249	238	231	234	238	220	228	307	265	287
6	253	250	251	235	231	233	238	222	230	264	249	258
7	250	241	245	242	234	238	235	225	230	254	239	247
8	242	237	240	242	233	238	235	222	229	259	241	253
9	241	236	238	236	227	232	234	223	228	264	251	257
10	240	234	237	234	227	230	237	221	229	265	247	253
11	237	232	234	234	228	232	234	221	227	257	218	242
12	234	229	233	237	230	234	230	220	226	248	220	232
13	234	226	231	240	226	235	231	218	226	249	234	243
14	231	228	230	239	216	231	236	219	228	250	230	241
15	231	229	230	239	235	238	233	219	227	249	208	241
16	244	227	237	242	237	239	231	214	225	246	207	228
17	246	232	240	241	234	239	242	217	232	261	237	249
18	252	239	244	238	230	235	245	221	232	251	236	240
19	248	239	243	232	227	230	240	222	233	245	232	237
20	248	240	244	237	228	234	238	228	234	245	205	231
21	248	233	243	238	226	233	244	230	236	241	219	231
22	246	231	242	236	220	229	244	228	237	236	224	229
23	247	233	242	234	226	230	237	221	231	232	223	227
24	249	235	242	231	222	228	244	212	232	239	225	232
25	245	229	239	235	223	230	254	231	246	238	232	235
26	242	229	236	234	214	227	238	226	235	244	233	240
27	247	234	239	242	215	231	239	225	234	245	236	240
28	245	232	239	237	222	232	243	229	237	243	232	237
29	243	229	237	233	223	230	239	227	235	244	236	241
30	237	224	229	230	218	226	243	229	236	237	232	235
31	235	224	231	---	---	---	245	230	236	232	222	229
MONTH	267	224	241	242	214	232	254	212	231	308	205	242

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	223	219	221	---	---	---	167	158	164	150	138	144
2	221	217	219	---	---	---	163	158	161	145	123	137
3	228	218	222	---	---	---	166	160	163	141	126	135
4	220	216	218	---	---	---	162	153	156	136	126	131
5	220	212	216	---	---	---	170	154	162	131	116	123
6	223	215	219	218	192	208	182	169	176	126	114	121
7	217	212	214	233	219	225	188	181	185	124	110	115
8	217	209	213	259	239	246	200	189	193	118	109	114
9	214	212	213	276	263	270	201	194	197	125	107	119
10	214	211	213	357	274	322	201	193	197	120	112	114
11	212	209	211	424	359	395	195	189	192	127	106	116
12	211	207	209	375	324	344	189	185	188	127	118	122
13	368	209	266	337	300	326	191	182	187	132	114	123
14	436	299	341	448	339	367	194	190	192	136	121	130
15	441	292	371	480	411	457	202	194	199	136	126	133
16	335	294	307	412	384	396	197	169	180	140	133	135
17	292	274	284	410	386	399	171	167	169	194	141	148
18	271	235	258	402	366	388	170	160	164	206	169	193
19	---	---	---	403	371	384	166	162	163	208	198	204
20	---	---	---	405	375	395	168	163	165	211	193	198
21	---	---	---	398	330	369	167	163	165	203	197	200
22	---	---	---	326	288	307	171	166	168	201	197	200
23	---	---	---	290	256	275	172	165	169	204	190	196
24	---	---	---	253	243	248	170	165	168	191	187	189
25	---	---	---	251	241	247	170	162	167	190	180	185
26	---	---	---	244	234	239	162	153	157	186	176	182
27	---	---	---	257	241	248	158	155	156	189	179	186
28	---	---	---	254	213	237	155	146	150	190	185	187
29	---	---	---	216	203	210	150	143	147	198	188	194
30	---	---	---	211	201	206	159	144	146	204	197	200
31	---	---	---	202	166	184	---	---	---	204	200	202
MONTH	441	207	245	480	166	304	202	143	172	211	106	157

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	207	200	205	283	263	275	331	327	329	309	277	287
2	208	198	204	271	238	256	332	304	319	287	277	281
3	199	184	190	294	253	266	317	302	308	305	287	294
4	187	176	181	307	294	299	322	315	317	314	300	308
5	179	164	173	314	296	305	317	307	312	311	293	302
6	176	167	172	302	271	283	313	307	310	314	286	300
7	179	170	175	289	281	285	318	308	313	299	279	291
8	188	171	178	292	279	284	317	306	312	298	280	291
9	199	184	192	284	271	279	315	304	308	307	298	304
10	211	196	205	290	280	284	308	302	305	307	297	302
11	226	212	216	296	274	283	316	274	291	301	272	285
12	245	216	229	298	278	288	335	278	295	293	277	285
13	266	242	250	293	283	288	311	272	288	301	271	289
14	276	256	265	291	277	284	293	273	284	304	267	282
15	255	245	249	298	282	286	304	277	284	306	272	287
16	259	247	253	308	297	303	290	280	285	297	282	290
17	274	254	264	303	295	298	293	279	286	284	271	277
18	275	270	273	301	284	294	316	280	288	281	264	274
19	282	274	278	289	281	284	325	266	286	287	272	281
20	291	281	285	284	279	282	288	263	275	291	281	285
21	293	267	281	294	281	288	282	265	275	293	283	289
22	278	254	274	301	293	296	281	258	273	287	277	284
23	261	246	251	300	290	295	289	270	278	290	282	286
24	265	247	257	310	300	304	278	264	272	288	277	282
25	265	257	260	305	300	303	285	269	273	280	271	274
26	271	259	264	305	302	303	292	265	281	275	267	271
27	267	256	262	306	299	303	300	275	283	268	246	262
28	271	258	265	310	304	307	309	292	300	263	243	256
29	273	263	268	316	305	311	304	287	296	260	243	253
30	276	269	273	330	317	321	303	290	293	260	243	253
31	---	---	---	332	324	328	314	277	286	---	---	---
MONTH	293	164	236	332	238	292	335	258	294	314	243	284
YEAR	480	106	243									

PYRAMID AND WINNEMUCCA LAKES BASIN

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION.--Lat 39°36'25", long 119°18'35", in NW1/4NE1/4 sec.17, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, on left bank at upstream end of Tunnel No. 3, 2 mi southwest of Wadsworth, and at mile 22.85, upstream from terminal weir at Lahontan Reservoir.

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

REVISED RECORDS.--WDR NV-77-1: 1975.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft, from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi downstream from base gage.

REMARKS.--Records fair. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

AVERAGE DISCHARGE.--21 years, 260 ft^3/s, 188,400 acre-ft/yr. The figure published in the 1986 report was in error; the correct figure is 20 years, 258 ft^3/s, 186,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft^3/s, June 10, 1970; no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	126	397	398	414	461	376	337	183	259	236	236
2	126	131	402	407	411	461	364	341	185	285	242	240
3	120	139	407	413	412	485	354	336	187	275	249	242
4	115	170	407	413	427	507	306	325	193	243	250	241
5	116	171	403	409	416	537	248	311	200	241	250	248
6	120	179	403	414	416	568	207	291	202	239	238	254
7	122	184	404	417	420	564	147	280	210	212	216	262
8	125	182	403	411	418	568	170	272	227	223	217	262
9	124	186	403	414	422	573	159	255	266	245	231	257
10	125	215	415	413	424	577	132	259	292	242	227	261
11	138	263	403	407	431	578	152	266	284	237	212	264
12	153	263	410	e408	442	581	141	228	269	238	207	263
13	159	274	409	e408	468	620	144	157	251	245	201	272
14	160	282	410	e408	540	584	148	184	248	256	191	281
15	163	280	413	408	478	587	153	197	283	254	219	289
16	165	293	406	405	372	590	145	201	324	236	234	283
17	173	304	390	e406	340	594	175	155	322	250	243	290
18	173	314	404	e406	422	595	191	133	305	263	241	300
19	173	330	425	e406	494	594	167	67	285	266	235	302
20	176	338	424	e406	492	593	171	70	254	268	232	300
21	179	323	419	e406	477	599	174	109	256	268	243	294
22	182	335	407	e406	479	593	179	146	278	267	245	290
23	184	349	415	e406	478	594	180	169	272	256	236	291
24	184	360	415	e406	480	595	219	172	272	257	242	294
25	187	377	410	407	484	599	240	174	263	252	237	298
26	190	386	408	407	482	594	300	156	250	261	231	295
27	189	396	405	410	470	590	318	118	253	265	232	294
28	172	401	406	414	467	527	329	107	267	252	233	309
29	133	401	400	416	---	493	330	132	261	238	232	312
30	126	402	397	416	---	461	349	178	242	242	227	311
31	118	---	390	417	---	386	---	180	---	243	234	---
TOTAL	4709	8354	12610	12688	12476	17248	6668	6306	7584	7778	7163	8335
MEAN	152	278	407	409	446	556	222	203	253	251	231	278
MAX	190	402	425	417	540	620	376	341	324	285	250	312
MIN	115	126	390	398	340	386	132	67	183	212	191	236
AC-FT	9340	16570	25010	25170	24750	34210	13230	12510	15040	15430	14210	16530

CAL YR 1986 TOTAL 74142.24 MEAN 203 MAX 718 MIN .00 AC-FT 147100
WTR YR 1987 TOTAL 111919 MEAN 307 MAX 620 MIN 67 AC-FT 222000

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 TRUCKEE CANAL NEAR HAZEN, CA

LOCATION.--Lat 39°29'56", long 119°02'29", in SW1/4NE1/4 sec.23, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft downstream from Bango check dam, and 4.5 mi southwest of Hazen.

PERIOD OF RECORD.--October 1966 to current year. Records since Oct. 1, 1980, equivalent if records for the KX lateral are added to flow past station.

GAGE.--Water-stage recorder. Datum of gage is 4,166.53 ft, above Bureau of Reclamation datum. Since Oct. 1, 1980, at site 500 ft downstream from Bango check dam. From Mar. 17, 1972, to Sept. 30, 1980, gage on left bank 0.1 mi downstream from Hazen check dam and auxiliary water-stage recorder 20 ft upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank, approximately 6 mi downstream from base gage.

REMARKS.--Records poor. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--21 years, 190 ft^3/s, 137,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft^3/s, Feb. 3, 1967; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	70	383	376	422	475	254	278	72	145	91	143
2	91	74	379	369	432	474	266	284	68	154	101	129
3	94	78	386	394	416	485	220	303	64	164	135	134
4	93	89	389	394	425	509	196	297	65	133	111	133
5	70	82	391	394	429	525	94	301	81	134	126	108
6	67	86	392	391	419	573	176	295	77	127	116	128
7	75	83	388	399	420	590	105	258	65	56	61	153
8	77	92	385	394	417	574	16	265	78	48	56	171
9	79	89	381	387	419	576	65	223	193	89	83	135
10	82	71	388	387	427	578	53	241	246	109	90	140
11	42	76	396	394	432	583	84	244	227	87	72	122
12	76	71	388	359	443	581	63	256	209	107	62	103
13	73	70	391	e360	465	594	30	89	163	138	66	121
14	87	70	391	e360	537	602	33	67	123	143	78	152
15	88	71	394	e365	513	584	51	82	168	116	63	185
16	78	73	387	e370	445	594	55	83	190	121	76	173
17	73	68	379	372	349	598	29	76	234	124	105	186
18	70	68	372	380	395	606	43	81	228	110	84	201
19	77	67	389	396	463	582	35	80	159	117	103	172
20	67	67	398	398	505	586	44	69	118	154	90	189
21	66	249	418	399	496	592	37	71	101	188	82	188
22	69	369	393	409	490	587	21	66	86	176	104	218
23	73	335	398	433	486	574	37	58	167	142	101	201
24	67	341	404	436	483	579	14	64	93	115	99	234
25	74	349	404	421	488	578	27	86	125	95	85	232
26	87	368	401	417	493	561	34	73	123	150	83	208
27	82	376	400	422	479	550	70	48	79	178	106	204
28	86	387	403	427	475	531	73	27	11	122	90	189
29	84	391	399	434	---	449	111	28	87	72	131	220
30	82	385	384	435	---	434	228	16	120	80	131	249
31	69	---	376	431	---	345	---	32	---	100	146	---
TOTAL	2384	5065	12127	12303	12663	17049	2564	4441	3820	3794	2927	5121
MEAN	76.9	169	391	397	452	550	85.5	143	127	122	94.4	171
MAX	94	391	418	436	537	606	266	303	246	188	146	249
MIN	42	67	372	359	349	345	14	16	11	48	56	103
AC-FT	4730	10050	24050	24400	25120	33820	5090	8810	7580	7530	5810	10160

CAL YR 1986 TOTAL 43598.13 MEAN 119 MAX 637 MIN .00 AC-FT 86480
WTR YR 1987 TOTAL 84258 MEAN 231 MAX 606 MIN 11 AC-FT 167100

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW1/4SE1/4 sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, on right bank 1,500 ft downstream from Derby Dam, 3.2 mi downstream from Clark, 9 mi southwest of Wadsworth, and at mi 34.49, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,676 mi^2.

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft, from topographic map.

REMARKS.--Records good except for periods of estimated daily discharges, which are fair. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) 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.--68 years (1918-57, 1958-87), 396 ft^3/s, 286,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft^3/s, Feb. 1, 1963, gage height, 14.26 ft, from rating curve extended above 1,500 ft^3/s on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft^3/s, May 17, gage height, 5.37 ft; minimum daily, 20 ft^3/s, Aug. 6, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	347	66	62	56	105	419	776	514	e55	23	32
2	354	342	68	64	56	106	431	945	491	e60	23	32
3	356	325	71	82	56	191	448	919	483	e55	22	32
4	420	314	77	187	57	245	595	919	477	e54	22	32
5	402	322	74	123	57	266	530	972	513	e54	21	32
6	380	299	71	99	57	368	442	1020	534	e53	20	32
7	392	291	74	107	57	265	421	1010	591	e54	22	32
8	404	317	71	90	57	189	382	1010	490	e54	21	31
9	393	326	64	74	57	162	339	996	403	53	21	31
10	384	261	61	75	57	166	324	1020	281	51	20	31
11	327	212	59	78	58	159	347	1100	241	50	20	31
12	310	207	59	e76	78	167	370	1120	151	49	24	31
13	294	200	60	e74	293	399	339	947	92	45	29	31
14	297	204	63	72	384	252	344	899	118	40	29	31
15	271	192	63	72	70	180	359	923	120	39	31	32
16	260	192	62	e70	50	144	625	977	e76	37	30	30
17	259	188	62	e70	47	150	641	1140	e59	35	29	30
18	256	195	63	e70	52	174	686	1310	e59	34	28	28
19	253	206	63	e68	62	169	671	1000	e59	33	28	27
20	251	199	68	e66	85	121	688	1040	e59	32	27	25
21	245	156	72	65	105	174	636	893	e59	31	27	24
22	242	98	62	65	108	176	647	839	e58	30	27	23
23	238	100	78	65	110	181	711	889	e58	28	27	23
24	241	90	75	62	e110	221	653	905	e58	26	27	23
25	249	77	61	66	121	180	549	882	e58	26	26	24
26	260	67	62	66	118	161	620	881	e57	26	25	23
27	263	73	62	62	122	186	696	798	e56	26	30	23
28	307	74	63	78	112	235	793	742	e56	25	33	24
29	345	74	63	69	---	262	814	625	e56	25	33	24
30	340	71	62	58	---	296	852	563	e56	25	33	24
31	341	---	61	57	---	379	---	550	---	24	31	---
TOTAL	9674	6019	2040	2392	2652	6429	16372	28610	6383	1229	809	848
MEAN	312	201	65.8	77.2	94.7	207	546	923	213	39.6	26.1	28.3
MAX	420	347	78	187	384	399	852	1310	591	60	33	32
MIN	238	67	59	57	47	105	324	550	56	24	20	23
AC-FT	19190	11940	4050	4740	5260	12750	32470	56750	12660	2440	1600	1680

CAL YR 1986 TOTAL 434254 MEAN 1190 MAX 15000 MIN 14 AC-FT 861300
WTR YR 1987 TOTAL 83457 MEAN 229 MAX 1310 MIN 20 AC-FT 165500

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW1/4NW1/4 sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank 1.0 mi upstream from Numana Dam, 4 mi south of Nixon, and at mi 9.42, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,827 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to Sept. 1957 at site 1.0 mi downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of 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.

REVISED RECORDS.--WDR NV-83-1: 1980 (monthly runoff).

GAGE.--Water-stage recorder. Elevation of gage is 3,940 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river.

AVERAGE DISCHARGE.--30 years, 583 ft^3/s, 422,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,300 ft^3/s, Feb. 19, 1986, from rating curve extended above 12,000 ft^3/s, gage height, 13.01 ft; minimum daily, 8.1 ft^3/s, July 7, 1960.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a stage of 14.1 ft, from floodmarks, discharge, 14,000 ft^3/s, by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft^3/s, May 18, gage height, 6.11 ft; minimum daily, 21 ft^3/s, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	369	97	83	83	121	387	806	514	55	35	31
2	375	364	94	83	82	120	410	886	495	56	35	31
3	353	361	94	85	80	132	417	915	469	74	32	37
4	413	337	98	140	79	222	540	901	467	66	31	42
5	421	340	100	155	78	241	554	929	480	66	28	45
6	403	329	94	130	78	326	470	995	527	62	21	47
7	394	304	95	119	78	330	493	1010	555	58	26	48
8	416	323	96	123	78	223	441	1020	548	55	23	48
9	404	344	92	103	79	190	421	989	440	41	22	49
10	395	342	88	91	78	177	435	1030	332	48	23	48
11	367	227	85	e90	78	181	403	1060	275	58	32	41
12	332	229	83	e90	83	173	419	1130	222	58	28	42
13	325	221	82	e90	102	298	436	1070	156	57	28	38
14	320	221	84	e88	455	338	397	975	109	56	31	33
15	305	216	85	86	191	218	407	965	156	53	31	34
16	278	211	87	e87	92	181	599	995	116	48	28	32
17	274	213	87	e88	78	160	693	1190	100	49	29	33
18	278	206	85	e88	74	174	681	1470	81	48	27	29
19	280	222	85	e88	77	204	755	1180	74	48	26	34
20	273	220	86	e90	84	166	759	1180	65	49	32	37
21	271	216	92	e92	106	144	727	1020	55	49	29	42
22	264	144	89	95	119	209	726	944	53	43	29	37
23	266	131	87	94	121	188	780	891	46	39	43	35
24	267	130	98	91	135	223	717	950	43	36	40	25
25	266	116	93	91	145	204	585	937	43	35	39	22
26	283	103	84	99	127	186	587	957	43	34	37	23
27	289	91	84	96	131	180	652	953	46	36	35	37
28	289	101	84	92	132	215	754	882	53	37	35	40
29	359	101	83	118	---	256	821	751	51	40	34	37
30	361	104	84	100	---	279	837	599	54	41	27	33
31	355	---	83	85	---	342	---	550	---	41	29	---
TOTAL	10167	6836	2758	3050	3123	6601	17303	30130	6668	1536	945	1110
MEAN	328	228	89.0	98.4	112	213	577	972	222	49.5	30.5	37.0
MAX	421	369	100	155	455	342	837	1470	555	74	43	49
MIN	264	91	82	83	74	120	387	550	43	34	21	22
AC-FT	20170	13560	5470	6050	6190	13090	34320	59760	13230	3050	1870	2200

CAL YR 1986 TOTAL 491594 MEAN 1347 MAX 14500 MIN 43 AC-FT 975100
WTR YR 1987 TOTAL 90227 MEAN 247 MAX 1470 MIN 21 AC-FT 179000

e Estimated.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to November 1961, May 1962 to current year.
CHEMICAL ANALYSES: January 1969 to December 1971 and January 1973 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
SPECIFIC CONDUCTANCES: January to December 1969, monthly or more frequently; January 1970 to April 1980, monthly; May 1980 to September 1983, hourly; October 1983 to current year, four times per year.
BIOLOGICAL DATA: January 1973 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal).
MICROBIOLOGICAL DATA: February 1973 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.
WATER TEMPERATURES: March 1960 to November 1961 and May 1962 to March 1965, monthly; April 1965 to June 1975, monthly or more frequently; July 1975 to April 1980, monthly; May 1980 to September 1983, hourly; October 1983 to current year, four times per year.
SEDIMENT DATA: December 1964 to June 1975, monthly or more frequently; July 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 1,110 microsiemens Nov. 18, 1977; minimum, 74 microsiemens Apr. 12, 1983.
PHYTOPLANKTON: Maximum, 31,000 cells/mL July 21, 1976, Aug. 10, 1978; minimum, 150 cells/mL May 12, 1980.
FECAL STREPTOCOCCI: Maximum, 8,900 colonies/100 mL (non-ideal colony count) Nov. 29, 1984; minimum, 2 colonies/100 mL Mar. 15, 1973, Dec. 11, 1974.
WATER TEMPERATURES: Maximum, 28.5°C July 3, 4, 1981, July 30, 1982; minimum, freezing point Jan. 4, 1973, Dec. 15, 1975, Dec. 20, 1978, and Dec. 8-11, 1980.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 5,710 mg/L Feb. 18, 1986; minimum, 2 mg/L several times during period of record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV												
19...	1215	222	337	8.90	15.5	10.0	1.0	13.2	135	K4	420	92
MAR												
05...	1400	248	240	8.00	7.0	10.0	6.5	9.9	103	K20	370	71
MAY												
28...	1200	881	184	8.10	20.5	14.0	7.0	8.6	97	K48	K47	54
AUG												
12...	1330	29	940	8.60	31.0	22.0	0.30	9.5	127	K8	K15	220

K: NON-IDEAL COLONY COUNT.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 19...	23	8.4	32	1	4.1	90	5	83	32	32	0.20	15
MAR 05...	18	6.3	21	1	3.2	82	--	67	24	17	0.10	20
MAY 28...	14	4.5	15	0.9	2.4	67	--	55	11	11	<0.10	18
AUG 12...	50	22	95	3	8.7	144	3	123	120	140	0.20	23

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 AC-FT)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV 19...	--	200	0.27	0.970	0.030	1.00	0.040	0.040	0.86	0.90	0.030	0.010
MAR 05...	151	150	0.21	0.760	0.040	0.800	0.330	0.330	1.4	1.7	0.100	0.030
MAY 28...	117	110	0.16	0.680	0.070	0.750	0.120	0.130	0.68	0.80	0.070	0.020
AUG 12...	533	530	0.72	--	<0.010	<0.100	0.040	0.040	0.96	1.0	0.050	0.030

DATE	PHOS-PHORUS, ORTHO, DIS-SOLVED MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV 19...	<0.010	10	11	43	<0.5	<1	<1	<3	6	21	<5	55
MAR 05...	0.030	20	9	36	<0.5	<1	<1	<3	4	20	<5	41
MAY 28...	0.020	<10	5	25	<0.5	<1	<1	<3	3	18	<5	25
AUG 12...	0.020	<10	10	81	<0.5	<1	3	<3	2	6	<5	27

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 19...	21	<0.1	<10	1	<1	<1	210	<6	4	16	9.6
MAR 05...	13	<0.1	<10	4	<1	<1	170	<6	3	38	25
MAY 28...	6	<0.1	<10	<1	<1	<1	130	<6	<3	35	83
AUG 12...	14	0.2	<10	1	<1	<1	500	<6	5	4	0.31

BLACK ROCK DESERT

10352500 McDERMITT CREEK NEAR McDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE1/4SE1/4 sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left bank approximately 100 feet upstream from highway bridge, and 6.5 mi southwest of McDermitt.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--October 1948 to September 1984, March 1985 to current year.

REVISED RECORDS.--WSP 1214: 1949-50 (P).

GAGE.--Water-stage recorder. Elevation of gage is 4,545 ft, from topographic map. October 1948 to May 11, 1972, at site approximately 500 ft upstream from highway bridge on left bank. May 11, 1972, to April 1983, at site approximately 800 ft, upstream from highway bridge on right bank at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. One diversion for about 1,500 acres above station.

AVERAGE DISCHARGE.--38 years (1949-84, 1986-87), 34.1 ft^3/s, 24,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft^3/s, about Feb. 1, 1963, gage height, 8.64 ft; in gage well, from rating curve extended above 250 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 8.70 ft about Mar. 17, 1983; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 16	1600	ice jam	*5.39	Mar. 6	2400	*62	3.45

Minimum daily, 0.60 ft^3/s, July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	5.5	e7.2	e8.0	e8.2	13	16	27	21	3.1	3.5	3.0
2	6.8	5.3	e7.2	e8.0	e8.3	12	16	22	17	2.7	3.9	2.8
3	5.9	5.6	e7.2	e8.2	e8.8	10	16	20	15	2.6	3.6	2.8
4	6.0	5.8	e7.2	e8.2	e8.2	11	19	17	14	2.2	3.3	3.0
5	6.0	6.0	e7.2	e8.0	e8.2	17	18	16	13	1.8	3.2	3.2
6	6.0	5.6	e7.1	e8.5	e8.2	38	16	14	12	1.6	3.0	3.4
7	5.9	5.6	6.9	e8.3	e8.2	42	15	15	14	1.5	2.8	3.5
8	5.8	6.8	e7.0	e7.9	e8.2	29	17	14	19	1.3	2.8	3.6
9	5.9	5.5	e7.0	e7.6	e8.3	25	18	14	15	1.2	2.9	3.8
10	5.5	5.8	e7.0	e7.6	e8.5	22	11	14	12	1.2	2.8	3.8
11	5.2	6.3	e7.0	e7.7	e8.5	20	8.4	19	10	1.2	2.9	3.7
12	5.2	6.3	e7.0	e8.0	8.6	21	7.8	17	8.9	1.1	2.8	3.6
13	5.5	6.6	e7.0	e8.4	16	23	7.7	14	8.2	.92	2.7	3.6
14	6.2	6.8	e7.0	e8.7	27	24	7.6	13	7.6	.79	3.2	3.7
15	6.3	6.8	e7.0	e8.0	16	23	7.3	13	7.4	.63	3.9	3.6
16	5.8	6.8	e7.0	e7.3	13	21	7.8	22	10	.60	3.8	3.6
17	6.0	6.7	e7.0	e7.7	11	20	9.3	39	8.1	.62	3.5	3.8
18	5.9	6.5	e7.0	e7.7	11	22	11	39	7.7	.72	3.4	4.2
19	5.6	7.2	e7.0	e8.0	8.5	19	14	27	7.1	.90	3.2	4.4
20	5.4	7.2	e7.0	e7.6	e8.6	18	13	21	5.8	.88	3.0	4.4
21	5.3	7.2	e7.2	e7.3	e8.9	20	13	18	5.4	.77	2.9	4.3
22	5.2	7.3	e7.3	e7.4	e9.1	18	13	17	5.0	.79	3.0	4.2
23	4.9	7.2	e7.5	e7.8	9.3	18	10	15	5.0	1.5	3.0	4.0
24	4.9	7.4	e7.9	e8.3	10	18	9.3	16	4.8	2.1	3.1	4.0
25	5.2	7.3	e8.0	e8.3	13	17	9.2	33	4.4	1.8	2.9	4.0
26	5.2	7.7	e8.0	e8.3	12	17	9.6	50	3.9	1.5	2.9	3.8
27	5.2	8.1	e8.0	e8.3	14	17	10	54	3.5	1.3	3.4	3.7
28	5.0	8.3	e8.0	e8.3	13	16	11	41	3.5	1.4	3.4	4.1
29	5.1	7.6	e8.0	e8.3	---	16	14	32	3.0	1.5	3.4	4.2
30	5.2	e7.3	e8.0	e8.3	---	16	19	27	3.2	1.4	3.4	3.9
31	5.4	---	e8.0	e8.3	---	16	---	24	---	1.8	3.3	---
TOTAL	174.7	200.1	226.9	248.3	300.6	619	374.0	724	274.5	43.42	98.9	111.7
MEAN	5.64	6.67	7.32	8.01	10.7	20.0	12.5	23.4	9.15	1.40	3.19	3.72
MAX	7.2	8.3	8.0	8.7	27	42	19	54	21	3.1	3.9	4.4
MIN	4.9	5.3	6.9	7.3	8.2	10	7.3	13	3.0	.60	2.7	2.8
AC-FT	347	397	450	493	596	1230	742	1440	544	86	196	222

CAL YR 1986 TOTAL 26296.23 MEAN 72.0 MAX 1220 MIN 1.8 AC-FT 52160
WTR YR 1987 TOTAL 3396.09 MEAN 9.30 MAX 54 MIN .60 AC-FT 6740

e Estimated.

BLACK ROCK DESERT

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW1/4SE1/4 sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank 2.8 mi downstream from Little Creek, 5 mi upstream from Kings River Ranch, and 36 mi northwest of Orovada.

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--October 1962 to September 1968 and October 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,680 ft, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--17 years (1962-68, 1978-87), 7.21 ft^3/s, 5,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft^3/s, Feb. 1, 1963, gage height, 4.00 ft, from rating curve extended above 24 ft^3/s on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s, Apr. 27, 28, gage height, 1.54 ft; maximum gage height, 2.59 ft, backwater from ice; minimum daily, 0.82 ft^3/s, Aug. 6, 7, 9, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.6	e2.5	e2.7	2.6	3.2	4.6	10	3.7	1.7	.90	.89
2	2.3	2.5	e2.6	e2.7	2.8	3.1	5.2	8.4	3.5	2.0	.86	.95
3	2.4	2.5	e2.6	e2.8	2.9	3.3	5.9	8.0	3.2	1.7	.84	1.1
4	2.3	2.5	e2.7	2.8	2.7	3.4	5.8	8.3	2.9	1.6	.83	1.2
5	2.3	2.5	2.7	2.7	2.7	3.9	5.6	9.2	2.9	1.4	.83	1.2
6	2.3	2.5	2.7	2.9	2.7	7.2	5.3	9.5	2.8	1.5	.82	1.2
7	2.3	2.7	e2.6	e2.8	2.7	5.7	5.4	8.6	5.1	1.4	.82	1.2
8	2.2	e2.8	e2.6	e2.7	2.7	5.3	5.6	7.8	4.0	1.3	.84	1.2
9	2.3	2.9	e2.5	e2.6	2.7	4.7	5.4	8.0	3.4	1.3	.82	1.3
10	2.2	3.0	e2.5	e2.6	2.9	4.6	5.5	9.2	3.0	1.4	.84	1.2
11	2.1	3.1	e2.6	e2.6	3.0	4.6	6.0	7.8	3.2	1.4	.83	1.3
12	2.3	3.1	e2.8	e2.6	2.9	4.5	5.1	6.9	2.6	1.3	.82	1.4
13	2.3	3.0	e2.9	e2.5	7.4	4.6	4.7	6.6	2.4	1.1	.89	1.3
14	2.3	3.0	3.0	e2.5	4.3	4.7	4.7	5.6	2.4	1.0	1.4	1.3
15	2.3	2.8	e2.9	2.6	3.5	4.5	5.1	5.1	2.8	1.0	1.3	1.5
16	2.3	2.8	e2.9	2.4	3.6	4.2	5.6	5.5	3.7	1.2	1.1	1.6
17	2.4	2.7	e2.8	2.6	3.1	4.5	6.2	7.5	2.9	1.2	1.0	1.7
18	2.5	2.8	e2.7	2.6	3.0	4.6	7.1	5.9	3.1	1.9	.94	1.7
19	2.6	2.8	e2.7	2.7	3.4	4.6	5.9	4.8	2.6	2.1	.89	1.6
20	2.6	2.7	e2.6	2.5	3.6	4.8	4.8	4.2	2.3	1.6	.91	1.6
21	2.6	3.1	2.6	2.4	3.5	4.5	4.7	4.0	2.3	1.5	1.1	1.6
22	2.5	2.9	e2.6	2.5	3.2	3.9	6.2	3.7	2.4	1.6	1.1	1.5
23	2.5	2.9	e2.6	2.7	3.6	3.9	8.4	3.6	2.2	1.4	.97	1.6
24	2.5	2.9	e2.7	2.7	6.5	3.8	7.8	4.0	2.0	1.2	1.0	1.6
25	2.5	2.9	e2.7	2.8	6.3	3.8	10	5.4	1.9	1.1	.94	1.7
26	2.5	3.0	e2.7	2.7	7.0	3.9	12	6.3	1.7	1.0	.92	1.9
27	2.6	2.9	2.7	2.7	8.4	3.9	15	5.7	1.6	.97	.90	2.0
28	2.6	2.7	e2.7	2.8	5.5	3.8	17	4.6	1.6	.92	.92	2.0
29	2.6	2.7	e2.7	2.6	---	4.1	19	4.1	1.8	.88	.90	2.0
30	2.8	e2.5	e2.7	2.7	---	4.0	15	4.0	2.0	.88	.89	2.0
31	2.7	---	e2.7	2.6	---	4.1	---	4.0	---	.87	.90	---
TOTAL	75.2	83.8	83.3	82.1	109.2	133.7	224.6	196.3	82.0	41.42	29.02	44.34
MEAN	2.43	2.79	2.69	2.65	3.90	4.31	7.49	6.33	2.73	1.34	.94	1.48
MAX	2.8	3.1	3.0	2.9	8.4	7.2	19	10	5.1	2.1	1.4	2.0
MIN	2.1	2.5	2.5	2.4	2.6	3.1	4.6	3.6	1.6	.87	.82	.89
AC-FT	149	166	165	163	217	265	445	389	163	82	58	88

CAL YR 1986 TOTAL 3488.0 MEAN 9.56 MAX 51 MIN 1.2 AC-FT 6920
WTR YR 1987 TOTAL 1184.98 MEAN 3.25 MAX 19 MIN .82 AC-FT 2350

e Estimated.

HUALAPAI FLAT

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in E1/2 sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank 150 ft east of State Highway 34, and 25 mi north of Gerlach.

DRAINAGE AREA.--31 mi^2, approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft, approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft lower.

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

AVERAGE DISCHARGE.--14 years (1974-87), 1.08 ft^3/s, 782 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,730 ft^3/s, Jan. 31, 1963, gage height, 7.30 ft, on basis of slope-area measurement of peak flow; no flow most of the time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of unknown date reached a stage of 9.4 ft, present datum, from floodmarks, estimated discharge, 3,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s, May 16, 17, gage height, 1.07 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.36	.00	.26	.02	.83	.67	1.3	.18	2.5	.07	.0
2	.03	.18	.00	.34	.06	.81	.68	1.3	.08	1.5	.07	.0
3	.08	.12	.00	.38	.07	.79	.68	1.2	.11	.51	.07	.0
4	.06	.07	.00	.52	.04	.80	.74	.94	.32	.28	.08	.0
5	.07	.05	.00	.52	.03	.83	.71	.80	.56	.20	.08	.0
6	.06	.16	.0	.37	.06	.80	.77	.48	.72	.16	.10	.0
7	.14	.18	.01	.20	.09	.80	.75	.23	.81	.12	.24	.0
8	.15	.04	.15	.01	.14	.83	.75	.09	.88	.09	.43	.0
9	.18	.0	.15	.0	.33	.83	.65	.02	.57	.08	.72	.0
10	.17	.0	.07	.01	.56	.83	.68	.07	.46	.06	.60	.0
11	.32	.0	.04	.01	.77	.83	.68	.05	.35	.06	.40	.0
12	.37	.00	.06	.01	.83	.84	.68	.01	.19	.04	.21	.0
13	.47	.00	.07	.01	1.0	1.0	.65	.00	.10	.03	.10	.0
14	.54	.00	.12	.00	1.1	1.0	.63	.00	.10	.02	.04	.0
15	.64	.00	.17	.0	1.1	1.2	.57	.00	.45	.02	.01	.0
16	.65	.00	.20	.0	1.0	1.2	.54	3.5	.18	.02	.0	.0
17	.67	.00	.17	.0	1.0	1.2	.54	11	.05	.02	.0	.0
18	.68	.00	.20	.0	1.0	1.2	.61	11	.04	.03	.00	.0
19	.72	.0	.24	.0	.92	1.2	.52	9.5	.03	.02	.00	.0
20	.74	.0	.24	.0	.89	1.1	.50	9.2	.02	.02	.00	.0
21	.64	.01	.30	.0	.93	1.2	.60	7.1	.02	.02	.00	.0
22	.65	.02	.36	.0	.91	1.1	.57	2.7	.02	.03	.00	.0
23	.68	.02	.36	.0	.82	1.2	.58	1.0	.02	.02	.0	.0
24	.67	.04	.36	.00	.57	1.1	.53	.80	.02	.03	.0	.0
25	.67	.02	.29	.00	.65	1.1	.40	1.0	.02	.04	.0	.0
26	.68	.00	.25	.0	.56	1.1	.27	6.2	.01	.05	.0	.0
27	.63	.00	.16	.01	.68	1.0	.20	5.0	.01	.07	.0	.0
28	.58	.0	.16	.02	.70	.93	.21	2.4	.01	.07	.0	.0
29	.51	.01	.16	.03	---	.90	.44	1.1	.01	.07	.0	.0
30	.49	.0	.10	.03	---	.82	1.2	.29	.01	.07	.0	.0
31	.44	---	.22	.02	---	.68	---	.20	---	.07	.0	---
TOTAL	13.39	1.28	4.61	2.75	16.83	30.05	18.00	78.48	6.35	6.32	3.22	0.0
MEAN	.43	.043	.15	.089	.60	.97	.60	2.53	.21	.20	.10	.00
MAX	.74	.36	.36	.52	1.1	1.2	1.2	11	.88	2.5	.72	.00
MIN	.01	.00	.00	.00	.02	.68	.20	.00	.01	.02	.00	.00
AC-FT	27	2.5	9.1	5.5	33	60	36	156	13	13	6.4	.0

CAL YR 1986 TOTAL 1368.39 MEAN 3.75 MAX 279 MIN .00 AC-FT 2710
WTR YR 1987 TOTAL 181.28 MEAN .50 MAX 11 MIN .00 AC-FT 360

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW1/4SE1/4 sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi upstream from McDonald Creek, and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi^2. Area at crest-stage site, 380 mi^2.

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

REMARKS.--Records good except for period of ice-effected gage-height record, which is poor.

AVERAGE DISCHARGE.--26 years, 125 ft^3/s, 90,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s, May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft^3/s, Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*) from rating curve extended above 102 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 7	2400	229	3.86	May 20	1300	*281	4.09

Minimum daily, 5.0 ft^3/s, Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	37	36	e22	e25	35	74	146	106	20	8.1	5.2
2	37	35	39	e22	e27	34	99	133	97	20	7.6	5.0
3	36	35	35	e21	e28	36	127	113	86	23	7.2	5.3
4	34	35	35	e20	e29	44	120	103	78	20	6.7	6.0
5	33	35	36	e19	e30	53	127	95	71	18	6.4	6.5
6	33	36	36	e17	33	101	121	92	65	16	6.3	6.8
7	33	37	35	e16	34	176	125	89	71	16	6.3	6.8
8	32	35	28	e14	33	195	130	89	76	14	6.1	6.6
9	32	38	23	e13	34	150	116	94	74	14	6.0	6.5
10	32	37	e23	e12	33	122	112	100	69	14	5.7	6.3
11	31	35	e24	e11	34	111	131	102	66	16	5.5	6.1
12	30	45	e26	e11	36	96	117	94	56	15	5.4	6.1
13	30	41	e27	e11	41	107	103	92	48	13	5.3	6.1
14	31	41	e27	e11	44	99	103	87	46	12	6.7	6.0
15	31	40	e27	e11	39	93	115	84	44	12	9.4	6.2
16	31	39	e26	e10	42	84	129	109	41	12	8.8	6.5
17	31	39	e25	e10	38	75	140	211	38	11	7.9	6.8
18	33	38	e24	e11	40	91	140	242	36	13	7.3	7.2
19	33	40	e23	e11	34	80	116	234	34	13	6.7	7.3
20	35	40	e23	e11	35	78	99	258	31	12	6.4	7.2
21	35	41	e22	e11	33	69	96	222	29	13	6.4	7.1
22	35	40	e22	e12	35	67	98	181	30	15	6.9	7.0
23	35	36	e20	e14	39	66	106	154	26	13	6.5	6.8
24	34	35	e19	e15	36	66	108	144	25	12	6.2	7.0
25	34	40	e19	e17	34	62	110	148	24	10	6.3	7.0
26	33	31	e19	e21	34	65	111	160	22	9.3	6.3	7.0
27	33	41	e19	e24	32	61	116	161	20	8.9	6.1	6.8
28	33	36	e20	e25	34	60	118	157	21	8.4	5.9	7.5
29	34	37	e21	e24	---	52	123	140	21	8.9	5.7	8.0
30	36	28	e22	e23	---	58	133	125	21	8.9	5.5	7.9
31	38	---	e22	e24	---	62	---	115	---	8.5	5.4	---
TOTAL	1034	1123	803	494	966	2548	3463	4274	1472	419.9	203.0	198.6
MEAN	33.4	37.4	25.9	15.9	34.5	82.2	115	138	49.1	13.5	6.55	6.62
MAX	38	45	39	25	44	195	140	258	106	23	9.4	8.0
MIN	30	28	19	10	25	34	74	84	20	8.4	5.3	5.0
AC-FT	2050	2230	1590	980	1920	5050	6870	8480	2920	833	403	394

CAL YR 1986 TOTAL 61887 MEAN 170 MAX 983 MIN 11 AC-FT 122800
WTR YR 1987 TOTAL 16998.5 MEAN 46.6 MAX 258 MIN 5.0 AC-FT 33720

e Estimated.

OWYHEE RIVER BASIN

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'10", long 115°50'35", in NE1/4NW1/4 sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, at Wild Horse Dam on Owyhee River, 8 mi west of Gold Creek, and 13 mi southeast of Mountain City.

DRAINAGE AREA.--109 mi^2.

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 between elevations 6,138.50 ft, sill of outlet gate, and 6,205 ft spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents recorded, 80,020 acre-ft, May 15, 1984, elevation, 6,207.68 ft; minimum observed, no contents at times in each year (1938-41), 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 45,650 acre-ft, May 4, elevation, 6,195.17 ft; minimum recorded, 20,930 acre-ft, Sept. 30, elevation, 6,181.66.

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

6,180	18,670	6,190	34,820
6,182	21,400	6,192	38,780
6,184	24,390	6,194	43,010
6,186	27,630	6,196	47,520
6,188	31,110		

MONTHEND ELEVATIONS AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,191.96	38,700	--
Oct. 31	6,191.95	38,680	-20
Nov. 30	6,192.13	39,050	+370
Dec. 31	--	g39,400	+350
CAL YR 1986	--	--	+1,150
Jan. 31	--	g40,100	+700
Feb. 28	--	g40,950	+850
Mar. 31	6,194.35	43,780	+2,830
Apr. 30	6,195.07	45,380	+1,600
May 31	6,193.97	42,940	-2,440
June 30	6,190.70	36,180	-6,760
July 31	6,186.09	27,790	-8,390
Aug. 31	6,182.68	22,400	-5,390
Sept. 30	6,181.66	29,930	-1,470
WTR YR 1987	--	-17,770	-17,770

g Interpolated.

OWYHEE RIVER BASIN

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'20" (revised), long 115°50'38", in NE1/4NW1/4 sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank 500 ft downstream from Wild Horse Dam, 0.1 mi upstream from Beaver Creek, 8 mi west of Gold Creek, and 12 mi southeast of Mountain City.

DRAINAGE AREA.--209 mi^2.

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft, Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft downstream at different datum, while new dam was being constructed 300 ft downstream from old dam.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by Wildhorse Reservoir, capacity, 71,660 acre-ft, 0.1 mi upstream beginning Mar. 18, 1938.

AVERAGE DISCHARGE.--59 years (1917-25, 1936-87), 46.4 ft^3/s, 33,620 acre-ft/yr, unadjusted for storage or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft^3/s, May 5, 1922, gage height, 10.11 ft, site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 153 ft^3/s, May 12, gage height, 1.89 ft; minimum daily, 2.5 ft^3/s, Nov. 25-28, 30, Dec. 1-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	3.2	e2.5	3.0	3.2	3.0	3.0	2.7	43	129	123	78
2	7.0	e3.1	2.5	3.0	3.2	3.0	3.0	2.9	44	129	123	64
3	6.9	3.0	2.5	2.7	3.5	3.0	3.0	3.0	44	129	123	63
4	7.0	3.0	2.5	3.0	3.5	2.7	3.0	50	44	129	123	63
5	7.0	3.0	2.5	3.0	3.5	2.7	3.0	76	62	129	123	63
6	6.9	3.0	2.5	3.0	3.5	3.0	3.2	75	95	129	123	63
7	6.6	3.2	2.5	3.0	3.5	3.2	3.2	75	95	128	99	63
8	6.8	3.2	2.5	e3.0	3.2	e3.2	3.2	115	95	127	71	63
9	7.0	e3.2	2.5	e3.0	3.2	e3.2	3.2	146	95	128	72	32
10	7.0	e3.2	2.5	e3.0	3.2	e3.2	3.2	145	109	127	72	6.9
11	6.8	e3.2	2.5	e3.0	3.2	e3.1	3.2	145	130	126	71	2.7
12	9.6	3.2	2.5	e3.0	3.2	e3.1	3.2	145	130	126	71	2.7
13	7.0	3.0	2.5	3.0	3.2	e3.1	3.2	145	130	126	71	2.7
14	7.0	3.0	2.5	e2.9	3.2	e3.1	3.2	145	130	126	72	2.7
15	7.0	3.2	2.5	2.7	3.0	e3.1	3.1	145	130	126	72	2.7
16	6.6	3.2	2.5	3.0	3.0	e3.1	3.0	145	130	126	72	2.7
17	6.8	3.2	2.5	3.0	3.0	e3.1	2.9	145	130	125	72	2.7
18	6.9	3.2	2.5	3.0	3.0	e3.1	2.8	95	130	125	72	2.7
19	6.9	3.5	2.7	3.0	3.0	e3.1	2.9	43	130	125	72	2.7
20	6.8	3.5	2.7	e3.0	3.0	e3.1	3.0	43	130	125	72	2.7
21	4.6	3.2	2.7	e3.0	e3.0	e3.0	3.0	43	130	125	72	2.7
22	3.2	3.2	2.7	3.0	3.0	e3.0	3.0	43	130	125	72	2.7
23	3.2	e3.0	2.7	3.0	3.0	e3.0	3.0	43	130	124	72	2.7
24	3.2	e2.8	2.7	3.2	2.7	e3.0	3.0	43	130	124	68	2.7
25	3.2	2.5	2.7	3.2	2.7	e3.0	3.0	43	130	124	75	2.7
26	3.2	e2.5	3.0	3.2	e2.7	e3.0	2.9	43	130	124	91	2.7
27	3.2	2.5	3.0	3.2	e2.8	e3.0	2.8	43	130	124	91	2.7
28	3.1	2.5	3.0	3.2	e2.9	e3.0	2.8	43	130	124	91	8.1
29	3.0	2.7	3.0	3.2	---	e3.0	2.7	43	129	124	91	14
30	3.2	e2.5	3.0	3.2	---	e3.0	2.8	43	129	124	90	14
31	3.2	---	3.0	3.2	---	3.0	---	43	---	123	90	---
TOTAL	176.9	90.7	81.9	93.9	87.1	94.2	90.5	2359.6	3324	3905	2672	640.9
MEAN	5.71	3.02	2.64	3.03	3.11	3.04	3.02	76.1	111	126	86.2	21.4
MAX	9.6	3.5	3.0	3.2	3.5	3.2	3.2	146	130	129	123	78
MIN	3.0	2.5	2.5	2.7	2.7	2.7	2.7	2.7	43	123	68	2.7
AC-FT	351	180	162	186	173	187	180	4680	6590	7750	5300	1270

CAL YR 1986 TOTAL 26638.8 MEAN 73.0 MAX 320 MIN 2.4 AC-FT 52840
WTR YR 1987 TOTAL 13616.7 MEAN 37.3 MAX 146 MIN 2.5 AC-FT 27010

e Estimated.

LOCATION IDENTIFICATION	SITE FILE IDENTIFICATION	SPRING NAME	OWNER	USE[1]	LAND SURFACE ELEVATION (FEET)	DISCHARGE		
						DATE	FT^3/S	MEASUREMENT METHOD[2]
153 N23 E54 03DBD 1	395415115524301	THOMPSON RANCH SPRING	T M THOMPSON	I	5840	02/09/87 08/10/87	1.82 .71	C C
153 N24 E52 23DAC 1	395628116042801	SHIPLEY HOT SPRING	SADLER RANCH	I	5812	02/09/87 08/10/87	7.85 6.30	C C
155A N16 E53 08B 1	391637116021801	FISH CREEK SPRINGS		I	6100	03/27/87	11.1	C
173B N08 E55 14BCBB1	383256115453301	HAY CORRAL	FISH CREEK RANCH	I	4770	02/10/87	1.14	C
173B N08 E55 15AAAA1	383323115454401	NORTH SPRING	FISH CREEK RANCH	I	4805	02/10/87	0.45	C
173B N08 E55 15ACBD1	383311115461501	BIG SPRING	FISH CREEK RANCH	I	4820	02/10/87	0.97	C
173B N08 E55 15ADDB1	383259115460301	REYNOLDS SPRINGS	FISH CREEK RANCH	I	4770	02/10/87	0.89	C
173B N08 E57 11DDB 1	383346115313801	BLUE EAGLE SPRINGS	HOWARD SHARP	I	4765	02/10/87 08/12/87	5.92 5.66	C C
173B N08 E57 27DACC1	383103115325301	BUTTERFIELD SPRING	CARL HANKS	I	4750	02/10/87 08/13/87	1.02 1.16	C C
173B N12 E56 05ABCB1	385552115421001	LITTLE WARM SPRING		I	5590	08/13/87	2.04	C
173B N13 E56 32BACD1	385650115421301	BIG WARM SPRINGS		I	5605	08/13/87	21.3	C
179 N16 E63 29AAAA1	391345114535501	MURRY SPRINGS	CITY OF ELY	P	6600	02/12/87	11.6	C
179 N18 E64 21BDDC1	392502114464901	MCGILL SPRINGS	KENNECOTT COPPER	I	6100	02/12/87 08/11/87	13.5 8.83	C C
179 N19 E63 05CDC 1	393108114562301	CAMBELLS EMBAYMENT	WILLIAM G DAVIDSON	I	6100	02/10/87	8.79	C
183 N10 E65 19CBCC1	384422114424001	NORTH CREEK SPRING		I	8235	02/12/87 08/11/87	0.68 1.11	C C
183 N10 E65 34CDAD1	383953114005801	GEYSER SPRING		I	6480	02/12/87 08/11/87	0.72 .99	C C
203 S02 E68 04BADD1	374827114225101	PANACA SPRING		I	4770	04/15/87	2.25	C
207 N06 E60 25BDAD1	382105115104801	MOON RIVER SPRINGS	DON HUTCHINGS	I	5220	02/11/87 08/11/87	3.96 4.10	C C
207 N06 E61 18AADA1	382259115090801	HOT CREEK SPRING	WHIPPLE BROS	I	5225	02/11/87 08/12/87	14.1 7.84	C C
207 N07 E62 28ABDC1	382624115004001	BUTTERFIELD SPRINGS	WHIPPLE BROS	I	5320	02/11/87 08/12/87	2.29 4.17	C C
207 N07 E62 33BCAB1	382526115011401	FLAG SPRING 1		I	5290	02/11/87	2.32	C
207 N07 E62 33BCCB1	382522115012001	FLAG SPRING 2		I	5280	02/11/87	3.53	C
207 N07 E62 33BCCC1	382517115012001	FLAG SPRING 3		I	5290	02/11/87	2.02	C
207 N09 E61 32DABC1	383540115081801	MORMON SPRING	DON ELDRIDGE	I	5295	02/11/87	0.61	C
207 N09 E62 19DB 1	383726115025101	EMIGRANT SPRINGS		I	5480	03/26/87 08/12/87	1.77 1.88	C C
207 N11 E62 04AABA1	385158115000401	LUND SPRINGS	LUND IRRIG CO	I	5500	02/11/87	11.0	C
207 N12 E61 02ACAB1	385540115045701	PRESTON BIG SPRING	PRESTON & LUND IRRIG CO	I	5700	02/11/87 08/11/87	8.08 7.71	C C
209 S04 E60 14DBAB1	373554115125201	HIKO SPRING		I	3875	03/25/87	5.77	C
209 S06 E61 06BBBB1	372749115113401	ASH SPRINGS		I	3615	04/16/87	17.7	C
219 S14 E65 16AB 1	364329114431101	MUDDY RIVER MAIN	LDS FARM	I	1791	03/13/87	5.48	C
219 S14 E65 16BD 1	364316114431901	MUDDY RIVER WEST	LDS FARM	I	1794	03/12/87	1.14	C
219 S14 E65 21AAAA1	364236114424301	WARM SPRINGS EAST	WARM SPRNGS LEISURE PK	R	1790	03/12/87	2.36	C
230 S17 E50 15ABDA1	362835116192101	ROGERS SPRING	CALVADA CORP	I	2280	03/18/87	0.31	C
230 S17 E50 22ABAA1	362751116192701	LONGSTREET SPRING	CALVADA CORP	I	2310	03/15/87	1.93	C
230 S18 E50 03ADBA1	362502116192301	CRYSTAL POOL	CALVADA CORP	I	2200	03/18/87	5.80	C

[1] Uses: I, irrigation; P, public supply; R, recreation.

[2] Measurement method: C, current meter.

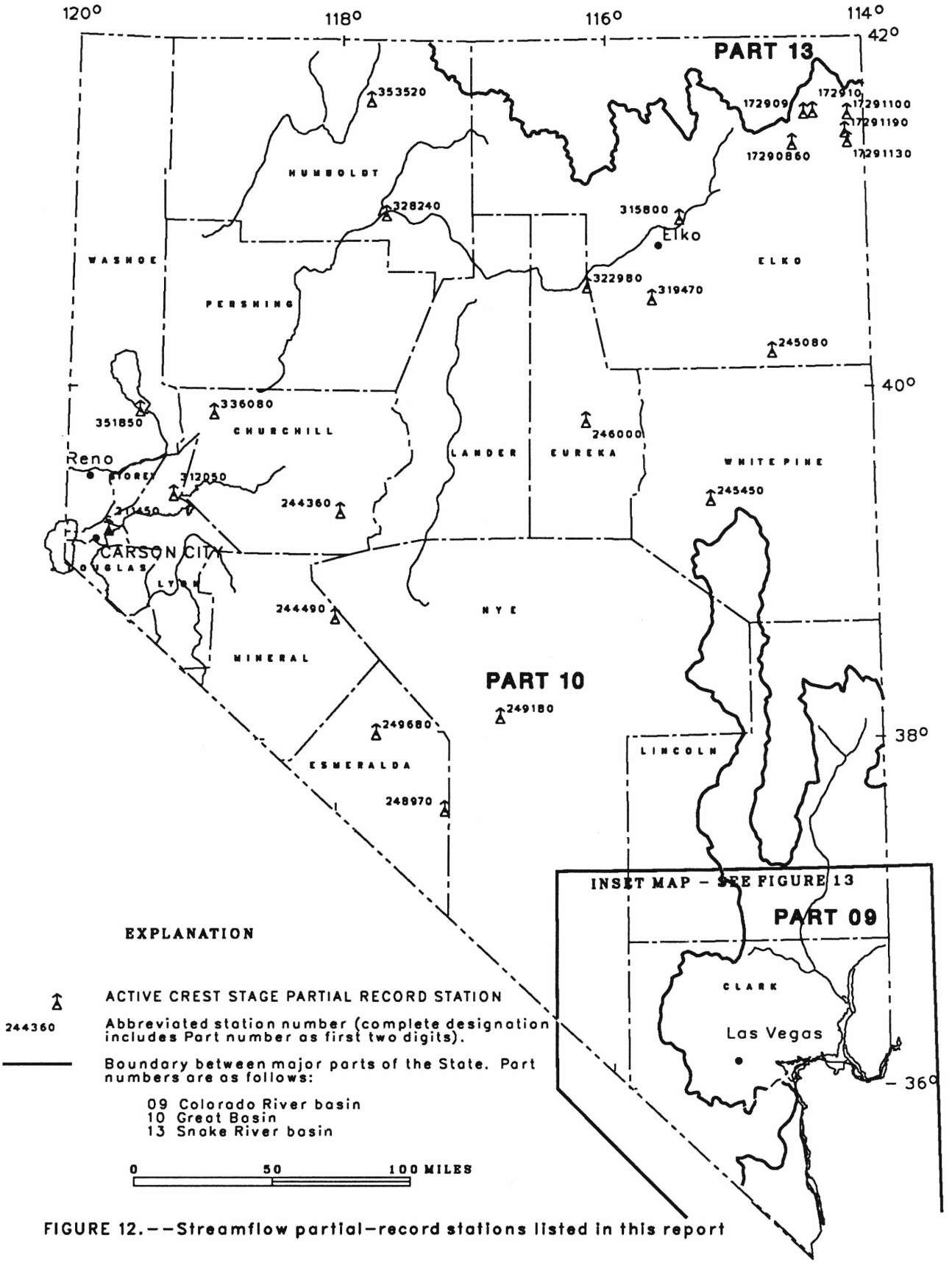


FIGURE 12.--Streamflow partial-record stations listed in this report

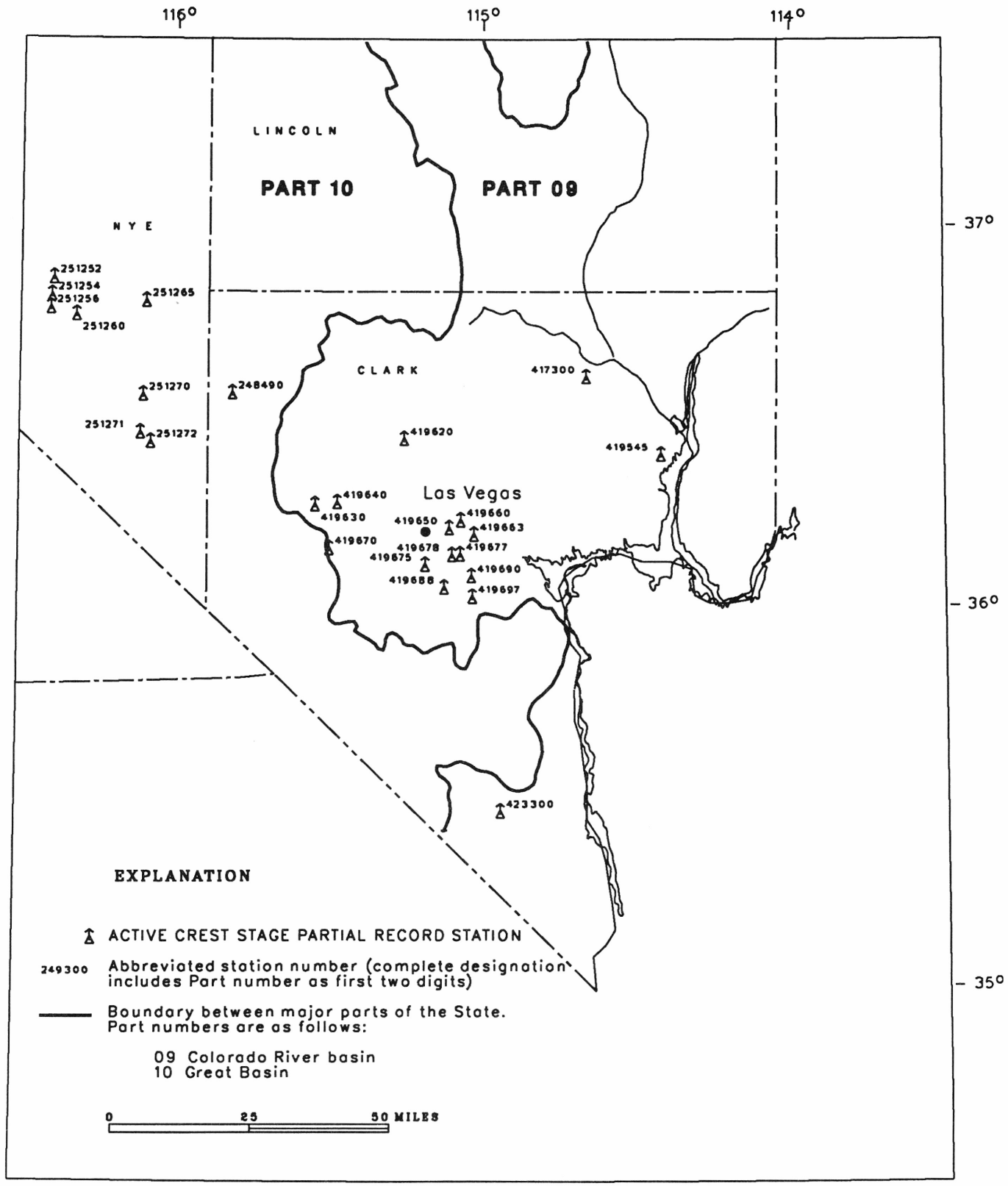


FIGURE 13.--Streamflow partial-record stations in south-east Nevada.

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges at crest-stage stations during water years 1984-87. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge values determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations or weather records, or by local inquiry, is not always certain. Only the maximum discharge for each water year is given below. Information on peaks of lesser magnitude may have been obtained but is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined.

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Colorado River basin					
09417300	California Wash near Moapa, Nev.	Lat 36°36'37", long 114°39'37", in SE1/4SE1/4 sec.24, T.15 S., R.65 E., Clark County, Hydrologic Unit 15010012, 1.6 miles northwest of Byron Interchange on Interstate 15.	--	1987	1987	--	0
09419545	Valley of Fire Wash near Overton, Nev.	Lat 36°24'18", long 114°25'05", in SE1/4SW1/4 sec.32, T.17 S., R.68 E., Clark County, Hydrologic Unit 15010005, on North Shore Road, 1.1 miles west of Fire Bay.	--	1984, 1987	7-22-84, 7-16-87	-- --	E1,220 E2,740
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE1/4SW1/4 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, 20 miles north of Las Vegas.	A115	1962-87	7-16-87	--	E5
09419630	Telephone Canyon near Charleston Park, Nev.	Lat 36°16'20", long 115°32'30", in SE1/4NW1/4 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	1962-87	3-07-87	--	<5
09419640	Kyle Canyon near Charleston Park, Nev.	Lat 36°16'40", long 115°28'10", in SE1/4SW1/4 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	1961-87	3-07-87	--	<5
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW1/4NE1/4 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, 7.5 miles north of North Las Vegas.	A62	1963-84, 1987	7-22-84, 1987	-- --	1,140 0
09419650	Las Vegas Wash at North Las Vegas, Nev.	Lat 36°12'40", long 115°06'20", in SW1/4NE1/4 sec.13, T.20 S., R.61 E., Clark County, on right bank 100 feet upstream from U.S. Highway 91, 3.5 miles northeast of Fremont Street in Las Vegas.	E720	1963-78, 1983-87	11-18-86	--	E110
09419660	Las Vegas Wash tributary near Nellis Air Force Base, Nev.	Lat 36°11'55", long 115°04'05", in NW1/4NE1/4 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	1961-87	11-18-86	--	E5

A APPROXIMATE.
E ESTIMATED.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Colorado River basin--Continued					
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, 3.7 miles south of main gage of Nellis Air Force Base.	A1.2	1963-81, 1983-87	11-18-86	--	E10
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE1/4NW1/4 sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring, 9.3 miles northwest of Blue Diamond.	8.09	1962-87	1987	--	<1
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'39", long 115°12'12", in SW1/4NW1/4 sec.19, T.21 S., R.61 E., Clark County, at Decatur Boulevard in Las Vegas.	A86	1966-81, 1985-87	11-18-86	--	E130
09419677	Flamingo Wash at Maryland Parkway, at Las Vegas, Nev.	Lat 36°07'05", long 115°08'15", in SE1/4SE1/4 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	1969-87	11-18-86	--	E180
09419678	Flamingo Wash near mouth at Las Vegas, Nev.	Lat 36°08'28", long 115°05'47", in NW1/4NW1/4 sec.7, T.21 S., R.62 E., Clark County, 120 feet upstream from culvert on U.S. Highways 93, 95, and 466, 3.2 miles southeast of Las Vegas Post Office.	A117	1969-87	11-18-86, 5-16-87	--	E800
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE1/4NW1/4 sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road, 3 miles southwest of Blue Diamond.	18.3	1961-87	11-18-87	--	<0.1
09419682	Oak Creek Wash near Blue Diamond, Nev.	Lat 36°02'41", long 115°22'38", in SW1/4SW1/4 sec.9, T.22 S., R.59 E., Clark County, Hydrologic Unit 15010015, 1.4 miles east of Blue Diamond, on Blue Diamond Boulevard.	--	1987	1987	--	0
09419685	Bird Spring Wash near Arden, Nev.	Lat 36°00'44", long 115°14'33", in NW1/4NW1/4 sec.26, T.22 S., R.60 E., Clark County, Hydrologic Unit 15010015, 0.5 mile southwest of Arden.	--	1987	11-18-86	--	<1
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NE1/4NE1/4 sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highways 93, 95, and 466, 0.7 mile southeast of Whitney.	239	1961-81, 1984-87	11-18-86	--	E150
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE1/4SE1/4 sec.15, T.22 S., R.62 Clark County, at culvert on State Highway 41, 2.5 miles west of downtown Henderson.	1.17	1967-81, 1984-87	1987	--	0

A APPROXIMATE.
E ESTIMATED.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		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, 40 miles northeast of Wells.	10.5	1969-78, 1981-87	1987	--	0
		Dixie Valley basin					
10244360	Dixie Valley tributary near Eastgage, Nev.	Lat 39°17'30", long 117°59'00", in SE1/4 sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50, 6 miles west of Eastgate.	A11	1961-87	5-23-87	--	E23
		Gabbs Valley					
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW1/4NW1/4 sec.31, T.10 N., R.36 E., Mineral County, 3.9 miles upstream from State Highway 361, about 12 miles south of Gabbs.	207	1974-78, 1981-87	3-18-87	--	E15
		Steptoe and Goshute Valleys					
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE1/4 sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93, 2.5 miles northwest of Currie.	A0.7	1961-87	1987	--	0
		Dry Lake Valley					
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW1/4 sec.13, T.4 S., R.64 E., at culvert on former U.S. 93, 14.5 miles west of Caliente.	A11.0	1967-81, 1984	8-14-84	9.40	470
		Jakes Valley					
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW1/4NE1/4 sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 feet upstream from Illipah Creek, 10.5 miles northeast of Hamilton.	5.47	1962-87	1987	--	E2.0
		Monitor Valley-Diamond Valley system					
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, at culver on State Highway 278, 24 miles northwest of Eureka.	2.12	1962-87	5-23-86	--	E3.6

A APPROXIMATE.
E ESTIMATED.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Indian Springs Valley					
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW1/4NW1/4 sec.16, or SW1/4SW1/4 sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95, 8 miles west of Indian Springs.	A29	1964-82, 1984-87	5-16-87	--	E15
		Eldorado River Valley					
10248510	Eldorado Valley tributary near Nelson, Nev.	Lat 35°48'35", long 114°53'05", in SE1/4SE1/4 sec.36, T.24 S., R.63 E., Clark County, at culvert on State Highway 165, 8 miles northwest of Nelson.	7.52	1964-77, 1979-81, 1984	8-84	--	220
		Stone Cabin and Ralston Valleys					
10249180	Saulsbury Wash near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE1/4SW1/4 sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 376, 19 miles north of Tonopah.	56	1962-85, 1987	1987	--	0
		Amargosa Desert					
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW1/4NE1/4 sec.30, T.12 S., R.47 E., Nye County, 170 feet downstream from airport road, 2.8 miles south of Beatty.	470	1963-68+ 1969-81, 1987	3-21-87	--	E60
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95, 9 miles southwest of Mercury.	110	1983-81, 1984-87	11-18-86	--	E100
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE1/4SE1/4 sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 160, 3.5 miles northwest of Johnnie, Nev.	2.21	1967-81, 1984-87	5-16-87	--	<0.1
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W1/2NE1/4 sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 160, 1.2 miles north of Johnnie, Nev.	2.49	1968-81, 1984-87	5-16-87	--	<0.1
		Pahrump Valley basin					
10251980	Lovell Wash near Blue Diamond, Nev.	Lat 36°00'10", long 115°38'38", in NE1/4SW1/4 sec.25, T.22 S., R.56 E., Clark County, 0.2 mile downstream from county road, 13.7 miles west of Blue Diamond.	52.8	1966-77+ 1987	8-03-87	4.24	E950

+ OPERATED AS A CONTINUOUS-RECORD STATION.
A APPROXIMATE.
E ESTIMATED.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Carson River basin					
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10′20", long 119°41′10", in NW1/4NE1/4 sec.13, T.15 N., R.20 E., Carson City, 0.3 mile upstream from mouth, 2.5 miles east of New Empire.	12.7	1966-78, 1980-87	5-10-87	--	E0.10
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12′55", long 119°12′25", in NE1/4SE1/4 sec.31, T.16 N., R.25 E., Lyon County, at culvert on former Alternate U.S. Highway 95, 4.8 miles northwest of Wabuska.	5.75	1968-81, 1987	5-10-87	--	E3
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13′45", long 119°13′40", in NW1/4NW1/4 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, 1987	5-10-87	--	E8
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22′40", long 119°19′00", in SE1/4SW1/4 sec.32, T.18 N., R.24 E., Lyon County, at culvert on private road, 0.3 mile south of U.S. Highway 50, 5.5 miles southwest of Silver Springs.	4.39	1962-78, 1981-87	1987	--	0
		Humboldt River basin					
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58′10", long 115°26′50", in NW1/4NW1/4 sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80, 1.5 miles north of Halleck.	A3	1966-79, 1981-87	1987	--	0
10319470	Willow Creek tributary near Jiggs, Nev.	Lat 40°30′47", long 115°39′42", in SW1/4NW1/4 sec.3, T.30 N., R.56 E., Elko County, at culvert on State Highway 288, 6 miles north of Jiggs.	0.82	1962-79, 1982-87	5-25-87	--	0
10322980	Cole Creek near Palisade, Nev.	Lat 40°35′05", long 116°08′55", in SE1/4NE1/4 sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-83, 1986-87	5-25-87	2.28	E15
10326400	Reese River tributary near Austin, Nev.	Lat 39°28′29", long 117°19′10", in NE1/4NW1/4 sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50, 14 miles west of Austin.	8.27	1968-79, 1981, 1987	6-87	--	E20
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59′55", long 117°39′30", in SE1/4NE1/4 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, 1980-87	5-25-87	--	E0.5
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51′05", long 118°55′40", in NE1/4NE1/4 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, 1984-85, 1987	5-25-87	--	E1

A APPROXIMATE.
E ESTIMATED.

Crest-Stage Partial-Record Stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Pyramid and Winnemucca Lakes basin					
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW1/4SE1/4 sec.14, T.23 N., R.22 E., Washoe County, at bridge on former Southern Pacific Railroad right-of-way, 6.5 miles west of Nixon.	1.94	1968-79, 1981-87	1987	--	0
		Black Rock Desert basin					
10353520	Eagle Creek near Orovada, Nev.	Lat 41°39'05", long 117°46'40", in SW1/4NE1/4 sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95, 5.6 miles north of Orovada.	3.44	1962-78, 1980-87	1987	--	0
10353730	Dry Creek near Gerlach, Nev.	Lat 40°43'43", long 117°46'40", in SE1/4NE1/4 sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 447, 7.5 miles west of Gerlach.	3.50	1968-82, 1987	1987	--	0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites

The following table lists measurements at miscellaneous sites from 1984-87.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Colorado River basin						
Boxcar Wash	Lake Mead	Lat 36°10′28", long 114°46′27", in SW1/4SW1/4 sec.30, T.20 S., R.65 E., Clark County, Hydrologic Unit 15010005, 7.5 miles east of Lake Mead Boulevard at North Shore Road.	--	--	7-22-84	2,660
California Wash	Muddy River	Lat 36°33′10, long 114°37′19", in NE1/4NE1/4 sec.17, T.15 S., R.66 E., Clark County, Hydrologic Unit 15010012, 3.2 miles southeast of Moapa.	208	--	7-22-84	11,000
Callville Wash	Lake Mead	Lat 36°11′48", long 114°41′15", in SE1/4NE1/4 sec.23, T.20 S., R.65 E., Clark County, Hydrologic Unit 15010005, 12.8 miles east of Lake Mead Boulevard at North Shore Road.	A17	--	7-22-84	4,140
Duck Creek South tributary	Duck Creek	Lat 36°02′36", long 115°04′56", in SE1/4SE1/4 sec.7, T.22 S., R.62 E., Clark County, Hydrologic Unit 15010015, 1.9 miles south of Sunset Road on Green Valley (Lamb) Road.	--	--	8-19-84	E5,000
Furnace Creek Wash	Salt Creek Death Valley	Lat 36°21′50", long 116°39′10", in T.18 S., R.2 E., Inyo County, Hydrologic Unit 18090202, 3.6 miles north of Ryan, Calif., at Highway 190.	16.6	--	8-15-84	E7,000
Government Wash	Lake Mead	Lat 36°08′57", long 114°50′46", in T.21 S. R.64 E., Clark County, Hydrologic Unit 15010005, 2.5 miles east of Lake Mead Boulevard at North Shore Road.	E14	--	7-22-84	10,900
Gypsum Wash	Lake Mead	Lat 36°08′42", long 114°51′23", in T.21 S., R.64 E., Clark County, Hydrologic Unit 15010005, 1.4 miles east of Lake Mead Boulevard at North Shore Road.	--	--	7-22-84	13,100
West End Wash	Callville Bay, Lake Mead	Lat 36°11′27", long 114°44′12", in sec.21 T.20 S., R.65 E., Clark County, Hydrologic Unit 15010005, 10 miles east of Lake Mead Boulevard at North Shore Road.	--	--	7-22-84	3,450
Humboldt River basin						
Cole Creek	Humboldt River	Lat 40°35′05", long 116°08′55", in SE1/4NE1/4 sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 278, 3.2 miles southeast of Palisade.	11.4	1962-83, 1986-87	11-24-86 1-29-87 4-02-87 5-27-87	0.36 .16 .17 2.09
Virgin River basin						
Pahranagat Wash	Muddy River	Lat 37°01′32", long 114°58′11", in NE1/4SE1/4 sec.36, T.10 S., R.62 E., Lincoln County, Hydrologic Unit 15010011, 500 feet east of Highway 93.	--	--	8-14-84	E7,800

A APPROXIMATE.
E ESTIMATED.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Virgin River basin--Continued				
Kershaw Canyon Wash	Meadow Valley Wash	Lat 37°35'23, long 114°31'06", in Lincoln County, Hydrologic Unit 15010013, 0.25 mile above Kersha-Ryan State Park Campground, and 1.6 miles south of Caliente.	2.26	--	8-14-84 9-20-84	1,930 2,080
Upper Overton Wash	Muddy River	Lat 36°31'25", long 114°31'52", in NE1/4NE1/4 sec.29, T.16 S., R.67 E., Clark County, Hydrologic Unit 15010012, 5 miles above Overton.	17	--	7-22-84	E5,080
		Walker River basin				
Corey Creek	Walker Lake	Lat 38°28'54", long 118°40'30", in sec.7, T.7 N., R.30 E., Mineral County, Hydrologic Unit 16050304, 6 miles southwest of Hawthorne.	19.3	--	7-30-84	11,800
		Dixie Valley				
Big Den Creek	Eastgage Wash	Lat 39°17'35", long 117°51'42", in SW1/4 sec.31, T.17 N., R.37 E., Churchill County, Hydrologic Unit 16060001, 6 miles southeast of Eastgate.	20.2	--	7-21-85	425
Buffalo Creek	Eastgage Wash	Lat 39°16'00", long 117°51'06", in E1/2 sec.7, T.16 N., R.37 E., Churchill County, Hydrologic Unit 16060001, 8 miles southeast of Eastgate.	--	--	7-21-85	E1,180
Eastgate Wash	Dixie Valley Wash	Lat 39°17'30", long 117°59'00", in sec.36, T.17 N., R.35 E., Churchill County, Hydrologic Unit 16060001, 6 miles west of Eastgage.	213	--	7-21-85	E560
East Job Canyon Wash	Dixie Valley Wash	Lat 39°39'19", long 118°11'00", in SW1/4 sec.29, T.21 N., R.34 E., Churchill County, Hydrologic Unit 16060001, 49 miles east of Fallon and 25 miles north of Highway 50.	2.2	--	8-84	E250
IXL Canyon Wash	Dixie Valley Wash	Lat 39°39'48", long 118°10'56", in NE1/4NW1/4 sec.29, T.21 N., R.34 E., Churchill County, Hydrologic Unit 16060001, 49 miles east of Fallon, and 25 miles north of Highway 50.	2.2	--	8-84	E170
Willow Canyon Wash	Dixie Valley Wash	Lat 39°38'11", long 118°10'36", in sec.32, T.21 N., R.34 E. E., Churchill County, Hydrologic Unit 16060001, 23 miles north of Highway 50, and 48 miles east of Fallon.	1.5	--	8-84	440
		Jakes Valley				
Illipah Creek below Harris Spring	Jakes Valley	Lat 39°15'34", long 115°26'08", in NW1/4NE1/4NW1/4 sec.15, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 2,500 feet downstream from Harris Spring, and 2.7 miles east of Hamilton.	--	1987-88	8-18-87 10-05-87	2.79 2.37

E ESTIMATED.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Jakes Valley--Continued				
Illipah Creek above Cow Track Spring tributary	Jakes Valley	Lat 39°15'55", long 115°25'00", in SW1/4NE1/4SW1/4 sec.11, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 1,200 feet upstream from Cow Track Spring tributary, and 3.7 miles east of Hamilton.	--	1987	8-18-87	2.80
Illipah Creek Cow Track Spring tributary	Illipah Creek	Lat 39°15'56", long 115°24'47", in NE1/4NE1/4SW1/4 sec.11, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 50 feet upstream from mouth, 2.2 miles north of Cow Track Spring, and 4.0 miles east of Hamilton.	--	1986-87	10-23-87 8-18-87	0.01 0
Illipah Creek in Harris Canyon	Jakes Valley	Lat 39°16'07", long 115°24'27", in SW1/4SE1/4NE1/4 sec.11, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 7,000 feet upstream from Cottonwood Creek, and 4.4 miles east of Hamilton.	--	1986-87	10-23-85 8-18-87	4.28 2.69
Illipah Creek above Cottonwood Creek	Jakes Valley	Lat 39°16'54", long 115°23'26", in NE1/4NW1/4SE1/4 sec.1, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 40 feet upstream from Cottonwood Creek, and 5.5 miles northeast of Hamilton.	--	1986-88	10-23-85 5-11-87 8-18-87 10-05-87	4.62 3.24 2.56 2.58
Cottonwood Creek above Aspen Spring tributary	Illipah Creek	Lat 39°13'12", long 115°24'15", in SE1/4NE1/4SE1/4 sec.26, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 5 feet upstream from Aspen Springs tributary, and 4.9 miles southeast of Hamilton.	--	1986-87	10-23-85 5-11-87 8-18-87	0 0
Unnamed Aspen Spring tributary	Illipah Creek	Lat 39°13'12", long 115°24'10", in SW1/4NW1/4SW1/4 sec.25, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 2,000 feet downstream from Aspen Springs, 50 feet upstream from mouth, and 4.9 miles southeast of Hamilton.	--	1986-87	10-23-85 5-11-87 8-18-87	0.20 .10 .10
Cottonwood Creek above unnamed tributary	Illipah Creek	Lat 39°14'50", long 115°23'43", in NE1/4SE1/4SE1/4 sec.13, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 30 feet upstream from tributary, and 4.9 miles east of Hamilton.	--	1986-87	10-23-85 5-11-87 8-18-87	0.09 .20 .01
Unnamed Cottonwood Creek tributary	Cottonwood Creek	Lat 39°14'51", long 115°23'40", in NW1/4SW1/4/SE1/4 sec.13, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 100 feet Unit 16060007, 100 feet upstream from mouth, and 4.9 miles east of Hamilton.	--	1986-87	10-23-85 5-11-87 8-18-87	0.06 .01 .01
Cottonwood Creek	Illipah Creek	Lat 39°16'54", long 115°23'22", in NE1/4NW1/4SE1/4 sec.1, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, 20 feet upstream from mouth, and 5.5 miles northeast of Hamilton.	--	1986-88	10-23-85 5-11-87 8-18-87 10- 5-87	0.10 0 0 0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Las Vegas Valley						
Flamingo Wash	Lake Mead	Lat 36°08'28", long 115°03'12", in NW1/4NE1/4 sec.9, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, above Vegas Valley Drive.	--	--	11-18-86	E1,500
Las Vegas Wash	Lake Mead	Lat 36°08'14", long 115°02'17", in SE1/4NW1/4 sec.10, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at Vegas Valley Drive.	--	--	7-22-84 7-27-84 7-28-84 8-27-84	E6,500 E3,300 E3,400 E10
Las Vegas Wash	Lake Mead	Lat 36°08'24", long 115°02'50", in SE1/4NE1/4 sec.9, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, above Vegas Valley Drive.	--	--	8-14-84 8-18-84 8-19-84 11-18-86	E1,800 E1,200 E57 E2,000
Las Vegas Wash	Lake Mead	Lat 36°10'26", long 115°04'07", in SW1/4SE1/4 sec.29, T.20 SS., R.62 E., Clark County, Hydrologic Unit 15010015, at Bonanza Road.	--	--	11-18-86	E350
Nellis Air Force Base Drain	Las Vegas Wash	Lat 36°11'52", long 115°02'35", in SE1/4NE1/4 sec.21, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, 500 feet north of Lake Mead Boulevard.	--	--	7-22-84 7-28-84 8-14-84 8-18-84	E4,700 E160 E2,400 E18
Tropicana Wash	Las Vegas Wash	Lat 36°06'41", long 115°09'14", in NW1/4 sec.22, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, at Paradise Road.	--	--	7-22-84 7-28-84 7-28-84	E710 E740 E920
Quinn River Valley						
Buffalo Canyon	Quinn River	Lat 41°25'49", long 117°45'23", in sec.13, T.41 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, about 6 miles south of Orovada.	A14	--	5-14-84	E12,000
Spring Valley						
Kalamazoo Creek	Spring Valley Creek	Lat 39°33'46", long 114°33'49", in SE1/4 sec.29, T.20 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at mouth of canyon, 1.9 miles west of State Route 893, and 16 miles northeast of McGill.	14.2	1983-87	12-08-82 6-30-83 10-26-83 6-13-84 11-07-84 2-05-85 5-24-85	5.29 28.2 6.68 27.2 7.52 5.75 12.1
10243760 Piermont Creek	Spring Valley Creek	Lat 39°29'05", long 114°33'00", in NE1/4 sec.28, T.19 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at mouth of canyon, just above diversion, and 14 miles northeast of McGill.	7.5	1972-80, 1983	12-08-82	2.60
Cleve Creek below Pete Spring	Spring Valley	Lat 39°15'47", long 114°36'33", in T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 100 feet downstream of Pete Spring outflow, and 14 miles east of Ely.	--	1982	8-24-82	1.33
Cleve Creek 3,000 feet below Pete Spring	Spring Valley	Lat 39°15'19", long 114°36'23", in T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 3,000 feet downstream of Pete Spring outflow, and 14 miles east of Ely.	--	1982	8-24-82	1.13

A APPROXIMATE.
E ESTIMATED.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Spring Valley--Continued				
Cleve Creek 4,500 feet below Pete Spring	Spring Valley	Lat 39°15'05", long 114°36'20", in T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 4,500 feet downstream of Pete Spring outflow, and 14 miles east of Ely.	--	1982	8-24-82	1.33
Cleve Creek above Kolcheck basin tributary	Spring Valley	Lat 39°14'59", long 114°36'17", in T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 2,100 feet upstream of Kolcheck basin tributary, and 14 miles east of Ely.	--	1982	8-24-82	0.96
Cleve Creek below Kolcheck basin tributary	Spring Valley	Lat 39°14'41", long 114°35'31", in T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, 800 feet downstream of Kolcheck basin tributary, and 14 miles east of Ely.	--	1982	8-24-82	0.17
Cleve Creek above North Fork Cleve Creek	Spring Valley	Lat 39°13'36", long 114°34'07", in T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, 150 feet upstream of North Fork Cleve Creek, and 16 miles east of Ely.	--	1982, 1988	8-24-82 10-06-87	0.19 .03
North Fork Cleve Creek at mouth	Cleve Creek	Lat 39°13'37", long 114°34'05", in T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, 200 feet upstream of mouth, and 16 miles east of Ely.	--	1982, 1988	8-24-82 10-06-87	8.89 5.97
Cleve Creek at campground	Spring Valley	Lat 39°13'07", long 114°33'28", in T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at culvert in Cleve Creek campground, and 16.5 miles east of Ely.	--	1982	8-24-82	8.97
		Steptoe Valley				
Big Indian Creek	Duck Creek	Lat 39°38'39", long 114°42'34", in NW1/4 sec.35, T.21 N., R.64 E., White Pine County, Hydrologic Unit 16060008, 2.5 miles east of U.S. Highway 93, and 17 miles north of McGill.	--	1983-87	11-09-83 6-16-84 10-03-84 5-23-85	1.51 3.15 1.45 1.89
Steptoe Creek above Success Summit tributary	Duck Creek	Lat 39°14'47", long 114°41'43", in SW1/4SE1/4SE1/4 sec.18, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 200 feet upstream of Success Summit tributary, 3,700 feet south of Success Summit, and 11 miles east of Ely.	--	1987	8-19-87	0.1
Unnamed Success Summit tributary	Steptoe Creek	Lat 39°14'46", long 114°41'42", in SW1/4SE1/4SE1/4 sec.18, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 100 feet upstream of mouth, 3700 feet south of Success Summit, and 11 miles east of Ely.	--	1987	8-19-87	0.02

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Steptoe Valley--Continued				
Unnamed Camel Peak tributary	Steptoe Creek	Lat 39°14'41", long 114°41'42", in SW1/4SE1/4SE1/4 sec.18, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 300 feet upstream of mouth, 2 miles northeast of Camel Peak, and 11 miles east of Ely.	--	1987	8-19-87	0.09
Steptoe Creek at 8,230 feet altitude	Duck Creek	Lat 39°14'19", long 114°41'20", in SE1/4SW1/4NW1/4 sec.20, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 400 feet upstream of road crossing, and 11 miles east of Ely.	--	1987-88	5-12-87 8-19-87 10-06-87	0.48 .22 .16
Steptoe Creek above Section 20 tributary	Duck Creek	Lat 39°14'01", long 114°40'53", in NW1/4SW1/4SE1/4 sec.20, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 200 feet upstream of section 20 tributary, and 11 miles east of Ely.	--	1987-88	5-12-87 8-19-87 10-06-87	1.38 .73 .59
Unnamed Section 20 tributary	Steptoe Creek	Lat 39°14'00", long 114°40'48", in NE1/4SW1/4SE1/4 sec.20, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 200 feet upstream of mouth, and 11 miles east of Ely.	--	1987-88	5-12-87 8-19-87 10-06-87	0.12 .06 .1
Steptoe Creek above Section 32 tributary	Duck Creek	Lat 39°12'33", long 114°41'11", in SW1/4SE1/4NW1/4 sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 100 feet upstream of unnamed section 32 spring discharge, 2,400 feet upstream of Clear Creek, and 11 miles east of Ely.	--	1987-88	5-12-87 8-19-87 10-06-87	2.72 1.79 1.65
Clear Creek	Steptoe Creek	Lat 39°12'14", long 114°41'14", in NW1/4SE1/4SW1/4 sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, 1,500 feet downstream from Clear Spring, 500 feet upstream from mouth, and 11 miles east of Ely.	--	1987-88	5-12-87 8-19-87 10-06-87	4.02 2.27 1.24
Willow Creek	Steptoe Valley	Lat 39°02'24", long 114°50'19", in NE1/4 sec.36, T.14 N., R.63 E., White Pine County, Hydrologic Unit 16060008, 3.1 miles southeast of Ward, and 15 miles south of Ely.	--	1983-87	11-09-83 6-13-84 10-03-84 5-26-85	4.76 4.11 3.55 2.45
Egan Creek	Duck Creek	Lat 39°51'48", long 114°55'37", in NE1/4 sec.14, T.23 N., R.62 E., White Pine County, Hydrologic Unit 16060008, in Egan Canyon, and 3.2 miles southwest of Cherry Creek.	--	1983-87	1-09-83 6-13-84 10-03-84 5-23-85	0.66 2.35 1.49 3.31
		White River Valley				
Water Canyon Creek at 7,720 feet altitude	White River	Lat 39°00'28", long 114°54'27", in SW1/4NW1/4NW1/4 sec.9, T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, in spring discharge area, and 10.4 miles northeast of Preston.	--	1986-87	10-08-85 5-13-87	0.28 .55

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		White River Valley--Continued				
Water Canyon Creek at 7,540 feet altitude	White River	Lat 39°00'22", long 114°54'44", in NW1/4SE1/4NE1/4 sec.8, T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, 300 feet down stream of spring discharge area, and 10.1 miles northeast of Preston.	--	1982, 1986-87	8-25-82 10-08-85 5-13-87 8-20-87 10-06-87	3.26 2.75 1.92 1.01 1.29
Water Canyon Creek at 7,160 feet altitude	White River	Lat 39°00"02", long 114°55'27", in SE1/4NW1/4SW1/4 sec.8, T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, 2,600 feet upstream from unnamed left bank tributary, and 9.4 miles northeast of Preston.	--	1982, 1986-87	8-25-82 10-08-85 8-20-87	2.98 2.87 1.57
Water Canyon Creek at 7,060 feet altitude	White River	Lat 38°59'59", long 114°55'41", in T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, 1,500 feet upstream from unnamed left bank tributary, and 9.2 miles northeast of Preston.	--	1982	8-25-82	3.55
Water Canyon Creek above unnamed left bank tributary	White River	Lat 38°59'52", long 114°55'49", in T.13 N., R.63 E., White Pine Hydrologic Unit 15010011, 500 feet upstream from unnamed left bank tributary, and 9.1 miles northeast of Preston.	--	1982, 1986-87	8-25-82 10-08-85 8-20-87	4.18 2.25 1.30
Water Canyon Creek below unnamed left bank tributary	White River	Lat 38°59'48", long 114°55'54", in T.13 N., R.63 E., WHite Pine County, Hydrologic Unit 15010011, 10 feet downstream from unnamed left bank tributary, and 9 miles northeast of Preston.	--	1982, 1986	8-25-82 10-08-85	3.42 2.54
Water Canyon Creek at 6,870 feet altitude	White River	Lat 38°59'48", long 114°56'07", in T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, 1,100 feet downstream from unnamed left bank tributary, and 8.5 miles northeast of Preston.	--	1982	8-25-82	3.00
Water Canyon Creek at 6,830 feet altitude	White River	Lat 38°59'42", long 114°56'15", in T.13 N., R.63 E., White Pine County, Hydrologic Unit 15010011, 2,100 feet downstream from unnamed left bank tributary, and 8.5 miles northeast of Preston.	--	1982, 1986	8-25-82 10-08-85	3.09 2.42
Water Canyon Creek at 6,650 feet altitude	White River	Lat 38°59'26", long 114°56'44", in NE1/4SE1/4NE1/4 sec.13, T.13 N., R.62 E., White Pine County, Hydrologic Unit 15010011, 4,500 feet downstream from unnamed left bank tributary, and 8 miles northeast of Preston.	--	1982, 1986	8-25-82 10-08-85	3.15 2.31

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites - Drought Study

The following table contains streamflow data for selected stations that were measured to indicate the severity of the drought conditions for the 1987 water year. Measurements were made during the period of base flow when streamflow is primarily from ground-water storage. Water-quality data for selected(*) sites are located in the following section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Great Salt Lake basin						
10243260 Lehman Creek	Snake Valley	Lat 39°00'46", long 114°12'53", in sec.10, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, on left bank 4.8 miles west of Baker.	A11	1948-55+, 1977	8-27-87	6.9
Ruby Valley basin						
10244745 Overland Creek	Ruby Valley	Lat 40°27'30", long 115°23'30", in SE1/4SE1/4 sec.23, T.30 N., R.58 E., Elko County, Hydrologic Unit 16060007, on left bank at mouth of canyon, 0.1 mile upstream from Humboldt National Forest boundary, about 2.2 miles north of Ruby Valley Post Office, and about 32 miles southeast of Elko.	9	1917,1918, 1959-67+, 1967-76++, 1976-81+	8-31-87	0.84
Railroad Valley (Northern Part)						
10246846 Little Currant Creek	Railroad Valley	Lat 38°50'50", long 115°22'00", in NE1/4NW1/4 sec.5, T.11 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank 0.2 miles upstream from reservoir diversion, about 2.5 miles upstream from mouth, and about 9 miles northeast of Currant.	12.9	1965-81+, 1983-86+	8-26-87	0.16
Fish Lake Valley and Columbus Salt Marsh						
10249900 Chiatovich Creek	Fish Lake Valley	Lat 37°50'00", long 118°12'10", in NE1/4NE1/4 sec.28, T.1 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, on left bank about 300 feet downstream from Middle Creek, about 5 miles west of State Highway 264, and about 10 miles northwest of Dyer.	37.3	1961-82+	9-01-87	6.8
Walker Lake basin						
10289000 Virginia Creek	East Walker River	Lat 38°11'30", long 119°12'30", near center of W1/2 sec.22, T.4 N., R.25 E., Mono County, Hydrologic Unit 16050301, on right bank about 1.2 miles downstream from Clearwater Creek, about 3 miles upstream from mouth, and about 4.2 miles southeast of Bridgeport, Calif.	63.6	1954-75+	9-23-87	5.6
10292000 Swauger Creek	East Walker River	Lat 38°17'00", long 119°17'55", in NE1/4NW1/4 sec.23, T.5 N., R.24 E., Mono County, Hydrologic Unit 16050301, on right bank about 0.8 mile downstream from Yaney Canyon, and about 4 miles northwest of Bridgeport, Calif.	52.8	1911-15, 1954-75+	9-23-87	3.5

\+ Operated as a continuous record station.
++ Operated as a crest-stage partial-record station.
A Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites - Drought Study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
		Walker Lake basin--Continued				
10295500 Little Walker River	West Walker River	Lat 38°21'39", long 119°26'38", in NW1/4NW1/4 sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 0.8 mile north of Sonora Junction, 1.5 miles upstream from mouth, and about 14 miles northwest of Bridgeport.	63.1	1910, 1945-86+	9-01-87	14.4
10299100 Desert Creek	West Walker River	Lat 38°38'55", long 119°19'30", in SW1/4SW1/4 sec.8, T.9 N., R.24 E., Lyon County, Hydrologic Unit 16050302, on left bank 40 feet upstream from diversion, about 0.5 miles upstream from Desert Creek Ranch, and about 8 miles southeast of Wellington.	50.4	1965-69+, 1970-79++	9-23-87	2.8
		Carson River basin				
10306000 Hot Springs Creek	Markleeville Creek	Lat 38°41'54", long 119°50'23", in NW1/4SE1/4 sec.24, T.10 N., R.19 E., Alpine County, Hydrologic Unit 16050201, about 0.1 mile downstream from Buck Creek, about 3 miles upstream from mouth, and about 3.2 miles west of Markleeville, Calif.	A14	1947-57+, 1977	9-28-87	.74
10308800 Bryant Creek	East Fork Carson River	Lat 38°47'38", long 119°40'13", in NE1/4NW1/4 sec.30 T.11 N., R.21 E., Douglas County, Hydrologic Unit 16050201, on right bank 500 feet upstream from Doud Springs Creek, 1.7 miles upstream from mouth, and 11 miles southeast of Gardnerville.	31.5	1961-69+, 1970-73++, 1978-80+	9-24-87	3.3
10310400 Daggett Creek	Carson River	Lat 38°57'55", long 119°50'55", in SW1/4NE1/4 sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank in Haines Canyon, 0.55 mile upstream from Foothill Road, and about 3.5 miles south-southwest of Genoa.	3.82	1964-65*, 1966-83+	9-25-87	1.0
10310500 Clear Creek	Carson River	Lat 39°06'50", long 119°47'50", in NW1/4NW1/4 sec.1, T.14 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank about 3 miles upstream from mouuth, and about 3.5 miles southwest of Carson City.	15.5	1948-62+, 1962-81++, 1984	8-27-87	1.9
Fredericksburg Canyon	West Fork Carson River	Lat 38°49'44", long 119°51'08", in NE1/4SW1/4 sec.12, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, about 0.7 mile west of Fredericksburg, Calif.	3.71	1972-73, 1974-76, 1981-83	9-25-87	1.9
Genoa Canyon	Carson River	Lat 39°00'03", long 119°42'06", in SE1/4SW1/4 sec.9 T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, about 0.7 mile downstream from confluence with Unnamed Tributary, and 0.5 mile southwest of Genoa.	2.24	1969, 1972, 1976-77, 1981-82	9-25-87	1.2

\+ Operated as a continuous record station.
++ Operated as a crest-stage partial-record station.
* Operated as a low-flow partial-record site.
A Approximately.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
		Carson River basin--Continued				
Mott Canyon	West Fork Carson River	Lat 38°55'47", long 119°50'36", in NE1/4SE1/4 sec.4, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, about 0.3 mile upstream from Foothill Road, and about 4.5 miles southwest of Minden.	A2.0	1969, 1971, 1972-73, 1976-77, 1981-83	9-25-87	2.1
Wolf Creek	East Fork Carson River	Lat 38°33'50", long 119°42'06", in sec.6, T.8 N., R.20 E., Alpine County, Hydrologic Unit 16050201, about 3.5 miles downstream from Bull Canyon Creek, about 0.3 mile downstream from Dixon Creek, and about 12 miles southwest of Markleeville, Calif. Recording gage was operated about 3 miles upstream.	--	1947-51	9-28-87	9.1
		Humboldt River basin				
10313000 Starr Creek	Humboldt River	Lat 41°01'27", long 115°15'50", in NW1/4NE1/4 sec.12, T.36 N., R.59 E., Elko County, Hydrologic Unit 16040101, about 2 miles upstream from mouth, and about 3 miles southeast of Deeth.	--	1913-24+, 1977	9-29-87	2.1
10317500 North Fork Humboldt River	Humboldt River	Lat 41°10'50", long 115°29'35", in SE1/4 sec.13, T.38 N., R.57 E., Elko County, Hydrologic Unit 16040102, on right bank 500 feet downstream from Devils Gate Canyon, about 16 miles north of Halleck, and about 26 miles upstream from mouth. Prior to Aug. 8, 1975, at site 500 feet downstream.	A830	1914-22, 1944-82+	9-02-87	5.3
10319000 South Fork Humboldt River	Humboldt River	Lat 40°34'20", long 115°32'34", in SW1/4NW1/4 sec.15, T.31 N., R.57 E., Elko County, Hydrologic Unit 16040103, on left bank about 200 feet downstream from Kleckner Creek, and about 3.3 miles east of Lee.	A54	1945-55+, 1977	9-29-87	1.2
10320000 South Fork Humboldt River	Humboldt River	Lat 40°41'05", long 115°48'45", in NW1/4SW1/4 sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank 1.5 miles upstream from Dixie Creek, and about 10.5 miles south of Elko.	A1150	1949-82+	9-02-87	3.6
10322550 Henderson Creek	Pine Creek	Lat 40°01'50", long 116°14'40", in SE1/4 sec.20, T.25 N., R.51 E., Eureka County, Hydrologic Unit 16040104, 1.5 miles upstream from Pete Hanson Creek, about 11 miles from mouth, and about 42 miles south of Palisade.	150	1972-86*	9-01-87	No flow
10322555 Pete Hanson Creek	Henderson Creek	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, Hydrologic Unit 16040104, above diversions, about 13 miles from mouth, and about 33 miles northwest of Eureka.	A 5.0	1972-86*	9-01-87	0.26

\+ Operated as a continuous record station.
* Operated as a low-flow partial-record site.
A Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites - Drought Study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Humboldt River basin--Continued						
10325500 Reese River	Humboldt River	Lat 38°51′26", long 117°28′31", in NW1/4NW1/4, sec.3, T.11 N., R.40 E., Nye County, Hydrologic Unit 16040107, about 2.5 miles upstream from Indian Creek, about 8 miles southeast of Ione, and about 58 miles southwest of Austin.	A53	1951-80+	8-31-87	1.4
Lake Tahoe basin						
10336700 Incline Creek	Lake Tahoe	Lat 39°14′25", long 119°56′38", in SW1/4NE1/4 sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 500 feet upstream from culvert on Lakeshore Boulevard, 1,000 feet upstream from mouth, just below confluence with major tributary, and about 3 miles east of Crystal Bay.	7.0	1967-69*, 1970-73+, 1974*	9-25-87	1.7
North Canyon Creek	Lake Tahoe	Lat 39°07′59", long 119°54′16", in NW1/4NW1/4SE1/4 sec.25, T.15 N., R.18 E., Carson City, Hydrologic Unit 16050101, about 1.7 miles north of Spooner Lake, and about 7 miles west of Carson City.	--	--	9-28-87	0.02
North Canyon Creek	Lake Tahoe	Lat 39°08′39", long 119°53′45", in SW1/4SW1/4 sec.19, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050101, about 3 miles north of Spooner Lake, and about 7 miles west of Carson City.	--	1977	9-28-87	0.02
Truckee River basin						
10347300 Dog Creek	Truckee River	Lat 39°33′55", long 120°01′25", in SW1/4SW1/4 sec.30, T.20 N., R.18 E., Sierra County, Hydrologic Unit 16050102, on left bank about 3.5 miles upstream from mouth, and about 4 miles northwest of Verdi.	16.2	1957-61+, 1977	10-01-87	0.64
10348850 Browns Creek	Steamboat Creek	Lat 39°20′28", long 119°49′05", in SE1/4NW1/4 sec.14, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1.5 miles upstream from mouth, and 5 miles southwest of Steamboat.	3.6	1972-84*	8-27-87	0.16
10349700 Whites Creek	Steamboat Creek	Lat 39°23′05", long 119°50′20", in SE1/4NW1/4 sec.34, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on left bank, about 4 miles above Steamboat Ditch, about 4 miles west of Steamboat, and about 10 miles south of Reno.	8.02	1962-66+, 1977	9-23-87	2.6
Franktown Creek tributary	Franktown Creek	Lat 39°12′53", long 119°53′33", in NE1/4NW1/4 sec.31, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 0.5 mile below Marlette tunnel exit, about 1.3 miles northwest of Red House, and about 7 miles northwest of Carson City.	--	1977	9-28-87	0.02

\+ Operated as a continuous record station.
* Operated as a low-flow partial-record site.
A Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites - Drought Study--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Truckee River basin--Continued				
Franktown Creek tributary	Hobart Reservoir	Lat 39°11'17", long 119°52'00", in SW1/4SE1/4 sec.5, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 0.4 mile south of Hobart Reservoir, and about 5 miles northwest of Carson City.	--	1977	9-28-87	0.69
		Black Rock Desert basin				
10353700 Leonard Creek	Quinn River	Lat 41°31'40", long 118°42'45", in SE1/4 sec.25, T.42 N., R.28 E., Humboldt County, Hydrologic Unit 16040202, on right bank, 0.7 mile upstream from Leonard Creek Ranch buildings, about 18 miles upstream from Quinn River, and about 32 miles south of Denio.	A52	1961-81+	8-26-87	2.1
		Owyhee River basin				
13176900 Jack Creek blw Schoonover Creek	Harrington Creek	Lat 41°30"30", long 116°04'20", in NW1/4SE1/4 sec.25, T.42 N., R.52 E., Elko County, Hydrologic Unit 17050105, on left bank 0.2 mile downstream from Schoonover Creek, about 2 miles upstream from mouth, and about 16 miles northeast of Tuscarora.	19.8	1962-69+, 1977	9-30-87	1.8

\+ Operated as a continuous record station.
A Approximately.

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations are referred to as miscellaneous sites.

STATION NUMBER	STATION NAME	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
09423050	COLORADO R LAGOON NORTH OF RIVIERA, AZ	10-21-87	1440	--	825
09423060	COLORADO R BLW LAGOON NORTH OF RIVIERA, AZ	10-22-87	1240	--	820
*10243260	LEHMAN C NR BAKER, NV	08-27-87	1010	7.0	36
*10244745	OVERLAND C NR RUBY VALLEY, NV	08-31-87	1335	.84	89
10245450	ILLIPAH C TR NR HAMILTON, NV	08-26-87	1310	2.2	294
*10249900	CHIATOVICH C NR DYER, NV	09-01-87	1350	6.8	49
10296000	W WALKER R BL L WALKER R NR COLEVILLE, CA	08-27-87	1230	32	210
10309000	E F CARSON R NR GARDNERVILLE, NV	08-28-87	1200	54	198
10310000	W F CARSON R AT WOODFORDS, CA	08-28-87	0930	51	66
*10310500	CLEAR C NR CARSON CITY, NV	08-26-87	1330	E1.9	160
10316500	LAMOILLE C NR LAMOILLE, NV	08-31-87	0850	3.5	175
10318500	HUMBOLDT R NR ELKO, NV	08-28-87	1030	1.1	827
*10325500	REESE R NR IONE, NV	08-31-87	1500	1.4	89
*10353700	LEONARD C NR DENIO, NV	08-26-87	1345	2.0	240
10353750	MAHOGANY C NR SUMMIT LAKE, NV	08-25-87	1630	1.3	96

STATION NUMBER	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (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)
09423050	8.30	27.0	19.5	--	--	--	270	65	25	69
09423060	8.30	27.0	17.0	--	--	--	260	65	24	73
*10243260	7.90	--	9.5	1.7	9.0	99	14	3.9	.93	1.4
*10244745	8.00	29.0	16.0	.30	8.2	100	43	14	1.9	3.2
10245450	8.80	25.0	16.0	23	8.8	114	140	49	4.2	6.4
*10249900	7.90	28.0	13.0	1.3	8.8	105	19	6.6	.57	3.0
10296000	8.70	25.5	14.0	2.2	8.8	109	46	13	3.2	26
10309000	8.90	27.0	19.0	1.4	9.7	125	65	18	4.8	16
10310000	7.90	18.0	13.0	.40	8.5	99	28	8.0	2.0	3.0
*10310500	8.30	24.0	12.5	1.5	9.0	101	61	19	3.2	9.0
10316500	8.60	17.0	12.0	0.30	9.0	100	95	35	1.7	3.0
10318500	7.90	27.0	19.0	2.8	9.4	118	310	93	18	49
*10325500	8.60	28.5	22.5	.70	7.7	115	28	8.6	1.6	8.0
*10353700	8.70	18.0	24.0	.50	7.4	103	71	22	3.9	19
10353750	8.00	21.0	15.0	.60	7.9	98	26	6.4	2.4	8.1

STATION NUMBER	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER WH IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER WH IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT WH TOT IT FIELD (MG/L AS CO3)	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)
09423050	2	3.5	--	--	--	220	57	--	8.8	--	530
09423060	2	3.5	--	--	--	220	57	--	9.1	--	530
*10243260	0.2	0.30	18	--	15	3.5	0.60	0.10	6.6	25	27
*10244745	0.2	0.60	56	--	46	2.7	0.50	0.10	13	57	65
10245450	0.2	1.4	159	6	141	12	4.1	0.10	11	153	174
*10249900	0.3	0.90	28	--	23	2.7	0.60	0.20	16	39	46
10296000	2	2.8	96	2	82	13	6.5	0.20	16	132	130
10309000	0.9	2.4	64	10	70	29	6.8	0.20	20	131	139
10310000	0.3	1.4	40	--	33	6.7	1.0	0.10	12	41	55
*10310500	0.5	2.2	95	--	78	2.7	2.8	0.10	24	108	111
10316500	0.1	1.1	112	--	92	3.8	3.0	0.10	13	107	118
10318500	1	13	226	0	185	99	96	0.60	55	542	486
*10325500	0.7	1.6	48	--	40	5.4	4.1	0.20	27	72	81
*10353700	1	3.1	83	4	75	22	12	0.20	29	156	157
10353750	0.7	5.2	47	--	38	5.2	4.1	0.10	47	95	103

* Drought study station.
E Estimated.

STATION NUMBER	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
09423050	0.72	--	0.190	--	--	--	--	--	--	--
09423060	0.72	--	0.230	--	--	--	--	--	--	--
*10243260	--	<0.010	0.140	<0.010	<0.010	--	0.50	0.010	0.010	<0.010
*10244745	--	<0.010	<0.100	0.030	<0.010	--	<0.20	<0.010	0.020	0.010
10245450	--	<0.010	0.140	<0.010	<0.010	--	0.30	0.010	0.010	<0.010
*10249900	--	<0.010	<0.100	0.010	<0.010	--	<0.20	0.030	0.010	<0.010
10296000	--	<0.010	<0.100	0.010	<0.010	--	<0.20	0.020	0.010	<0.010
10309000	--	<0.010	<0.100	<0.010	0.020	--	0.40	0.020	0.020	<0.010
10310000	--	<0.010	<0.100	<0.010	<0.010	--	1.9	0.020	0.020	<0.010
*10310500	--	<0.010	<0.100	0.010	<0.010	--	<0.20	0.040	0.020	0.010
10316500	--	<0.010	<0.100	0.030	<0.010	--	<0.20	<0.010	<0.010	<0.010
10318500	--	<0.010	<0.100	0.040	0.020	--	<0.20	<0.010	0.010	0.010
*10325500	--	<0.010	<0.100	0.020	<0.010	--	<0.20	0.050	0.040	0.020
*10353700	--	<0.010	<0.100	0.030	<0.010	0.27	0.30	0.030	0.030	<0.010
10353750	--	<0.010	0.150	0.020	<0.010	--	<0.20	0.050	0.040	0.030

STATION NUMBER	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
09423050	--	--	--	--	--	--	--	--	--	--
09423060	--	--	--	--	--	--	--	--	--	--
*10243260	70	<1	48	<0.5	1	4	<3	<1	54	<5
*10244745	<10	<1	13	<0.5	<1	2	<3	<1	19	<5
10245450	<10	2	41	<0.5	<1	<1	<3	1	4	<5
*10249900	<10	<1	6	<0.5	<1	5	<3	<1	36	<5
10296000	<10	26	28	<0.5	<1	1	<3	<1	42	<5
10309000	60	9	35	<0.5	<1	1	<3	<1	9	<5
10310000	10	1	10	<0.5	2	2	<3	1	120	<5
*10310500	<10	<1	15	<0.5	<1	5	<3	<1	240	<5
10316500	<10	<1	16	<0.5	<1	4	<3	<1	5	<5
10318500	<10	7	160	<0.5	<1	<1	<3	1	3	<5
*10325500	20	2	11	<0.5	<1	<1	<3	1	43	<5
*10353700	20	3	28	<0.5	<1	7	<3	1	54	<5
10353750	30	<1	17	<0.5	<1	<1	<3	<1	36	<5

STATION NUMBER	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
09423050	--	--	--	--	--	--	--	--	--	--
09423060	--	--	--	--	--	--	--	--	--	--
*10243260	<4	<1	<0.1	<10	<1	1	<1.0	18	<6	3
*10244745	<4	4	3.4	<10	<1	<1	<1.0	48	<6	4
10245450	6	2	<0.1	<10	<1	2	<1.0	120	<6	3
*10249900	<4	1	<0.1	<10	<1	1	<1.0	30	<6	<3
10296000	49	5	<0.1	<10	1	1	<1.0	190	<6	<3
10309000	29	10	<0.1	<10	<1	<1	<1.0	260	<6	4
10310000	<4	2	<0.1	<10	<1	<1	<1.0	63	<6	6
*10310500	10	5	<0.1	<10	<1	<1	4.0	170	<6	<3
10316500	<4	<1	0.2	<10	<1	<1	<1.0	100	<6	4
10318500	43	190	0.2	<10	<1	2	<1.0	1300	<6	7
*10325500	8	4	<0.1	<10	<1	<1	<1.0	72	<6	37
*10353700	7	5	<0.1	10	<1	1	<1.0	210	<6	7
10353750	<4	3	<0.1	<10	<1	<1	<1.0	67	<6	4

* Drought study station.
E Estimated.

STATE OF NEVADA -- HYDROGRAPHIC AREAS

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.

BLACK ROCK DESERT REGION
17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
    - (A) Rio King Subarea
    - (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
    - (A) Orovada Subarea
    - (B) McDermitt Subarea

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

HUMBOLDT RIVER BASIN
42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek -- Tenmile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpernickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
    - (A) Oreana Subarea
74. White Plains

WEST CENTRAL REGION
75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

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

WESTERN REGION
92. Lemmon V.
    - (A) Western Part
    - (B) Eastern Part
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skedaddle Creek V.
99. Red Rock V.
100. Cold Spring V.
    - (A) Long V.

CARSON RIVER BASIN
101. Carson Desert
    - (A) Packard V.
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

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

CENTRAL REGION
111. Alkali V. (Mineral)
    - (A) Northern Part
    - (B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
    - (A) Eastern Part
    - (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgage V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
    - (A) Tonopah Flat
    - (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
    - (A) Northern Part
    - (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
    - (A) Northern Part
    - (B) Central Part
    - (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
    - (A) Groom Lake V.
    - (B) Papoose Lake V.
159. Yucca Flat
160. Frenchman Flat
161 Indian Springs V.
162. Pahrump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
    - (A) Northern Part
    - (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
    - (A) Southern Part
    - (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
    - (A) Northern Part (Round V.)
    - (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippett V.
186. Antelope V. (White Pine & Elko
    - (A) Southern Part
    - (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

GREAT SALT LAKE BASIN
189. Thousand Springs V.
    - (A) Herrell Siding--Brush Creek Are
    - (B) Toana--Rock Spring Area
    - (C) Rocky Butte Area
    - (D) Montello--Crittenden Creek Area
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.

ESCALANTE DESERT
197. Escalante Desert

COLORADO RIVER BASIN
198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahranagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

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

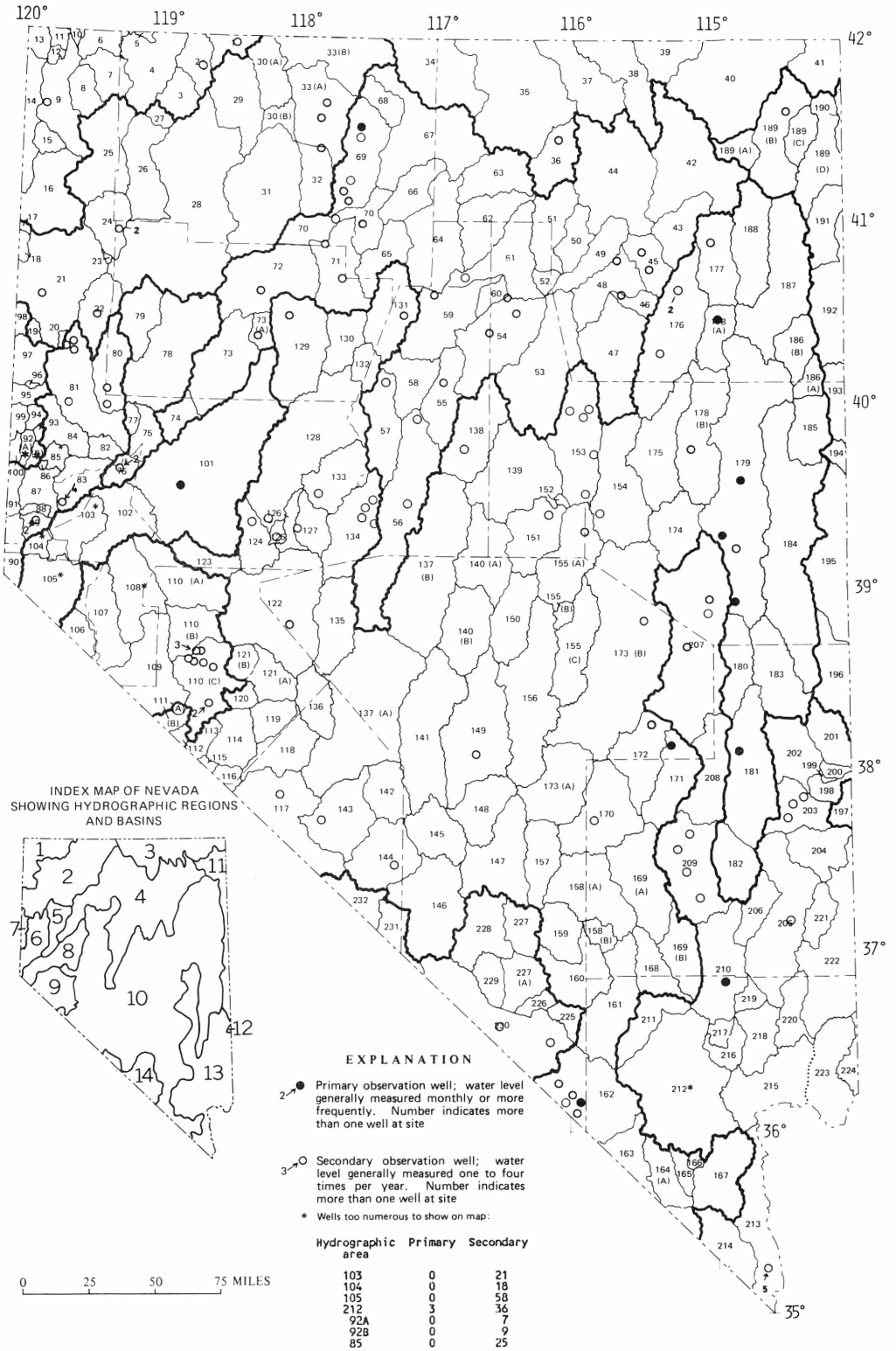


FIGURE 14.--Observation wells listed in this report.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

BUTTE VALLEY

402555114591801. Local number, 178A N30 E62 33CAC1.
LOCATION.--Lat 40°25'55", long 114°59'18", Hydrologic Unit 16060007, in Elko County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in. depth 89 ft, cased to 89 ft.
DATUM.--Elevation of land-surface datum is 6,030 ft. Measuring point: Top of casing, 1.1 ft above land-surface datum.
REMARKS.--In Butte Valley.
PERIOD OF RECORD.--1983 to February 1987.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 34.00 ft, below land-surface datum, May 26, 1985; lowest recorded, 35.20 ft below land-surface datum, Sept. 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	35.05	34.82	34.71	34.59	34.50	---	---	---	---	---	---	---
10	35.01	34.81	34.70	34.59	34.47	---	---	---	---	---	---	---
15	34.97	34.79	34.68	34.55	34.45	---	---	---	---	---	---	---
20	34.94	34.77	34.66	34.55	34.44	---	---	---	---	---	---	---
25	34.91	34.75	34.64	34.53	34.42	---	---	---	---	---	---	---
EOM	34.86	34.74	34.61	34.50	---	---	---	---	---	---	---	---

CARSON DESERT

392825118470501. Local number, 101 N19 E28 36AABC1.
LOCATION.--Lat 39°28'25", long 118°47'05", Hydrologic Unit 16050203, in Churchill County.
Owner: City of Fallon.
AQUIFER.--Volcanic rocks of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 14 in., depth 813 ft, cased to 540 ft, perforated 505 to 540 ft.
DATUM.--Elevation of land-surface datum is 3,962 ft. Measuring point: Edge of recorder shelf, 0.31 ft above land-surface datum.
REMARKS.--Mori Well.
PERIOD OF RECORD.--1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.30 ft below land-surface datum, Oct. 29, 1972; lowest measured, 44.69 ft below land-surface datum, Sept. 3, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	43.36	42.84	42.35	42.05	42.05	41.97	42.25	42.85	42.85	43.68	44.37	44.66
10	43.29	42.83	42.33	42.12	41.99	42.01	42.41	42.97	42.92	43.86	44.45	44.64
15	43.19	42.70	42.24	42.05	41.97	41.99	42.55	42.92	43.08	44.05	44.49	44.61
20	43.06	42.62	42.22	42.07	42.01	41.99	42.62	42.75	43.17	44.06	44.56	44.53
25	43.01	42.55	42.16	42.08	41.95	42.00	42.77	42.68	43.38	44.14	44.56	44.57
EOM	42.90	42.47	42.09	42.04	41.99	42.17	42.84	42.61	43.58	44.29	44.64	44.48

COAL VALLEY

380758115204601. Local number, 171 N03 E59 10BD1.
LOCATION.--Lat 38°07'58", long 115°20'46", Hydrologic Unit 16060014, in Nye County.
Owner: U.S. Geological Survey.
AQUIFER.--Guilmette Formation of Upper Devonian age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 1,837 ft, cased to 118 ft.
DATUM.--Elevation of land-surface datum is 5,600 ft. Measuring point: Top of casing, which is at land-surface datum.
REMARKS.--In Nye County.
PERIOD OF RECORD.--October 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 800.4 ft below land-surface datum, Dec. 12, 1984; lowest measured, 802.1 ft below land-surface datum, July 13, 1987.
REVISIONS.--The minimum water level for water year 1986 has been revised to 801.4 ft, Oct. 24, 25, 1983; revised figures of water levels for water year 1986 are given below.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	800.8	---	---	---	---
10	---	---	---	---	---	---	800.9	800.8	---	---	---	---
15	---	---	---	---	---	---	800.8	800.8	---	---	---	---
20	---	---	---	---	---	---	801.0	---	---	---	---	801.1
25	---	---	---	---	---	---	800.8	---	---	---	---	801.2
EOM	---	---	---	---	---	---	800.9	---	---	---	---	801.2

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

COAL VALLEY--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	801.2	801.0	801.0	---	---	---	---	---	801.6	801.9	---	---
10	800.9	801.2	801.2	---	---	---	---	---	801.5	801.9	---	801.5
15	801.1	801.1	---	---	---	---	---	---	801.5	801.9	---	801.2
20	801.1	801.1	---	---	---	---	---	---	801.6	---	---	801.1
25	801.2	801.1	---	---	---	---	---	801.3	801.8	---	---	801.2
EOM	801.0	801.2	---	---	---	---	---	801.5	801.8	---	---	801.1

COYOTE SPRING VALLEY

364743114533101. Local number, 210 S13 E63 23DDDC1.
LOCATION.--Lat 36°47'43", long 114°53'31", Hydrologic Unit 15010012, in Clark County.
Owner: U.S. Geological Survey.
AQUIFER.--Paleozoic carbonate rock.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 669 ft, cased to bottom.
DATUM--Elevation of land-surface datum is 2,175 ft. Measuring point: Top of casing, which is 1.0 ft above land-surface datum.
PERIOD OF RECORD.--July 1986 to current year.
EXTREME FOR PERIOD OF RECORD.--Highest water level recorded, 351.5 ft, July 16, 1986. Lowest water level recorded, 352.4 ft, Sept. 12, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	351.7	---	---	351.7	352.0	---	352.2
10	---	---	---	---	---	351.6	---	351.7	351.8	352.0	---	352.2
15	---	---	---	---	---	351.7	---	351.7	351.8	352.1	---	352.2
20	---	---	---	---	---	351.7	---	351.8	351.9	352.1	---	352.2
25	---	---	---	---	---	---	---	351.9	351.9	352.2	---	352.2
EOM	---	---	---	---	351.8	---	---	351.8	352.0	---	352.1	352.1

DRY LAKE VALLEY

380531114534201. Local Number, 181 N03 E63 27CA1.
LOCATION.--Lat 38°05'31", long 114°53'42", Hydrologic Unit 16060009, in Lincoln County.
Owner: U.S. Geological Survey.
AQUIFER.--Guilmette Formation of Upper Devonian age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 2,395 ft, cased to 347 ft.
DATUM.--Elevation of land-surface datum is 5,560 ft. Measuring point: Top of casing, which is at land-surface datum.
PERIOD OF RECORD.--October 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 850.4 ft below land-surface datum, Feb. 23, 1987; lowest recorded, 852.0 ft below land-surface datum, Oct. 25, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	---	---	---	---	851.6	851.3	851.2	851.3	851.2	851.1	851.2	851.1
10	---	---	---	---	851.1	851.2	851.2	851.0	851.1	851.1	851.1	851.1
15	---	---	---	---	850.9	850.6	851.3	851.1	851.1	851.2	851.1	851.1
20	---	---	---	---	851.3	851.2	851.5	850.9	851.1	851.3	851.2	851.2
25	---	---	---	---	850.9	851.3	851.2	850.8	851.4	851.2	851.2	851.0
EOM	---	---	---	---	851.4	851.3	851.0	851.2	851.2	851.3	851.3	851.2

LAS VEGAS VALLEY

361843115161001. Local number 212 S19 E60 09BCC1.
LOCATION.--Lat 36°18'43", long 115°16'10", Hydrologic Unit 15010015, in Clark County.
Owner: J. P. Goumond.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 830 ft, cased to 140 ft.
DATUM.--Elevation of land-surface datum is 2,510 ft. Measuring point: Top of casing, 0.5 ft above land-surface datum.
REMARKS.--State Engineer Well No. 427, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.65 ft below land-surface datum, June 3, 1944; lowest measured, 161.70 ft below land-surface, Sept. 10, 1978.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	156.53	154.80	153.06	151.82	152.22	153.08	153.76	154.42	156.36	157.52	160.00	160.57
10	156.34	154.20	---	152.68	151.70	152.18	152.44	154.69	156.70	159.30	160.07	160.52
15	155.90	154.00	153.70	152.30	151.60	151.74	152.24	154.72	156.64	159.42	160.48	161.10
20	155.52	153.76	152.35	152.50	152.06	152.80	153.47	154.52	157.20	159.58	160.04	161.25
25	155.05	153.50	152.16	152.35	151.95	152.74	153.50	154.94	157.40	159.70	160.34	160.92
EOM	154.52	153.22	152.02	152.12	152.21	153.76	153.06	155.55	157.39	159.90	160.45	160.80

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

361611115151301. Local number, 212 S19 E60 27BDC1.
LOCATION.--Lat 36°16'11", long 115°15'13", Hydrologic Unit 15010015, in Clark County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 905 ft, cased to 84 ft.
DATUM.--Elevation of land-surface datum is 2,360.80 ft. Measuring point: Hole on west side of casing, 1.2 ft above land-surface datum.
REMARKS.--Measurements supplied by Office of Nevada State Engineer and U.S. Geological Survey personnel.
PERIOD OF RECORD.--1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.90 ft above land-surface datum, June 3, 1946; lowest measured, 93.82 ft below land-surface datum, Sept. 8, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	---	---	---	77.06	---	---	---	---	---	---	---	---
10	---	82.81	---	---	---	---	---	---	---	---	92.42	---
15	---	---	78.48	---	---	---	---	---	89.12	---	---	
20	85.50	---	---	76.42	---	---	82.42	---	---	91.73	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
EOM	---	---	---	---	---	79.32	---	---	---	---	92.81	---

360349115100001. Local number, 212 S22 E61 04BCB1.
LOCATION.--Lat 36°03'49", long 115°10'00", Hydrologic Unit 15010015, in Clark County.
Owner: Fitzpatrick.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in., depth 355 ft above land-surface datum.
DATUM.--Elevation of land-surface datum is 2,224.91 ft. Measuring point: Top of casing, 0.8 ft above land-surface datum.
REMARKS.--State Engineer Well No. 189, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, Jan. 25, 1939; lowest measured, 169.30 ft below land-surface datum, June 24, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
5	---	---	---	161.44	---	---	---	---	---	---	---	---
10	---	163.93	---	---	---	---	---	---	---	---	166.19	---
15	---	---	161.75	---	---	---	---	---	164.76	---	---	---
20	164.38	---	---	161.88	---	---	---	---	---	166.18	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
EOM	---	---	---	---	---	161.31	---	---	---	---	166.44	---

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10ACC1.
LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.
Owner: E. S. Bowman.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 800 ft, cased to 472 ft, perforated 100 to 450 ft.
DATUM.--Elevation of land-surface datum is 2,885 ft. Measuring point: Edge of recorder shelf, 1.2 ft above land-surface datum.
REMARKS.--State Engineer Well No. 22, measurements supplied by Office of the Nevada State Engineer.
PERIOD OF RECORD.--1944, 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.34 ft below land-surface datum, Oct. 13, 1944; lowest measured, 112.70 ft below land-surface datum, Nov. 7, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	102.29	96.70	93.83	---	88.42	---	93.19	95.70	97.39	98.16	99.83	100.00
10	102.69	95.65	93.72	89.93	89.30	93.18	95.35	95.27	97.02	99.68	99.51	100.46
15	102.40	95.92	93.14	89.12	---	93.18	93.35	95.44	96.88	100.60	99.51	100.12
20	99.19	94.51	92.73	89.13	---	93.18	95.35	97.13	97.58	100.56	99.52	99.74
25	98.52	93.96	92.53	88.85	---	93.18	95.65	97.35	97.91	99.90	99.52	100.43
EOM	97.28	93.77	92.06	88.01	---	93.18	96.94	97.27	98.02	98.43	99.52	100.68

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PARADISE VALLEY

412910117321001DCP. Local number, 69 N42 E39 25CAC1.
LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.
Owner: R. Day and T. Boggio.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft, depth 17.4 ft, cased with iron.
DATUM.--Elevation of land-surface datum is 4,523 ft. Measuring point: Top of concrete floor, 5.2 ft below land-surface datum.
REMARKS.--In Paradise Valley.
PERIOD OF RECORD.--1945 to current year.
REVISED RECORDS.--WDR-NV-86-1: 1984-85.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, Sept. 23, 1955; lowest measured, 11.03 ft below land-surface datum, Nov. 16, 1961.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 22	7.88	Feb. 24	7.95	Apr. 29	7.07	June 24	4.82
Nov. 25	7.94	Mar. 26	7.89	May 27	6.03	Aug. 25	7.83
Jan. 13	7.99						

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	---	---	5.05	7.10	8.09
10	---	---	---	---	---	---	---	---	---	5.51	7.32	8.20
15	---	---	---	---	---	---	---	---	---	5.92	7.48	8.29
20	---	---	---	---	---	---	---	---	---	6.27	7.66	8.36
25	---	---	---	---	---	---	---	---	4.35	6.54	7.82	8.43
EOM	---	---	---	---	---	---	---	---	4.46	6.81	7.97	8.48

STEPTOE VALLEY

385521114503601. Local number, 179 N12 E63 12AB1.
LOCATION.--Lat 38°55'21", long 114°50'36", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFERS.--Ely Limestone of Middle Pennsylvanian Age, Chainman Shale of Upper Mississippian Age.
WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth unknown, cased to 958 ft, perforated 500 to 543 ft, and 743 to 940 ft.
DATUM.--Elevation of land-surface datum is 7,320 ft. Measuring point: Top of casing, 1.3 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 408.7 ft below land-surface datum, June 19, 1986; lowest measured, 414.4 ft below land-surface datum, Nov. 8, 1983, Sept. 28-30, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	410.6	410.8	411.3	411.5	411.8	412.1	---	---	413.0	412.8	413.0	413.7
10	410.5	410.9	411.4	412.0	411.8	412.1	---	---	412.9	412.7	413.1	413.9
15	410.6	410.9	411.4	411.7	411.7	411.9	---	---	412.8	412.7	413.1	413.9
20	410.7	411.1	411.5	411.9	411.8	412.0	---	---	412.8	412.7	413.4	414.1
25	410.8	411.1	411.6	411.9	411.7	412.2	---	---	412.9	412.7	413.5	414.3
EOM	410.7	411.2	411.7	411.8	412.0	---	---	413.0	412.8	412.8	413.6	414.4

391634114484901. Local number, 179 N16 E64 06CBDC1.
LOCATION.--Lat 39°16'34", long 114°48'49", Hydrologic Unit 16000008, in White Pine County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary Age.
WELL CHARACTERISTICS.--Drilled stock well, diameter 6 in., depth 306 ft, cased to 306 ft, perforated 270 to 306 ft.
DATUM.--Elevation of land-surface datum is 6,407 ft. Measuring point: Top of casing, 1.5 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1951, 1965, 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 224.1 ft below land-surface datum, July 14-15, 1985; lowest measured, 268.5 ft below land-surface datum, June 10, 1951.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	230.3	231.7	232.5	232.3	232.3	232.6	233.2	233.3	233.3	233.6	234.2	235.3
10	230.4	232.0	232.6	232.5	232.1	232.7	233.2	233.2	233.3	233.7	234.3	235.5
15	230.8	232.2	232.6	232.2	232.0	232.6	233.3	233.2	233.3	233.7	234.6	235.7
20	231.0	232.3	232.6	232.3	232.3	233.0	233.4	233.1	233.4	233.9	234.7	236.0
25	231.3	232.4	232.6	232.3	232.4	233.0	233.3	233.0	233.5	233.9	234.9	236.1
EOM	231.6	232.6	232.4	232.1	232.5	233.1	233.2	233.2	233.6	234.1	235.1	236.4

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

STEPTOE VALLEY--Continued

393310114475001. Local number, 179 N20 E64 32C2.
LOCATION.--Lat 39°33'10", long 114°47'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled test well, diameter 10 in., depth 110 ft, cased to 122 ft, perforated 20 to 120 ft.
DATUM.--Elevation of land-surface datum is 6,070 ft. Measuring point: Top of casing, 1.0 ft above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1918, 1949-57, 1959, 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.44 ft below land-surface datum, Apr. 18, 1987; lowest measured, 17.87 ft below land-surface datum, Dec. 17, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	8.47	7.97	7.63	7.33	7.11	6.75	6.50	6.58	6.64	7.67	8.23	8.46
10	8.36	7.92	7.59	7.31	7.02	6.69	6.47	6.62	6.76	7.80	8.25	8.46
15	8.29	7.85	7.53	7.27	6.95	6.59	6.48	6.67	6.95	7.95	8.29	8.48
20	8.21	7.80	7.49	7.26	6.90	6.56	6.54	6.56	7.15	8.05	8.32	8.45
25	8.14	7.74	7.44	7.22	6.84	6.51	6.54	6.51	7.34	8.05	8.38	8.40
EOM	8.04	7.70	7.38	7.15	6.82	6.50	6.54	6.48	7.51	8.13	8.43	8.34

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 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.
Independent City code: 510, Carson City.
Water-use codes: F, fire; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.
Geologic-unit codes: 100VLFL, Cenozoic valley-fill deposits; 110LSVG, Quaternary Las Vegas Formation; 110VLFL, Quaternary valley fill, undifferentiated; 111FLDP, Holocene flood-plain deposits; 121 MDCK, Pliocene Muddy Creek Formation; 122ALTA, Miocene Alta Formation.
Aquifer codes: A, artesian; U, unknown; W, watertable.

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
1	N47 E30 15CDCD1	415800118370001	PINE FOREST FARM	13	I	110VLFL	U	200.
2	N45 E28 10CAB 1	415000118440001	ALDER CREEK RANCH	13	S	110VLFL	U	48.
9	N43 E19 33BB 1	413630119520001		31	S	110VLFL	U	70.
21	N31 E19 26B 1	403200119490001	USBLM	31	S	110VLFL	U	111.
22	N30 E23 29B 1	402700119250001		31	U	110VLFL	U	109.
24	N35 E24 32DDC 1	405208119161501	USGS	27	U	110VLFL	W	15.
24	N35 E24 32DDC 2	405208119161502	USGS	27	U	110VLFL	A	66.
32	N42 E37 32AAAC1	412854117495001	E F RUNOW	13	I	110VLFL	U	250.
33A	N42 E37 04BDCA1	413300117494001	DONALD MORRIS	13	I	110VLFL	U	360.
33A	N44 E37 33AAAA1	412934117483001	ALBISU	13	I	110VLFL	U	550.
36	N41 E52 28AADA2	412534116072602	ELLISON	7	U	110VLFL	U	200.
45	N33 E58 19ADDD1	404350115281001	H CONRAD	7	H	110VLFL	W	16.
45	N34 E57 24CDDD1	404822115300801	BALBOA	7	H	110VLFL	A	97.
46	N31 E56 16ADDA1	403400115400001		7	S	110VLFL	U	193.
48	N33 E56 08CAAD1	404521115395801	MOFAT	7	H	110VLFL	W	12.
54	N29 E48 03BDCB1	402450116324001	DEAN RANCH	11	S	110VLFL	A	53.
54	N29 E48 29CACC2	402100116352001	BEOWAWE FARMS	11	I	110VLFL	U	300.
54	N31 E49 05CACC1	403500116284501	WILLIAM CONNELLY	11	H	110VLFL	W	10.
55	N26 E45 28CBAC1	400540116550001	HENRY FILIPPINI	15	S	110VLFL	U	16.
56	N18 E43 06DD 1	392700117110001	DARRELL BLANTON	15	I	110VLFL	U	241.
56	N24 E43 35CC 1	395335117062401	STIENEN RANCH	15	I	110VLFL	U	202.
57	N25 E41 12BCC 1	400320117190101	USGS	15	U	110VLFL	W	68.
59	N30 E44 18ADBD1	402831117034201	COPPER CANYON MINING CO	15	I	110VLFL	U	264.
61	N32 E45 11DACC1	403920116520001	USGS	15	U	110VLFL	U	197.
69	N37 E38 24ACC 1	410415117384701	USGS	13	U	110VLFL	W	38.
69	N37 E39 15CBC 1	410448117344901	USGS	13	U	110VLFL	W	30.
69	N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	58.
69	N38 E39 28CDDD1	410806117353501	W G LONG	13	I	110VLFL	U	256.
69	N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
70	N36 E38 05DDCD1	410111117431801	USGS	13	U	110VLFL	W	24.
70	N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71	N33 E38 32BABB1	404138117441501	USBLM GUTHRIE WELL	27	U	110VLFL	W	54.
71	N35 E37 34AACC2	405130117480002		13	U	110VLFL	U	83.
72	N32 E33 33AAAA1	403620118153001	C & C CAMPBELL	27	I	110VLFL	U	288.
73A	N29 E33 33AAAC1	402000118160001	LOVELOCK MEADOWS	27	P	110VLFL	U	395.
76	N20 E25 18CCC 1	393539119133001	JOE GARBARINO	19	U	110VLFL	U	28.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

Depths, diameter, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Well diameter is rounded to nearest inch. Elevation is that of LSD, with reference to sea level.
Period of record: Interval shown spans period from earliest measurement to latest measurement, and may include intervals with no record.
Water levels: Levels above LSD are listed as negative values.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4380.	1968-	40.67	03/11/86	56.80	05/01/69	44.09	03/26/87
8.		4230.	1968-	3.49	03/11/86	13.76	03/22/77	5.14	03/26/87
6.		5200.	1968-	10.22	03/13/72	14.66	04/10/79	13.44	04/16/87
6.		4000.	1966-	37.91	09/15/66	54.97	04/17/79	53.59	04/17/87
6.		4013.	1966-	45.20	04/09/69	52.94	04/17/87	52.94	04/17/87
2.		4031.	1967-	3.77	04/16/73	15.02	06/13/86	14.85	04/16/87
2.		4031.	1967-	-2.25	06/14/67	13.94	04/16/87	13.94	04/16/87
16.	150.- 250.	4200.	1971-	46.06	04/10/85	78.11	04/29/71	48.45	03/26/87
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	93.40	03/26/87
16.	175.- 545.	4280.	1972-	105.69	04/06/78	144.57	04/06/82	128.03	03/26/87
2.		5700.	1970-	45.25	04/16/86	47.78	04/16/81	46.44	04/30/87
48.		5950.	1934-	0.09	04/28/46	18.00	11/01/40	2.07	05/05/87
8.		5550.	1944-	-1.48	01/28/53	7.10	12/26/52	-0.49	05/05/87
6.		5650.	1964-	70.78	04/02/86	90.92	03/17/70	73.40	05/05/87
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	7.04	05/05/87
8.		4740.	1973-	-1.11	03/19/86	0.66	03/25/85	-0.84	04/06/87
14.		4800.	1958-	54.30	04/06/87	69.28	09/28/66	54.30	04/06/87
48.		4698.	1948-	4.46	04/26/84	8.33	09/22/54	6.76	05/06/87
10.		5100.	1965-	4.47	05/06/85	7.88	04/06/87	7.88	04/06/87
16.	44.- 204.	5730.	1959-	4.54	03/26/85	8.88	03/20/68	7.64	03/20/87
12.		5220.	1961-	-1.83	03/26/85	2.78	03/20/68	0.63	03/20/87
2.	65.- 67.	4948.	1964-	38.83	04/15/70	58.54	08/05/64	52.25	03/20/87
12.		4609.	1947-	5.25	03/16/51	6.91	03/29/82	6.31	03/25/87
6.		4520.	1949-	4.08	07/10/52	10.88	10/04/61	8.98	03/25/87
1.		4317.	1960-	19.20	11/14/72	28.22	11/19/75	21.48	03/27/87
1.	28.- 30.	4326.	1968-	22.77	04/18/72	29.18	11/03/81	25.78	03/27/87
10.	20.- 75.	4317.	1968-	8.10	11/08/77	29.80	09/03/81	21.18	03/26/87
16.		4317.	1968-	9.86	04/18/72	26.44	11/21/81	20.86	03/26/87
8.		4414.	1970-	0.69	04/23/71	9.01	11/12/81	6.78	03/26/87
1.		4400.	1960-	4.86	04/25/69	13.49	09/25/61	10.00	03/27/87
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	34.89	03/27/87
6.		4432.	1939-	28.40	07/24/46	39.46	03/28/79	28.80	03/27/87
10.		4301.	1946-	17.68	05/16/46	29.00	03/28/79	22.05	03/27/87
14.		4150.	1954-	26.39	04/11/85	45.85	03/25/70	27.33	03/29/87
12.	100.- 395.	4300.	1968-	119.10	04/23/69	126.15	04/06/83	121.21	03/27/87
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	7.27	03/17/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
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	U	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 33BABC2	392320119375302	MERAK DEVEL CORP	29	F		U	200.
85 N20 E20 01CBAB1	393743119413601	CUSTOM BUILDERS	31	H		U	130.
85 N20 E20 01DACB1	393737119411501	CUSTOM BUILDERS	31	H		U	125.
85 N20 E20 03BCDC1	393744119435101	JIM PATERSON	31	H		U	379.
85 N20 E20 03DBAC1	393738119432101	E A BECKER	31	P		U	815.
85 N20 E20 10CDAB1	393637119432901	DAVID L KILEY	31	S		U	105.
85 N20 E20 10DBBC1	393649119432301	DAVID L KILEY	31	S		U	300.
85 N20 E20 10DBBC2	393649119432302	DAVID L KILEY	31	S		U	250.
85 N20 E20 11BDDA1	393655119421901	JOE GASPARI	31	S		U	199.
85 N20 E20 21AABC1	393529119441601	DEAN SMITH	31	P		U	194.
85 N20 E20 21BDDA1	393513119443501		31	U		U	215.
85 N20 E21 07BCBA1	393707119403001	JIM SWEGER	31	U		U	119.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
10.		4135.	1953-	3.33	09/02/53	24.45	03/31/86	21.86	03/17/87
6.		3845.	1969-	20.39	04/03/85	27.14	07/14/70	24.50	03/17/87
48.		3800.	1968-	2.47	04/18/73	4.30	03/31/86	4.26	03/17/87
8.		3988.	1970-	10.25	03/09/72	24.28	03/12/84	17.60	03/17/87
2.	45.- 47.	3845.	1967-	5.90	07/28/67	11.35	04/21/83	10.63	03/17/87
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	18.65	03/17/87
2.	58.- 60.	3865.	1967-	15.31	07/28/67	19.61	04/21/83	18.18	03/17/87
6.	60.- 290.	6355.	1977-	67.44	03/04/87	74.93	04/09/82	67.44	03/04/87
6.	265.- 295.	5980.	1977-	63.65	05/01/84	91.59	04/04/79	67.01	03/04/87
6.	160.- 180.	6242.	1977-	75.60	03/11/86	98.67	04/04/79	85.39	03/04/87
9.	80.- 200.	5785.	1980-	10.47	05/01/84	20.11	03/11/81	13.80	03/04/87
6.	101.- 130.	4490.	1979-	7.99	03/13/86	12.10	04/21/81	11.33	03/03/87
6.	105.- 125.	4504.	1979-	11.74	03/13/86	22.84	07/18/80	12.78	03/03/87
8.		4642.	1964-	67.67	04/20/83	103.06	07/11/79	72.41	10/03/86
								72.44	11/17/86
								72.77	12/19/86
								73.26	01/28/87
								82.87	03/03/87
								73.40	03/11/87
								82.39	04/22/87
								82.46	06/06/87
								82.60	07/10/87
								82.66	08/14/87
16.	238.- 813.	4520.	1964-	54.90	01/18/80	61.58	06/23/81	55.35	10/03/86
								55.34	11/17/86
								56.79	12/19/86
								56.06	01/28/87
								55.92	03/03/87
								56.14	07/10/87
8.	59.- 105.	4497.	1979-	25.19	09/20/80	30.10	04/04/85	29.88	03/03/87
12.	100.- 300.	4485.	1979-	18.64	07/10/79	32.70	04/20/83	21.54	10/03/86
								21.54	11/17/86
								22.04	12/19/86
								22.48	01/28/87
								22.79	03/03/87
								22.80	03/11/87
								23.21	04/22/87
								27.74	06/06/87
								22.84	07/10/87
								23.18	08/14/87
10.	50.- 250.	4485.	1979-	19.36	07/10/79	23.73	04/04/85	23.36	03/03/87
6.	80.- 160.	4463.	1964-	0.64	03/13/86	5.27	08/31/64	1.21	03/03/87
12.	152.- 194.	4497.	1979-	90.80	01/19/81	104.21	07/02/86	99.39	03/03/87
8.		4540.	1979-	89.54	01/19/81	107.33	08/14/87	101.54	10/03/86
								103.98	11/17/86
								98.44	12/19/86
								101.83	01/28/87
								97.68	03/03/87
								97.53	03/11/87
								99.73	04/22/87
								101.45	06/06/87
								103.74	07/10/87
								107.33	08/14/87
6.		4503.	1979-	26.49	07/03/86	28.82	07/24/79	26.80	10/03/86
								26.60	11/17/86
								26.50	12/19/86
								27.34	01/28/87
								26.67	03/04/87
								28.20	03/11/87
								27.68	04/22/87
								26.70	06/06/87
								26.60	08/14/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
85 N20 E21 07CBCB1	393648119403301	JIM SWEGER	31	U		U	350.
85 N20 E21 07CCCC1	393631119403401	JIM SWEGER	31	U		U	44.
85 N20 E21 18DABD1	393558119395001	RICHARD BAILEY	31	I		U	262.
85 N20 E21 18DADB1	393544119394701	HARLEY A MILLS	31	I		U	121.
85 N20 E21 18DADB2	393554119395001		31	I		U	
85 N20 E21 18DDBA1	393548119395101	RICHARD L BAILEY	31	I		U	250.
85 N21 E20 12DACD1	394154119405401	WILLIAM L WARDRUP	31	H		U	500.
85 N21 E20 24ACDB1	394025119410601	RICHARD T DONOVAN	31	H		U	303.
85 N21 E20 24BCBA1	394032119414601	RICHARD T DONOVAN	31	I		U	217.
85 N21 E20 26DDCC1	393904119420701	ROCKWELL INTERNATIONAL	31	N		U	787.
85 N21 E20 35ADAA1	393847119415101	SKY RANCH	31	P		U	180.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.	100.- 350.	4490.	1979-	4.06	03/04/87	5.91	07/18/80	5.17	10/03/86
								4.96	11/17/86
								5.80	12/19/86
								4.86	01/28/87
								4.06	03/04/87
								4.91	03/11/87
								5.07	04/22/87
								5.20	06/06/87
								5.16	07/10/87
								5.08	08/14/87
11.		4514.	1979-	25.89	10/17/80	28.51	06/23/81	26.40	10/03/86
								26.10	11/17/86
								26.10	12/19/86
								26.00	01/28/87
								26.13	03/04/87
								26.10	03/11/87
								26.30	04/22/87
								26.40	06/06/87
								26.30	07/10/87
								26.20	08/14/87
9.	86.- 126.	4528.	1979-	31.96	08/04/86	36.99	07/23/79	32.13	10/03/86
								32.10	11/17/86
								32.07	12/19/86
								32.87	03/04/87
10.	93.- 121.	4531.	1979-	47.02	04/04/85	51.58	07/03/86	48.56	03/04/87
		4530.	1980-	39.15	03/04/87	45.18	05/02/84	39.15	03/04/87
8.		4538.	1979-	40.03	05/15/84	44.73	07/23/79	43.13	10/03/86
								42.52	11/17/86
								43.39	12/19/86
								41.97	01/28/87
								41.67	03/04/87
								42.97	03/11/87
								42.58	04/22/87
								41.98	08/14/87
6.	310.- 494.	4875.	1979-	340.36	07/03/79	344.72	03/13/86	341.40	10/03/86
								341.20	11/17/86
								341.20	12/19/86
								341.20	01/28/87
								341.48	03/03/87
								341.20	03/11/87
								341.20	04/22/87
								341.10	06/06/87
								341.20	07/10/87
								341.70	08/14/87
6.	223.- 303.	4672.	1979-	168.90	05/02/84	198.60	04/21/81	198.30	03/17/87
12.	137.- 217.	4569.	1979-	95.18	04/20/83	103.01	12/19/86	96.69	10/03/86
								100.30	11/17/86
								103.01	12/19/86
								95.79	01/28/87
								95.66	03/03/87
								95.64	03/11/87
								102.77	04/22/87
								97.84	06/06/87
								97.52	07/10/87
								101.88	08/14/87
10.	37.- 787.	4550.	1964-	63.09	03/18/81	69.06	04/21/81	64.40	10/03/86
								64.30	11/17/86
								64.40	12/19/86
								64.40	01/28/87
								64.32	03/03/87
								64.30	03/11/87
								64.20	04/22/87
								64.10	06/06/87
								64.10	07/10/87
								64.10	08/14/87
12.	70.- 170.	4544.	1979-	50.89	04/14/82	59.47	03/18/81	53.20	10/03/86
								52.60	11/17/86
								52.50	12/19/86
								52.30	01/28/87
								52.07	03/03/87
								52.10	03/11/87
								52.10	04/22/87
								52.40	06/06/87
								52.60	07/10/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
85 N21 E20 35ADAA1	393847119415101	SKY RANCH	31	P		U	180.
85 N21 E21 20BBDC1	394038119392601	CHARLES WILTSIE	31	H		U	480.
85 N21 E21 30CAAA1	393927119401301	BOB HIVERT	31	H		U	350.
85 N21 E21 31CACA1	393828119401601	BUD MAY	31	H		U	421.
89 N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	31	U	110VLFL	U	94.
89 N16 E19 26DBDC1	391308119484801	KENNETH PIERCE	31	H		U	138.
92A N20 E18 02DDDD1	393718119550601	ANDERSON FIRE DEPT	31	H		U	170.
92A N21 E18 23AADD	394034119554301	JAMES SWEGER	31	U		U	570.
92A N21 E18 36ADDD1	393839119544101	USGS	31	U		U	150.
92A N21 E19 18BCBD1	394120119550901	LEARENO	31	H		U	810.
92A N21 E19 20BDCD1	394022119541201	USGS	31	U		U	67.
92A N21 E19 20DABC1	394013119521001	USGS	31	U		U	87.
92A N21 E19 30CACC1	393916119543701	USGS	31	U		U	22.
92B N20 E19 05DAAD1	393737119514801		31	U		U	
92B N20 E19 08DDCB1	393630119520201	GLANCY PEARSON	31	U		U	387.
92B N20 E19 10BCAD1	393700119501101		31			U	
92B N20 E19 15CDBA1	393544119501201	ATLAS PROPANE CO	31			U	150.
92B N21 E19 15BACD1	394126119502101		31	U		U	
92B N21 E19 22DBAA1	394017119500201	USGS	31	U		U	150.
92B N21 E19 26CCDB1	393907119493101	USGS	31	U		U	62.
92B N21 E19 28CBCB1	393921119515001	USGS	31	U		U	53.
92B N21 E19 29DACB1	393920119520701	USGS	31	U		U	84.
103 N17 E22 27CBAC1	391830119301801	USGS	19	U	110VLFL	U	86.
103 N17 E22 32CADA1	391733119321001	GERALDINE SMITH	19	U	110VLFL	U	101.
103 N17 E22 33BACD1	391756119311401	USGS	19	U	110VLFL	U	66.
103 N17 E23 01BDBD1	392142119210901	STAGE COACH LAND CO	19	P		U	252.
103 N17 E23 01DDBA1	392129119205301	STAGE COACH LAND CO	19	U		U	276.
103 N17 E23 02BDCC1	392137119221301	STAGE COACH LAND CO	19	P		U	300.
103 N17 E23 02CDCC1	392143119222401	USGS	19	U	110VLFL	U	86.
103 N17 E23 04DDCC1	392141119240601	DUTCH HUGHES	19	U	110VLFL	U	339.
103 N17 E23 07DDDD1	392047119260501	UTAH MINE & CONST CO	19	U	110VLFL	U	386.
103 N17 E23 09CCDC1	392050119244701	USGS	19	U	110VLFL	U	82.
103 N17 E23 09DAAA1	392110119235001	USGS	19	U	110VLFL	U	84.
103 N17 E23 10ABCD1	392126119230901	USGS	19	U	110VLFL	U	88.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	70.- 170.	4544.	1979-	50.89	04/14/82	59.47	03/18/81	52.80	08/14/87
6.	330.- 480.	4918.	1979-	228.83	07/16/79	279.47	03/03/87	279.47	03/03/87
7.		4752.	1979-	210.10	08/12/80	212.88	01/31/80	210.62	03/03/87
8.	141.- 291.	4668.	1979-	132.27	03/14/86	135.94	10/17/80	135.64	03/03/87
12.		5065.	1968-	5.03	03/11/86	7.20	04/25/84	6.27	03/04/87
6.	73.- 138.	5120.	1960-	6.79	03/11/86	22.00	08/07/81	11.60	03/17/87
7.	100.- 170.	5222.	1963-	19.16	03/10/83	44.08	06/23/81	21.24 29.16	12/31/86 07/01/87
10.	280.- 570.	5130.	1972-	80.00	05/02/72	165.32	09/30/86	161.56 162.47	12/31/86 07/01/87
1.	148.- 150.	4970.	1971-	0.79	09/18/72	25.00	10/04/71	1.03 1.10	12/31/86 07/01/87
12.		5040.	1971-	82.32	03/14/72	107.41	06/23/81	93.95 95.03	12/31/86 07/01/87
2.	65.- 67.	5025.	1971-	52.07	12/09/80	59.64	06/27/80	52.37 52.25	12/31/86 07/01/87
2.	85.- 87.	5040.	1971-	54.90	07/01/87	67.54	01/06/80	55.05 54.90	12/30/86 07/01/87
2.	20.- 22.	4970.	1971-	1.75	04/01/86	11.31	02/12/80	6.95 7.77	12/31/86 07/01/87
8.		5020.	1966-	27.11	04/01/86	57.10	06/14/77	30.78 33.26	12/31/86 07/01/87
		5170.	1974-	10.42	04/17/75	18.32	10/14/77	13.20 14.45	12/30/86 07/01/87
6.		5070.	1971-	35.00	11/05/71	88.70	05/26/83	74.24 84.63	12/30/86 07/01/87
6.	131.- 151.	5170.	1959-	39.43	04/01/86	119.00	02/27/59	41.71 43.70	12/30/86 07/01/87
6.		5025.	1971-	133.28	06/13/72	166.60	07/01/87	157.30 166.60	12/31/86 07/01/87
2.	148.- 150.	4919.	1971-	17.36	04/20/72	42.30	07/01/87	37.39 42.30	12/31/86 07/01/87
2.	60.- 62.	4919.	1971-	12.80	03/16/72	34.99	08/19/86	33.27 33.67	12/31/86 07/01/87
2.	51.- 53.	4930.	1971-	9.91	04/01/86	17.00	09/15/77	11.17 11.74	12/31/86 07/01/87
2.	82.- 84.	5035.	1971-	38.54	06/23/81	53.11	06/27/80	42.64 45.92	12/31/86 07/01/87
2.	66.- 86.	4335.	1977-	60.56	04/01/83	77.37	09/21/77	62.00 61.25	11/07/86 03/11/87
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	54.15	03/17/87
2.		4339.	1977-	50.35	05/01/84	54.30	09/22/77	51.50	03/17/87
8.		4378.	1970-	145.70	06/03/70	184.23	03/11/87	184.23	03/11/87
8.	240.- 276.	4455.	1972-	224.19	07/14/72	230.99	03/11/87	230.99	03/11/87
10.	196.- 296.	4324.	1971-	79.05	07/01/72	105.16	03/11/86	104.19	03/11/87
2.	83.- 86.	4286.	1977-	50.00	07/20/77	65.79	03/11/87	65.79	03/11/87
12.	287.- 395.	4322.	1977-	90.12	04/11/78	96.06	12/20/79	91.40	03/11/87
12.	12.-	4324.	1970-	73.98	08/05/70	87.83	03/11/87	87.83	03/11/87
2.	52.- 82.	4271.	1977-	25.76	09/21/77	40.32	03/11/86	40.20	03/11/87
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	56.43	03/11/87
2.		4277.	1977-	48.51	04/11/78	58.09	03/11/86	54.49	03/11/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
103 N17 E23 10BABD1	392132119232501	TERRY WEATHERMAN	19	I	110VLFL	U	300.
103 N17 E23 11DBAB1	392112119215801	MCBEAN	19	H		U	87.
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 19ACBC2	391935119263401	NORRIS LEEGARD	19	U		U	247.
103 N17 E23 26CCCC1	391812119224001	KATHLEEN HOLLMAN	19	H		U	176.
103 N17 E23 27ABAC1	391857119230701	STEELE HOLMAN	19	H	110VLFL	U	220.
103 N18 E23 35CBDD1	392246119222901	CARL MCHENRY	19	H		U	215.
103 N18 E23 35DCDC1	392235119215601	STAGECOACH UTILITIES	19	H		U	268.
104 N15 E20 04DBDC1	391126119441901	NEVADA-DWR	510	U		U	89.
104 N15 E20 04DBDC2	391126119441902	USGS	510	U		U	33.
104 N15 E20 05BBCA1	391155119460401	NEVADA-DWR	510	U		U	102.
104 N15 E20 05BBCA2	391155119460402	USGS	510	U		U	62.
104 N15 E20 07BBAB1	391110119470501	NEVADA-DWR	510	U		U	150.
104 N15 E20 15BDBA1	391004119433301	NEVADA-DWR	510	U		U	105.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	234.- 300.	4286.	1969-	48.00	04/01/69	64.09	08/20/80	63.09	03/11/87
8.		4288.	1981-	59.54	04/17/81	62.79	03/17/87	62.79	03/17/87
17.	137.- 265.	4286.	1970-	34.84	08/05/70	46.36	09/10/80	45.91	03/11/87
10.	175.- 255.	4279.	1980-	30.76	05/02/80	33.34	03/11/87	33.34	03/11/87
10.	160.- 247.	4279.	1980-	33.44	12/12/80	35.34	03/11/87	35.34	03/11/87
7.	156.- 176.	4298.	1978-	63.00	04/13/83	64.23	12/20/79	63.73	03/17/87
9.	180.- 220.	4286.	1970-	51.14	06/05/70	56.15	07/18/80	53.19	03/17/87
8.	191.- 211.	4400.	1977-	160.00	09/19/77	179.13	03/17/87	179.13	03/17/87
13.	218.- 263.	4385.	1973-	162.58	03/11/87	169.00	06/28/73	162.58	03/11/87
2.	68.- 88.	4682.	1975-	17.10	07/14/86	24.87	01/06/75	17.90	12/01/86
								18.04	12/31/86
								18.40	02/05/87
								18.40	03/11/87
								18.50	04/08/87
								18.60	05/08/87
								18.60	06/12/87
								18.60	07/16/87
								18.70	08/07/87
								18.77	09/01/87
2.	30.- 32.	4682.	1977-	16.90	07/14/86	30.01	07/25/77	17.70	12/01/86
								17.88	12/31/86
								18.30	02/05/87
								18.40	03/11/87
								18.50	04/08/87
								18.60	05/08/87
								18.60	06/12/87
								18.60	07/16/87
								18.60	08/07/87
								18.73	09/01/87
2.	82.- 102.	4737.	1975-	12.38	02/12/75	51.37	06/24/81	28.80	12/01/86
								28.30	12/31/86
								27.60	02/05/87
								23.90	03/11/87
								25.40	04/08/87
								35.80	05/08/87
								37.80	06/12/87
								37.30	07/16/87
								38.00	08/07/87
								37.67	09/01/87
2.		4737.	1977-	24.97	02/17/78	46.80	08/07/87	35.10	12/01/86
								33.40	12/31/86
								32.40	02/05/87
								27.20	03/11/87
								29.20	04/08/87
								31.20	05/08/87
								33.50	06/12/87
								44.10	07/16/87
								46.80	08/07/87
								45.02	09/01/87
2.		4800.	1975-	44.74	04/21/75	92.00	12/31/86	44.90	12/01/86
								92.00	12/31/86
								91.70	01/02/87
								90.96	01/15/87
								89.50	02/05/87
								86.20	03/11/87
								83.40	04/08/87
								84.00	05/08/87
								85.40	06/12/87
								87.30	07/16/87
								88.70	08/07/87
								90.20	09/01/87
2.	85.- 105.	4620.	1975-	6.36	03/21/86	13.99	05/16/75	6.86	12/01/86
								6.84	12/31/86
								6.50	02/05/87
								6.90	03/11/87
								7.00	04/08/87
								7.10	05/08/87
								7.60	06/12/87
								7.70	07/16/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 15BDBA1	391004119433301	NEVADA-DWR	510	U		U	105.
104 N15 E20 15BDBA2	391004119433302	USGS	510	U		U	20.
104 N15 E20 16BCAA1	391004119444901	NEVADA-DWR	510	U		U	105.
104 N15 E20 17AADB2	391010119450601	USGS	510	U	100VLFL	U	27.
104 N15 E20 17AADC4	391008119450601	USGS	510	U	100VLFL	U	29.
104 N15 E20 17AADC5	391008119450602	USGS	510	U	110VLFL	U	58.
104 N15 E20 17BCCD1	390954119460401	NEVADA-DWR	510	U		U	102.
104 N15 E20 17CACD1	390940119454701	NEV BLDG & GRNDS DEPT	510	P	110VLFL	U	595.
104 N15 E20 18BDDA1	390958119464301	NEVADA-DWR	510	U		U	102.
104 N15 E20 20CCBB1	391235119521501	PHILIP HARPER	510	I	110VLFL	W	38.
104 N15 E20 29DAAB1	390807119450901	NEVADA-DWR	510	U		U	105.
104 N15 E20 32BDAA1	390728119453801	NEVADA-DWR	510	U		U	105.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	85.- 105.	4620.	1975-	6.36	03/21/86	13.99	05/16/75	8.00	08/07/87
								8.04	09/01/87
2.	18.- 20.	4620.	1977-	4.05	03/21/86	10.78	07/25/77	4.40	12/01/86
								4.40	12/31/86
								4.30	02/05/87
								4.40	03/11/87
								4.30	04/08/87
								4.30	05/08/87
								4.30	06/12/87
								4.30	07/16/87
								4.30	08/07/87
								4.28	09/01/87
2.	82.- 102.	4641.	1975-	0.76	03/23/83	15.50	08/07/87	6.30	12/01/86
								4.00	12/31/86
								6.50	02/05/87
								5.30	03/11/87
								4.30	04/08/87
								9.40	05/08/87
								12.10	06/12/87
								14.40	07/16/87
								15.50	08/07/87
								15.24	09/01/87
2.	22.- 27.	4648.	1987-	6.93	07/01/87	7.98	08/13/87	6.93	07/01/87
								7.04	07/09/87
								7.30	07/23/87
								7.59	07/30/87
								7.81	08/06/87
								7.98	08/13/87
2.	24.- 29.	4649.	1987-	7.77	07/01/87	9.04	08/13/87	7.77	07/01/87
								7.92	07/09/87
								8.34	07/23/87
								8.57	07/30/87
								8.86	08/06/87
								9.04	08/13/87
2.	53.- 58.	4649.	1987-	17.94	07/01/87	19.53	08/13/87	17.94	07/01/87
								18.17	07/09/87
								18.69	07/23/87
								18.96	07/30/87
								19.29	08/06/87
								19.53	08/13/87
2.	82.- 102.	4680.	1961-	16.90	04/11/83	27.45	07/24/79	20.50	12/01/86
								19.80	12/31/86
								19.10	02/05/87
								18.50	03/11/87
								18.10	04/08/87
								20.60	05/08/87
								21.10	06/12/87
								22.30	07/16/87
								23.00	08/07/87
								23.70	09/01/87
18.		4662.	1946-	1.84	03/13/52	23.80	09/17/64	8.70	03/04/87
2.	82.- 102.	4738.	1975-	2.34	01/06/75	18.96	09/17/81	15.00	12/01/86
								14.60	12/31/86
								14.00	02/05/87
								13.20	03/11/87
								12.70	04/08/87
								13.30	05/08/87
								15.30	07/16/87
								15.90	08/07/87
								16.60	09/01/87
48.		4685.	1962-	19.81	03/26/86	28.63	03/24/82	22.29	03/04/87
2.	80.- 100.	4698.	1975-	27.70	03/12/75	52.70	08/07/87	41.30	12/01/86
								41.70	12/31/86
								39.30	02/05/87
								38.10	03/11/87
								44.10	04/08/87
								44.50	05/08/87
								48.10	06/12/87
								51.30	07/16/87
								52.70	08/07/87
								52.70	09/01/87
2.	82.- 102.	4720.	1975-	32.03	02/12/75	45.11	09/07/82	36.43	12/01/86
								36.35	12/31/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 32BDAA1	390728119453801	NEVADA-DWR	510	U		U	105.
104 N16 E20 33CCDD1	391205119444901	NEVADA-DWR	510	U		U	118.
105 N11 E20 06ACCB1	385051119464101	USGS	5	U	110VLFL	U	16.
105 N12 E19 01BDCD1	385557119475701	USGS	5	U		U	19.
105 N12 E19 02BDDD1	385559119485701	JOHN C FEIL	5	S		U	262.
105 N12 E19 02CBAA1	385556119491501	USGS	5	U		U	22.
105 N12 E19 11CDCC1	385439119490901	BLANKENSHIP	5	S		U	60.
105 N12 E19 12CDCD1	385438119475501	USGS	5	U		U	19.
105 N12 E19 23CDBC1	385304119460601	USGS	5	U		U	27.
105 N12 E19 24CCAA1	385303119480201	WAYNE CURRIE	5	H		U	82.
105 N12 E19 36ADDA1	385138119471801	LEWALLEN LAND & CATTLE CO	5	U		U	198.
105 N12 E20 04BAAA2	385620119453101	USGS	5	U	110VLFL	U	21.
105 N12 E20 06ABCC1	385612119464101	USGS	5	U	110VLFL	U	21.
105 N12 E20 07DBCC1	385452119464101	USGS	5	U	110VLFL	U	15.
105 N12 E20 09BCAD1	385512119444801	JOHN H WHITE	5	I		U	450.
105 N12 E20 10AAAB1	385528119425801	STODDARD JACOBSEN	5	U		U	355.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	82.- 102.	4720.	1975-	32.03	02/12/75	45.11	09/07/82	35.80	02/05/87
								35.30	03/11/87
								37.20	04/08/87
								39.30	05/08/87
								40.20	06/12/87
								43.70	07/16/87
								43.90	08/07/87
								42.90	09/01/87
2.	94.- 118.	4732.	1975-	42.10	03/21/86	49.24	09/17/81	45.10	12/01/86
								45.40	12/31/86
								45.20	02/05/87
								45.20	03/11/87
								45.20	04/08/87
								45.50	05/08/87
								45.30	06/12/87
								45.40	07/16/87
								45.50	08/07/87
								45.82	09/01/87
2.	13.- 16.	4845.	1977-	0.58	05/06/78	6.01	09/28/77	3.91	12/02/86
								4.77	03/06/87
								1.94	06/15/87
								3.40	08/18/87
1.		4700.	1982-	4.72	07/20/82	7.39	08/18/87	6.64	12/03/86
								6.68	03/10/87
								5.46	06/15/87
								7.39	08/18/87
3.		4696.	1981-	-13.80	12/21/83	-5.20	07/23/81	-11.30	12/03/86
								-11.50	03/10/87
								-11.70	06/16/87
								-7.70	08/17/87
2.		4705.	1982-	5.42	02/09/85	14.20	03/09/82	6.12	12/03/86
								5.89	03/10/87
								5.72	06/15/87
								6.24	08/18/87
4.		4714.	1981-	-19.50	03/30/83	-10.00	08/18/87	-16.70	12/03/86
								-11.50	03/10/87
								-15.70	06/16/87
								-10.00	08/18/87
1.		4711.	1982-	1.64	06/09/83	6.56	04/06/82	5.98	12/03/86
								5.61	03/10/87
								5.61	06/15/87
								6.34	08/18/87
2.		4795.	1982-	0.05	03/11/86	5.46	02/14/82	3.43	12/02/86
								0.70	03/09/87
								1.25	06/15/87
								2.15	08/18/87
10.		4731.	1981-	-16.10	01/28/83	-12.70	12/11/85	-13.40	12/03/86
								-14.30	03/10/87
								-13.70	07/20/87
12.		4794.	1981-	0.56	08/16/83	4.91	09/18/81	2.26	12/02/86
								2.84	03/09/87
								1.70	06/15/87
2.	11.- 21.	4759.	1977-	4.33	06/06/78	9.07	03/28/79	6.44	12/02/86
								6.70	03/09/87
								4.74	06/15/87
								6.39	08/17/87
2.	18.- 21.	4716.	1977-	1.74	06/05/86	6.21	10/11/77	4.03	12/02/86
								3.73	03/10/87
								2.69	06/16/87
								5.51	08/18/87
2.	13.- 15.	4718.	1977-	0.70	03/11/86	3.52	10/11/77	1.76	12/02/86
								1.71	03/09/87
								1.83	06/15/87
								2.58	08/18/87
16.		4769.	1981-	12.37	06/15/87	22.43	04/20/82	18.03	12/02/86
								20.66	03/09/87
								12.37	06/15/87
16.		4821.	1981-	23.76	10/11/83	37.10	08/17/87	28.56	12/02/86
								29.90	03/09/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N12 E20 10AAAB1	385528119425801	STODDARD JACOBSEN	5	U		U	355.
105 N12 E20 13DDBB1	385413119405001	BARBARA LEE	5	H		U	250.
105 N12 E20 14BABC1	385430119422401	USGS	5	U	110VLFL	U	21.
105 N12 E20 19ABBB1	385343119464101	USGS	5	U		U	17.
105 N12 E20 24ADCC2	385321119405002	MCCARTHY	5	H		U	145.
105 N13 E19 09ADCA1	390021119504301	HOLLISTER	5	H		U	180.
105 N13 E19 09DAAB1	390016119504101	NV STATE PARK SYSTEM	5	P		U	159.
105 N13 E19 11CCDD1	385951119491801	USGS	5	U		U	18.
105 N13 E19 11CCDD2	385951119492001	USGS	5	U		U	18.
105 N13 E19 12BBAD1	390037119480701	SETTLEMEYER RANCHES	5	S		U	400.
105 N13 E19 22CCAC1	385813119502601	ALEXANDER	5	I	110VLFL	U	172.
105 N13 E19 22DCAC1	385815119500301	USGS	5	U		U	16.
105 N13 E19 22DCAC2	385815119500202	USGS	5	U		U	18.
105 N13 E19 23DDAD1	385816119482401	USGS	5	U	110VLFL	U	21.
105 N13 E19 24CADD1	385821119475001	DANGBERG	5	S		U	401.
105 N13 E19 33DADD1	385637119503701	ALLERMAN	5	U		U	80.
105 N13 E20 03BCBB1	390122119424701	HECKMAN	5	U		U	108.
105 N13 E20 08ACBC1	390024119453501	USGS	5	U		U	21.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4821.	1981-	23.76	10/11/83	37.10	08/17/87	28.29	06/15/87
								37.10	08/17/87
6.		5005.	1980-	144.46	03/19/81	148.52	03/09/87	146.66	12/02/86
								148.52	03/09/87
								146.28	06/15/87
								147.24	08/17/87
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	4.87	12/02/86
								6.60	03/09/87
								3.63	06/15/87
								6.05	08/17/87
1.		4735.	1982-	1.66	05/19/83	5.65	02/09/82	3.55	12/02/86
								3.09	03/09/87
								2.68	06/15/87
								2.55	08/18/87
8.	122.- 142.	4980.	1987-	98.44	08/17/87	98.44	08/17/87	98.44	08/17/87
8.	156.- 176.	4810.	1968-	103.01	03/13/86	126.00	12/03/68	115.85	12/02/86
								118.13	03/09/87
								117.95	06/16/87
								123.90	08/27/87
9.	79.- 159.	4776.	1978-	19.51	05/19/83	51.95	10/21/81	34.40	12/02/86
								31.10	03/09/87
								36.50	06/16/87
								41.30	08/18/87
1.		4673.	1982-	2.53	02/16/82	8.24	06/16/87	7.84	12/03/86
								7.70	03/10/87
								8.24	06/16/87
								8.12	08/17/87
1.		4673.	1982-	1.46	02/16/82	8.82	08/18/87	8.38	12/03/86
								8.32	03/10/87
								8.81	06/16/87
								8.82	08/18/87
4.		4667.	1981-	-18.30	04/23/81	8.69	08/18/81	-15.10	12/03/86
								-15.20	03/10/87
								-14.30	06/16/87
								5.58	08/18/87
12.	69.- 169.	4760.	1977-	46.82	06/04/86	71.74	10/21/81	56.02	12/02/86
								57.18	03/09/87
								57.23	06/15/87
								64.12	08/18/87
2.		4677.	1982-	3.30	02/19/82	6.88	08/18/87	6.80	12/03/86
								6.51	03/10/87
								5.80	06/16/87
								6.88	08/18/87
1.		4677.	1982-	3.05	02/19/82	6.48	08/18/87	6.35	12/03/86
								5.97	03/10/87
								5.16	06/16/87
								6.48	08/18/87
2.	18.- 21.	4681.	1977-	0.79	06/22/82	5.03	09/20/81	3.49	12/03/86
								2.80	03/10/87
								2.17	06/16/87
								4.84	08/17/87
3.		4685.	1981-	-15.40	06/23/82	-3.80	09/20/81	-13.90	12/03/86
								-13.90	03/10/87
								-13.80	06/16/87
								-5.80	08/18/87
8.		4755.	1981-	16.51	03/11/86	27.39	09/20/81	21.46	12/02/86
								20.21	03/09/87
								21.45	06/15/87
								23.67	08/18/87
8.		4756.	1981-	31.87	03/21/81	32.95	03/11/86	32.00	12/02/86
								31.89	03/09/87
								32.10	06/15/87
								32.87	08/17/87
2.		4692.	1982-	0.83	03/12/86	18.75	03/23/82	6.33	12/03/86
								5.32	03/10/87
								1.30	06/15/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N13 E20 12BCAD1	390025119412701	ALHARA	5	I		U	280.
105 N13 E20 14AADA1	385944119414501	TOM & SAM NEVIS	5	U		U	301.
105 N13 E20 18BAAA1	385948119464401	USGS	5	U	110VLFL	U	21.
105 N13 E20 19AAAB1	385859119461501	DANGBERG	5	S		U	318.
105 N13 E20 19ACCC1	385834119464101	USGS	5	U	110VLFL	U	11.
105 N13 E20 22CADD1	385821119432401	DANGBERG	5	I		U	
105 N13 E20 23DDDA1	385815119413101	TOM & SAM NEVIS	5	I		U	392.
105 N13 E20 26ABBB1	385801119421501	EARL MAY	5	I		U	130.
105 N13 E20 26DADD1	385729119414501	LISSER	5	I		U	180.
105 N13 E20 30DBBB1	385730119464101	USGS	5	U	110VLFL	U	21.
105 N13 E20 32CAAA1	385630119452001	MACK LAND & CATTLE CO	5	I	110VLFL	U	420.
105 N13 E20 34ACBC1	385655119432101	DANGBERG	5	I		U	
105 N13 E21 19CBBA1	385834119395901	BUCKEY CREEK WELL	5	U		U	140.
105 N13 E21 32BDAD1	385657119385801	ANITA C JONES	5	I		U	608.
105 N14 E19 11CADC1	390519119490201	LAVERN ROSSE	5	H		U	165.
105 N14 E19 12ADAB1	390542119472001	RUSSIE PLUME	5	H		U	155.
105 N14 E19 15BBAB1	390501119502401	JOHN J ASCUAGA	5	I		U	290.
105 N14 E19 26ABBC1	390315119485001	HARVEY GROSS	5	I		U	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.	172.- 182.	4952.	1964-	158.58	11/19/81	173.33	06/04/86	159.32	12/02/86
								160.95	03/09/87
								161.06	06/15/87
								159.89	08/17/87
12.		4990.	1985-	92.08	12/11/85	93.13	03/09/87	92.14	12/02/86
								93.13	03/09/87
								92.69	06/15/87
								92.27	08/17/87
2.	11.- 21.	4682.	1977-	1.58	05/19/83	4.43	09/29/77	2.53	12/03/86
								3.01	03/10/87
								2.24	06/16/87
								4.05	08/18/87
3.		4696.	1981-	-6.20	03/12/86	19.80	08/18/87	-5.40	12/02/86
								-1.00	03/10/87
								-4.20	06/15/87
								19.80	08/18/87
2.	2.- 11.	4694.	1977-	0.95	06/04/86	5.61	09/29/77	3.44	12/02/86
								2.71	03/09/87
								2.23	06/15/87
								4.43	08/17/87
12.		4799.	1981-	16.00	09/22/82	23.46	04/20/82	20.70	12/02/86
								23.08	03/09/87
								19.89	06/15/87
								19.35	08/17/87
13.	310.- 392.	4885.	1982-	76.05	08/17/82	81.36	08/17/87	77.48	12/02/86
								77.73	03/09/87
								77.99	06/15/87
								81.36	08/17/87
8.	90.- 130.	4868.	1965-	48.00	04/08/65	56.48	06/04/86	54.30	03/09/87
								52.65	06/15/87
12.	104.- 175.	4922.	1973-	85.00	10/26/73	105.90	06/15/87	104.68	12/02/86
								105.29	03/09/87
								105.90	06/15/87
2.	19.- 21.	4702.	1977-	1.88	09/28/77	8.47	03/09/87	7.94	12/02/86
								8.47	03/09/87
								6.03	06/15/87
18.		4733.	1951-	7.22	07/11/67	16.39	07/22/81	10.57	12/02/86
								10.93	03/09/87
								9.59	06/15/87
		4791.	1981-	3.80	07/12/83	12.57	03/19/82	6.87	12/02/86
								9.59	03/09/87
								4.31	06/15/87
								7.84	08/17/87
7.		5000.	1970-	92.24	08/17/87	102.38	05/14/70	92.49	12/02/86
								92.64	03/09/87
								92.60	06/15/87
								92.24	08/17/87
14.		5141.	1981-	27.23	03/09/87	28.57	09/22/82	27.30	12/02/86
								27.23	03/09/87
								27.23	06/15/87
								27.40	08/17/87
9.	116.- 160.	5167.	1974-	71.51	03/09/87	135.00	06/07/74	73.36	12/02/86
								71.51	03/09/87
								75.42	06/15/87
								82.40	08/18/87
7.	120.- 150.	4909.	1975-	33.47	03/09/87	69.83	08/18/86	37.21	12/02/86
								33.47	03/09/87
								52.64	06/15/87
								61.59	08/18/87
16.	125.- 290.	5138.	1981-	3.06	06/04/86	58.63	08/18/81	9.83	12/02/86
								10.09	03/09/87
								20.53	06/15/87
8.		4776.	1981-	19.23	02/24/83	24.56	08/18/82	19.74	12/02/86
								19.67	03/09/87
								19.49	06/15/87
								20.14	08/17/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N14 E19 34DBAD1	390156119495401	HARVEY GROSS	5	I		U	248.
105 N14 E20 07CBAD1	390525119465901	DOUGLAS COUNTY	5	U		U	246.
105 N14 E20 08BBBB1	390557119460701	CARSON VALLEY COMM CHURCH	5	P		U	340.
105 N14 E20 18ABAB1	390503119463501	INDIAN HILL IMPROVE DIST	5	H		U	425.
105 N14 E20 29ACCC1	390307119452201	USGS	5	U		U	17.
105 N14 E20 30DCCB1	390205119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 32DCCC1	390137119453601	USGS	5	U	110VLFL	U	21.
105 N14 E20 33BCDA1	390208119444601	NEVADA CARSON OWNERS INC	5	U		U	220.
105 N14 E20 34BAAA1	390228119432501	EVELYN SLAUGHTER	5	U		U	126.
110C N06 E31 33BAB 1	382031118315901	SWEETWATER RANCH CO	21	U	110VLFL	U	86.
110C N06 E31 33BAB 2	382033118315501	SWEETWATER RANCH CO	21	U	110VLFL	U	126.
110C N08 E30 03DA 1	383440118365001	U S ARMY AMTN PLANT	21	N	110VLFL	U	850.
110C N08 E30 04AAA 1	383525118375101	USGS	21	U	110VLFL	U	62.
110C N08 E30 18AAD 1	383310118401001	U S ARMY AMTN PLANT	21	N	110VLFL	U	345.
110C N08 E30 21DDB 1	383150118380001	U S ARMY AMTN PLANT	21	N	110VLFL	U	394.
110C N08 E30 26DDA 1	383100118355001	U S ARMY AMTN PLANT	21	N	110VLFL	U	423.
110C N08 E31 29CDC 1	383100118330001	U S ARMY AMTN PLANT	21	N	110VLFL	U	452.
110C N09 E30 29DDD 1	383624118385801	USGS	21	U	110VLFL	W	18.
110C N09 E30 33CAA 1	383550118382201	USGS	21	U	110VLFL	W	41.
117 S01 E35 28A 1	374950118051001	REX CLARK	9	S	110VLFL	U	624.
122 N11 E36 18DB 1	384850117581001		23	U	110VLFL	U	87.
124 N16 E33 02DC 1	391620118143001	C B STARK	1	S	110VLFL	U	441.
125 N17 E34 36CCCA1	390234118070701	STATE OF NEVADA	1	U		U	365.
127 N17 E35 36AD 1	391749117585101	ANGUS DANGBERG	1	U	110VLFL	U	502.
128 N18 E34 28CCD 1	392323118095001		1			U	482.
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 RANCH	1	S	110VLFL	U	260.
134 N17 E39 34DBBD1	391649117344701		15	S		U	8.
134 N17 E40 08CBA 1	392100117310001	SMITH CREEK RANCH	15	S	110VLFL	W	55.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
13.	48.- 248.	4740.	1973-	36.10	09/05/86	46.00	11/30/73	39.81	12/02/86
								37.14	03/09/87
								41.45	06/15/87
								43.02	08/18/87
8.		4835.	1981-	91.79	05/01/81	111.25	08/17/82	105.62	12/02/86
								104.49	03/09/87
								103.33	06/16/87
								105.66	08/17/87
9.	270.- 332.	4900.	1985-	232.01	06/04/86	238.00	05/24/85	232.45	12/02/86
								232.42	03/09/87
								232.31	06/15/87
								232.63	08/17/87
8.	151.- 301.	4760.	1981-	30.00	07/31/81	159.00	07/20/87	130.58	12/01/86
								130.54	12/02/86
								119.40	03/10/87
								159.00	07/20/87
1.		4657.	1982-	2.49	02/24/83	11.66	03/25/82	6.72	12/02/86
								6.13	03/09/87
								6.24	06/15/87
								7.80	08/17/87
2.	11.- 21.	4654.	1977-	2.09	03/11/86	6.43	10/11/77	4.60	03/09/87
								4.81	06/15/87
								5.73	08/17/87
2.	11.- 21.	4679.	1977-	1.59	03/12/86	9.54	10/02/77	4.99	12/03/86
								4.64	03/10/87
								3.55	06/15/87
								7.33	08/17/87
13.		4683.	1981-	-1.03	06/04/86	3.52	09/18/81	0.10	12/02/86
								-0.13	03/06/87
								0.03	06/15/87
								2.00	08/17/87
9.	102.- 122.	4782.	1974-	52.00	03/22/74	59.80	08/17/87	59.67	07/20/87
								59.80	08/17/87
6.		5566.	1948-	34.79	05/11/48	61.84	03/13/87	61.84	03/13/87
10.	32.- 132.	5566.	1966-	36.43	02/15/66	61.40	03/13/87	61.40	03/13/87
18.	441.- 696.	4125.	1954-	33.30	03/19/86	117.86	09/27/65	58.80	03/13/87
2.	60.- 62.	4056.	1968-	31.69	03/18/68	35.82	03/13/87	35.82	03/13/87
18.	328.- 345.	4140.	1952-	95.10	11/21/52	109.10	04/28/83	107.80	03/13/87
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	213.36	03/13/87
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	260.57	03/13/87
18.	264.- 436.	4372.	1952-	242.60	11/21/52	264.47	03/19/86	248.70	03/13/87
2.	16.- 18.	4010.	1968-	8.54	04/23/73	10.05	03/19/86	10.05	03/13/87
2.	39.- 41.	4039.	1968-	18.75	03/18/68	22.19	03/13/87	22.19	03/13/87
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	40.24	04/22/87
10.		4570.	1961-	36.68	12/13/61	40.08	05/03/83	39.86	03/18/87
8.		4160.	1955-	216.68	01/13/55	224.94	03/23/64	218.39	03/20/87
8.		4388.	1962-	257.38	03/28/87	266.16	07/10/62	257.38	03/28/87
8.		5250.	1950-	27.00	02/01/50	127.50	05/08/75	109.11	03/20/87
8.		4100.	1981-	206.91	03/30/82	221.02	04/08/81	208.76	03/20/87
16.		4240.	1963-	12.64	03/12/86	21.57	03/21/65	16.49	03/27/87
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	11.75	03/25/87
6.		5360.	1974-	149.51	03/20/87	176.56	03/16/74	149.51	03/20/87
6.		6051.	1964-	6.02	03/20/87	8.78	08/31/66	6.02	03/20/87
6.		6054.	1966-	6.96	03/21/77	13.36	12/02/81	7.38	03/20/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
134 N17 E40 34ACAC1	391754117271401	BROWN	15	U		U	40.
134 N18 E40 33DBCC1	392248117290701	USGS	15	U		U	44.
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 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 31CACC1	392300115493001	FERA	33	S	110VLFL	U	43.
155A N17 E54 29CA 1	391858115550201	USBLM	11	S	110VLFL	U	60.
162 S20 E52 23BBA 1	361204116060301	W M TURNER	23	U	110VLFL	A	500.
162 S20 E53 06CDA 1	361405116033201	ROOKRIDGE & CARRADO	23	U	110VLFL	U	200.
162 S20 E53 14DCB 1	361225115590301	WILLIAMS & CREWS	23	H	110VLFL	A	254.
162 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.
170 S03 E55 05BDD 1	374256115485501		17	S	110VLFL	W	20.
172 N04 E58 36A 1	381000115240001	USBLM	23	S	110VLFL	U	27.
176 N28 E59 09C 1	401900115200001	RUBY VALLEY NO 1	7	S	110VLFL	U	44.
176 N32 E60 29C 1	403639115133001	USGS	7	U	110VLFL	U	202.
176 N32 E60 29C 2	403730115134002	USGS	7	U	110VLFL	W	15.
177 N35 E62 27B 1	405310114574001	USGS	7	U	110VLFL	U	286.
178B N22 E60 26AAB 1	394507115102501	PARIS	33	S	110VLFL	U	130.
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	33	I	110VLFL	U	200.
189B N43 E66 25D 1	413444114261701	ECCLES RANCH	7	U	110VLFL	W	28.
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 S09 E67 14BDBA2	371012114280302		17	I		U	55.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.
207 N11 E61 35A 1	384640115045001	PUBLIC DOMAIN	33	S	110VLFL	U	44.
207 N12 E62 18D 1	385400115024001	USGS	33	U	110VLFL	U	108.
209 S04 E60 02A 2	373806115125102	NEIL STEWART	17	U	110VLFL	U	255.
209 S04 E60 34A 2	373330115142002	W U SCHOFIELD	17	I	110VLFL	W	96.
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 E61 31ADCD1	361514115112901	WILLIAM STYRES	3	H		U	300.
212 S19 E62 35DCDC1	361451115004401	LK MEAD B	3	P		U	838.
212 S20 E60 13DCCD1	361201115123701	MIKE TOMASELLI	3	H		U	157.
212 S20 E61 01ACCD1	361425115061901	USGS	3	U	110LSVG	U	84.
212 S20 E61 03DAD 2	361412115080801	NELLIS AFB	3	P	110VLFL	U	913.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		6059.	1964-	24.23	03/20/87	26.19	12/03/81	24.23	03/20/87
1.		6075.	1966-	32.23	07/11/67	33.07	12/02/81	32.80	03/20/87
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69	47.85	04/22/87
6.		5500.	1962-	107.56	03/20/86	113.42	05/04/72	107.60	03/17/87
30.		6500.	1962-	3.94	03/20/79	7.41	03/24/64	5.56	03/24/87
12.		5858.	1949-	5.49	08/11/49	47.62	03/27/87	47.62	03/27/87
2.	20.- 22.	5820.	1964-	11.60	04/22/69	13.36	03/16/82	13.34	02/09/87
2.	20.- 22.	5821.	1964-	14.05	04/22/70	16.16	04/22/69	14.44	02/09/87
2.	30.- 32.	5800.	1964-	16.45	11/18/66	18.24	03/16/82	18.10	02/09/87
36.		5930.	1946-	22.67	03/24/87	43.96	09/11/63	22.67	03/24/87
48.		5987.	1962-	50.12	03/19/81	64.75	03/24/87	64.75	03/24/87
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.70	03/18/87	47.70	03/18/87
14.	30.- 168.	2558.	1952-	15.43	02/02/59	31.41	03/18/87	31.41	03/18/87
8.		2679.	1945-	-23.30	03/06/45	90.61	02/27/75	68.96	03/18/87
10.		2684.	1947-	32.20	05/28/53	48.06	04/15/86	47.48	03/18/87
8.		5080.	1968-	18.73	01/18/77	23.41	03/26/87	23.41	03/26/87
10.		5260.	1963-	23.84	03/26/87	26.62	04/22/71	23.84	03/26/87
48.		6150.	1948-	14.61	04/24/73	42.11	04/03/81	36.37	05/05/87
6.		6000.	1949-	0.35	04/22/83	3.85	03/07/77	2.92	05/05/87
2.		6000.	1960-	0.75	03/31/70	7.48	09/21/61	6.00	05/05/87
6.		5650.	1941-	5.45	04/20/83	11.07	05/03/55	9.04	04/24/87
6.		6160.	1950-	59.85	04/21/69	66.18	08/07/84	65.19	03/27/87
16.		6520.	1951-	30.25	06/12/84	41.83	03/10/61	35.63	03/25/87
60.		5250.	1950-	7.07	04/25/85	15.21	02/28/68	12.31	02/11/87
10.	60.- 80.	4850.	1946-	30.32	04/25/86	41.63	03/11/81	37.65	04/15/87
8.		4720.	1949-	10.72	03/20/50	22.82	08/27/64	16.55	04/15/87
10.		4605.	1962-	20.74	02/24/62	24.73	03/26/86	23.63	04/15/87
16.		2670.	1977-	25.04	03/13/84	33.00	01/21/77	26.24	04/09/87
48.		5400.	1965-	29.67	03/26/87	31.83	03/24/65	29.67	03/26/87
6.		5400.	1953-	3.20	03/16/76	13.66	10/13/62	10.98	03/26/87
6.		5600.	1962-	44.21	03/27/85	53.51	04/13/78	48.08	03/26/87
12.		4200.	1973-	88.60	03/23/73	198.87	03/26/86	184.66	03/25/87
10.		4000.	1955-	60.39	09/15/55	72.73	02/22/65	61.26	03/25/87
6.		3550.	1960-	5.85	02/23/63	11.76	01/18/77	9.85	03/25/87
10.		3020.	1952-	14.82	04/13/83	28.06	02/24/76	21.31	03/26/87
9.	180.- 300.	2200.	1980-	123.74	02/24/81	143.85	09/16/86	138.57 137.40	12/17/86 03/17/87
14.	370.-	1867.	1972-	96.30	03/18/87	139.05	02/24/72	97.00 96.30	01/09/87 03/18/87
8.		2224.	1971-	23.47	09/24/85	87.30	02/22/72	24.97 25.17	12/17/86 03/17/87
4.	80.- 84.	1919.	1979-	60.94	05/01/81	65.12	06/25/84	63.23 62.75	12/17/86 03/17/87
12.	150.- 900.	1973.	1974-	39.50	03/01/77	96.15	06/26/86	72.35 62.15	01/09/87 03/18/87

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S20 E61 11CDDC1	361305115073201	USGS	3	U	121MDCK	U	62.
212 S20 E61 14CCCC1	361212115065901	USGS	3	U		U	46.
212 S20 E61 18BCCD1	361237115121401	CITY NLV	3	P		U	500.
212 S20 E61 22DACD1	361120115080401	CITY NLV	3	P	110VLFL	U	1105.
212 S20 E61 27BDAA1	361102115083601	USGS	3	U	110VLFL	U	15.
212 S20 E61 30ACC 1	361053115120501	USGS	3	U		U	31.
212 S20 E61 31DCD 1	360937115113401	USGS	3	U		U	18.
212 S20 E61 32CDC 1	360941115104801	KENNETH SEARLES	3	H	110VLFL	A	665.
212 S20 E61 34CAA 1	360837115095501	USGS	3	U		U	22.
212 S20 E62 09CCC 1	361258115032101	NELLIS AFB	3	P		U	650.
212 S20 E62 29DCAB1	361036115040401		3	U	110VLFL	W	98.
212 S21 E60 15BBDC1	360739115152701	WELLS CARGO	3	N	110VLFL	U	680.
212 S21 E61 01ACCC1	360908115062901	USGS	3	U		U	24.
212 S21 E61 03AAAD1	360924115081101	USGS	3	U	110VLFL	U	15.
212 S21 E61 04ABC 1	360921115093601	USGS	3	U		U	17.
212 S21 E61 14ACA 1	360728115072901	SAHARA COUNTRY CLUB	3	I		U	750.
212 S21 E61 16CA 3	360719115095903	SANDS HOTEL	3	P		U	840.
212 S21 E61 17BADD1	360735115105201	USGS	3	U	110LSVG	U	45.
212 S21 E61 22CCC 1	360600115091001	A P BAKER	3	U	110VLFL	A	500.
212 S21 E61 24CAD 1	360617115063801	USGS	3	U		U	24.
212 S21 E61 28CABB1	360528115094201		3	U		U	93.
212 S21 E61 29AACA1	360543115101301	MORRIS WOLLMAN	3	U	110VLFL	A	540.
212 S21 E61 36ADC 3	360449115061201	USGS	3	U	110VLFL	U	26.
212 S21 E62 08DBDA2	360733115034402	RONALD OKELBERRY	3	H		U	200.
212 S21 E62 17DAB 1	360744115050801	USGS	3	U		U	11.
212 S21 E62 28AAC 1	360548115024601	USGS	3	U		U	27.
212 S22 E60 20CACA1	360047115171401	MOFFAT & LILLIS	3	U	110VLFL	U	710.
212 S22 E61 01CCC 1	360328115065501	USGS	3	U		U	55.
212 S22 E61 04ACAD1	360400115092401		3	U		U	113.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	58.- 62.	1920.	1979-	37.63	03/09/83	46.99	03/14/86	43.26 42.79	12/22/86 03/17/87
4.	43.- 46.	1910.	1981-	27.55	03/02/81	29.71	09/16/86	29.59 29.42	01/06/87 03/17/87
10.	300.- 500.	2208.	1978-	213.07	02/28/78	236.24	09/24/85	220.95 234.40	12/17/86 03/03/87
30.	249.-1019.	1911.	1973-	10.27	03/16/87	51.70	09/25/85	12.58 10.27	01/09/87 03/16/87
4.	11.- 15.	2010.	1979-	9.35	04/25/81	13.06	06/14/85	10.57 11.22	01/07/87 03/16/87
4.	27.- 31.	2000.	1981-	7.93	01/07/87	11.92	03/02/81	7.93 9.18	01/07/87 03/20/87
4.	14.- 18.	2155.	1981-	8.17	09/10/86	13.21	03/02/81	8.66 9.11	12/18/86 03/02/87
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	58.00 53.60	12/18/86 03/03/87
4.	18.- 22.	2010.	1981-	5.23	03/16/87	8.77	07/20/83	5.41 5.23	12/30/86 03/16/87
14.	290.- 630.	1827.	1973-	82.20	03/03/82	167.70	09/15/86	87.77 82.20	01/09/87 03/18/87
8.		1766.	1971-	39.07	03/16/87	75.06	10/12/77	39.65 39.07	01/07/87 03/16/87
10.	380.- 680.	2480.	1969-	362.30	09/13/84	467.97	01/07/86	434.00 432.50	01/07/87 03/17/87
4.	20.- 24.	1840.	1979-	7.02	02/26/80	8.00	11/04/82	7.23 7.25	01/07/87 03/16/87
4.	11.- 15.	1990.	1979-	6.96	06/20/85	8.67	06/27/84	7.51 7.38	12/30/86 03/18/87
4.	13.- 14.	2047.	1981-	8.78	09/13/84	10.02	09/10/86	9.57 9.14	12/18/86 03/18/87
16.	500.- 746.	1930.	1961-	23.53	01/09/86	60.92	04/12/85	31.08	01/07/87
13.	260.- 820.	2090.	1968-	95.46	03/03/82	171.50	09/19/86	115.25 129.96	01/07/87 03/18/87
4.	41.- 45.	2120.	1979-	14.09	03/18/87	26.69	02/26/80	16.03 14.09	01/07/87 03/18/87
6.		2072.	1940-	-35.60	01/24/43	93.72	07/10/78	50.80 51.40	12/19/86 03/02/87
4.	20.- 24.	1950.	1981-	11.18	09/13/84	14.30	03/02/81	12.87 13.20	12/29/86 03/02/87
10.		2125.	1970-	34.00	02/01/70	40.06	03/11/74	34.20 34.20	12/19/86 02/27/87
8.		2140.	1970-	62.36	02/12/73	116.95	07/12/78	85.30 87.50	12/19/86 02/27/87
2.	23.- 26.	1948.	1977-	17.00	08/03/77	25.39	09/11/86	22.14 20.83	12/29/86 03/02/87
9.	50.- 200.	1731.	1971-	11.89	01/08/86	21.00	09/15/71	13.84 12.27	01/07/87 03/16/87
4.	7.- 11.	1730.	1981-	3.80	06/25/81	9.70	09/11/84	7.32 6.27	01/07/87 03/16/87
4.	23.- 27.	1665.	1981-	16.76	09/11/84	19.85	03/02/81	18.52 18.42	12/29/86 03/02/87
8.	610.- 710.	2810.	1963-	473.00	02/25/63	498.04	03/14/83	478.30 478.20	12/18/86 03/02/87
4.	51.- 55.	2032.	1981-	46.22	03/26/85	52.33	06/25/86	50.91	03/02/87
8.		2165.	1955-	40.00	07/01/55	104.17	12/14/83	95.94	12/18/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S22 E61 04ACAD1	360400115092401		3	U		U	113.
212 S22 E61 10CCD 1	360235115090301	LEWIS J DEATCH	3	H		U	300.
212 S22 E63 20ABC 1	360122114574801	CITY OF HENDERSON	3	U	110VLFL	U	750.
213 S32 E66 13DB 1	350931114341601	BIG BEND WATER DISTRICT	3	P	111FLDP	U	111.
213 S32 E66 24BBA 1	350910114344001	SUNDANCE SHORES	3	P	110VLFL	U	480.
213 S32 E66 32AA 1	350721114380301	BIG BEND WATER DISTRICT	3	P	111FLDP	U	108.
213 S32 E66 33AAA 1	350723114364201	JOHN B KNIGHT	3	I	111FLDP	U	50.
213 S32 E66 33BBB 1	350726114375501	GEORGE CROMER	3	H	111FLDP	U	96.
230 S16 E49 18DC 1	363310116294001	USBLM	23	U	110VLFL	U	348.
230 S17 E52 08CDB 1	362929116085701	HERSHAL & ETAL CLARK	23	I	110VLFL	U	246.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		2165.	1955-	40.00	07/01/55	104.17	12/14/83	96.20	02/27/87
8.	168.- 300.	2160.	1970-	90.00	06/13/70	126.00	09/11/86	115.58 115.85	01/09/87 02/27/87
14.	460.- 630.	2030.	1971-	314.50	12/17/86	346.30	02/21/84	314.50 314.60	12/17/86 02/27/87
16.	69.- 111.	520.	1985-	20.25	05/21/86	41.14	05/15/87	37.35 41.14 29.74	03/06/87 05/15/87 09/04/87
11.	240.- 480.	727.	1970-	224.91	10/23/86	243.00	10/01/70	224.91 237.80	10/23/86 03/05/87
12.	70.- 102.	510.	1985-	12.43	08/19/86	18.55	05/15/87	13.62 13.30 18.55 15.03	10/22/86 03/06/87 05/15/87 09/04/87
6.		507.	1967-	17.02	07/11/85	26.42	11/27/67	18.67 18.35 19.85	10/21/86 03/05/87 05/14/87
7.	95.-	511.	1973-	15.40	12/04/85	25.67	04/07/76	16.76 16.65 17.69 18.09	10/23/86 03/05/87 05/14/87 09/04/87
12.		2375.	1955-	103.10	02/12/55	116.54	03/16/87	116.54	03/16/87
12.		2395.	1960-	33.24	02/16/65	37.75	03/24/83	35.51	03/15/87

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	LOCAL WELL NO	STATION NAME	COUNTY	GEO-LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350721114380301	213 S32 E66 32AA 1	BIG BEND WELL 1 AREA 2	003	111FLDP	10-22-86	108.00	510
350723114364201	213 S32 E66 33AAA 1	B. LAUGHLIN (KNIGHT) WELL	003	111FLDP	10-21-86	50.00	507
350726114375501	213 S32 E66 33BBB 1	CROMER WELL	003	111FLDP	10-23-86	96.00	511
350910114344001	213 S32 E66 24BBA 1	SUNDANCE SHORES WELL	003	110VLFL	10-23-86	480.00	727
350931114341601	213 S32 E66 13DB 1	BIG BEND WELL 1 AREA 1	003	111FLDP	10-22-86	111.00	520

STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH, FIELD (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
350721114380301	10-22-86	1025	13.62	1360	7.90	21.5	21.0	450	170	120
	03-06-87	0825	13.30	1330	8.00	17.5	21.5	440	170	120
	05-15-87	0915	18.55	1300	7.60	28.0	23.0	410	230	110
	09-04-87	0925	15.03	1300	7.70	32.0	22.0	450	230	120
350723114364201	10-21-86	1335	18.67	1100	7.70	28.5	19.0	330	160	88
	03-05-87	1525	18.35	1110	7.60	26.5	18.5	360	180	96
	05-14-87	1345	19.85	1120	7.60	34.5	19.0	340	190	93
	09-04-87	1145	20.05	1050	7.40	34.0	19.0	320	170	87
350726114375501	10-23-86	1200	16.76	1320	7.80	25.0	20.5	420	130	110
	03-05-87	1410	16.65	1240	7.70	27.5	21.0	420	76	110
	05-14-87	1240	17.69	1250	7.50	34.5	21.5	410	89	110
	09-03-87	1225	18.09	1150	7.50	38.0	21.0	420	100	110
350910114344001	10-23-86	0945	224.91	1380	7.50	19.0	27.0	290	150	82
	03-05-87	1700	237.80	1280	7.40	24.0	27.5	290	150	83
	05-14-87	1615	--	1250	7.30	35.0	27.5	280	150	82
	09-03-87	1420	--	1230	7.40	43.0	28.0	290	170	83
350931114341601	10-22-86	0820	35.65	1090	7.90	16.0	16.5	320	170	89
	03-06-87	0955	37.35	988	7.80	22.5	16.5	300	140	85
	05-15-87	1040	41.14	960	7.80	28.0	16.0	300	150	85
	09-04-87	1055	29.74	900	7.60	33.0	17.0	300	160	86

STATION NUMBER	DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
350721114380301	10-22-86	36	120	3	4.3	281	320	100	0.40	19
	03-06-87	35	120	3	4.5	278	310	100	0.40	20
	05-15-87	34	120	3	4.7	181	290	100	0.40	21
	09-04-87	37	120	3	4.8	221	290	97	0.40	21
350723114364201	10-21-86	26	100	2	3.6	165	280	93	0.30	17
	03-05-87	28	110	3	3.9	172	280	99	0.30	18
	05-14-87	26	100	2	4.1	154	280	94	0.30	18
	09-04-87	25	100	3	4.0	149	270	85	0.30	17
350726114375501	10-23-86	36	110	2	3.2	289	230	92	0.30	19
	03-05-87	36	110	2	3.4	347	220	88	0.30	30
	05-14-87	34	110	2	3.4	326	220	88	0.30	20
	09-03-87	35	110	2	3.7	318	190	85	0.30	17
350910114344001	10-23-86	20	150	4	3.5	133	230	210	0.80	29
	03-05-87	20	150	4	3.5	136	210	200	0.80	31
	05-14-87	19	140	4	3.5	136	210	190	0.80	30
	09-03-87	19	140	4	3.9	114	190	180	0.90	30
350931114341601	10-22-86	24	98	2	3.6	153	280	95	0.30	15
	03-06-87	21	93	2	3.6	154	260	71	0.30	15
	05-15-87	21	91	2	3.4	153	250	71	0.30	15
	09-04-87	21	81	2	3.7	142	230	66	0.30	14

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
350721114380301	10-22-86	904	890	<0.100	2.9	4	--	160	--	--
	03-06-87	879	880	<0.100	4.3	4	--	150	--	--
	05-15-87	870	790	<0.100	2.9	4	110	160	<1	<10
	09-04-87	862	820	<0.100	2.3	3	--	160	--	--
350723114364201	10-21-86	740	710	<0.100	2.7	5	--	150	--	--
	03-05-87	725	740	<0.100	1.4	5	--	150	--	--
	05-14-87	733	710	<0.100	2.2	4	80	150	<1	<10
	09-04-87	694	680	<0.100	1.9	4	--	150	--	--
350726114375501	10-23-86	800	770	<0.100	3.6	4	--	190	--	--
	03-05-87	781	810	<0.100	2.3	4	--	190	--	--
	05-14-87	781	780	<0.100	2.7	4	34	190	<1	<10
	09-03-87	757	740	<0.100	2.5	2	--	190	--	--
350910114344001	10-23-86	818	810	1.40	--	<1	--	150	--	--
	03-05-87	757	780	1.40	0.2	<1	--	130	--	--
	05-14-87	770	760	1.40	<0.1	<1	34	140	<1	<10
	09-03-87	752	720	1.40	0.4	<1	--	140	--	--
350931114341601	10-22-86	744	700	<0.100	1.7	4	--	140	--	--
	03-06-87	630	640	<0.100	1.0	3	--	130	--	--
	05-15-87	640	630	<0.100	1.6	3	54	130	<1	<10
	09-04-87	606	590	<0.100	1.7	2	--	120	--	--

STATION NUMBER	DATE	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
350721114380301	10-22-86	--	11	--	840	--	--	--	--
	03-06-87	--	9	--	860	--	--	--	--
	05-15-87	1	39	<5	820	<0.1	<1	<1	<3
	09-04-87	--	29	--	870	--	--	--	--
350723114364201	10-21-86	--	18	--	510	--	--	--	--
	03-05-87	--	61	--	660	--	--	--	--
	05-14-87	2	50	<5	590	<0.1	<1	<1	12
	09-04-87	--	140	--	640	--	--	--	--
350726114375501	10-23-86	--	8	--	430	--	--	--	--
	03-05-87	--	30	--	440	--	--	--	--
	05-14-87	<1	50	<5	420	<0.1	<1	<1	9
	09-03-87	--	140	--	630	--	--	--	--
350910114344001	10-23-86	--	30	--	4	--	--	--	--
	03-05-87	--	32	--	6	--	--	--	--
	05-14-87	1	34	7	3	<0.1	1	<1	7
	09-03-87	--	27	--	3	--	--	--	--
350931114341601	10-22-86	--	86	--	260	--	--	--	--
	03-06-87	--	67	--	240	--	--	--	--
	05-15-87	1	--	<5	230	<0.1	<1	<1	<3
	09-04-87	--	99	--	240	--	--	--	--

NEVADA HIGH-ELEVATION PRECIPITATION NETWORK

STATION NAME	SITE ID	LATITUDE	LONGITUDE	ELEVATION IN FEET	PERIOD OF COLLECTION	INCHES OF PRECIPITATION
CAVE MOUNTAIN	390946114364901	390946	1143649	10,650	10/22/86 TO 05/28/87 05/28/87 TO 10/04/87	11.88 5.40
CHERRY CREEK RANGE	400726114524701	400726	1145247	9,700	11/04/86 TO 05/28/87 05/28/87 TO 10/05/87	10.56 .25
HAYFORD PEAK	363929115115801	363929	1151158	9,840	11/11/86 TO 06/11/87 06/11/87 TO 10/16/87	13.00 5.96
KYLE CANYON	361457115373301	361457	1153733	7,760	11/12/86 TO 07/03/87 07/03/87 TO 10/09/87	15.13 2.75
LEE CANYON	361822115402501	361822	1154025	8,510	11/12/86 TO 07/03/87 07/03/87 TO 10/09/87	15.50 4.00
MT. HAMILTON	391436115323901	391436	1153239	10,600	11/04/86 TO 05/28/87 05/28/87 TO 10/05/87	14.76 1.32
MT. WASHINGTON	385409114185401	385409	1141854	10,400	11/04/86 TO 05/29/87 05/29/87 TO 10/05/87	14.28 3.12
MT. WILSON	381438114233301	381438	1142333	9,200	11/11/86 TO 06/11/87 06/11/87 TO 10/15/87	12.00 6.48
NW OF MT. MORIAH	391913114143101	391913	1141431	9,300	11/04/86 TO 05/28/87 05/28/87 TO 10/05/87	11.04 5.28
POTOSI PEAK	355641115294601	365641	1152946	8,080	10/10/86 TO 06/19/87 06/19/87 TO 10/16/87	27.45 1.25
SHEEP PEAK	363500115144301	363500	1151443	9,600	11/11/86 TO 06/11/87 06/11/87 TO 10/16/87	13.50 2.80
TROUGH SPRING	362240115462101	362240	1154621	8,240	11/10/86 TO 06/16/87	12.75

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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