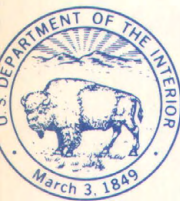
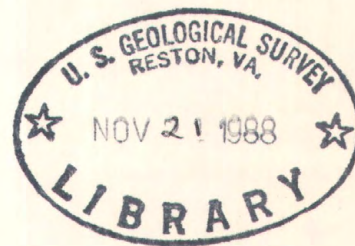
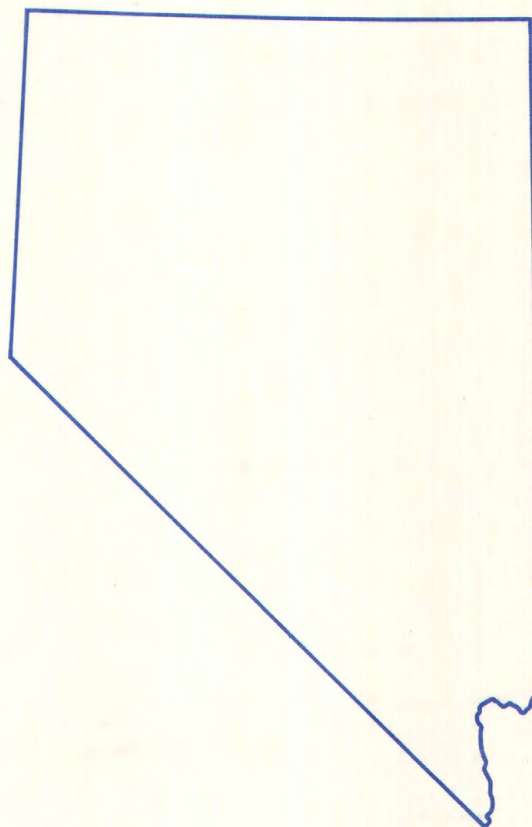


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Water Resources Data Nevada Water Year 1986



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-86-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1986

1985

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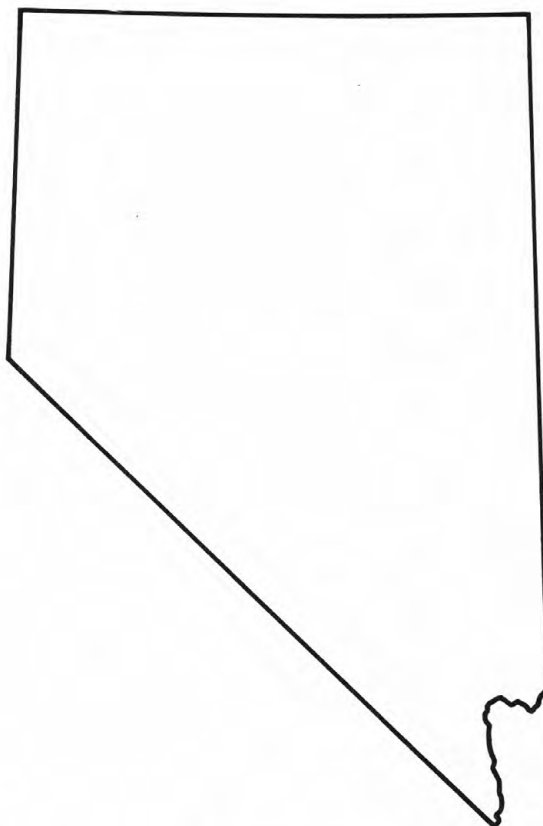
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Water Resources Data Nevada

Water Year 1986

by A. Pupacko, R.J. LaCamera, M.M. Riek, and D.B. Wood



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-86-1
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

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 A. Beck, Robert E. Bostic, David J. Bauer, Robin L. Bunch, Michael D. Dettinger, Michael Enright, Nancy Fleckenstein, Kerry T. Garcia, Daniel E. Hitch, Ray J. Hoffman, Judy M. Jacoboni, Roberta Lunnis, Otto Moosburner, Hal E. Mullis, Robert N. Pennington, Alan M. Preissler, Ronna J. Simon, David A. Simpson, John C. Stone, Robert Swanson, James R. Swartwood, Elaine Templeton, Thomas B. Tucker, Craig Westenburg, James Wood, and Richard L. Young.

In memory of
Katherine G. Noe
1933-1986

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16. Abstract (Limit: 200 words) Water-resources data published herein for the 1986 water year comprise the following records: <ul style="list-style-type: none"> • Water discharge for 91 gaging stations on streams, canals, and drains. • Discharge data for 78 peak-flow stations, 2 low-flow stations on streams, and 39 springs. • Stage and contents for 15 lakes and reservoirs. • Water levels for 354 observation wells. • Water-quality data for 18 stream, canal, and drain sites, and 5 wells. • Precipitation totals for 16 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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CONTENTS

	Page
INTRODUCTION	1
COOPERATION	1
SUMMARY OF HYDROLOGIC CONDITIONS	2
Surface water	2
Ground water	2
SPECIAL NETWORKS AND PROGRAMS	10
EXPLANATION OF THE RECORDS	10
Station identification numbers	10
Downstream order system	10
Latitude-longitude system	11
Local site numbers	11
Records of stage and water discharge	11
Data collection and computation	12
Data presentation	12
Identifying estimated daily discharge	14
Accuracy of the records	14
Other records available	14
Records of surface-water quality	14
Classification of records	15
Arrangement of records	15
On-site measurements and sample collection	15
Water temperature	15
Sediment	16
Laboratory measurements	16
Data presentation	16
Remark Codes	17
Records of ground-water levels	17
Data collection and computation	17
Data presentation	18
Records of ground-water quality	18
Data collection and computation	18
Data presentation	19
ACCESS TO WATSTORE DATA	19
DEFINITION OF TERMS	20
WATER-RELATED REPORTS FOR NEVADA COMPLETED BY THE GEOLOGICAL SURVEY DURING CALENDAR YEAR 1986	26
PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS	29
GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED	31
GAGING-STATION RECORDS	37
DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES	211
Low-flow partial-record stations	211
Crest-stage partial-record stations	212
Miscellaneous sites	217
SPRING DISCHARGE	221
ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS	222
GROUND-WATER RECORDS	223
Hydrographic areas, State of Nevada	223
Ground-water levels, primary observation wells	225
Ground-water levels, secondary observation wells	232
Quality of ground water	258
PRECIPITATION NETWORK	260
INDEX	261

ILLUSTRATIONS

	Page
Figures 1-3. Graphs showing:	
1. Comparison of discharge during water year 1986 with the long-term mean discharge at two representative gaging stations	3
2. Water-surface elevations at Walker and Pyramid Lakes, 1965-86	4
3. Number of well logs submitted to the Nevada State Engineer's Office during 1961-86	5
4. Map showing distribution, by county, of the number and use of wells drilled during calendar year 1986	7
5. Graph showing depths of wells drilled in 1986 for domestic, irrigation, industrial, public-supply, and other uses	8
6. Map showing long-term water-level trends in six selected observation wells	9
7-11. Maps showing data sites listed in this report:	
7. Gaging stations	33
8. Gaging stations in west-central Nevada	34
9. Surface-water quality sites	35
10. Streamflow partial-record stations	210
11. Observation wells	224

WATER RESOURCES DATA - NEVADA, 1986

Compiled by Alex Pupacko, Richard J. LaCamera,
Margaret M. Riek, and David B. Wood

INTRODUCTION

Water-resources data published herein for the 1986 water year comprise the following records:

- Water discharge for 91 gaging stations on streams, canals, and drains.
- Discharge data for 78 peak-flow stations, 2 low-flow stations on streams, and 39 springs.
- Stage and contents for 15 lakes and reservoirs.
- Water levels for 345 observation wells.
- Water-quality data for 18 stream, canal, and drain sites, and 5 wells.
- Precipitation totals for 16 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.

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-86-1." 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.

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.

While streamflow conditions in central and southern Nevada were normal or below normal, northern and western Nevada experienced an unprecedented nine-day wet period from February 12 to 20. Carson City received 91 percent (9.87 inches) of the average annual precipitation in this nine-day period. February monthly mean discharge was almost 500 percent of average for the Carson River at Carson City and almost 600 percent of average for the Humboldt River at Palisade.

In the Humboldt River basin of northern Nevada, streamflow during the 1986 water year was well above average. For the entire year, the total discharge at Palisade (station 10322500) was 178 percent of average. Monthly and annual mean discharges for water year 1986 and for the period of record (water years 1903-06, 1912, and 1914-86) at the Palisade station are shown in figure 1. 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 many floods have occurred in December, January, or February, as a result of rain on snow.

The Carson River lies mostly in Nevada, with its headwaters in the Sierra Nevada of California. During water year 1986, runoff in the river at Carson City (station 10311000) was 178 percent of the average for the period of record (water years 1940-86). Monthly and annual mean discharges for water year 1986 and 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 1986 was 235 percent of the 61-year average (water years 1904, 1921-35, 1940-41, 1943, 1945-86). 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 rose 2.5 feet, to 3,971.5 feet above sea level, during the 1986 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 greater-than-normal total discharge for the 1986 water year. At Reno (station 10348000), discharge for the water year was 196 percent of the 61-year average (water years 1913-19, 1931-34, 1947-86). The Truckee River feeds Pyramid Lake, a closed-basin water body similar to Walker Lake. Water-surface elevations for Pyramid Lake (station 10336500) rose slightly from 1968 to 1975. From 1975 through 1981, in contrast, the lake steadily receded. 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 rose 5.0 feet, to 3,815.6 feet above sea level, during the 1986 water year (which was the highest lake level recorded since 1945).

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 ft³/s (cubic feet per second). Mean annual discharge fluctuates on the basis of upstream supply and downstream power and irrigation requirements. During water year 1986, the discharge averaged 23,800 ft³/s, which was 170 percent of the long-term average (water years 1935-86). In the Virgin River (station 0941500), one of the major tributaries to Lake Mead on the Colorado, discharge during 1986 was 82 percent of the 57-year average (water years 1930-86).

Ground Water

Development of ground-water supplies continued in Nevada during 1986 as logs of 1129 wells were submitted to the Nevada State Engineer's Office. (This number does not include test holes drilled for geothermal exploration because the logs thereof are proprietary information for 5 years.) The number of logs submitted in 1986 was about 20 percent more than submitted annually during 1983-85 but less than the number of logs submitted annually between 1977 and 1982, which was a period of rapid ground-water development (fig. 3). Of the well logs submitted in 1986, more than seventy-five percent were from wells drilled for domestic use (fig. 4). The remainder were from wells drilled for exploration (largest number of wells in the category "other" in figure 4), industrial and public supply, and

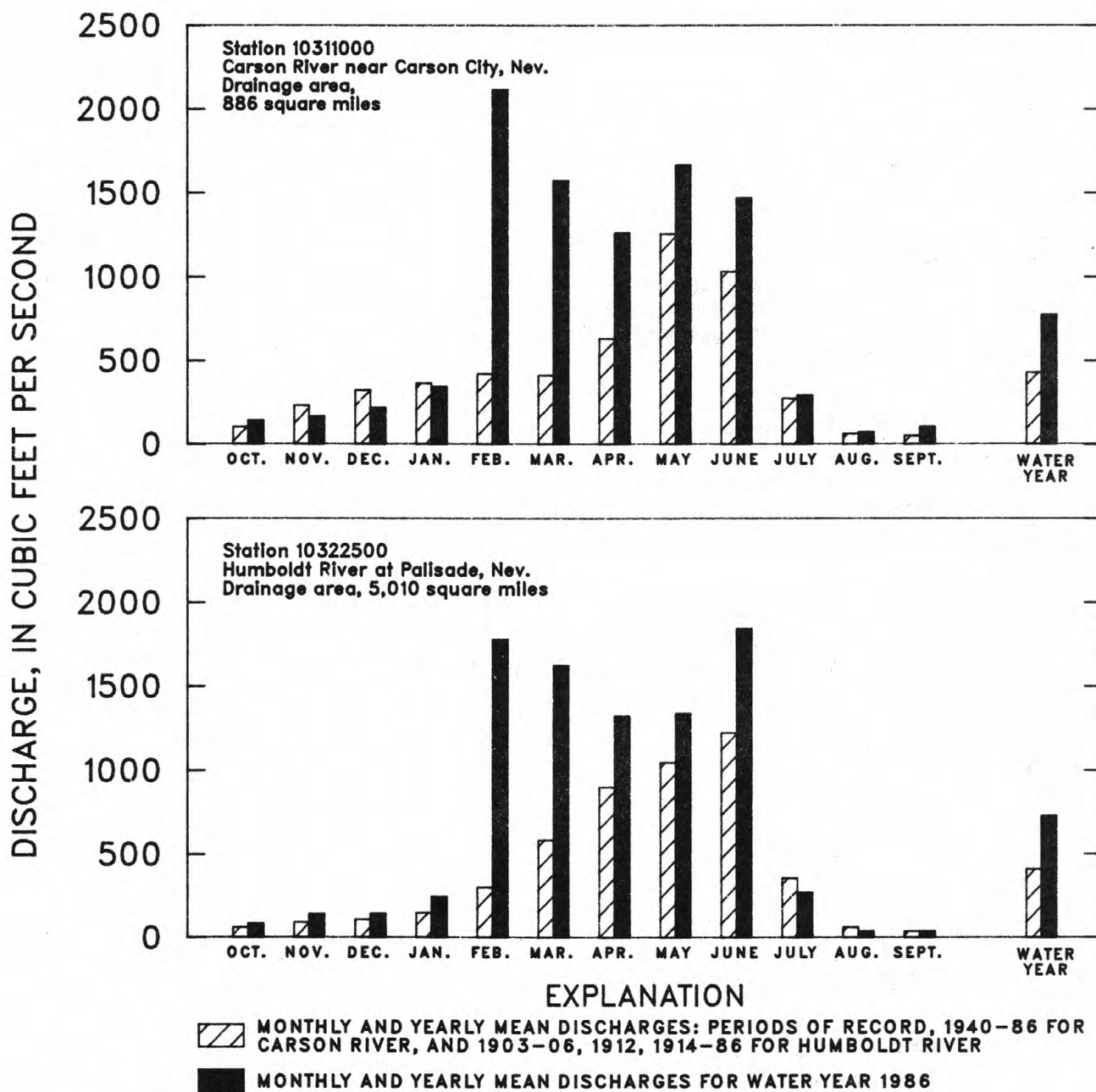


FIGURE 1.—Comparison of discharge during water year 1986 with the long-term mean discharge at two representative gaging stations.

WATER-SURFACE ELEVATION, IN FEET ABOVE SEA LEVEL

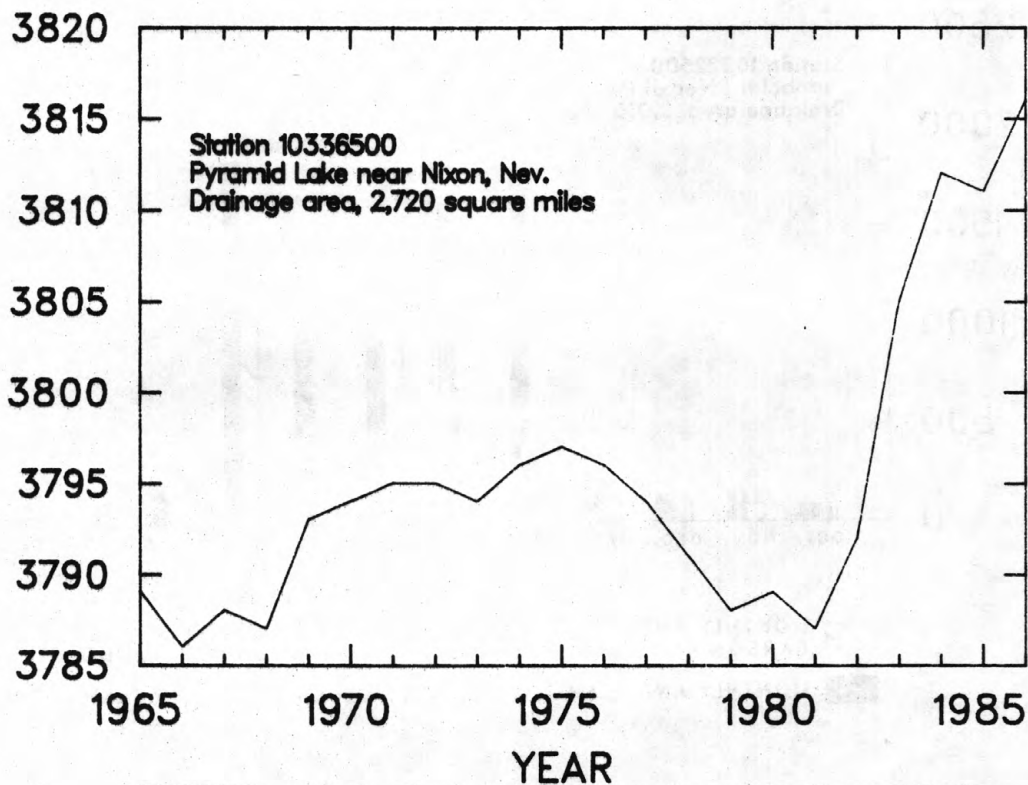
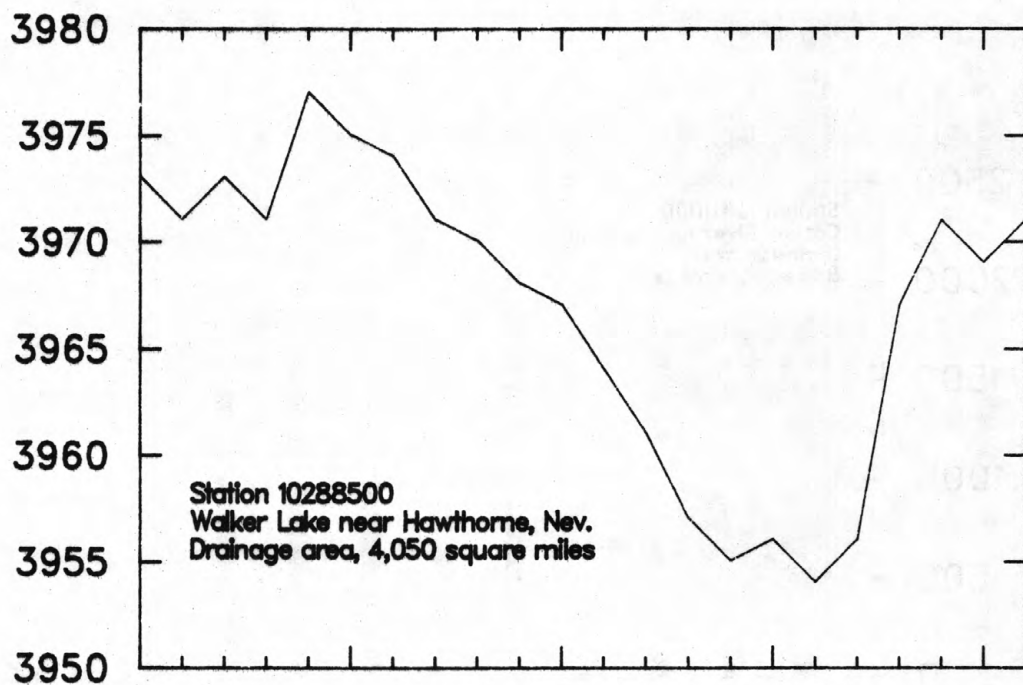


FIGURE 2.—End-of-year water-surface elevation at Walker and Pyramid Lakes, water-years 1965–86.

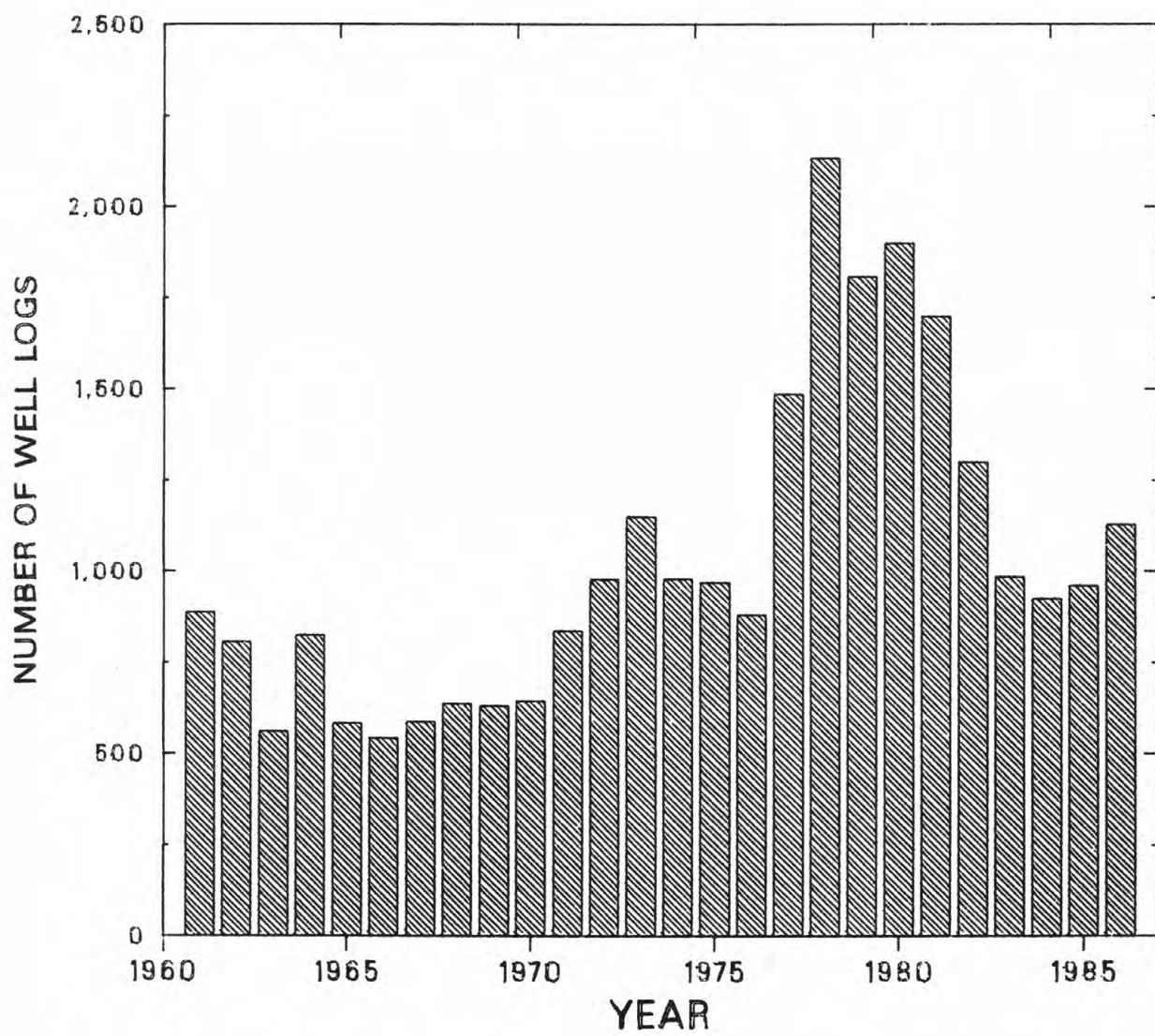


FIGURE 3. --Number of well logs submitted to the Nevada State Engineer's Office during 1961-86.

irrigation use ("other" includes a few new stock wells). Well drilling during 1986 was concentrated in the northwestern and southern parts of the State, particularly near the cities of Reno and Las Vegas (fig. 4). Wells drilled in these areas were principally for domestic use. Well drilling increased the most in the rural parts of the State, particularly in Lyon, Churchill and Nye Counties. New domestic wells dominate the drilling in these 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 limestones and dolomites. Locally, fractured volcanic rocks also can yield substantial quantities of water. Consolidated rocks, however, generally have not been used for water supplies, 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 more unpredictable.

The depths of the wells drilled in 1986 are shown in figure 5. Domestic wells were most commonly drilled to depths between 125 and 250 feet below land surface. Wells drilled for irrigation use were most commonly drilled to depths between 125 and 375 feet. Industrial or public supply wells were drilled to depths ranging between 50 and 1,000 feet, but most commonly depths were between 125 and 600 feet. Test holes and stock wells were most commonly drilled to depths less than 500 feet. Some wells in each category were drilled more than 1,000 feet below land surface.

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, 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 from 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 6 shows water-level trends from 6 selected wells. Three of the wells are near areas of intensive irrigation withdrawals (Paradise, Pahrump, and Diamond Valleys); whereas, two wells are in aquifers used for public supply (Carson City and Las Vegas). The well in Railroad Valley shows water-level trends in a largely undeveloped basin.

Water levels declined in Paradise Valley from 1974 to 1983 due to the combined influence of ground-water withdrawals that began in 1973 and several years of lower-than-normal precipitation. Late in 1986, water levels returned nearly to levels attained during the previous winter after a summer decline of several feet. This apparent stabilization probably was due to generally dry conditions and continued ground-water withdrawals for irrigation during 1985 and 1986, and followed several years of water-level rise during the wetter-than-average years 1982-84.

Water levels declined somewhat in 1986 in the Carson City well, following a short rise between 1983 and 1985 that was preceded by at least 15 years of water-level declines. Precipitation in Carson City was generally above normal between 1982 and 1986. The well is on the west side of the city where declines due to ground-water withdrawals for municipal use have exceeded 50 feet in some places. 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 stabilized since 1974. Land use in the area near the well has changed from primarily agricultural use to residential use since 1974.

The water level in the Diamond Valley well continued to decline even during the 1982-84 period of above-normal precipitation. In 1986, the rate of decline slowed temporarily. The well is in an area of ground-water withdrawals for irrigation. The water levels in the area 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 in the Railroad Valley well increased slightly from 1968 (when records were first kept) until 1979, and more rapidly thereafter. The rise in water level continued in 1986. Similar rises have been observed in other wells that are in relatively undeveloped basins. The rising water levels are due mostly to generally wetter-than-average conditions since about 1960, and to the period of much wetter-than-normal conditions between 1982 and 1984.

The water level in the Las Vegas well declined rapidly in the 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 water-level declines slowed substantially. In 1986, water levels in the Las Vegas well were similar to what they have been since about 1978, despite a 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 generally reflects 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.

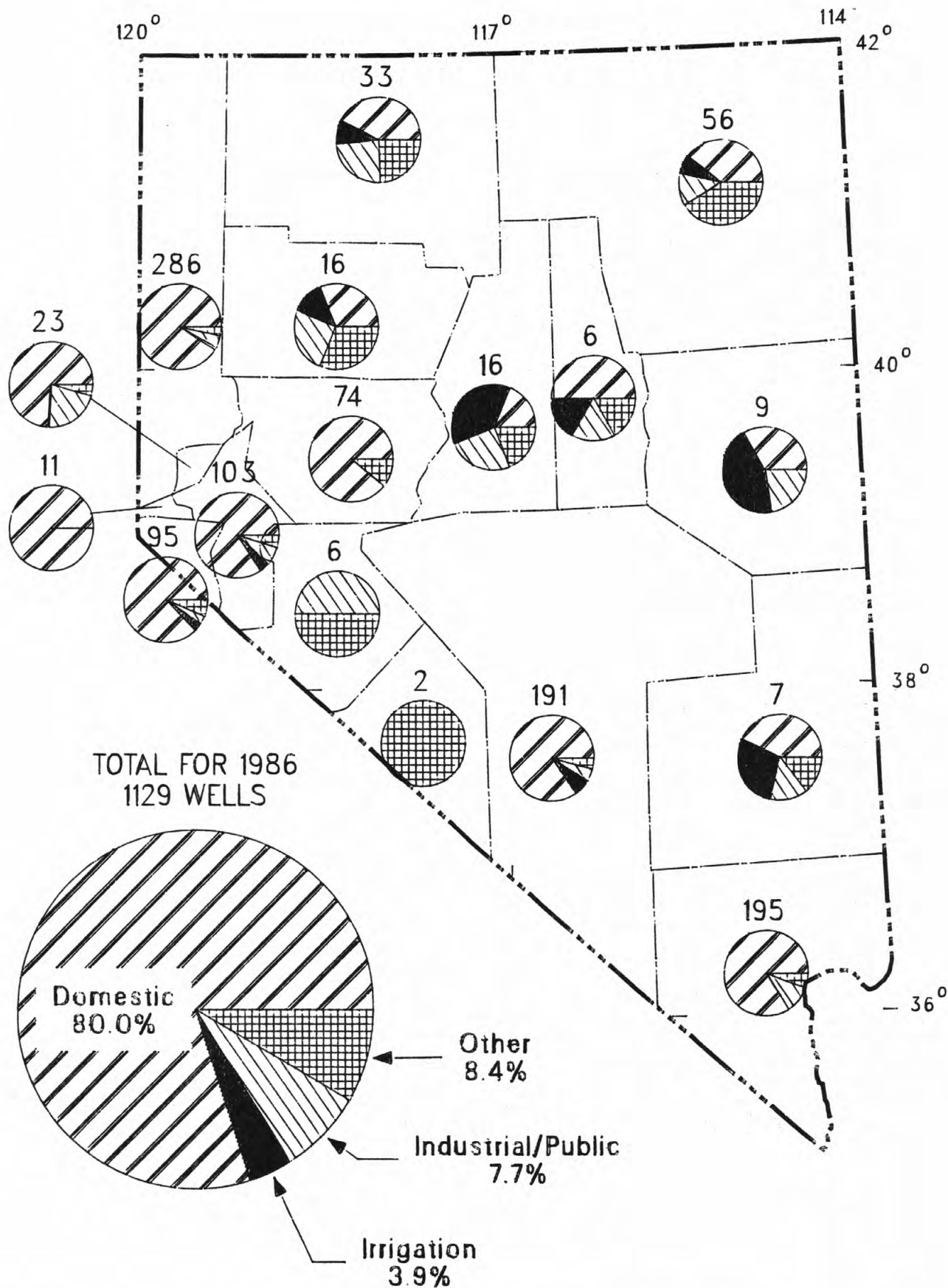


FIGURE 4.—Distribution, by county, of the number and use of wells drilled during calendar year 1986, on the basis of 1129 logs submitted to the Nevada State Engineer's Office. The category 'other' includes mostly test holes (but not those drilled for geothermal exploration). Above each symbol is the number of logs submitted for the county during 1986.

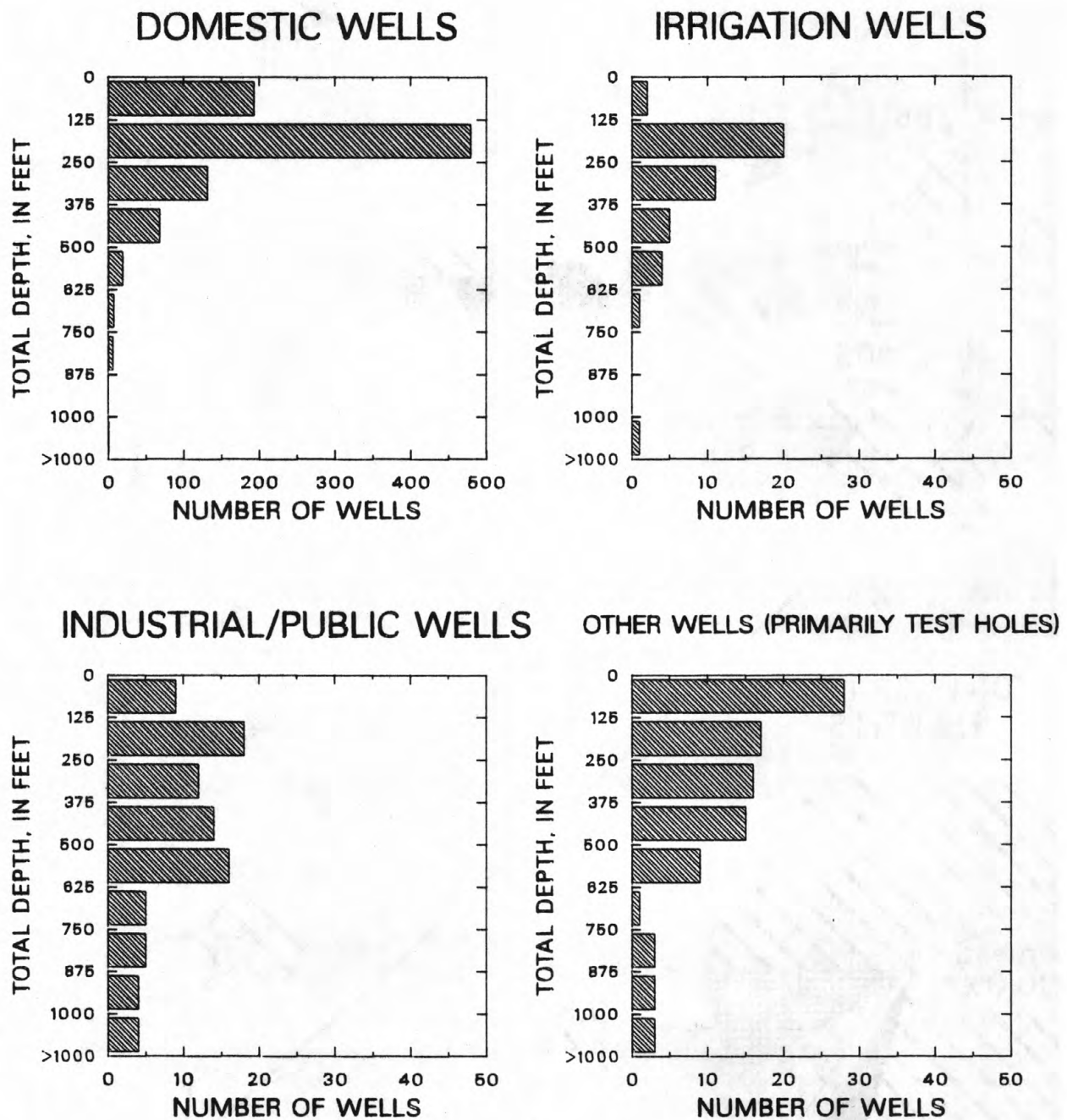


FIGURE 5.--Depths of wells drilled in 1986 for domestic, irrigation, industrial, public-supply, and other uses.

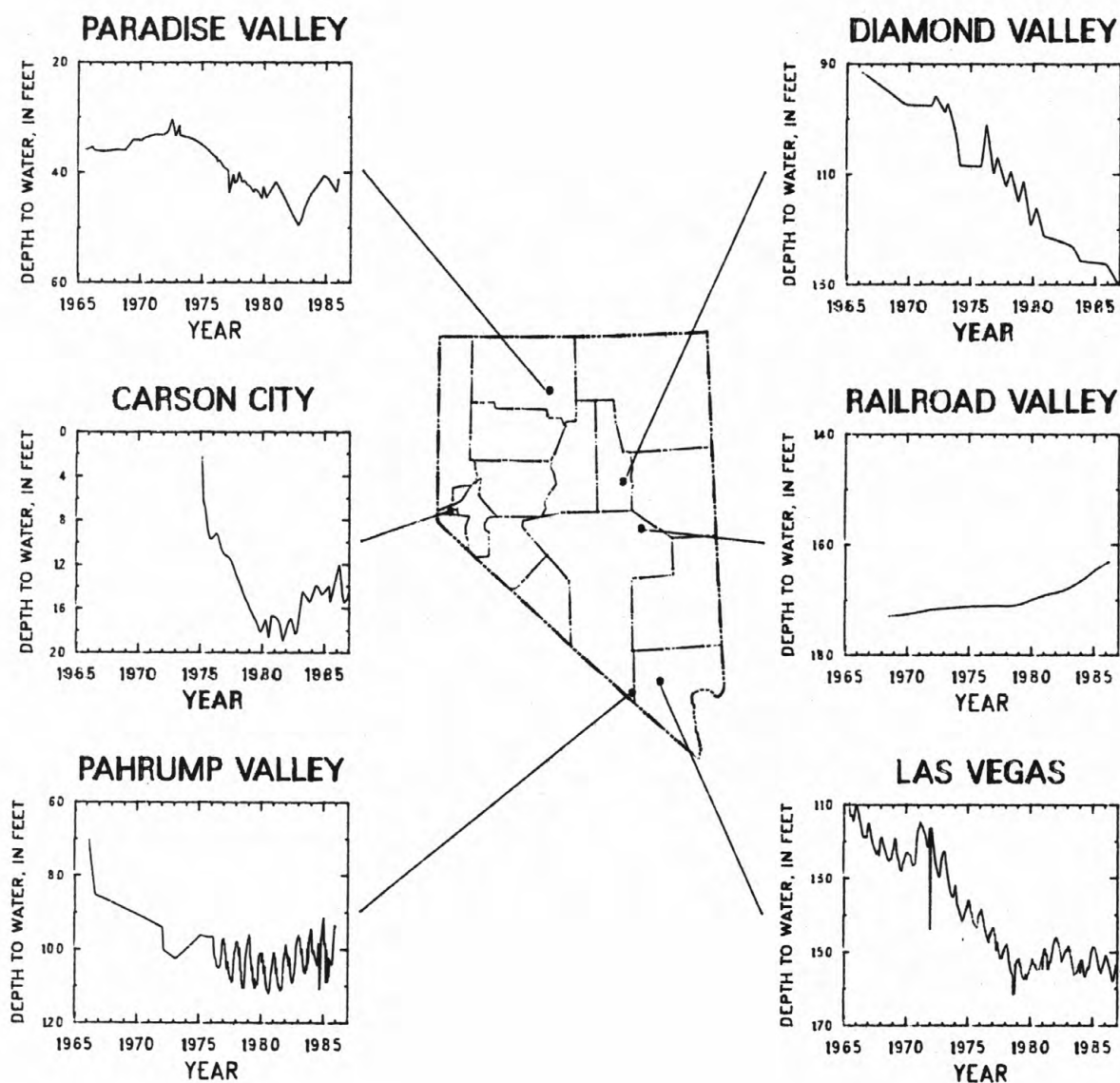


FIGURE 6. --Long-term water-level trends in six selected observation wells. Except for Railroad Valley well, straight-line segments span periods with no water-level measurements.

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 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).

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-Altitude Precipitation Network is a 16-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 1986 water year that began October 1, 1985, and ended September 30, 1986. 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 9, 10, and 11. 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 indentation in the list of gaging stations. Each indentation represents one rank. This downstream order and system of indentation show (1) which stations are on tributaries between any two stations and (2) the rank of the tributary on which each station is situated.

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

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.

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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/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:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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 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 [$(\text{ft}^3/\text{s})/\text{mi}^2$] 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- μm 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 sedimentation 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 [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by 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 [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements 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 (ft³/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 Q₁₀) 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 emerged 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 planimeted. All areas shown are those for the stage when the planimeted 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 abbreviation 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, 1985, is called the "1985 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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GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

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

Page

COLORADO RIVER BASIN [PART 9]

Colorado River:

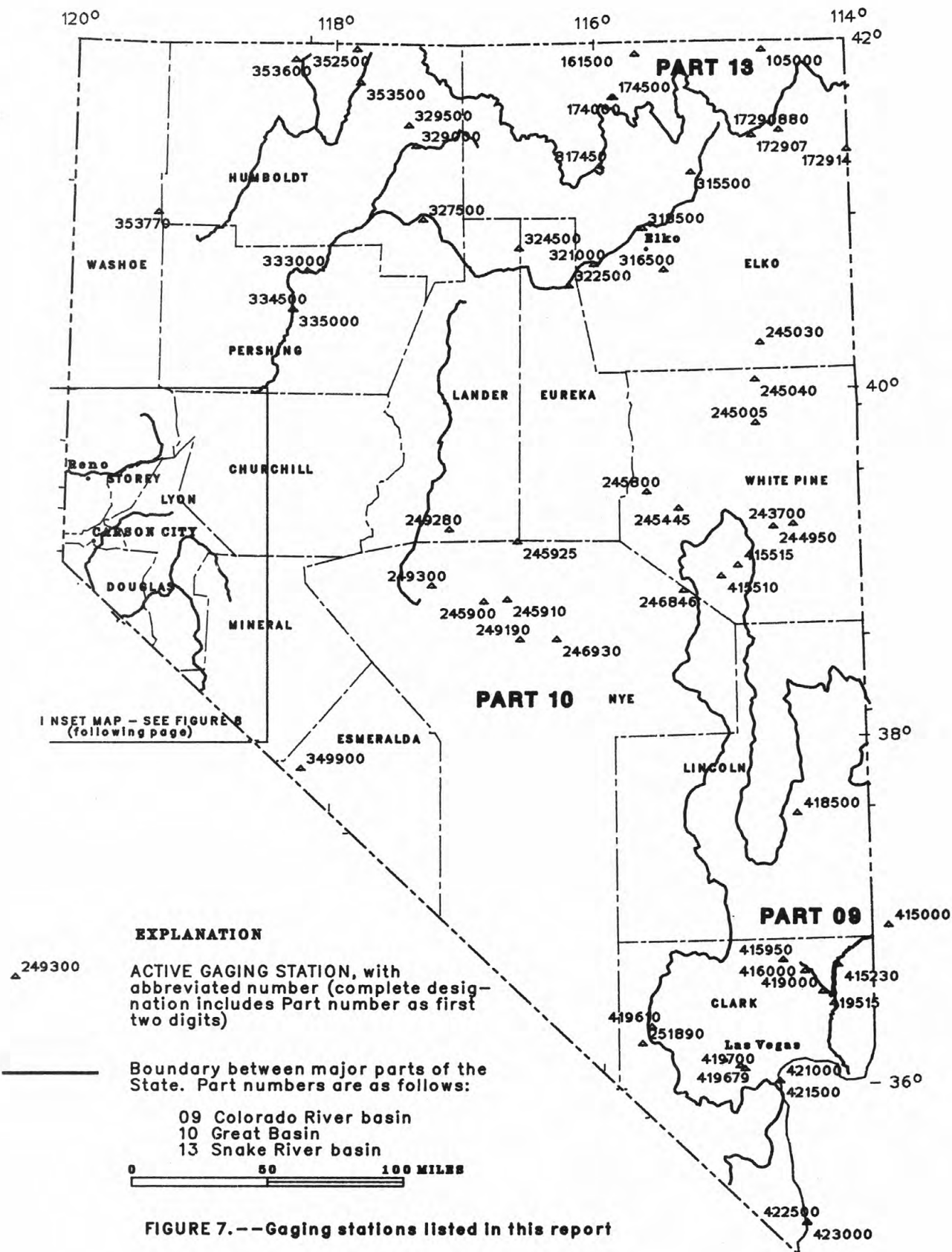
VIRGIN RIVER BASIN	
Virgin River at Littlefield, AZ (dct)	37
Virgin River above Halfway Wash near Riverside (cbts)	42
White River (head of Muddy River):	
Water Canyon Creek near Preston (d)	44
Crystal Springs near Hiko (d)	45
Muddy Spring at L.D.S. Farm near Moapa (d)	47
Warm Springs West near Moapa (d)	49
Muddy River near Moapa (d)	51
Meadow Valley Wash:	
Meadow Valley Wash near Caliente (d)	52
Muddy River near Glendale (d)	53
Muddy River above Lake Mead near Overton (dcbts)	54
LAS VEGAS VALLEY	
Rogers Spring near Overton Beach (d)	57
Lee Canyon near Charleston Park (d)	59
Corn Creek Spring at National Fish and Wildlife Headquarters (d)	60
Las Vegas Wasteway near East Las Vegas (dct)	62
Las Vegas Wash near Henderson (dcts)	67
Las Vegas Wash at Powerline Crossing below Henderson, NV (ct)	72
Las Vegas Wash near Boulder City (cbts)	75
Lake Mead at Hoover Dam, AZ-NV (a)	78
Colorado River below Hoover Dam, AZ-NV (cbts)	80
Lake Mohave at Davis Dam (a)	88
Colorado River below Davis Dam, AZ-NV (dct)	89

THE GREAT BASIN [PART 10]

GREAT SALT LAKE DESERT	
Thousand Springs Creek near Wilkins (d)	93
Thousand Springs Creek near Shores (d)	94
Thousand Springs Creek near Montello (d)	95
SPRING VALLEY	
Cleve Creek near Ely (d)	96
STEPTOE AND GOSHUTE VALLEYS	
Steptoe Creek near Ely (dcbts)	97
Duck Creek near Cherry Creek, NV (d)	100
Goshute Creek near Cherry Creek (d)	101
JAKES VALLEYS	
Illipah Creek near Hamilton, NV (d)	102
LITTLE SMOKY AND NEWARK VALLEYS	
Newark Valley tributary near Hamilton (d)	103
MONITOR VALLEY-DIAMOND VALLEY SYSTEM	
Pine Creek near Belmont (d)	104
Mosquito Creek near Belmont (d)	105
Stoneberger Creek near Austin (d)	106
HOT CREEK AND NORTHERN RAILROAD VALLEYS	
Little Currant Creek near Currant (d)	107
Sixmile Creek near Warm Springs (d)	108
STONE CABIN VALLEY	
Willow Creek near Warm Springs (d)	109
BIG SMOKY VALLEY (NORTHERN PART)	
Kingston Creek below Cougar Canyon near Austin (d)	110
South Twin River near Round Mountain (dcbts)	111
PAHRUMP VALLEY	
Peak Springs Canyon Creek near Charleston Peak (d)	114
WALKER LAKE BASIN	
Walker Lake near Hawthorne (a)	115
Virginia Creek (head of Walker River):	
Upper Twin Lake near Bridgeport, CA (a)	116
Lower Twin Lake near Bridgeport, CA (a)	117
East Walker River (continuation of Virginia Creek):	
Bridgeport Reservoir near Bridgeport, CA (a)	118
East Walker River near Bridgeport, CA (d)	119
East Walker River above Strosnider ditch, near Mason (d)	120
West Walker River:	
Little Walker River near Bridgeport, CA (d)	121
West Walker River below Little Walker River, near Coleville, CA (d)	122
West Walker River near Coleville, CA (d)	123
Topaz Lake near Topaz, CA (a)	124

GAGING STATIONS

	Page
<u>THE GREAT BASIN--Continued</u>	
<u>WALKER LAKE BASIN--Continued</u>	
West Walker River--Continued	
West Walker River at Hoyer bridge, near Wellington (d)	125
West Walker River near Hudson (d)	126
Walker River near Wabuska (dcbs)	127
<u>HUMBOLDT-CARSON SINK BASIN</u>	
<u>CARSON RIVER BASIN</u>	
East Fork Carson River below Markleeville Creek, near Markleeville, CA (d)	130
East Fork Carson River near Gardnerville (d)	131
Pine Nut Creek near Gardnerville (d)	132
Buckeye Creek near Minden (d)	133
West Fork Carson River at Woodfords, CA (d)	134
Carson River near Carson City (d)	135
Kings Canyon Creek near Carson City (d)	136
Ash Canyon Creek near Carson City (d)	137
Eagle Valley Creek at Carson City (d)	138
Carson River near Fort Churchill (dcbs)	139
Lahontan Reservoir near Fallon (a)	143
Carson River below Lahontan Reservoir, near Fallon (d)	144
Carson River at Tarzyn Road near Fallon (d)	145
<u>HUMBOLDT RIVER BASIN</u>	
East Fork Humboldt River:	
Marys River above Hot Springs Creek, near Deeth (d)	146
Lamoille Creek near Lamoille (d)	147
Gance Creek near Tuscarora (d)	148
Humboldt River near Elko (d)	149
Humboldt River near Carlin (dcbs)	150
Humboldt River at Palisade (d)	153
Rock Creek near Battle Mountain (d)	154
Humboldt River at Comus (d)	155
Little Humboldt River:	
Little Humboldt River near Paradise Valley (d)	156
Martin Creek near Paradise Valley (d)	157
Humboldt River near Imlay (dts)	158
Rye Patch Reservoir near Rye Patch (a)	160
Humboldt River near Rye Patch (dcbs)	161
<u>PYRAMID AND WINNEMUCCA LAKES BASIN</u>	
Pyramid Lake near Nixon (a)	164
Lake Tahoe:	
Third Creek near Crystal Bay (dts)	165
Marlette Lake near Carson City (a)	166
Marlette Creek near Carson City (d)	167
Logan House Creek near Glenbrook (dts)	168
Edgewood Creek near Stateline, NV (dts)	173
Lake Tahoe at Tahoe City, CA (a)	178
Truckee River at Tahoe City (d)	179
Truckee River at Farad, CA (d)	180
Truckee River at Reno (d)	181
Truckee River near Sparks (d)	182
Franktown Creek (head of Steamboat Creek) near Carson City (d)	183
Steamboat Creek:	
Washoe Lake near Carson City (a)	184
Little Washoe Lake near Steamboat (a)	185
Galena Creek at Galena State Park (d)	186
Galena Creek near Steamboat (d)	187
Steamboat Creek at Steamboat (d)	188
Truckee River at Vista (d)	189
Truckee River below Tracy (d)	190
Truckee River at Clark (ct)	191
Truckee Canal near Wadsworth (d)	195
Truckee Canal near Hazen (d)	196
Truckee River below Derby Dam, near Wadsworth (d)	197
Truckee River at Wadsworth (d)	198
Truckee River near Nixon (dcbs)	199
<u>BLACK ROCK DESERT BASIN</u>	
Quinn River:	
McDermitt Creek near McDermitt (d)	203
Kings River near Oroville (d)	204
<u>HUALAPAI FLAT</u>	
South Willow Creek near Gerlach (d)	205
<u>SNAKE RIVER BASIN [PART 13]</u>	
<u>SALMON FALLS CREEK BASIN</u>	
Salmon Falls Creek near San Jacinto (d)	206
<u>BRUNEAU RIVER BASIN</u>	
Bruneau River at Rowland (d)	207
<u>OWYHEE RIVER BASIN</u>	
Wild Horse Reservoir near Gold Creek (a)	208
Owyhee River near Gold Creek (d)	209



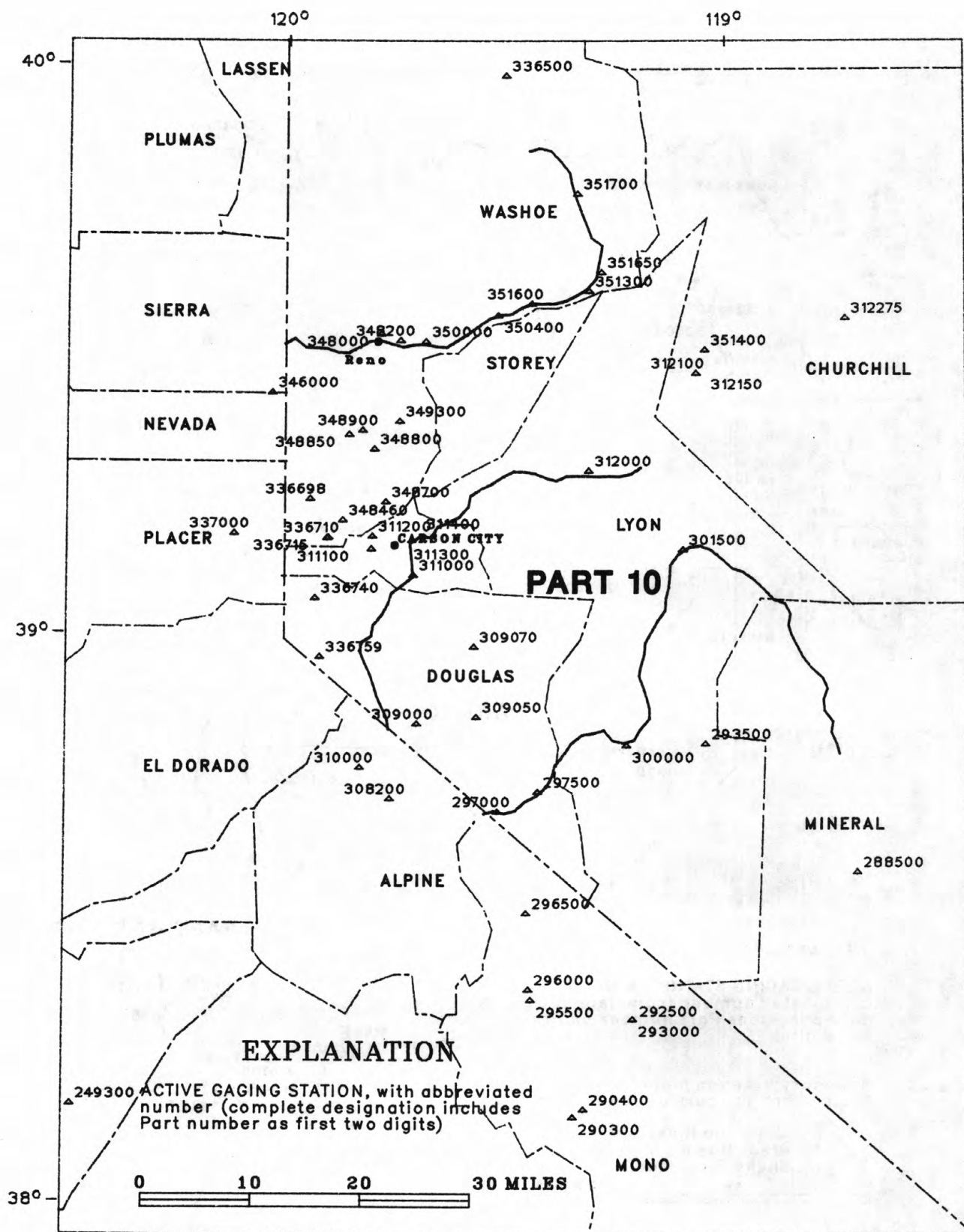


FIGURE 8.-- Gaging Stations in West-Central Nevada.

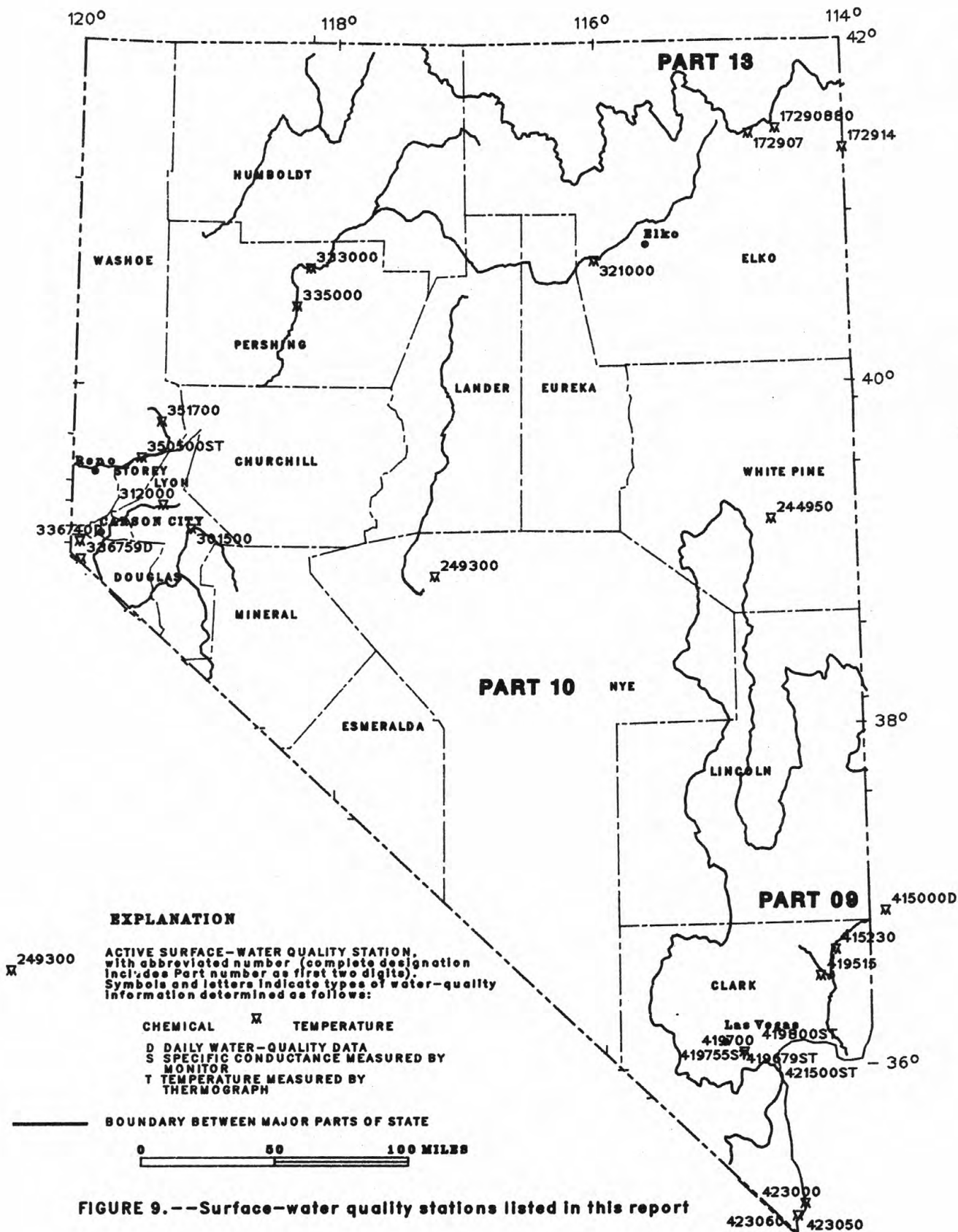


FIGURE 9.--Surface-water quality stations listed in this report

GAGING-STATION RECORDS

37

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

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 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft, 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 good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--57 years, 242 ft³/s, 175,300 acre-ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	1100	*1,970	*7.09	No other peak greater than base discharge.			
Minimum daily, 57 ft ³ /s, July 2, 4, 6, 8.							

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	100	e105	474	241	288	256	275	199	195	63	96	167
2	116	96	330	237	216	226	554	202	202	57	81	139
3	100	102	244	230	186	223	648	186	131	60	77	139
4	109	102	321	230	189	216	344	176	83	57	70	197
5	96	164	292	230	189	237	288	189	81	60	67	219
6	107	189	279	230	176	216	256	164	83	65	74	212
7	e122	199	292	230	170	212	248	153	74	57	74	199
8	e140	199	267	226	180	199	275	147	68	61	70	199
9	e163	205	264	223	176	334	308	159	68	57	67	202
10	e195	e220	252	226	176	348	317	186	72	60	70	199
11	e190	e220	252	248	e150	368	296	216	65	61	120	170
12	e180	e220	252	252	e152	362	291	199	72	60	91	173
13	e169	e290	256	248	e160	353	219	180	67	60	77	183
14	e162	e260	248	241	e210	335	170	176	81	58	123	186
15	e160	e225	252	244	e450	252	159	180	131	60	129	176
16	e156	e190	e250	241	e780	233	164	180	136	61	100	173
17	e154	e170	e250	241	e450	317	173	202	134	63	81	192
18	e136	e173	e250	241	e490	288	159	205	134	70	79	189
19	119	e178	e250	248	e560	252	183	180	139	68	79	173
20	111	e183	e250	241	e840	241	170	e180	102	74	89	209
21	114	e160	e210	226	e540	244	170	e180	65	72	105	216
22	107	e150	e220	233	e410	244	161	e180	63	101	132	226
23	111	e175	e250	241	e250	248	159	e180	70	230	105	230
24	114	e215	e245	230	e270	271	186	e180	68	195	100	541
25	111	e255	e242	226	292	264	186	e180	68	205	105	602
26	96	358	e240	223	264	244	170	e180	70	136	167	802
27	96	296	e235	233	256	252	176	e180	65	107	183	367
28	107	264	e230	237	264	241	167	180	65	85	153	300
29	e121	264	e230	237	---	260	167	189	63	83	131	292
30	e130	889	e225	237	---	279	186	189	58	85	150	279
31	e118	---	233	256	---	321	---	202	---	96	153	---
TOTAL	4010	6716	8085	7327	8734	8336	7225	5679	2773	2627	3198	7551
MEAN	129	224	261	236	312	269	241	183	92.4	84.7	103	252
MAX	195	889	474	256	840	368	648	216	202	230	183	802
MIN	96	96	210	223	150	199	159	147	58	57	67	139
AC-FT	7950	13320	16040	14530	17320	16530	14330	11260	5500	5210	6340	14980

CAL YR 1985 TOTAL 86222 MEAN 236 MAX 936 MIN 66 AC-FT 171000
WTR YR 1986 TOTAL 72261 MEAN 198 MAX 889 MIN 57 AC-FT 143300

e Estimated.

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to current year.

CHEMICAL ANALYSES: July 1949 to September 1969, once daily (composited); October 1969 to current year, monthly.

SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: October 1947 to current year, once daily.

BIOLOGICAL DATA: October 1977 to September 1979, twice yearly.

MICROBIOLOGICAL DATA: November 1977 to October 1979, monthly.

SEDIMENT DATA: October 1947 to September 1968, once daily; September 1977 to November 1979, monthly.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (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 ft³/s. This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975 was due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geological Survey, Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,650 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, 4,030 microsiemens Nov. 5; minimum, 1,230 microsiemens Nov. 30.

WATER TEMPERATURES: Maximum, 32.0°C July 2, 3; minimum, 8.0°C Dec. 11, 12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CaCO ₃)	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT 18...	1015	121	3590	7.90	23.0	20.0	9.0	106	1200	310
NOV 25...	1300	256	2660	8.00	13.0	13.5	9.2	95	840	220
DEC 30...	1315	227	--	7.90	14.5	12.0	10.2	102	880	230
JAN 27...	1215	230	2600	7.60	20.0	13.0	--	--	880	220
FEB 25...	1145	287	2490	7.60	26.0	17.0	8.9	98	860	220
MAR 26...	1300	258	2580	7.90	26.0	19.5	8.7	101	860	230
APR 28...	1145	174	2710	8.00	28.5	20.5	9.0	108	850	210
MAY 27...	1045	179	2720	7.80	33.0	24.0	8.4	108	850	210
JUN 11...	1200	65	3410	7.80	32.0	27.5	8.0	109	1400	360
JUL 28...	1200	85	--	7.60	33.0	26.5	7.4	100	1200	330
AUG 26...	1300	333	3600	7.70	32.5	27.0	6.5	88	1000	280
SEP 25...	1400	597	1780	7.70	22.0	18.0	8.6	98	730	220

VIRGIN RIVER BASIN

39

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)
OCT 18...	100	360	5	39	237	1100	490	0.90	20
NOV 25...	71	260	4	20	234	720	360	0.70	18
DEC 30...	75	280	4	22	270	800	390	0.80	18
JAN 27...	81	250	4	20	268	760	350	0.70	19
FEB 25...	75	220	3	19	253	660	310	0.70	20
MAR 26...	69	250	4	22	--	680	340	0.80	17
APR 28...	80	250	4	20	240	720	320	0.80	17
MAY 27...	79	250	4	21	157	840	350	0.70	18
JUN 11...	110	280	3	29	212	1100	360	1.0	20
JUL 28...	100	270	3	27	235	1100	400	1.0	20
AUG 26...	80	380	5	30	198	1200	510	0.80	15
SEP 25...	44	140	2	13	181	590	160	0.50	11

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 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)
OCT 18...	2580	2600	3.5	--	0.620	--	0.010	--	0.630
NOV 25...	1810	1800	2.5	--	--	--	--	--	--
DEC 30...	1990	2000	2.7	--	--	--	--	--	--
JAN 27...	1840	1900	2.5	0.670	--	0.030	--	0.700	--
FEB 25...	1730	1700	2.4	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--
APR 28...	1970	1800	2.7	0.590	--	0.010	--	0.600	--
MAY 27...	1970	1900	2.7	--	--	--	--	--	--
JUN 11...	2510	2400	3.4	--	--	--	--	--	--
JUL 28...	2510	2400	3.4	--	--	<0.010	--	0.500	--
AUG 26...	2660	2600	3.6	--	--	--	--	--	--
SEP 25...	1440	1300	2.0	--	--	--	--	--	--

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	19.0	11.0	11.0	15.0	19.0	---	21.0	26.0	31.0	30.0	25.5
2	23.0	18.0	11.0	11.5	16.0	19.0	14.0	24.0	28.0	32.0	30.0	25.0
3	23.0	19.0	14.0	12.0	18.0	19.0	15.0	22.0	28.0	32.0	30.0	27.0
4	23.0	19.0	15.0	12.0	15.0	19.0	18.0	19.0	27.0	27.0	28.0	26.0
5	22.0	17.0	15.0	11.5	16.0	19.0	20.0	21.0	25.0	26.0	28.0	26.0
6	20.0	16.0	14.0	10.0	14.0	19.0	---	17.0	25.0	27.0	28.0	25.0
7	20.0	16.0	12.0	10.0	13.0	19.0	20.0	20.0	25.0	27.0	27.0	25.0
8	15.0	15.5	10.0	10.0	12.0	16.0	18.0	20.0	24.0	27.0	29.0	23.0
9	15.0	15.0	10.0	10.0	---	15.0	18.0	20.0	28.0	26.0	30.0	23.0
10	17.0	14.0	9.0	11.0	---	14.0	17.0	22.0	28.0	27.0	31.0	23.0
11	20.0	12.0	8.0	11.5	---	14.0	22.0	24.0	28.0	27.0	27.0	28.0
12	20.0	10.5	8.0	11.0	14.0	13.0	17.0	24.0	26.0	27.0	27.0	23.0
13	19.0	12.0	9.0	10.5	15.0	13.0	19.0	24.0	27.0	27.0	27.0	24.0
14	18.0	11.0	9.0	11.0	14.0	15.0	18.0	24.0	25.0	27.0	29.0	23.0
15	18.0	12.0	9.0	13.0	15.0	15.0	19.0	24.0	26.0	28.0	26.0	21.0
16	20.0	13.0	19.0	13.0	10.0	14.0	16.0	22.0	26.0	27.0	28.0	21.0
17	20.0	14.0	10.0	13.0	13.0	14.0	18.0	25.0	27.0	28.0	28.0	23.0
18	20.0	11.0	10.0	11.0	13.0	15.0	19.0	25.0	27.0	28.0	25.0	22.0
19	21.0	10.0	11.0	13.0	14.0	17.0	20.0	23.0	26.0	28.0	30.0	21.0
20	20.0	11.0	11.0	13.0	12.0	18.0	22.0	24.0	25.0	26.0	27.0	21.0
21	20.0	12.0	11.5	12.0	11.0	19.0	24.0	24.0	26.0	26.0	28.0	20.0
22	19.0	13.0	11.0	12.0	14.0	19.0	22.0	24.0	27.0	25.0	27.0	20.0
23	19.0	12.0	10.0	12.5	15.5	19.0	21.0	24.0	27.0	27.0	27.0	18.0
24	19.0	13.0	11.0	12.0	17.0	18.0	19.0	27.0	27.0	27.0	26.0	17.0
25	20.5	14.0	11.0	12.0	17.0	19.0	18.0	27.0	29.0	27.0	29.0	17.0
26	20.0	13.0	10.5	11.0	19.0	20.0	17.0	27.0	29.0	27.0	27.0	17.0
27	20.0	13.0	10.0	12.0	19.0	21.0	20.0	26.0	29.0	27.0	26.0	17.0
28	20.0	14.0	10.0	15.0	19.0	19.0	22.0	25.0	27.0	25.0	27.0	16.0
29	20.0	11.0	10.5	15.0	---	20.5	23.0	27.0	25.0	26.0	29.0	17.0
30	19.0	11.0	11.0	16.0	---	21.0	21.0	27.0	30.0	28.0	25.0	17.0
31	18.0	---	11.0	16.0	---	19.0	---	27.0	---	28.0	27.0	---
MEAN	19.7	13.7	11.0	12.1	---	17.4	---	23.5	26.8	27.4	27.8	21.7
MAX	23.0	19.0	19.0	16.0	---	21.0	---	27.0	30.0	32.0	31.0	28.0
MIN	15.0	10.0	8.0	10.0	---	13.0	---	17.0	24.0	25.0	25.0	16.0

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3350	3560	1870	2660	2590	2720	---	2370	2540	3170	3110	3160
2	3350	3560	2230	2580	3060	2700	1790	2390	2560	3110	3120	3190
3	3350	3560	2330	2630	3110	2860	1320	2390	2760	3100	3200	3270
4	3370	3400	2160	2640	3180	2850	1910	2450	3060	3070	3210	2980
5	3290	4030	2500	2590	3300	2820	2070	2360	3250	3110	3080	2730
6	3400	2970	2460	2620	3290	2880	---	2550	3180	3310	3260	2580
7	3500	2970	2550	2620	3310	2890	2170	2870	3090	3170	3100	2780
8	3290	2930	2500	2630	3510	2940	1930	2880	3160	3200	3070	2780
9	3350	2890	2500	2680	---	3160	2040	2890	3090	3100	3110	2780
10	2970	2720	2590	2640	---	1840	1890	2470	3190	3030	3190	2720
11	3180	2760	2590	3160	---	2180	2090	2420	3080	3070	3220	2970
12	3250	2690	2670	2530	3390	1950	1970	2580	3270	3100	3070	2950
13	3290	2550	2610	2480	3280	2020	2240	2570	3260	3070	3090	2950
14	3290	2650	2760	2480	3490	2430	2340	2650	3410	3040	3700	2760
15	3370	2970	2670	2630	3000	2470	2550	2700	2970	3180	3400	2910
16	3500	3180	2550	2520	1070	2320	2750	2680	2970	3180	3400	2820
17	3500	3290	2630	2530	1210	2290	2740	2590	2830	3030	3290	2880
18	3500	3290	2630	2510	1630	2310	2610	2580	2900	3190	3140	2830
19	3500	3290	2720	2550	1950	2610	2340	2680	2790	3080	3100	2870
20	3660	3290	2720	2540	1030	2730	2480	2670	2930	3060	3300	2860
21	3610	3290	2800	2640	1800	2740	2590	2870	3030	3170	3110	2640
22	3610	3560	3250	2630	2300	2640	2730	2670	3180	3240	3270	2580
23	3610	3180	2670	2550	2320	2550	2820	2640	3290	2380	3270	2590
24	3610	2720	2670	2600	2490	2370	2450	2640	3160	2480	3100	2370
25	3400	2720	2590	2600	2460	2390	2480	2600	3170	2590	3100	1890
26	3400	2330	2590	2650	2780	2440	2660	2690	3290	2900	3590	1420
27	3480	2160	2630	2640	2750	2390	2610	2670	3190	3070	3090	1990
28	3560	2590	2630	2530	2760	2400	2740	2620	3090	3130	3010	2120
29	3560	1270	2800	2540	---	2230	2860	2740	3090	3270	3070	2140
30	3610	1230	2760	2560	---	2230	2820	2700	3180	3260	3090	2220
31	3610	---	2630	2550	---	1960	---	2600	---	3360	3170	---
MEAN	3430	2920	2589	2604	---	2494	---	2619	3065	3072	3195	2658
MAX	3660	4030	3250	3160	---	3160	---	2890	3410	3360	3700	3270
MIN	2970	1230	1870	2480	---	1840	---	2360	2540	2380	3010	1420

VIRGIN RIVER BASIN

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV

WATER-QUALITY RECORDS

LOCATION.--36°40'28", long 114°17'54", in NE1/4SW1/4NE1/4 sec.32, T.14 S., R.69 E., Clark County, Hydrologic Unit 15010010, on left bank, 1.3 mi upstream from Halfway Wash, 6.1 mi southeast of Riverside, and 7.5 mi upstream from waterline of Lake Mead, at elevation 1,221 ft, National Geodetic Vertical Datum of 1929.

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

PERIOD OF RECORD.--December 1977 to September 1986 (discontinued).

CHEMICAL ANALYSES, MICROBIOLOGICAL AND SEDIMENT DATA: January 1978 to September 1980, monthly; October 1980 to September 1986, every 2 months.

SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: December 1977 to April 1978, monthly; May 1978 to September 1982, once daily; October 1982 to September 1986, every two months.

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

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 5,260 microsiemens Sept. 16, 1978; minimum, 770 microsiemens May 26, 1983.

PHYTOPLANKTON: Maximum, 8,200 cells/mL May 28, 1981; minimum, 27 cells/mL Mar. 30, 1978.

FECAL STREPTOCOCCI: Maximum, 41,000 colonies/100 mL (non-ideal colony count) July 29, 1982; minimum, 48 colonies/100 mL Sept. 16, 1986.

WATER TEMPERATURES: Maximum, 36.5°C July 31, 1982; minimum, 3.5°C Jan. 1, 1979.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 12,000 mg/L July 29, Sept. 29, 1982; minimum, 166 mg/L Sept. 27, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 CaCO ₃)
NOV 26...	1430	260	2900	8.20	18.0	16.5	180	8.8	95	K89	600	940
FEB 11...	1230	137	3600	7.80	17.0	8.5	34	11.1	100	K40	K80	1300
MAR 24...	1230	277	2780	8.10	26.0	21.0	150	8.4	100	K290	1200	1000
MAY 30...	0900	110	3080	8.00	30.0	24.0	60	7.6	96	1300	1600	1200
JUL 23...	1115	191	3900	7.80	31.0	32.0	3500	6.7	98	470	450	1400
SEP 16...	1200	105	3390	7.80	27.5	23.0	80	8.3	103	130	48	1300

K: NON-IDEAL COLONY COUNT.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 AS CACO3)	ALKA- LINITY CARBON- ATE FET-FLD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 26...	220	94	280	4	22	295	242	237	850	400	0.80	19
FEB 11...	350	100	340	4	27	332	272	267	1200	500	0.90	23
MAR 24...	250	100	270	4	25	298	245	243	810	360	0.80	19
MAY 30...	320	100	270	3	22	211	173	170	1100	370	0.70	18
JUL 23...	350	130	360	4	36	220	180	180	1400	500	0.90	18
SEP 16...	320	120	330	4	28	223	183	182	1000	430	0.80	18
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 26...	2040	2000	2.8	0.610	0.010	0.620	0.170	0.160	0.53	0.70	0.170	0.020
FEB 11...	2630	2700	3.6	0.590	0.020	0.610	0.190	0.180	0.21	0.40	0.080	0.020
MAR 24...	1990	2000	2.7	--	<0.010	0.580	0.100	0.070	0.70	0.80	0.310	0.040
MAY 30...	2410	2300	3.3	--	<0.010	0.380	0.120	0.110	0.48	0.60	0.080	0.010
JUL 23...	3090	2900	4.2	--	<0.010	<0.100	0.200	0.150	2.7	2.9	0.400	<0.010
SEP 16...	2440	2400	3.3	--	<0.010	0.270	0.160	0.140	0.44	0.60	0.120	0.010
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 26...	0.020	10	7	100	<10	<1	<1	1	<1	30	<1	390
FEB 11...	0.020	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	0.030	20	8	100	<10	<1	<1	<1	1	30	<1	390
MAY 30...	<0.010	20	4	100	<10	<1	<1	<1	<1	40	1	390
JUL 23...	<0.010	--	--	--	--	--	--	--	--	--	--	--
SEP 16...	0.010	20	5	<100	<10	<1	<1	1	<1	40	<5	470
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 26...	20	<0.1	1	3	2	<1	3500	6	20	1440	1010	40
FEB 11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	10	<0.1	6	3	1	<1	3400	6	10	1000	748	45
MAY 30...	20	<0.1	3	2	1	<1	4500	4	<10	430	128	--
JUL 23...	--	--	--	--	--	--	--	--	--	2190	1130	58
SEP 16...	20	<0.1	14	1	1	<1	4200	<5	20	686	194	37

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 and 7 mi northeast of Preston, NV.

DRAINAGE AREA---11.0 mi², (revised).

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

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 ft³/s, Aug. 16, 1984, gage-height, 5.92 ft; minimum daily, 0.14 ft³/s, Nov. 19, 1986.

EXTREMES FOR CURRENT YEAR---Maximum discharge, 7.5 ft³/s, May 29; minimum daily, 0.14 ft³/s, Nov. 19.

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	2.1	2.0	1.9	2.2	1.4	3.4	5.1	3.7	5.4	e4.2	e4.0	e4.0
2	2.0	2.0	1.9	2.0	1.4	3.9	5.1	3.7	3.7	e4.2	e3.9	e4.0
3	1.9	2.1	1.9	2.0	1.4	3.5	6.2	3.4	3.7	e4.3	e3.9	e4.2
4	1.9	2.1	2.1	2.0	1.4	3.3	4.6	3.0	3.4	e4.3	e3.9	e4.3
5	1.9	2.1	2.1	2.0	e1.3	2.9	3.3	3.3	3.4	e4.4	e3.9	e4.6
6	2.1	2.1	2.1	2.0	e1.4	2.9	3.1	3.0	3.4	e4.4	e3.8	e4.7
7	2.4	2.1	2.1	e1.9	e1.4	2.7	3.2	3.7	3.7	e4.6	e3.7	e4.7
8	2.2	2.1	2.1	e1.8	e1.5	4.1	3.9	3.7	3.7	4.7	e3.7	e4.7
9	2.2	2.1	e1.5	1.9	e.42	3.9	3.4	4.1	3.7	4.9	e3.6	e5.2
10	2.3	2.1	e.98	1.9	e.58	3.2	3.4	3.9	3.7	4.2	e3.7	e5.0
11	2.4	e2.1	e.65	1.9	e1.1	3.1	3.2	3.4	3.4	4.5	e3.9	e4.2
12	2.4	e2.1	e.50	1.9	.96	3.4	3.0	3.7	3.4	4.8	e3.9	e4.2
13	2.3	e2.1	e.70	1.9	1.1	2.9	3.2	3.9	3.7	4.5	e3.8	e3.9
14	2.4	e2.1	1.5	1.9	1.2	2.7	3.4	3.7	3.7	3.9	e3.8	e3.9
15	2.4	2.1	2.6	1.9	1.4	3.4	3.1	3.4	3.9	4.3	e3.8	e3.9
16	2.4	2.2	2.9	1.8	1.4	4.8	3.2	3.9	3.7	4.6	e3.9	4.5
17	2.4	2.1	3.0	1.8	1.4	3.2	4.6	3.4	3.4	4.6	e3.8	4.2
18	2.4	e.73	3.1	1.8	1.5	2.9	3.7	3.3	3.4	4.3	e3.8	3.8
19	2.5	e.14	3.1	1.9	2.8	2.9	3.2	3.3	3.2	4.6	e3.9	e4.1
20	2.5	e.42	3.2	1.9	3.0	3.3	3.2	3.3	3.4	4.6	e4.0	e4.3
21	2.4	2.2	2.5	1.8	2.4	3.8	2.9	3.0	3.7	4.6	e4.2	e4.5
22	2.2	2.1	2.2	1.8	2.2	4.8	2.9	3.2	3.7	4.6	e4.2	e4.7
23	2.2	2.1	2.2	1.9	2.2	4.3	3.2	4.3	3.2	4.6	e4.0	e4.8
24	2.1	2.1	2.2	1.8	2.5	4.8	3.2	4.8	3.7	4.6	e3.8	e4.9
25	2.0	2.2	2.2	1.5	3.2	4.6	3.0	5.1	3.9	4.6	e3.9	e5.1
26	2.1	2.2	2.2	1.4	3.3	5.1	3.0	4.6	4.1	4.6	e4.0	e4.3
27	2.2	2.1	2.2	1.4	3.3	4.3	3.0	4.8	4.1	e4.3	e3.9	e4.0
28	2.2	2.1	2.2	1.4	3.4	4.6	3.0	4.6	e4.0	e4.1	e3.9	e4.1
29	2.1	2.1	2.2	1.4	---	4.6	3.4	5.6	e4.0	e4.0	e3.9	e4.3
30	2.1	2.1	2.4	1.4	---	4.2	3.7	6.9	e4.0	e4.0	e3.9	e4.1
31	2.1	---	2.2	1.4	---	3.9	---	6.2	---	e4.0	e4.0	---
TOTAL	68.8	58.19	64.63	55.6	50.56	115.4	106.4	123.9	111.4	136.9	120.4	131.2
MEAN	2.22	1.94	2.08	1.79	1.81	3.72	3.55	4.00	3.71	4.42	3.88	4.37
MAX	2.5	2.2	3.2	2.2	3.4	5.1	6.2	6.9	5.4	4.9	4.2	5.2
MIN	1.9	.14	.50	1.4	.42	2.7	2.9	3.0	3.2	3.9	3.6	3.8
AC-FT	136	115	128	110	100	229	211	246	221	272	239	260

CAL YR 1985 TOTAL 859.71 MEAN 2.36 MAX 4.3 MIN .14 AC-FT 1710
WTR YR 1986 TOTAL 1143.37 MEAN 3.13 MAX 6.9 MIN .14 AC-FT 2270

e Estimated.

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.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s, many days, gage height, 1.07 ft; minimum daily, 2.6 ft³/s, Mar. 5.

[illegible]

COLORADO RIVER BASIN

09415590 CRYSTAL SPRING NEAR HIKO, NV--Continued

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	12	11	11	11	11	11	11	11	3.4	7.8	11	2.7
2	12	11	11	11	11	11	11	11	5.1	9.2	11	2.7
3	12	11	11	11	11	11	11	11	8.3	9.6	11	5.3
4	12	11	11	11	11	5.5	6.9	11	11	11	11	12
5	12	11	11	11	11	2.6	3.0	11	11	11	11	12
6	12	11	11	11	11	3.4	2.9	11	11	6.7	11	12
7	6.2	11	11	11	11	3.3	2.9	11	11	2.8	11	12
8	2.9	11	11	11	11	3.3	2.9	11	11	2.7	11	12
9	3.0	11	11	11	11	3.2	2.9	11	11	2.7	11	12
10	3.0	11	11	11	11	5.7	4.6	11	11	2.7	11	12
11	2.9	11	11	11	11	11	12	11	11	7.8	11	12
12	2.9	11	11	11	11	11	11	11	11	11	12	12
13	2.9	11	11	11	11	11	11	11	11	11	12	12
14	3.0	11	11	11	11	11	11	11	11	11	12	12
15	2.9	11	11	11	11	11	11	11	11	11	12	13
16	2.9	11	11	11	11	11	11	11	11	11	8.0	13
17	2.9	11	11	11	11	11	11	11	11	11	3.0	13
18	2.9	11	11	11	11	11	11	11	11	11	3.0	13
19	2.9	11	11	11	11	11	11	11	11	11	3.6	13
20	5.7	11	11	11	11	11	11	11	11	7.7	3.3	13
21	11	11	11	11	11	11	11	11	11	2.7	8.5	13
22	11	11	11	11	11	11	11	11	11	2.7	12	13
23	11	11	11	11	11	11	11	6.3	11	2.7	12	13
24	11	11	11	11	11	11	11	2.9	10	2.7	12	13
25	11	11	11	11	11	11	11	3.0	2.7	8.1	12	13
26	11	11	11	11	11	11	11	3.7	2.7	8.9	12	13
27	11	11	11	11	11	11	11	4.5	3.0	5.4	12	13
28	11	11	11	11	11	11	11	2.7	11	9.5	12	13
29	11	11	11	11	---	11	11	2.7	11	11	11	13
30	11	11	11	11	---	11	11	2.7	8.1	11	2.7	13
31	11	---	11	11	---	11	---	2.7	---	11	2.7	---
TOTAL	240.0	330	341	341	308	291.0	280.1	273.2	285.3	245.4	298.8	350.7
MEAN	7.74	11.0	11.0	11.0	11.0	9.39	9.34	8.81	9.51	7.92	9.64	11.7
MAX	12	11	11	11	11	11	12	11	11	11	12	13
MIN	2.9	11	11	11	11	2.6	2.9	2.7	2.7	2.7	2.7	2.7
AC-FT	476	655	676	676	611	577	556	542	566	487	593	696

WTR YR 1986 TOTAL 3584.5 MEAN 9.82 MAX 13 MIN 2.6 AC-FT 7110

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.

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 ft³/s, Feb. 1, 1986, gage height, 1.67 ft; minimum daily, 7.4 ft³/s, many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s, Feb. 1, gage height, 1.67 ft; minimum daily, 7.4 ft³/s, many days.

[illegible]

VIRGIN RIVER BASIN

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

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	8.4	7.8	7.6	7.8	8.2	7.5	7.4	7.7	7.5	7.5	7.6	7.7
2	8.2	7.8	7.5	8.0	7.5	7.5	7.7	7.5	7.5	7.6	7.5	7.9
3	8.1	7.8	7.5	7.8	7.6	7.9	7.5	7.5	7.5	7.5	7.5	7.5
4	8.1	7.8	7.5	7.4	7.6	8.0	7.6	7.9	7.5	7.8	7.6	7.4
5	8.1	7.8	7.5	7.6	7.6	7.7	7.9	7.6	7.8	7.7	7.6	7.4
6	8.1	8.0	7.5	7.6	7.6	7.5	8.0	7.5	7.6	8.1	7.4	7.5
7	7.7	8.2	8.0	7.6	8.4	7.5	8.0	7.5	7.5	7.8	7.6	7.5
8	7.7	8.1	8.0	7.6	8.0	7.5	7.7	7.5	7.5	7.8	7.5	7.5
9	7.7	8.4	8.0	7.6	8.1	7.5	7.6	7.7	7.5	7.6	7.5	7.4
10	7.7	8.1	8.0	7.6	8.0	7.5	7.6	7.5	7.5	7.6	7.6	7.6
11	7.7	8.1	8.0	7.7	8.0	7.5	7.7	7.5	7.5	7.6	7.6	7.4
12	8.2	8.2	8.0	7.6	8.0	7.5	7.6	7.5	7.7	7.7	7.6	7.6
13	8.3	8.1	7.6	7.6	7.5	7.5	e7.6	7.5	7.5	8.1	7.6	7.5
14	8.2	7.7	7.5	7.6	7.5	7.5	e7.6	7.5	7.6	7.6	7.6	7.4
15	8.2	7.7	7.6	7.6	7.5	7.5	e7.6	7.4	7.5	7.6	7.5	7.5
16	8.3	7.6	7.5	7.6	7.5	7.5	e7.6	7.4	7.5	7.6	7.5	7.5
17	8.3	7.6	7.5	7.6	7.5	7.5	e7.6	7.5	7.5	7.7	7.5	7.5
18	8.3	7.6	7.5	7.6	7.5	7.5	e7.6	8.0	7.5	7.5	7.9	7.5
19	7.9	7.6	7.5	7.6	7.5	7.5	e7.6	7.6	8.0	7.5	7.5	7.5
20	8.8	7.6	7.5	7.6	7.5	7.5	e7.6	7.4	7.6	7.9	8.0	7.5
21	8.3	7.6	7.5	7.6	7.5	7.5	e7.5	7.5	7.6	7.7	7.7	7.5
22	8.3	7.6	7.5	7.6	7.5	7.5	e7.5	8.4	7.4	7.5	8.3	7.5
23	8.3	7.6	7.5	7.6	7.5	7.9	e7.5	7.7	7.5	7.5	7.6	7.6
24	8.3	7.6	7.5	7.6	7.5	8.0	e7.5	7.5	7.7	7.6	8.5	7.9
25	8.0	7.6	7.5	7.9	7.5	8.0	e7.5	7.5	7.8	7.6	7.7	8.1
26	8.8	7.6	7.6	8.0	7.5	7.5	e7.5	7.5	7.6	7.6	8.0	8.1
27	8.3	7.6	7.6	8.0	7.5	7.8	e7.5	7.5	7.5	7.6	7.6	7.7
28	8.2	7.6	7.6	8.0	7.5	7.5	e7.5	7.5	7.5	7.6	7.5	7.6
29	8.2	7.6	7.6	8.0	---	7.6	7.5	7.5	7.8	7.6	7.5	8.0
30	8.2	7.6	7.7	8.0	---	8.0	8.0	7.5	7.5	7.6	7.5	8.1
31	7.7	---	7.4	7.7	---	7.5	---	7.5	---	7.6	7.9	---
TOTAL	252.6	233.6	236.3	238.7	214.6	235.9	228.6	234.8	227.2	237.3	237.5	228.4
MEAN	8.15	7.79	7.62	7.70	7.66	7.61	7.62	7.57	7.57	7.65	7.66	7.61
MAX	8.8	8.4	8.0	8.0	8.4	8.0	8.0	8.4	8.0	8.1	8.5	8.1
MIN	7.7	7.6	7.4	7.4	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.4
AC-FT	501	463	469	473	426	468	453	466	451	471	471	453

WTR YR 1986 TOTAL 2805.5 MEAN 7.69 MAX 8.8 MIN 7.4 AC-FT 5560

e Estimated.

LOCATION.--Lat 36°42'41", long 114°42'48", 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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.3 ft³/s, Aug. 2, 1986, gage height, 1.2 ft³/s; minimum daily, 3.2 ft³/s, Dec. 10-17, 1985.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 5.3 ft³/s, Aug. 2, gage height, 1.2 ft³/s; minimum daily, 3.2 ft³/s, Dec. 10-17.

[illegible]

VIRGIN RIVER BASIN

09415920 WARM SPRINGS WEST NEAR MOAPA, NV--Continued

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	3.4	3.5	3.5	3.5	3.3	3.4	3.5	3.6	3.6	3.5	3.6	3.5
2	3.4	3.5	3.5	3.5	3.3	3.4	3.6	3.5	3.4	3.5	3.7	3.5
3	3.4	3.5	3.5	3.5	3.3	3.4	3.6	3.6	3.5	3.5	3.7	3.5
4	3.4	3.5	3.4	3.5	3.3	3.4	3.6	3.6	3.6	3.5	3.6	3.5
5	3.4	3.5	3.3	3.5	3.3	3.4	3.6	3.6	3.5	3.5	3.6	3.5
6	3.4	3.5	3.3	3.5	3.3	3.4	3.7	3.7	3.6	3.5	3.5	3.5
7	3.4	3.5	3.3	3.3	3.3	3.4	3.6	3.7	3.6	3.5	3.6	3.5
8	3.5	3.5	3.3	3.4	3.3	3.4	3.7	3.6	3.6	3.5	3.6	3.5
9	3.4	3.5	3.3	3.4	3.3	3.4	3.7	3.4	3.5	3.4	3.6	3.5
10	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.5	3.6	3.5	3.5	3.3
11	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.5	3.6	3.7	3.5	3.5
12	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.5	3.6	3.7	3.4	3.5
13	3.4	3.5	3.2	3.4	3.3	3.4	3.7	3.5	3.6	3.7	3.6	3.5
14	3.4	3.5	3.2	3.4	3.3	3.4	3.5	3.5	3.6	3.7	3.6	3.5
15	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.4	3.6	3.8	3.5	3.5
16	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.6	3.5	3.7	3.6	3.5
17	3.5	3.5	3.2	3.4	3.3	3.4	3.7	3.5	3.6	3.6	3.5	3.5
18	3.4	3.5	3.3	3.3	3.3	3.4	3.7	3.6	3.6	3.7	3.5	3.5
19	3.4	3.4	3.3	3.4	3.4	3.4	3.6	3.6	3.6	3.7	3.5	3.5
20	3.5	3.5	3.3	3.4	3.3	3.4	3.6	3.5	3.6	3.7	3.5	3.5
21	3.5	3.4	3.4	3.3	3.4	3.4	3.6	3.5	3.6	3.7	3.5	3.5
22	3.5	3.5	3.4	3.3	3.4	3.4	3.6	3.5	3.6	3.7	3.5	3.5
23	3.5	3.5	3.4	3.3	3.3	3.4	3.6	3.5	3.6	3.7	3.5	3.5
24	3.5	3.5	3.4	3.3	3.3	3.4	3.6	3.5	3.6	3.5	3.6	3.5
25	3.5	3.5	3.4	3.3	3.3	3.4	3.5	3.5	3.4	3.7	3.5	3.5
26	3.5	3.5	3.4	3.3	3.3	3.4	3.6	3.6	3.5	3.7	3.5	3.4
27	3.5	3.5	3.4	3.3	3.3	3.4	3.6	3.6	3.6	3.7	3.5	3.5
28	3.5	3.6	3.4	3.3	3.3	3.4	3.7	3.6	3.5	3.7	3.5	3.5
29	3.5	3.6	3.5	3.3	---	3.5	3.6	3.6	3.5	3.6	3.5	3.5
30	3.5	3.5	3.5	3.3	---	3.5	3.6	3.6	3.5	3.6	3.5	3.5
31	3.5	---	3.5	3.3	---	3.5	---	3.6	---	3.6	3.5	---
TOTAL	107.3	105.0	103.6	104.7	92.7	105.7	108.9	110.1	106.8	112.1	109.8	104.7
MEAN	3.46	3.50	3.34	3.38	3.31	3.41	3.63	3.55	3.56	3.62	3.54	3.49
MAX	3.5	3.6	3.5	3.5	3.4	3.5	3.7	3.7	3.6	3.8	3.7	3.5
MIN	3.4	3.4	3.2	3.3	3.3	3.4	3.5	3.4	3.4	3.4	3.4	3.3
AC-FT	213	208	205	208	184	210	216	218	212	222	218	208

WTR YR 1986 TOTAL 1271.4 MEAN 3.48 MAX 3.8 MIN 3.2 AC-FT 2520

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 mi², approximately, of which about 40 mi² contributes directly to surface runoff.

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

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

GAGE.--Water-stage recorder and Cipolletti weir. 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 ft³/s, 32,670 acre-ft/yr, adjusted for flow which bypasses stream due to pump about 100 ft upstream which diverts water part of the time for power-plant cooling.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s, Sept. 7, 1967, gage height, 12.35 ft; minimum daily, 20 ft³/s, Oct. 13, 1985, and Aug. 21, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft³/s, Sept. 24, gage height, 1.61 ft; minimum daily, 20 ft³/s, Oct. 13 and Aug. 21.

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	36	30	40	41	43	43	38	38	33	34	25	27
2	32	30	39	41	39	43	34	38	35	35	27	28
3	34	34	39	41	36	41	36	36	37	34	32	29
4	30	38	38	45	35	36	36	37	37	32	28	30
5	31	37	36	44	36	39	36	33	36	33	26	30
6	33	36	40	38	38	43	38	29	37	33	29	30
7	33	39	45	39	39	42	37	36	37	33	29	30
8	34	34	41	39	37	42	33	38	36	31	25	32
9	36	36	37	37	39	42	37	37	34	31	25	34
10	32	38	36	38	40	44	38	35	34	30	27	34
11	36	35	36	42	40	41	38	36	34	29	28	35
12	36	36	41	41	40	37	38	35	34	28	27	34
13	27	39	43	38	41	39	40	38	33	30	27	33
14	33	34	40	38	39	45	40	37	32	33	27	32
15	38	39	40	38	41	44	40	35	34	33	26	32
16	39	43	41	39	40	44	38	36	35	34	27	32
17	35	43	40	36	40	40	34	39	35	36	27	32
18	33	43	44	37	37	38	39	40	32	37	27	32
19	34	39	42	39	35	43	40	39	38	37	27	33
20	36	37	38	44	41	42	41	39	41	37	25	32
21	36	37	38	42	37	45	36	39	39	37	20	33
22	33	38	43	39	39	42	39	39	38	37	36	34
23	38	40	44	43	40	36	41	38	35	37	27	42
24	40	43	41	43	37	41	37	38	32	35	29	68
25	35	39	39	43	41	35	38	39	34	34	30	48
26	34	39	44	43	41	35	44	37	35	34	31	44
27	34	38	43	39	41	41	44	34	34	33	31	48
28	35	37	39	37	38	41	38	32	33	31	31	51
29	35	38	40	39	---	40	42	33	36	30	31	51
30	30	45	43	42	---	37	41	34	36	28	32	51
31	30	---	41	39	---	40	---	33	---	26	30	---
TOTAL	1058	1134	1251	1244	1090	1261	1151	1127	1056	1022	869	1101
MEAN	34.1	37.8	40.4	40.1	38.9	40.7	38.4	36.4	35.2	33.0	28.0	36.7
MAX	40	45	45	45	43	45	44	40	41	37	36	68
MIN	27	30	36	36	35	35	33	29	32	26	20	27
AC-FT	2100	2250	2480	2470	2160	2500	2280	2240	2090	2030	1720	2180

CAL YR 1985 TOTAL 13813 MEAN 37.8 MAX 78 MIN 27 AC-FT 27400
WTR YR 1986 TOTAL 13364 MEAN 36.6 MAX 68 MIN 20 AC-FT 26510

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 mi².

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.--29 years (1951-60, 1965-83, 1986), 12.0 ft³/s, 8,690 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 16	0245	*234	*6.40	No other peak greater than base discharge.			
Minimum daily, 1.1 ft ³ /s, July 27, 28, Aug. 2-4, 16, 18-20.							

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	1.9	2.9	14	9.2	11	14	7.6	2.4	2.4	1.6	1.2	1.4
2	1.8	3.0	11	10	11	14	7.6	2.4	2.4	1.6	1.2	1.3
3	1.7	3.2	19	10	9.2	15	8.1	2.4	2.4	1.6	1.1	1.3
4	1.7	3.2	13	10	7.8	15	7.2	2.0	2.3	1.6	1.1	1.2
5	1.7	3.2	9.8	10	8.1	14	6.2	1.9	2.2	1.6	1.1	1.2
6	1.8	3.2	8.5	10	8.8	13	5.9	2.1	2.2	1.7	1.2	1.2
7	1.8	3.3	8.3	8.9	8.3	11	6.8	2.2	2.2	1.7	1.2	1.2
8	2.1	3.4	8.2	8.3	8.2	10	6.5	2.2	2.2	1.6	1.2	1.3
9	2.8	3.6	7.5	7.6	7.9	13	5.5	2.1	2.2	1.6	1.2	1.2
10	2.6	5.2	6.5	7.9	7.6	13	5.6	2.2	2.2	1.6	1.2	1.3
11	2.4	6.8	5.7	8.5	7.8	13	6.3	2.4	2.2	1.6	1.3	1.3
12	2.4	7.4	5.4	8.8	7.9	13	6.8	2.5	2.1	1.6	1.2	1.3
13	2.5	7.1	5.3	8.8	9.2	11	6.6	2.5	2.1	1.7	1.2	1.3
14	2.7	6.4	5.3	7.6	10	12	4.6	2.4	2.0	1.8	1.3	1.3
15	2.9	6.0	5.4	7.4	13	11	3.9	2.5	2.1	2.0	1.2	1.2
16	3.0	5.9	5.3	8.1	39	11	4.1	2.4	2.0	1.9	1.1	1.3
17	2.9	5.9	5.4	9.5	e15	9.2	6.0	2.3	2.0	1.5	1.2	1.3
18	2.7	6.1	5.4	9.5	e11	9.2	5.3	2.3	1.9	1.3	1.1	1.4
19	2.7	5.6	5.5	9.3	e10	7.2	4.8	2.3	1.9	1.3	1.1	1.4
20	3.7	5.2	5.5	9.6	e10	7.9	4.2	2.4	1.9	1.4	1.1	1.4
21	3.2	5.2	5.5	8.8	e10	7.0	3.6	2.4	1.9	e1.3	1.2	1.5
22	3.1	5.3	5.5	8.3	e10	6.6	3.9	2.3	1.9	e1.3	1.5	1.5
23	3.7	5.7	5.5	8.5	e11	6.3	3.6	2.5	1.9	e1.3	1.4	2.7
24	4.5	6.5	5.6	8.4	e11	6.0	3.5	2.4	2.0	e1.2	1.2	2.8
25	3.8	7.5	5.7	8.1	e11	6.9	3.2	2.4	2.0	e1.2	1.2	1.9
26	2.7	8.2	5.8	8.2	e12	7.5	3.1	2.4	2.0	e1.2	1.3	1.9
27	3.5	6.4	5.9	8.0	e12	7.0	3.0	2.5	1.8	e1.1	1.4	1.8
28	2.9	4.9	6.0	8.2	e13	6.4	2.9	2.4	1.8	1.1	1.4	1.8
29	2.8	7.8	6.1	8.5	---	6.0	2.8	2.4	1.7	1.2	1.3	1.8
30	2.5	13	6.5	9.8	---	5.9	2.6	2.4	1.7	1.2	1.3	1.8
31	2.8	---	7.3	12	---	6.7	---	2.4	---	1.2	1.3	---
TOTAL	83.3	167.1	225.4	275.8	310.8	308.8	151.8	72.4	61.6	45.6	38.0	45.3
MEAN	2.69	5.57	7.27	8.90	11.1	9.96	5.06	2.34	2.05	1.47	1.23	1.51
MAX	4.5	13	19	12	39	15	8.1	2.5	2.4	2.0	1.5	2.8
MIN	1.7	2.9	5.3	7.4	7.6	5.9	2.6	1.9	1.7	1.1	1.1	1.2
AC-FT	165	331	447	547	616	613	301	144	122	90	75	90

CAL YR 1985 TOTAL 2116.6 MEAN 5.80 MAX 32 MIN 1.2 AC-FT 4200
WTR YR 1986 TOTAL 1785.9 MEAN 4.89 MAX 39 MIN 1.1 AC-FT 3540

e Estimated.

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 mi², approximately, of which about 3,000 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--January 1904 to December 1906 (gage heights only) and April to October 1910 (published as "near Moapa"), July 1913 to February 1914 (published as "near Logan"), February 1950 to September 1983, and October 1984 to September 1985.

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 periods of estimated discharge, which are poor. Diversions for irrigation above station.

AVERAGE DISCHARGE.--35 years (water years 1951-83, 1986), 45 ft³/s, 32,600 acre-ft/yr.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sept. 23	2045	576	9.34	No other peak greater than base discharge.			
Minimum daily, 22 ft ³ /s, July 29.							

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	83	29	e43	e41	e45	43	e36	36	28	32	26	26
2	32	30	e43	e43	e44	43	e33	37	32	27	26	29
3	30	32	e40	e45	e43	42	e34	36	34	33	33	28
4	31	37	e39	e47	e38	38	e35	40	34	29	32	27
5	28	40	e36	e44	e39	35	e33	37	32	30	26	27
6	31	38	e43	e43	e39	37	e32	31	29	32	28	30
7	32	e39	e47	e40	e40	38	e31	33	31	33	31	30
8	31	e33	e44	e39	e43	41	e33	36	34	28	31	29
9	36	e38	e43	e40	e35	38	36	35	31	29	27	29
10	35	e40	e41	e43	e38	39	41	32	33	29	30	31
11	32	e36	e38	e45	e40	50	42	37	31	e28	31	32
12	38	e38	e45	e43	e42	41	38	37	29	e30	29	32
13	28	e36	e48	e41	e40	39	39	39	30	e33	26	33
14	29	e40	45	e39	e43	45	42	38	26	e31	28	33
15	33	e43	42	e40	e39	42	41	35	27	30	28	33
16	36	e45	44	e39	e43	43	39	33	29	32	23	28
17	34	e43	44	e37	e38	44	37	36	27	30	24	29
18	31	e42	44	e37	e42	38	38	41	27	27	23	29
19	36	e39	49	e41	e38	44	39	37	28	31	26	24
20	34	e38	45	e46	42	44	42	35	30	32	23	23
21	39	e38	42	e44	41	42	39	33	37	28	28	33
22	32	e39	44	e42	39	49	34	33	37	28	31	37
23	35	e43	50	e47	42	46	38	31	32	30	33	139
24	39	e44	49	e49	39	45	38	33	e29	33	29	104
25	38	e42	42	e47	41	41	33	35	e32	26	31	52
26	34	e40	44	e43	42	46	38	36	29	29	32	40
27	34	e39	48	e42	41	e41	39	33	e31	29	34	40
28	34	e38	43	e40	39	e41	40	30	29	30	29	44
29	36	e43	e44	e43	---	e40	38	30	31	22	31	45
30	31	e46	e45	e45	---	e38	40	31	30	27	32	41
31	30	---	e43	e42	---	e39	---	28	---	26	27	---
TOTAL	1082	1168	1357	1317	1135	1292	1118	1074	919	914	888	1157
MEAN	34.9	38.9	43.8	42.5	40.5	41.7	37.3	34.6	30.6	29.5	28.6	38.6
MAX	83	46	50	49	45	50	42	41	37	33	34	139
MIN	28	29	36	37	35	35	31	28	26	22	23	23
AC-FT	2150	2320	2690	2610	2250	2560	2220	2130	1820	1810	1760	2290

CAL YR 1985 TOTAL 13212 MEAN 36.2 MAX 87 MIN 20 AC-FT 26210
WTR YR 1986 TOTAL 13421 MEAN 36.8 MAX 139 MIN 22 AC-FT 26620

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 mi², approximately, of which about 4,300 mi² 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 fair except for period of estimated record, Sept. 1-24, which is poor.

AVERAGE DISCHARGE.--7 years, 9.21 ft³/s, 6,670 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 234 ft³/s, Sept. 24, gage height, 10.31 ft, from floodmarks; minimum daily, 0.37 ft³/s, June 5, 6.

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	15	3.9	6.3	7.4	2.8	3.4	2.4	2.3	.43	2.5	3.8	e.63
2	5.3	3.8	7.1	5.8	2.8	3.0	2.2	2.3	.41	2.5	3.8	e.61
3	4.2	4.7	6.8	4.3	2.8	3.0	2.4	2.3	.39	2.5	3.8	e.62
4	4.4	5.2	5.2	4.6	2.6	3.2	2.4	2.6	.39	2.4	3.7	e.64
5	4.2	5.2	5.0	4.5	2.7	3.3	2.4	2.3	.37	2.6	2.7	e.62
6	3.5	5.0	4.7	3.9	2.9	3.0	2.2	2.2	.37	2.7	.70	e.62
7	2.7	4.3	4.4	3.4	3.4	2.9	2.2	2.3	.40	2.8	.74	e.62
8	2.6	4.1	4.2	3.6	3.3	3.1	2.1	2.4	.43	3.0	.85	e.62
9	3.5	4.1	3.9	3.4	2.8	3.1	2.1	6.0	.48	2.9	.90	e.64
10	4.3	4.0	4.0	3.3	2.8	3.2	2.1	8.1	.46	3.2	.85	e.64
11	3.8	4.5	4.2	3.4	3.0	3.4	2.2	6.4	.45	3.2	.89	e.62
12	5.5	6.7	4.0	3.0	3.5	4.2	2.3	3.5	2.2	3.1	.80	e.62
13	5.5	6.4	3.6	7.4	4.3	4.5	2.1	.77	5.8	3.1	.73	e.65
14	4.7	4.6	3.0	6.2	4.2	4.6	2.3	.68	5.0	3.0	.61	e.67
15	4.5	6.0	2.5	3.8	3.6	5.0	2.6	.68	5.1	3.0	.54	e.69
16	3.8	5.1	2.4	3.5	3.5	6.0	2.4	.65	5.2	3.1	.54	e.70
17	3.6	6.3	2.9	3.4	4.1	11	2.2	.68	6.1	3.3	.59	e.68
18	3.5	6.0	2.8	3.8	4.2	11	2.1	.72	5.2	3.5	.74	e.63
19	4.5	5.1	2.9	3.8	4.1	8.0	2.4	.86	6.0	3.3	.71	e.62
20	5.2	5.3	3.2	3.7	3.9	10	2.3	.78	3.9	3.3	.77	e.60
21	5.2	5.2	3.1	3.5	3.6	11	2.7	.65	2.5	3.4	.80	e.80
22	5.1	5.0	2.9	3.1	2.9	7.8	2.5	.73	2.2	3.8	.87	e1.0
23	3.8	5.1	4.6	3.1	2.9	8.1	2.5	.63	2.1	3.6	.91	e22
24	3.7	4.8	4.7	3.1	2.8	6.9	2.5	.57	1.9	3.6	.67	e56
25	3.7	4.1	5.6	3.1	2.5	7.0	2.4	.62	2.4	3.9	.63	29
26	4.2	4.1	7.0	2.8	7.1	5.2	2.4	.64	2.4	3.9	.66	7.4
27	4.0	4.6	9.3	2.8	9.9	3.0	2.4	.56	2.3	4.1	.64	3.1
28	4.0	4.4	9.5	3.1	7.1	2.6	2.4	.54	2.2	4.2	.64	2.0
29	4.2	4.7	8.2	2.9	---	2.4	2.4	.45	2.3	4.3	.98	2.2
30	5.6	4.1	8.9	3.2	---	2.8	2.4	.39	2.5	4.1	.72	1.4
31	4.4	---	6.8	3.2	---	2.5	---	.43	---	3.9	.66	---
TOTAL	142.2	146.4	153.7	120.1	106.1	158.2	70.0	54.73	71.88	101.8	36.94	137.64
MEAN	4.59	4.88	4.96	3.87	3.79	5.10	2.33	1.77	2.40	3.28	1.19	4.59
MAX	15	6.7	9.5	7.4	9.9	11	2.7	8.1	6.1	4.3	3.8	56
MIN	2.6	3.8	2.4	2.8	2.5	2.4	2.1	.39	.37	2.4	.54	.60
AC-FT	282	290	305	238	210	314	139	109	143	202	73	273

CAL YR 1985 TOTAL 2053.88 MEAN 5.63 MAX 64 MIN .90 AC-FT 4070
WTR YR 1986 TOTAL 1299.67 MEAN 3.56 MAX 56 MIN .37 AC-FT 2580

e Estimated.

VIRGIN RIVER BASIN

55

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 1985 TO SEPTEMBER 1986

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 CaCO ₃)
NOV 13...	1215	7.2	2920	8.20	13.5	10.5	17	11.8	111	400	4500	930
JAN 14...	1230	3.2	3820	7.90	17.0	12.0	440	10.0	98	K200	2300	1200
MAR 18...	1300	12	2790	8.40	20.5	16.5	75	10.5	113	K180	2700	830
MAY 13...	1015	1.1	4550	7.90	32.0	21.5	8.2	8.2	99	320	8400	--
JUL 15...	1200	2.9	3550	8.00	35.0	25.0	42	8.6	110	3100	1700	1000
SEP 24...	1030	51	3190	7.60	19.5	18.5	610	7.1	81	K100	>10000	1100

K: NON-IDEAL COLONY COUNT.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 AS CACO3)	ALKA- LINITY CARBON- ATE FET-FLD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 13...	190	110	340	5	25	409	335	328	910	230	3.0	36
JAN 14...	250	150	460	6	28	489	401	393	1400	340	3.6	39
MAR 18...	170	98	300	5	25	--	--	--	910	250	3.2	28
MAY 13...	--	--	610	--	38	497	407	398	1800	470	3.9	45
JUL 15...	200	130	400	6	32	403	330	326	1300	280	3.3	41
SEP 24...	260	110	420	6	38	267	219	218	1200	320	2.2	28

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 13...	2170	2000	3.0	0.160	0.010	0.170	0.110	0.110	0.39	0.50	0.070	0.040
JAN 14...	3100	2900	4.2	0.170	0.010	0.180	0.190	0.190	1.0	1.2	0.650	0.030
MAR 18...	2080	1900	2.8	0.300	0.020	0.320	0.100	0.060	0.50	0.60	0.150	0.060
MAY 13...	3830	--	--	--	<0.010	<0.100	0.190	0.170	0.41	0.60	0.090	0.050
JUL 15...	2690	2600	3.7	--	<0.010	<0.100	0.090	0.090	0.81	0.90	0.080	0.040
SEP 24...	2580	2500	3.5	1.33	0.070	1.40	0.150	0.140	2.9	3.0	--	0.100

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INIUM, 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...	0.040	10	52	<100	<10	<1	<1	<1	<1	60	1	430
JAN 14...	0.030	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	0.050	20	60	100	<10	1	<1	1	<1	40	<1	450
MAY 13...	0.040	--	--	100	--	<1	<1	<1	4	20	4	710
JUL 15...	0.020	--	--	--	--	--	--	--	--	--	--	--
SEP 24...	0.090	30	33	100	<10	<1	<1	2	2	70	<5	450

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 13...	70	<0.1	21	4	1	<1	3600	9	10	267	5.2	--
JAN 14...	--	--	--	--	--	--	--	--	--	1170	10	--
MAR 18...	60	<0.1	20	2	2	<1	3500	11	30	260	8.8	--
MAY 13...	390	--	120	2	1	<1	--	15	10	285	0.85	--
JUL 15...	--	--	--	--	--	--	--	--	--	304	2.4	--
SEP 24...	110	<0.1	38	2	7	<1	3900	<4	20	1490	205	90

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.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.8 ft³/s, Aug. 7-11, Sept. 22, 23; minimum daily, 1.0 ft³/s, Mar. 3.

[illegible]

COLORADO RIVER BASIN

09419550 ROGERS SPRING NEAR OVERTON BEACH, NV--Continued

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	1.7	1.7	1.5	1.3	1.3	1.1	1.4	1.2	1.6	1.5	1.6	1.5
2	1.7	1.7	1.5	1.3	1.4	1.1	1.3	1.2	1.6	1.4	1.6	1.6
3	1.7	1.7	1.5	1.3	1.4	1.0	1.3	1.2	1.5	1.5	1.7	1.6
4	1.7	1.7	1.5	1.3	1.4	1.1	1.3	1.4	1.5	1.5	1.7	1.6
5	1.7	1.6	1.5	1.3	1.4	1.1	1.3	1.3	1.5	1.5	1.7	1.6
6	1.6	1.6	1.5	1.2	1.4	e1.1	1.3	1.3	1.5	1.4	1.7	1.6
7	1.6	1.6	1.5	1.2	1.4	e1.2	1.3	1.3	1.5	1.5	1.8	1.6
8	1.6	1.6	1.5	1.3	1.4	e1.3	1.3	1.3	1.6	1.5	1.8	1.6
9	1.6	1.6	1.5	1.3	1.4	e1.3	1.3	1.3	1.5	1.6	1.8	1.6
10	1.6	1.6	1.5	1.3	1.4	e1.4	1.3	1.4	1.5	1.7	1.8	1.6
11	1.6	1.6	1.5	1.2	1.4	e1.5	1.3	1.5	1.5	1.6	1.8	1.6
12	1.6	1.6	1.4	1.2	1.4	1.5	1.3	1.5	1.5	1.6	1.7	1.6
13	1.6	1.5	1.5	1.2	1.4	1.5	1.3	1.5	1.6	1.5	1.7	1.6
14	1.6	1.5	1.5	1.2	1.4	1.5	1.3	1.5	1.6	1.7	1.7	1.6
15	1.6	1.5	1.5	1.2	1.4	1.5	1.2	1.5	1.5	1.7	1.7	1.6
16	1.6	1.5	1.4	1.2	1.5	1.5	1.2	e1.5	1.5	1.6	1.7	1.6
17	1.6	1.5	1.5	1.3	1.5	e1.6	1.3	e1.5	1.6	1.6	1.7	1.6
18	1.6	1.5	1.4	1.3	1.3	e1.7	1.3	e1.5	1.6	1.6	1.7	1.6
19	1.6	1.5	1.4	1.3	1.2	e1.6	1.2	e1.4	1.6	1.6	1.7	1.6
20	1.6	1.5	1.4	1.4	1.2	e1.6	1.2	1.4	1.6	1.6	1.7	1.6
21	1.6	1.5	1.4	1.4	1.1	e1.5	1.2	1.4	1.6	1.6	1.7	1.7
22	1.6	1.5	1.4	1.4	1.1	e1.5	1.2	1.5	1.7	1.5	1.7	1.8
23	1.6	1.5	1.4	1.3	1.1	e1.5	1.3	1.6	1.6	1.5	1.7	1.8
24	1.6	1.5	1.4	1.2	1.1	e1.4	1.2	e1.6	1.6	1.5	1.6	1.6
25	1.6	1.5	1.4	1.2	1.1	e1.3	1.2	e1.6	1.6	1.5	1.5	1.5
26	1.6	1.5	1.4	1.2	1.1	1.2	1.2	1.6	1.5	1.5	1.6	1.5
27	1.7	1.5	1.4	1.2	1.1	1.3	1.3	1.6	1.6	1.6	1.6	1.5
28	1.7	1.5	1.3	1.2	1.1	1.3	1.3	1.5	1.6	1.6	1.7	1.5
29	1.7	1.5	1.4	1.3	---	1.3	1.3	1.6	1.6	1.5	1.7	1.5
30	1.7	1.5	1.3	1.3	---	1.3	1.2	1.6	1.5	1.6	1.5	1.5
31	1.7	---	1.3	1.3	---	1.4	---	1.6	---	1.6	1.6	---
TOTAL	50.6	46.6	44.6	39.3	36.4	42.2	38.1	44.9	46.8	48.2	52.2	47.8
MEAN	1.63	1.55	1.44	1.27	1.30	1.36	1.27	1.45	1.56	1.55	1.68	1.59
MAX	1.7	1.7	1.5	1.4	1.5	1.7	1.4	1.6	1.7	1.7	1.8	1.8
MIN	1.6	1.5	1.3	1.2	1.1	1.0	1.2	1.2	1.5	1.4	1.5	1.5
AC-FT	100	92	88	78	72	84	76	89	93	96	104	95

WTR YR 1986 TOTAL 537.7 MEAN 1.47 MAX 1.8 MIN 1.0 AC-FT 1070

e Estimated.

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.

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

REMARKS.--Records excellent. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow are generally made once a month.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/s, July 28, 1969, gage height, 3.60 ft, on basis of slope-area measurement of peak flow; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.30 ft³/s, Aug. 27, gage height, 0.90 ft; minimum daily, no flow many days.

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	.09	.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	.01	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.01	.00
MEAN	.00	.00	.00	.00	.0	.00	.00	.00	.00	.00	.0	.00
MAX	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.01	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.00

CAL YR 1985	TOTAL .00	MEAN .00	MAX .00	MIN .00	AC-FT .0
WTR YR 1986	TOTAL .10	MEAN .0	MAX .09	MIN .00	AC-FT .2

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.

DRAINAGE AREA.--Not determined.

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 ft³/s, Dec. 13 to Jan. 24, gage height, 1.01 ft, maximum gage height, 1.18 ft, May 14, backwater from debris on weir; minimum daily, 0.24 ft³/s, July 15-19, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.30 ft³/s, Dec. 13 to Jan. 24, gage height, 1.01 ft, May 14, due to backwater effects; minimum daily, 0.25 ft³/s, Jan. 26-29, Mar. 7 to Apr. 23, Apr. 25 to May 25, May 29 to June 2, June 12-14, July 13-15, July 23 to Aug. 18, Aug. 20-21, 23-31, and Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.25	.25	e.25
2	---	---	---	---	---	---	---	---	---	.27	.27	e.25
3	---	---	---	---	---	---	---	---	---	.27	.27	.25
4	---	---	---	---	---	---	---	---	---	.28	.27	.25
5	---	---	---	---	---	---	---	---	---	.28	.27	.27
6	---	---	---	---	---	---	---	---	---	.27	e.27	.27
7	---	---	---	---	---	---	---	---	---	.27	e.27	.27
8	---	---	---	---	---	---	---	---	---	.27	.28	.27
9	---	---	---	---	---	---	---	---	---	.27	.28	.27
10	---	---	---	---	---	---	---	---	---	.27	.28	.28
11	---	---	---	---	---	---	---	---	---	e.26	.28	.28
12	---	---	---	---	---	---	---	---	---	e.25	e.28	.28
13	---	---	---	---	---	---	---	---	---	e.25	e.28	.28
14	---	---	---	---	---	---	---	---	---	e.24	e.28	.28
15	---	---	---	---	---	---	---	---	---	e.24	e.27	.28
16	---	---	---	---	---	---	---	---	---	e.24	e.27	.28
17	---	---	---	---	---	---	---	---	---	.24	e.27	.28
18	---	---	---	---	---	---	---	---	---	.24	e.27	.28
19	---	---	---	---	---	---	---	---	---	.25	e.27	.28
20	---	---	---	---	---	---	---	---	---	.25	e.26	.28
21	---	---	---	---	---	---	---	---	---	.25	e.26	.28
22	---	---	---	---	---	---	---	---	---	.25	e.26	.27
23	---	---	---	---	---	---	---	---	---	.25	e.26	e.27
24	---	---	---	---	---	---	---	---	---	.25	e.26	e.27
25	---	---	---	---	---	---	---	---	---	.25	e.26	e.27
26	---	---	---	---	---	---	---	---	---	.25	e.25	e.27
27	---	---	---	---	---	---	---	---	---	.27	e.25	e.27
28	---	---	---	---	---	---	---	---	---	.25	e.25	e.27
29	---	---	---	---	---	---	---	---	---	.25	e.25	e.27
30	---	---	---	---	---	---	---	---	---	.25	e.25	e.27
31	---	---	---	---	---	---	---	---	---	.25	e.25	---
TOTAL	---	---	---	---	---	---	---	---	---	7.93	8.24	8.14
MEAN	---	---	---	---	---	---	---	---	---	.26	.27	.27
MAX	---	---	---	---	---	---	---	---	---	.28	.28	.28
MIN	---	---	---	---	---	---	---	---	---	.24	.25	.25
AC-FT	---	---	---	---	---	---	---	---	---	16	16	16

e Estimated

LAS VEGAS VALLEY

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

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	e.27	.26	e.29	.30	e.27	e.26	e.25	e.25	.25	.27	.25	.25
2	e.27	.26	e.29	.30	e.27	e.26	e.25	e.25	.25	.27	.25	.25
3	e.27	.27	e.29	.30	e.27	e.26	e.25	e.25	.26	.27	.25	.26
4	e.27	.27	e.29	.30	e.27	e.26	e.25	e.25	.26	.27	.25	.27
5	e.27	.27	e.29	.30	e.27	e.26	e.25	e.25	.26	.27	.25	.27
6	e.27	e.27	e.29	.30	e.27	e.26	e.25	e.25	.26	.27	.25	.27
7	e.26	e.27	e.29	.30	e.27	e.25	e.25	e.25	.26	e.26	.25	.27
8	e.26	e.27	e.29	.30	e.27	e.25	e.25	e.25	.26	.26	.25	.26
9	e.26	e.27	e.29	.30	e.27	e.25	e.25	e.25	.26	.26	.25	.26
10	e.26	e.27	e.29	.30	e.27	e.25	e.25	e.25	.26	e.26	.25	.26
11	e.26	e.27	e.29	.30	e.27	e.25	e.25	e.25	.26	e.26	.25	.26
12	e.26	e.27	.29	.30	e.27	e.25	e.25	e.25	.25	e.26	.25	.26
13	e.26	e.27	.30	.30	e.27	e.25	e.25	e.25	.26	e.25	.25	.26
14	e.26	e.27	.30	.30	e.27	e.25	e.25	e.25	.25	e.25	.25	.26
15	e.26	e.27	.30	.30	e.26	e.25	e.25	e.25	.26	.25	.25	.26
16	.26	e.28	.30	.30	e.26	e.25	e.25	e.25	.26	.26	.25	.26
17	.26	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.27	.25	.27
18	.26	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.27	.25	.27
19	.26	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.26	.26	.27
20	.27	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.27	.25	.27
21	.26	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.27	.25	.27
22	.27	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.27	.26	.27
23	.26	e.28	.30	.30	e.26	e.25	.25	e.25	.26	.25	.25	.27
24	.26	e.28	.30	.30	e.26	e.25	.26	.25	.26	.25	.25	.26
25	.26	e.28	.30	.29	e.26	.25	.25	.25	e.26	.25	.25	.26
26	.26	e.28	.30	.25	e.26	.25	.25	.26	e.26	.25	.25	.26
27	.26	e.28	.30	.25	e.26	.25	.25	.26	e.26	.25	.25	.26
28	.26	e.28	.30	.25	e.26	.25	.25	.26	.26	.25	.25	.26
29	.26	e.29	.30	.25	---	.25	.25	.25	.27	.25	.25	.26
30	.26	e.29	.30	.27	---	.25	.25	.25	.26	.25	.25	.26
31	.26	---	.30	e.27	---	.25	---	.25	---	.25	.25	---
TOTAL	8.14	8.25	9.18	9.03	7.42	7.81	7.51	7.78	7.77	8.05	7.77	7.89
MEAN	.26	.27	.30	.29	.26	.25	.25	.25	.26	.26	.25	.26
MAX	.27	.29	.30	.30	.27	.26	.26	.26	.27	.27	.26	.27
MIN	.26	.26	.29	.25	.26	.25	.25	.25	.25	.25	.25	.25
AC-FT	16	16	18	18	15	15	15	15	15	16	15	16

WTR YR 1986 TOTAL 96.60 MEAN .26 MAX .30 MIN .25 AC-FT 192

e Estimated.

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 ft³/s, July 2, 1980, gage height, 5.15 ft, datum then in use; minimum daily, 45 ft³/s, Aug. 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft³/s, July 20, gage height, 4.69 ft; minimum daily, 88 ft³/s, Mar. 4, June 6, 7, but may have been lower during days of estimated discharge.

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	123	105	113	116	106	113	113	98	95	100	112	115
2	116	108	112	119	106	118	108	96	95	101	112	117
3	116	107	112	118	106	113	110	94	94	106	108	110
4	110	108	111	116	108	88	110	93	90	100	107	112
5	109	106	110	114	109	122	109	98	91	97	109	108
6	112	105	111	112	111	117	107	99	88	102	109	92
7	113	105	111	108	111	114	114	101	88	103	111	113
8	113	106	111	106	111	115	113	106	90	102	112	112
9	114	105	112	106	111	112	112	96	90	100	115	108
10	94	105	111	106	111	112	104	98	96	103	119	107
11	121	117	103	108	113	131	108	93	99	109	118	105
12	123	109	112	108	112	114	109	94	95	108	115	102
13	117	108	111	108	113	112	110	93	96	108	118	107
14	115	102	109	108	112	110	108	93	98	110	110	104
15	113	109	108	110	136	113	105	93	108	111	106	110
16	111	111	105	93	123	114	100	97	108	114	105	111
17	108	110	105	117	117	116	99	96	111	97	109	111
18	109	109	105	113	116	114	98	107	109	101	116	113
19	107	107	105	111	115	112	100	105	102	99	113	114
20	106	106	104	112	115	108	113	107	105	103	116	116
21	105	106	104	111	115	110	111	107	98	110	120	114
22	105	107	104	110	115	112	108	104	95	105	115	e112
23	109	107	105	110	116	107	109	109	95	100	121	e112
24	107	110	106	109	116	103	109	111	106	103	121	e110
25	104	113	106	108	116	111	104	114	107	110	126	e108
26	103	114	105	109	117	115	103	103	104	112	127	e106
27	104	112	107	109	117	119	104	105	104	112	127	e108
28	106	112	106	109	117	117	106	111	103	108	120	e110
29	106	116	107	109	---	113	104	105	102	106	115	e112
30	106	120	111	114	---	113	106	94	105	104	110	e118
31	104	---	116	112	---	112	---	95	---	104	108	---
TOTAL	3409	3265	3358	3419	3191	3500	3214	3115	2967	3248	3550	3297
MEAN	110	109	108	110	114	113	107	100	98.9	105	115	110
MAX	123	120	116	119	136	131	114	114	111	114	127	118
MIN	94	102	103	93	106	88	98	93	88	97	105	92
AC-FT	6760	6480	6660	6780	6330	6940	6370	6180	5890	6440	7040	6540

CAL YR 1985 TOTAL 39394 MEAN 108 MAX 161 MIN 82 AC-FT 78140
WTR YR 1986 TOTAL 39533 MEAN 108 MAX 136 MIN 88 AC-FT 78410

e Estimated.

LAS VEGAS VALLEY

63

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

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCES: May to July and September 1979, weekly; October 1979 to current year, hourly.

WATER TEMPERATURES: May 1979 to July 1980, monthly; August 1980 to current year, hourly.

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

REMARKS.--Daily specific-conductance data prior to October 1979 are questionable, and therefore not published. Periods of no record for specific conductance and water temperature due to recorder malfunctions. Records are poor due to variable accumulation of sediment near the recorder probes.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 3,460 microsiemens Feb. 11, 1980; minimum, 940 microsiemens Mar. 6, 1981.

WATER TEMPERATURES: Maximum, 30.5°C July 14, 1981; minimum, 9.5°C Feb. 11, 1982.

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

SPECIFIC CONDUCTANCES: Maximum, 2,480 microsiemens Nov. 29, 30; minimum, 1,280 microsiemens Aug. 17.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 12-15; minimum, 14.0°C Feb. 10, 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	18.5	17.0	18.0	---	---	---	22.0	20.5	21.5	22.5	21.0	22.0
2	18.5	17.0	18.0	---	---	---	20.5	18.0	19.0	23.0	21.0	22.0
3	18.0	17.0	17.5	---	---	---	20.0	17.0	19.0	23.0	21.0	22.0
4	18.0	17.0	17.5	21.0	17.0	19.0	21.0	19.0	20.0	22.0	20.0	21.0
5	17.0	16.0	16.5	20.5	19.0	19.5	21.0	19.5	20.5	22.5	20.0	21.5
6	16.5	15.5	16.0	20.5	18.5	19.5	21.0	19.5	20.5	21.0	19.0	20.0
7	16.0	14.5	15.5	20.0	18.5	19.5	21.5	18.0	20.0	20.5	18.0	19.5
8	16.0	15.0	15.5	19.5	18.0	18.5	22.5	20.0	21.0	21.5	19.5	20.5
9	15.5	14.5	15.0	18.5	17.0	18.0	22.0	19.5	21.0	22.0	20.0	21.0
10	15.5	14.0	15.0	18.5	15.5	17.5	21.5	20.0	21.0	22.0	20.5	21.5
11	15.5	14.0	15.0	19.0	14.5	17.0	22.0	20.0	21.0	22.5	20.0	21.5
12	16.5	15.0	15.5	18.5	17.5	18.0	21.0	19.5	20.5	23.0	20.5	22.0
13	17.5	16.0	17.0	18.0	17.0	17.5	19.5	18.0	19.0	23.5	21.0	22.5
14	17.5	17.0	17.5	19.0	16.5	18.0	20.5	18.5	19.5	24.0	21.5	23.0
15	17.5	15.5	16.5	18.5	17.5	18.0	22.0	19.0	20.5	24.0	22.0	23.0
16	17.0	15.5	16.5	18.0	17.0	17.5	20.5	19.0	19.5	23.5	22.0	22.5
17	18.0	16.5	17.5	18.5	17.0	18.0	20.5	18.5	19.5	22.5	20.0	21.5
18	18.5	17.0	18.0	18.0	16.5	17.5	20.5	19.0	20.0	24.0	21.0	22.5
19	19.0	18.0	18.5	19.0	17.0	18.0	21.5	19.0	20.5	24.5	22.0	23.0
20	18.0	17.0	17.5	20.0	18.0	19.0	22.0	20.0	21.5	24.0	22.5	23.5
21	18.5	17.0	17.5	20.5	18.5	19.5	23.5	21.0	22.0	23.0	21.5	22.0
22	18.0	16.5	17.5	21.0	19.0	20.0	22.5	21.5	22.0	22.5	20.5	21.5
23	18.5	16.5	17.5	20.5	19.0	20.0	22.0	20.5	21.5	24.0	21.5	23.0
24	19.5	17.5	18.5	20.5	19.5	20.0	21.5	20.0	21.0	24.5	22.0	23.5
25	20.0	18.0	19.0	21.0	19.0	20.0	21.5	19.5	20.5	25.0	22.5	24.0
26	20.5	18.0	19.0	21.5	19.5	20.5	21.5	19.5	20.5	25.0	23.5	24.0
27	---	---	---	22.0	20.0	21.0	22.0	19.5	20.5	25.0	23.0	24.5
28	---	---	---	22.0	20.5	21.5	22.5	20.0	21.5	25.5	23.5	24.5
29	---	---	---	22.5	21.0	21.5	23.0	20.5	22.0	---	---	---
30	---	---	---	22.5	21.0	21.5	23.0	21.0	22.0	---	---	---
31	---	---	---	22.0	20.5	21.5	---	---	---	---	---	---
MONTH	20.5	14.0	17.0	22.5	14.5	19.0	23.5	17.0	20.5	25.5	18.0	22.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	---	---	---	27.5	25.0	26.5	27.0	25.0	25.5	28.0	26.0	27.0
2	---	---	---	28.0	25.5	27.0	27.5	25.5	26.0	28.0	25.5	27.0
3	---	---	---	28.0	26.0	27.0	27.5	25.5	26.5	27.5	25.5	27.0
4	---	---	---	26.5	25.5	26.0	27.5	26.0	26.5	28.0	25.5	27.0
5	25.5	24.0	25.0	26.5	24.5	25.5	28.0	26.0	27.0	28.0	25.5	27.0
6	25.5	23.5	24.5	26.5	25.0	25.5	28.0	26.0	27.0	28.0	25.5	27.0
7	25.5	23.5	24.5	27.0	25.0	26.0	28.5	26.5	27.5	27.5	26.0	26.5
8	25.0	23.0	24.0	26.5	24.5	25.5	---	---	---	26.5	25.0	26.0
9	25.5	23.5	24.5	26.0	24.0	25.0	---	---	---	25.5	24.0	24.5
10	26.0	23.5	25.0	26.5	24.0	25.5	---	---	---	25.5	23.0	24.0
11	26.5	24.0	25.5	27.0	24.5	26.0	---	---	---	26.0	23.5	25.0
12	26.5	24.5	25.5	27.0	25.0	26.0	29.0	27.0	28.0	26.0	24.0	25.0
13	26.5	24.0	25.0	27.5	25.0	26.5	29.0	27.0	28.0	25.5	24.0	24.5
14	26.0	24.0	25.0	27.0	26.0	26.5	29.0	27.0	28.0	25.5	23.0	24.5
15	26.0	24.0	25.0	27.0	26.0	26.5	29.0	27.0	28.0	24.5	23.0	23.5
16	26.5	24.5	25.5	26.5	25.5	26.0	---	---	---	24.5	22.0	23.5
17	26.5	24.0	25.5	26.5	24.0	25.5	---	---	---	25.0	23.0	24.0
18	26.0	24.5	25.0	26.5	24.5	25.5	---	---	---	24.5	23.0	24.0
19	26.0	23.5	25.0	27.5	24.5	26.0	---	---	---	24.0	22.5	23.5
20	26.0	24.0	25.0	26.5	24.5	25.5	---	---	---	24.0	22.0	23.0
21	26.0	23.5	25.0	26.0	24.5	25.5	---	---	---	24.5	22.0	23.5
22	26.5	24.0	25.5	27.0	25.0	26.0	---	---	---	24.0	22.5	23.0
23	25.5	24.5	25.0	27.5	25.5	26.5	28.5	27.0	27.5	24.5	22.5	23.5
24	27.0	24.5	25.5	28.0	25.5	26.5	27.0	26.0	26.5	23.5	22.0	22.5
25	27.5	25.0	26.0	27.0	25.5	26.0	28.5	26.0	27.5	23.0	21.0	22.0
26	27.5	25.5	26.5	26.5	24.5	25.5	28.0	27.0	27.5	23.5	21.0	22.5
27	27.0	25.5	26.5	27.0	24.5	25.5	28.0	26.5	27.0	23.0	22.0	22.5
28	26.5	25.0	26.0	27.0	24.5	25.5	28.5	26.5	27.5	23.5	22.0	23.0
29	26.0	25.0	25.5	27.0	24.5	25.5	28.5	26.5	27.5	24.0	22.0	23.0
30	27.0	24.5	26.0	27.0	24.0	25.5	28.0	26.0	27.0	24.5	22.0	23.0
31	---	---	---	27.0	24.5	25.5	28.0	26.0	27.0	---	---	---
MONTH	27.5	23.0	25.5	28.0	24.0	26.0	29.0	25.0	27.0	28.0	21.0	24.5
YEAR	29.0	14.0	21.0									

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1860	1770	1810	2020	1910	1950	2090	1990	2030	2090	2040	2070
2	1860	1790	1840	1980	1880	1940	2220	2040	2120	2080	1950	2030
3	1890	1790	1850	1950	1870	1910	2220	2000	2100	2110	2000	2050
4	1890	1820	1860	2040	1840	1940	2110	2010	2060	2120	2000	2050
5	1900	1790	1850	2050	1920	1980	2110	2020	2070	2080	2010	2050
6	1870	1790	1820	2060	1940	2000	2090	1980	2050	2110	1930	2040
7	1950	1810	1870	2060	1960	2000	2090	1990	2030	2160	1940	2060
8	1940	1860	1900	2010	1890	1950	2040	1970	2000	2180	1930	2070
9	1960	1900	1940	1940	1900	1930	2020	1930	1990	2180	1940	2070
10	2130	1910	2000	1950	1880	1910	2070	1950	2030	2150	1940	2040
11	1990	1890	1930	2190	1880	1980	2040	1970	2010	2110	1960	2040
12	1960	1880	1920	2170	1880	1960	2030	1930	1990	2060	1930	2000
13	1910	1850	1880	2030	1880	1950	2020	1950	2000	2050	1950	2010
14	1950	1830	1900	1980	1930	1950	2020	1940	1990	2120	1980	2040
15	1980	1870	1920	1980	1920	1950	1960	1920	1940	2160	2020	2080
16	1970	1870	1920	1970	1910	1940	2080	1890	1960	2110	1990	2030
17	1940	1870	1910	1960	1900	1930	2080	1910	2000	2100	1970	2020
18	2010	1880	1920	1940	1880	1920	2060	1900	1990	2100	1990	2040
19	1940	1830	1870	1960	1890	1940	2070	1910	2010	2110	1980	2030
20	1930	1810	1870	2010	1930	1970	2110	1910	2030	2120	1990	2050
21	1940	1810	1880	2000	1920	1970	2080	1930	2020	2140	1950	2070
22	1980	1830	1890	2000	1890	1960	2070	1930	2000	2190	1940	2060
23	1940	1850	1900	1980	1890	1950	2080	1870	1990	2130	1920	2030
24	1940	1850	1900	2000	1900	1940	2090	1950	2020	2140	1910	2020
25	1980	1880	1930	1980	1900	1950	2040	1890	1970	2140	1920	2020
26	1960	1780	1890	2090	1950	2000	2060	1890	1980	2070	1920	1980
27	1940	1830	1880	2080	1940	1980	2160	1990	2080	2070	1850	1970
28	1950	1830	1900	2090	1990	2020	2160	2040	2110	2120	1910	2010
29	2000	1860	1920	2480	1990	2080	2070	2000	2040	2100	1940	2030
30	1970	1850	1900	2480	1960	2070	2080	1920	2000	2360	1920	2060
31	1960	1880	1910	---	---	---	2070	1980	2020	2000	1890	1940
MONTH	2130	1770	1890	2480	1840	1960	2220	1870	2020	2360	1850	2030
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2060	1920	1990	---	---	---	2140	1870	2010	1980	1800	1900
2	1990	1890	1950	---	---	---	2070	1830	1970	2110	1840	1930
3	2010	1860	1960	2090	1900	2000	1970	1690	1850	2050	1700	1840
4	2050	1870	1980	---	---	---	1860	1630	1740	1840	1650	1740
5	2130	1910	2020	2130	2020	2070	1830	1600	1710	1830	1620	1740
6	2080	1890	2010	2150	1900	2010	1750	1600	1670	1900	1630	1790
7	2130	1900	2030	2020	1840	1920	2020	1660	1760	1950	1630	1800
8	2140	2030	2080	1950	1810	1870	1810	1670	1720	1870	1660	1760
9	2100	2010	2050	2010	1850	1920	1870	1680	1790	1960	1590	1800
10	2120	1890	2050	2360	1880	1970	1950	1790	1880	2010	1730	1830
11	2230	1930	2080	2350	1870	2010	1940	1850	1900	1840	1640	1740
12	2070	1900	2020	1950	1900	1920	1990	1810	1880	1810	1560	1690
13	2110	1920	2030	2070	1840	1980	1980	1850	1910	1820	1570	1710
14	2100	1930	2020	2290	1930	2040	2030	1830	1920	1850	1620	1760
15	2290	1830	2040	1940	1830	1900	2050	1910	1980	1960	1660	1810
16	1910	1860	1890	1950	1850	1900	2060	1730	1900	2070	1800	1930
17	1970	1880	1920	1990	1890	1950	2020	1700	1860	2110	1850	1970
18	2030	1880	1960	1990	1890	1950	1950	1670	1790	1970	1690	1840
19	2070	1900	1980	2010	1920	1970	1940	1620	1770	1920	1620	1770
20	2100	1940	2020	2080	1920	2000	1740	1550	1630	1880	1630	1760
21	2220	1970	2090	2060	1830	1940	1680	1480	1570	1900	1660	1760
22	2180	1980	2070	1960	1750	1890	1650	1450	1570	1870	1630	1740
23	2100	1940	2040	1870	1690	1780	1670	1490	1610	1860	1600	1710
24	2120	1910	2030	1880	1630	1750	1760	1550	1660	1730	1550	1640
25	2170	1970	2080	1800	1590	1660	1870	1650	1740	1730	1510	1590
26	2140	1970	2070	1760	1570	1650	1870	1660	1740	1650	1450	1540
27	---	---	---	1730	1550	1680	1820	1650	1740	1680	1470	1560
28	---	---	---	1870	1650	1730	1870	1650	1770	1690	1490	1590
29	---	---	---	1920	1740	1820	1930	1760	1850	1700	1480	1600
30	---	---	---	1900	1780	1820	1960	1770	1850	1770	1490	1620
31	---	---	---	1980	1690	1840	---	---	---	1640	1470	1570
MONTH	2290	1830	2020	2360	1550	1890	2140	1450	1790	2110	1450	1740

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1957 to September 1983 and October 1984 to September 1985.

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.--28 years (1958-83, 1985-86), 51.7 ft³/s, 37,460 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft³/s, Mar. 11, gage height, 11.40 ft; minimum daily, 95 ft³/s, Mar. 4.

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	124	120	132	e130	126	e124	122	120	e108	109	120	122
2	120	122	128	132	125	e123	117	116	e106	111	120	126
3	122	125	129	132	125	e120	117	107	e108	113	119	119
4	117	125	128	130	126	e95	120	110	e103	111	116	121
5	114	126	127	129	124	126	119	113	e105	106	117	121
6	117	123	e128	127	126	123	118	112	e103	113	118	105
7	119	122	e128	122	125	122	137	111	e100	115	122	123
8	119	123	e128	121	124	122	123	114	e105	112	119	123
9	122	121	e129	120	124	121	118	105	113	109	118	121
10	111	123	e128	122	125	120	114	105	108	108	121	118
11	128	129	124	123	127	149	116	107	111	111	122	119
12	129	129	125	125	127	127	120	107	112	115	121	115
13	127	126	125	125	125	124	121	105	116	116	122	115
14	125	121	121	125	e125	124	119	106	120	118	118	116
15	125	125	121	126	e155	124	123	108	125	123	116	124
16	123	127	120	110	e129	126	122	109	123	122	115	123
17	120	128	121	130	e123	129	119	106	120	112	116	123
18	120	126	e123	129	e122	127	118	114	122	115	123	122
19	118	124	e123	129	e122	124	118	110	115	111	121	125
20	118	123	e122	128	e122	119	123	109	114	116	123	126
21	118	123	e122	130	e122	119	124	109	110	127	127	126
22	119	125	e122	128	e122	125	124	109	106	116	123	124
23	123	125	e123	129	e122	122	124	111	105	112	126	124
24	123	127	e124	127	e122	114	124	117	112	120	127	121
25	118	129	e124	126	e122	121	120	119	112	120	128	120
26	115	130	e123	127	e123	124	122	116	114	122	128	117
27	117	129	e125	127	e123	129	125	114	118	125	128	118
28	121	126	e125	127	e123	128	125	e111	113	124	124	120
29	122	126	e126	126	---	124	124	e109	116	115	122	124
30	120	142	e126	132	---	123	122	e113	118	114	120	129
31	119	---	e130	143	---	121	---	e112	---	114	119	---
TOTAL	3733	3770	3880	3937	3506	3819	3638	3434	3361	3575	3759	3630
MEAN	120	126	125	127	125	123	121	111	112	115	121	121
MAX	129	142	132	143	155	149	137	120	125	127	128	129
MIN	111	120	120	110	122	95	114	105	100	106	115	105
AC-FT	7400	7480	7700	7810	6950	7570	7220	6810	6670	7090	7460	7200
CAL YR 1985	TOTAL 42014											
WTR YR 1986	TOTAL 44042											
	MEAN 115		MAX 187		MIN 86		AC-FT 83330					
	MEAN 121		MAX 155		MIN 95		AC-FT 87360					

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, 28.0°C July 30, Sept. 3, 1958 and several days in August 1986; 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, 3,050 microsiemens Feb. 16; minimum, 1,470 microsiemens July 23.

WATER TEMPERATURES: Maximum, 28.0°C on several days in August; minimum, 11.5°C Feb. 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1				---	---	---	2470	2380	2440	2650	2420	2510
2				---	---	---	2550	2220	2470	2630	2420	2490
3				---	---	---	2640	2400	2500	2710	2440	2540
4				---	---	---	2510	2410	2450	2720	2440	2550
5				---	---	---	2510	2280	2420	2690	2440	2540
6				---	---	---	2520	2310	2440	---	---	---
7				---	---	---	2530	2320	2440	---	---	---
8				2390	2190	2250	2510	2280	2400	---	---	---
9				2350	2190	2240	2520	2260	2360	---	---	---
10				2360	2170	2230	2510	2260	2380	---	---	---
11				2340	2140	2220	2540	2290	2410	---	---	---
12				2520	2170	2350	2500	2270	2350	---	---	---
13				2380	2190	2260	2510	2290	2370	---	---	---
14				2600	2180	2340	2560	2290	2410	---	---	---
15				2470	2250	2330	2520	2290	2380	---	---	---
16				2430	2270	2350	2560	2300	2420	---	---	---
17				2470	2280	2370	2580	2360	2460	---	---	---
18				2450	2270	2350	2580	2340	2460	---	---	---
19				2420	2240	2320	2590	2350	2480	---	---	---
20				2480	2260	2370	2620	2400	2540	---	---	---
21				2480	2290	2380	2620	2390	2510	---	---	---
22				2490	2350	2410	2630	2360	2470	---	---	---
23				2510	2350	2430	2640	2350	2470	---	---	---
24				2540	2350	2430	2640	2390	2520	---	---	---
25				2560	2340	2430	2640	2400	2520	---	---	---
26				2620	2400	2490	2660	2370	2480	---	---	---
27				2520	2400	2460	2780	2420	2550	---	---	---
28				2560	2360	2470	2680	2400	2550	---	---	---
29				2520	2360	2460	2680	2390	2520	---	---	---
30				2850	2410	2600	2660	2400	2500	---	---	---
31				---	---	---	2670	2410	2520	2790	2400	2610
MONTH				2850	2140	2370	2780	2220	2460	2790	2400	2540

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2620	2550	2570	2500	2300	2390	2640	2290	2490			
2	2650	2360	2500	2440	2280	2360	2780	2450	2570			
3	2670	2380	2500	2500	2350	2400	2740	2460	2570			
4	2680	2410	2500	---	---	---	2740	2460	2550			
5	2690	2460	2570	2560	2350	2440	2760	2480	2590			
6	2710	2430	2550	2650	2350	2440	2780	2460	2570			
7	2730	2310	2530	2590	2330	2410	2940	2440	2730			
8	2730	2450	2570	2540	2240	2370	2850	2590	2690			
9	2700	2470	2550	2540	2230	2320	2980	2670	2760			
10	2560	2340	2430	2490	2220	2300	3000	2680	2780			
11	2620	2350	2450	2790	2250	2400	2940	2340	2730			
12	2520	2370	2430	2440	2220	2290	3020	2560	2790			
13	2580	2400	2460	2450	2210	2290	2740	2480	2570			
14	2550	2400	2460	2580	2280	2370	2740	2440	2530			
15	2560	2280	2430	2380	2180	2250	2680	2380	2490			
16	3050	2330	2590	2430	2190	2270	2500	2210	2350			
17	2500	2300	2390	2420	2180	2300	2580	2190	2320			
18	2530	2330	2410	2400	2210	2280	2530	2230	2320			
19	2540	2360	2420	2430	2210	2290	2590	2220	2360			
20	2510	2320	2390	2510	2260	2340	2490	2180	2290			
21	2590	2380	2450	2480	2220	2320	2520	2160	2290			
22	2600	2370	2460	2500	2230	2330	2580	2210	2350			
23	2590	2390	2470	2510	2240	2340	2560	2280	2360			
24	2630	2390	2500	2600	2270	2380	2550	2280	2360			
25	2690	2470	2550	2500	2260	2340	2650	2300	2400			
26	2610	2400	2490	2570	2260	2330	2490	2210	2330			
27	2540	2340	2430	2550	2300	2380	2500	2170	2300			
28	2510	2340	2400	2600	2110	2390	2540	2230	2320			
29	---	---	---	2660	2280	2420	2640	2330	2420			
30	---	---	---	2610	2270	2380	2590	2320	2390			
31	---	---	---	2520	2240	2340	---	---	---			
MONTH	3050	2280	2480	2790	2110	2350	3020	2160	2490			

LAS VEGAS VALLEY

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 mi², approximately.

PERIOD OF RECORD.--February to September 1986.

SPECIFIC CONDUCTANCES: February to September 1986, hourly.

WATER TEMPERATURES: February to September 1986, 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, 1,940 microsiemens May 19, 1986.

WATER TEMPERATURES: Maximum, 28.0°C on several days during July and August 1986; minimum, 14.0°C Mar. 11, 1986.

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

SPECIFIC CONDUCTANCES: Maximum, 3,430 microsiemens June 4; minimum, 1,940 microsiemens May 19.

WATER TEMPERATURES: Maximum, 28.0°C on several days during July and August; minimum, 14.0°C Mar. 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	27.5	23.5	25.5	27.0	23.0	25.0	---	---	---
2	---	---	---	28.0	24.5	26.0	27.0	23.5	25.0	---	---	---
3	---	---	---	28.0	25.0	26.0	27.0	23.5	25.5	---	---	---
4	---	---	---	27.0	24.5	25.5	27.5	24.5	25.5	---	---	---
5	---	---	---	26.5	23.5	25.0	27.0	23.0	25.5	---	---	---
6	---	---	---	26.5	23.0	24.5	28.0	25.0	26.0	---	---	---
7	---	---	---	27.0	23.5	25.0	28.0	25.0	26.5	---	---	---
8	---	---	---	27.0	23.0	24.5	27.5	23.5	26.0	---	---	---
9	---	---	---	26.0	23.0	24.0	28.0	24.5	26.0	---	---	---
10	---	---	---	26.5	22.5	24.5	28.0	24.0	26.0	---	---	---
11	---	---	---	27.0	22.5	24.5	---	---	---	24.0	21.0	22.5
12	---	---	---	27.0	24.0	25.0	---	---	---	24.5	21.5	23.0
13	---	---	---	27.0	24.0	25.5	---	---	---	24.0	21.5	23.0
14	---	---	---	26.5	24.5	25.0	---	---	---	24.0	21.5	22.5
15	---	---	---	26.5	24.5	25.0	---	---	---	23.0	21.5	22.0
16	---	---	---	26.5	23.5	25.0	---	---	---	23.0	21.0	22.0
17	---	---	---	26.5	22.5	24.0	---	---	---	23.5	21.5	22.5
18	---	---	---	26.5	23.0	24.5	---	---	---	23.5	22.0	22.5
19	---	---	---	27.0	22.5	24.5	---	---	---	23.0	21.5	22.0
20	---	---	---	25.0	24.0	24.5	---	---	---	22.5	20.5	21.5
21	---	---	---	25.0	24.0	24.5	---	---	---	22.5	20.0	21.0
22	---	---	---	26.5	24.5	25.0	---	---	---	22.5	20.0	21.0
23	---	---	---	27.0	24.5	25.5	---	---	---	23.0	21.5	22.0
24	26.0	23.0	24.0	28.0	24.0	26.0	---	---	---	21.5	20.0	21.0
25	26.5	22.5	24.5	27.5	24.0	25.5	---	---	---	21.5	19.5	20.0
26	26.5	23.0	24.5	26.5	23.5	24.5	---	---	---	21.5	19.0	20.5
27	27.0	23.5	25.0	26.5	23.0	24.5	---	---	---	20.5	20.0	20.5
28	26.0	23.5	24.5	26.0	22.0	24.0	---	---	---	21.0	20.0	20.5
29	25.0	23.5	24.0	27.0	23.5	24.5	---	---	---	22.0	20.0	21.0
30	27.0	23.5	25.0	26.5	22.0	24.5	---	---	---	22.0	19.5	20.5
31	---	---	---	27.0	22.5	24.5	---	---	---	---	---	---
MONTH	27.0	22.5	24.5	28.0	22.0	25.0	28.0	23.0	25.5	24.5	19.0	21.5
YEAR	28.0	14.0	21.0									

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	2750	2560	2650	---	---	---	2660	2390	2490
2	---	---	---	2660	2490	2590	2770	2480	2580	2720	2430	2520
3	---	---	---	2730	2510	2590	2690	2480	2550	2830	2410	2580
4	---	---	---	3280	2580	2920	2690	2440	2510	2660	2390	2500
5	---	---	---	2730	2560	2630	2690	2400	2510	2680	2410	2490
6	---	---	---	2880	2560	2640	2700	2360	2500	2740	2440	2540
7	---	---	---	2810	2540	2630	2680	2410	2550	2780	2490	2590
8	---	---	---	2780	2510	2620	2600	2400	2500	2800	2500	2580
9	---	---	---	2790	2490	2600	2680	2400	2510	2900	2520	2680
10	---	---	---	2780	2480	2580	2750	2440	2530	2940	2570	2690
11	---	---	---	2930	2540	2660	2720	2430	2530	2840	2520	2640
12	---	---	---	2740	2510	2590	2710	2390	2520	2880	2540	2650
13	---	---	---	2760	2520	2600	2670	2390	2480	2910	2440	2670
14	---	---	---	2800	2580	2670	2690	2390	2490	2920	2440	2650
15	---	---	---	---	---	---	2690	2430	2540	2740	2490	2600
16	---	---	---	---	---	---	2680	2480	2550	2730	2470	2570
17	---	---	---	---	---	---	2760	2460	2550	2800	2410	2570
18	---	---	---	---	---	---	2730	2490	2560	2650	2170	2410
19	---	---	---	---	---	---	2780	2490	2590	2370	1940	2160
20	2860	2680	2750	---	---	---	2700	2430	2530	2710	1990	2310
21	2980	2720	2820	---	---	---	2700	2420	2510	2650	2350	2430
22	2950	2450	2810	---	---	---	2700	2450	2520	2490	2170	2300
23	2940	2720	2820	---	---	---	2730	2440	2520	2400	2020	2180
24	2890	2640	2780	---	---	---	2730	2470	2540	2250	2050	2130
25	2960	2770	2860	---	---	---	2820	2480	2580	2570	2170	2340
26	2970	2640	2850	---	---	---	2710	2420	2530	2600	2280	2390
27	2940	2710	2850	---	---	---	2640	2270	2440	2680	2300	2420
28	2770	2580	2670	---	---	---	2610	2300	2410	2760	2360	2520
29	---	---	---	---	---	---	2770	2420	2560	2720	2430	2530
30	---	---	---	---	---	---	2730	2450	2540	2820	2440	2590
31	---	---	---	---	---	---	---	---	---	2730	2420	2530
MONTH	2980	2450	2800	3280	2480	2640	2820	2270	2530	2940	1940	2490

LAS VEGAS VALLEY

75

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

WATER-QUALITY RECORDS

LOCATION.--Lat 36°07'20", long 114°54'15", in NE1/4SE1/4 sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead Recreation Area, on left bank near mouth, on upstream side of North Shore Road, about 0.8 mi upstream from high-water line of Lake Mead at elevation 1,221.4 ft, National Geodetic Vertical Datum of 1929, and 11 mi north-northwest of Boulder City.

DRAINAGE AREA.--2,193 mi², of which 1,586 mi² contribute directly to surface runoff.

PERIOD OF RECORD.--January 1964 to January 1965, September 1966 to February 1986 (discontinued).

CHEMICAL ANALYSES: January 1964 to January 1965, twice monthly; September 1966 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to September 1980, twice monthly; October 1980 to September 1985, monthly.

SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice monthly; September 1966 to December 1967 and May 1968 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice monthly; February 1970 to July 1974, monthly; August 1974 to May 1975, twice monthly; June 1975 to March 1976, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; April to October 1976, twice monthly; November 1976 to September 1977, 4 times per hour (incomplete record due to recorder malfunctions) and twice monthly; October 1977 to May 1978, 2-4 times per month; June 1978 to January 1979, 3-5 times per week; February to August 1979, twice monthly; September and October 1979, four times per hour; November 1979 to February 1986, hourly.

MICROBIOLOGICAL DATA: October 1977 to September 1980, twice monthly (data prior to October 1977 unpublished); October 1980 to September 1985, monthly.

WATER TEMPERATURES: January to December 1968, weekly; August 1969 to July 1974, monthly; August 1974 to May 1978, twice monthly; June 1978 to January 1979, 3-5 times per week; February to October 1979, twice monthly; November 1979 to February 1986, hourly.

SEDIMENT DATA: January 1974 to December 1976, monthly; January 1977 to August 1979, twice monthly; September 1979 to December 1980, monthly; January 1981 to September 1981, twice monthly; October 1981 to September 1985, monthly.

INSTRUMENTATION.--Specific-conductance recorder from June 1975 to March 1976, November 1976 to April 1978, and August 1979 to February 1986. Temperature recorder from November 1979 to February 1986.

REMARKS.--Discharge includes sewage effluent and wastewater from industrial plants. City and county sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981. Records are poor due to variable accumulations of sediment near the recorder probes.

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 9,120 microsiemens Sept. 8, 1964; minimum, 1,390 microsiemens July 7, 1985.

FECAL STREPTOCOCCI: Maximum, 22,000 colonies/100 mL (non-ideal colony count) Dec. 1, 1982; minimum, 55 colonies/100 mL Jan. 10, 1977.

WATER TEMPERATURES: Maximum, 30.5°C July 5, 11-12, 1985; minimum, 3.0°C Jan. 7, 1970.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 113,000 mg/L Aug. 11, 1983 (hand-dipped sample; not depth integrated); minimum, 111 mg/L Jan. 28, 1975.

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.5	20.5	22.0	20.0	17.0	18.0	16.0	14.5	15.0	14.5	14.0	14.5
2	24.5	19.5	21.5	20.5	16.0	17.5	16.0	15.5	16.0	14.5	14.0	14.5
3	24.5	19.0	21.5	20.5	16.5	18.0	17.0	15.5	16.0	15.0	14.5	14.5
4	24.5	19.5	21.5	19.5	17.0	18.0	16.5	14.5	15.5	15.5	14.5	15.0
5	24.5	19.0	21.5	20.5	17.0	18.5	16.0	15.0	15.5	16.0	15.5	15.5
6	24.0	20.0	21.5	19.5	16.0	17.5	16.0	14.5	15.0	16.5	13.5	15.0
7	24.0	20.0	21.0	19.5	15.5	17.0	16.0	14.0	15.0	14.5	13.0	13.5
8	21.0	18.5	20.0	19.5	16.0	17.5	15.0	14.0	14.5	14.5	12.0	13.0
9	21.5	18.5	19.5	18.5	16.0	16.5	14.5	13.0	13.5	14.0	12.0	13.0
10	23.0	18.5	20.0	17.0	15.0	16.0	14.0	13.0	13.5	14.5	12.0	13.0
11	22.5	18.0	20.0	16.0	15.0	15.0	13.5	12.5	13.0	15.0	13.0	14.0
12	22.5	18.5	20.0	15.0	13.5	14.5	13.0	12.0	12.5	15.0	13.5	14.0
13	21.0	18.0	19.5	16.0	13.0	14.0	13.0	11.5	12.0	15.0	13.5	14.0
14	20.5	17.5	18.5	16.0	13.0	14.0	13.0	11.5	12.5	15.0	14.0	14.5
15	20.5	16.5	18.0	16.0	13.0	14.5	13.5	12.5	13.0	15.5	15.0	15.0
16	21.5	16.5	18.5	15.5	13.5	14.5	13.5	12.5	13.0	16.0	15.0	15.5
17	22.0	17.5	19.0	16.0	13.5	14.5	14.0	12.5	13.0	15.5	14.5	15.0
18	22.5	18.0	20.0	15.5	13.0	14.0	14.0	13.0	13.5	16.0	15.0	15.5
19	22.5	18.0	20.0	14.5	12.0	12.5	14.0	13.0	13.5	16.0	15.0	15.5
20	22.0	18.0	20.0	14.0	11.0	12.5	14.0	13.0	13.5	16.5	15.5	16.0
21	21.5	18.5	19.5	15.5	12.0	13.5	14.0	13.0	13.5	16.0	14.0	15.5
22	21.0	17.5	18.5	16.0	12.5	14.0	14.0	13.0	13.5	16.0	13.0	14.0
23	20.5	16.5	18.0	16.0	13.5	15.0	14.0	13.0	13.5	16.0	13.0	14.0
24	21.0	16.5	18.5	16.0	15.5	16.0	14.0	13.0	13.5	16.0	13.0	14.0
25	21.5	17.0	19.0	17.5	16.0	16.5	14.5	13.5	14.0	16.0	13.0	14.0
26	22.0	17.0	19.0	18.5	16.0	16.5	14.5	13.5	14.0	16.0	12.5	14.0
27	22.0	17.0	19.0	17.0	15.0	16.0	14.0	13.5	13.5	16.0	12.5	14.0
28	20.5	18.0	19.0	17.5	15.5	16.0	14.0	13.0	13.5	15.5	12.5	14.0
29	21.5	17.5	19.0	16.5	14.5	15.5	14.0	13.5	14.0	15.0	13.0	14.0
30	21.0	17.5	19.0	16.0	14.0	14.5	14.5	14.0	14.5	15.0	14.5	15.0
31	20.5	18.0	19.0	---	---	---	14.5	14.0	14.5	17.0	14.0	15.5
MONTH	24.5	16.5	19.5	20.5	11.0	15.5	17.0	11.5	14.0	17.0	12.0	14.5

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2390	2270	2320	2530	2360	2410	2680	2600	2650	2670	2540	2600
2	2510	2310	2350	2550	2370	2440	2700	2600	2650	2650	2530	2570
3	2460	2290	2350	2560	2370	2440	2790	2630	2690	2700	2480	2580
4	2470	2300	2350	2550	2350	2440	2700	2600	2650	2620	2500	2570
5	2450	2250	2340	2610	2450	2500	2700	2590	2640	2660	2390	2570
6	2400	2230	2300	2610	2420	2490	2650	2540	2590	2850	2520	2680
7	2440	2220	2310	2630	2440	2500	2650	2520	2570	2800	2630	2710
8	2450	2300	2340	2580	2400	2480	2630	2500	2550	2870	2720	2770
9	2680	2270	2340	2560	2430	2480	2600	2500	2540	2950	2730	2860
10	---	---	---	2580	2420	2480	2590	2490	2530	3060	2860	2940
11	2500	2310	2370	2580	2420	2470	2700	2490	2570	3110	2930	3000
12	2450	2310	2360	2730	2500	2590	2530	2450	2490	3170	3000	3070
13	2490	2320	2370	2620	2460	2510	2530	2420	2470	3210	2970	3110
14	2450	2290	2340	2830	2420	2540	2580	2470	2520	3340	2970	3210
15	2510	2330	2400	2550	2350	2480	2540	2460	2490	3390	3080	3280
16	2550	2370	2420	2630	2450	2530	2520	2460	2490	3950	3330	3750
17	2520	2390	2440	2580	2440	2510	2640	2500	2560	4100	3650	3820
18	2490	2390	2430	2580	2390	2500	2610	2530	2560	3710	3260	3530
19	2540	2370	2440	2570	2430	2500	2670	2540	2590	3320	2940	3120
20	2550	2350	2420	2650	2500	2570	2710	2590	2650	2980	2770	2850
21	2540	2320	2390	2610	2520	2550	2720	2600	2660	2850	2620	2770
22	2490	2320	2360	2630	2510	2550	2740	2580	2650	2790	2610	2670
23	2450	2320	2380	2630	2530	2580	2740	2550	2640	2770	2600	2650
24	2540	2330	2420	2680	2490	2570	2780	2600	2680	2770	2610	2670
25	2540	2380	2430	2680	2500	2570	2740	2550	2650	2780	2600	2670
26	2570	2390	2460	2720	2520	2630	2760	2530	2640	2750	2570	2640
27	2590	2370	2450	2700	2580	2630	2820	2610	2700	2770	2590	2650
28	2570	2370	2430	2770	2620	2690	2750	2600	2670	2820	2580	2680
29	2520	2380	2420	2730	2610	2660	2720	2480	2610	2790	2610	2670
30	2570	2380	2430	2950	2650	2780	2690	2530	2610	2820	2590	2690
31	2520	2370	2430	---	---	---	2690	2500	2580	2800	2630	2730
MONTH	2680	2220	2390	2950	2350	2540	2820	2420	2600	4100	2390	2870
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2770	2590	2670									
2	2770	2590	2670									
3	2730	2540	2630									
4	2720	2560	2630									
5	2750	2550	2650									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

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 mi², approximately, including 3,959 mi² 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, 24,884,000 acre-ft, Oct. 2, gage height, 1,213.20 ft; minimum, 23,123,000 acre-ft, Jan. 24, 25, gage height, 1,201.42 ft.

COLORADO RIVER MAIN STEM

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

RESERVOIR STORAGE (THOU AC-FT) WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24878	24560	24202	23683	23153	23316	23270	23616	24168	24415	23973	24028
2	24884	24559	24187	23644	23152	23323	23280	23620	24210	24404	23979	24039
3	24871	24559	24168	23606	23162	23318	23294	23617	24250	24392	24001	24042
4	24861	24539	24144	23576	23159	23310	23302	23628	24246	24377	24007	24037
5	24862	24521	24132	23566	23166	23314	23311	23626	24250	24370	24010	24033
6	24853	24504	24121	23535	23174	23313	23317	23616	24258	24358	23980	24037
7	24838	24486	24121	23493	23184	23311	23342	23610	24268	24330	23965	24052
8	24816	24462	24127	23452	23195	23313	23346	23604	24299	24308	23946	24060
9	24807	24454	24109	23414	23213	23316	23354	23600	24323	24287	23941	24069
10	24794	24448	24085	23377	23220	23305	23358	23591	24336	24261	23931	24073
11	24780	24454	24069	23357	23225	23304	23376	23606	24341	24237	23924	24072
12	24775	24429	24054	23338	23232	23298	23390	23626	24341	24223	23927	24076
13	24774	24410	24042	23310	23236	23304	23426	23644	24342	24219	23944	24091
14	24757	24400	24052	23276	23248	23304	23442	23666	24353	24205	23934	24105
15	24731	24380	24057	23250	23258	23302	23454	23696	24364	24153	23934	24108
16	24713	24385	24048	23225	23275	23313	23470	23720	24365	24115	23946	24117
17	24696	24391	24030	23191	23269	23289	23480	23743	24362	24088	23958	24109
18	24687	24379	24003	23177	23279	23286	23486	23772	24361	24055	23964	24129
19	24687	24353	23989	23174	23270	23279	23507	23800	24367	24046	23964	24138
20	24688	24342	23976	23163	23285	23277	23524	23822	24373	24048	23968	24154
21	24665	24330	23970	23150	23291	23273	23532	23851	24386	24015	23973	24156
22	24655	24315	23967	23136	23302	23277	23536	23876	24413	23982	23976	24165
23	24641	24312	23950	23131	23318	23280	23541	23901	24413	23964	23983	24180
24	24627	24309	23928	23123	23329	23269	23551	23931	24421	23968	23998	24175
25	24614	24291	23904	23123	23329	23266	23566	23958	24410	23967	24004	24177
26	24614	24272	23888	23134	23324	23258	23576	23986	24412	23977	24007	24186
27	24614	24249	23849	23139	23321	23258	23597	24015	24406	24000	24015	24202
28	24597	24237	23810	23143	23313	23264	23604	24046	24410	24000	24007	24214
29	24585	24234	23749	23144	---	23267	23613	24066	24413	23979	23998	24214
30	24577	24210	23758	23146	---	23276	23616	24100	24416	23973	24009	24220
31	24573	---	23721	23147	---	23273	---	24120	---	23967	24024	---
MAX	24884	24560	24202	23683	23329	23323	23616	24120	24421	24415	24024	24220
MIN	24573	24210	23721	23123	23152	23258	23270	23591	24168	23964	23924	24028
*	1211.16	1208.76	1205.49	1201.59	1202.72	1202.45	1204.78	1208.16	1210.13	1207.14	1207.52	1208.83
#	-302000	-363000	-489000	-574000	+166000	-40000	+343000	+504000	+296000	-449000	+57000	+196000
##	13010	9910	9960	10960	9750	13940	15080	18150	18260	19600	20130	16020
**	5.5	6.4	5.0	2.8	3.0	3.4	5.6	6.1	5.9	8.0	7.1	9.8
a	69700	80800	62400	34400	36800	41800	68200	75300	74600	100700	88000	123000
CAL YR 1985	MAX	25060	MIN	23721	# -360000	## 163040	** 66.2	a 835300				
WTR YR 1986	MAX	24884	MIN	23123	# -655000	## 174770	** 68.6	a 855700				

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

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

Change in contents, in acre-feet.

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

Diversions, in acre-feet.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17200	17900	15500	30700	18100	19000	25100	27700	32200	29000	24100	23900
2	17800	13600	18400	31200	18400	17900	25600	26600	26800	29800	21200	25600
3	17600	13600	19400	31800	19300	22200	23900	24800	35300	30900	17900	24300
4	17500	19600	21300	26400	21100	24000	23500	23100	35500	24800	23600	26700
5	12500	19300	19400	21000	19800	24600	21800	28300	34400	22900	25400	26400
6	12800	20000	19100	29800	19000	24300	20000	30000	37000	21800	29100	19400
7	17700	20500	15500	31500	18800	24400	23000	30200	29900	28900	26200	17300
8	18400	21000	12600	31900	16100	23100	24500	31100	26300	28500	25000	22100
9	18500	15600	19400	30300	13600	25500	25300	31800	28700	29100	21400	20500
10	18300	14300	20900	31500	19300	29200	26300	35500	30400	29800	18000	24100
11	17100	19700	18700	23200	20700	27500	23600	35600	30800	30600	24800	25900
12	13900	21500	21000	24900	20100	27600	19100	35500	29100	24500	25200	26600
13	12100	19700	21200	29900	19300	25600	17700	35000	30600	19500	24100	19900
14	17900	20200	12800	28700	18100	28800	23100	36200	23200	29300	24600	19900
15	19000	20100	13500	28300	15200	23900	24600	36100	24800	29100	26000	24000
16	19700	10900	21300	31400	16400	23900	22200	36400	28700	19800	24100	26100
17	18500	10500	19800	31600	18900	31500	25000	36000	31500	28000	16600	26500
18	17500	21700	22500	25800	18200	29500	23700	35200	29800	30500	24500	21900
19	11800	21400	19300	23700	20300	28800	20400	35800	29200	23100	25200	18900
20	12600	21700	20900	27700	18300	29500	20400	35300	27600	20000	24900	16500
21	18800	20900	15200	23200	18900	29400	26700	34800	23700	27200	25600	17400
22	19000	21100	13600	23200	14400	26600	24900	36300	19000	28600	24200	27500
23	18400	16300	20500	23700	13800	24800	24900	36100	28600	25500	18700	25300
24	17700	14900	19700	22700	18600	31500	24900	34200	32000	26900	15800	24900
25	19800	22300	14500	18600	20200	30400	26600	35200	31200	27300	24000	22900
26	12200	21200	22300	17200	22900	30700	21000	34600	30000	20700	24500	23900
27	12800	23000	28800	22100	23600	28100	21300	35900	30800	17800	24400	17800
28	18500	15500	24000	23900	25200	25400	27600	35200	23700	25100	27200	19400
29	19200	17400	20500	24000	---	23800	25900	36100	23500	27400	27900	24600
30	19100	17000	29600	23700	---	24600	27000	35000	28000	27400	20200	23000
31	17600	---	29700	22400	---	27800	---	33600	---	29300	18900	---
TOTAL	521500	552400	610900	816000	526600	813900	709600	1033200	872300	821800	719000	681200
MEAN	16820	18410	19710	26320	18810	26250	23650	33330	29080	26510	23190	22710
MAX	19800	23000	29700	31900	25200	31500	27600	36400	37000	30900	29100	27500
MIN	11800	10500	12600	17200	13600	17900	17700	23100	19000	17800	15800	16500
AC-FT	1034000	1096000	1212000	1619000	1045000	1614000	1407000	2049000	1730000	1630000	1426000	1351000
CAL YR 1985	TOTAL 8676200		MEAN 23770	MAX 35500	MIN 10500	AC-FT 17210000						
WTR YR 1986	TOTAL 8678400		MEAN 23780	MAX 37000	MIN 10500	AC-FT 17210000						

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, 790 microsiemens Aug. 27-28, 1986.

PHYTOPLANKTON: Maximum, 3,800 cells/mL Nov. 5, 1974; minimum, 5 cells/mL Aug. 9, 1977.

FECAL STREPTOCOCCI: Maximum, 45 colonies/100 mL Mar. 9, 1977; minimum, <1 colony/100 mL several times during period of record.

WATER TEMPERATURES: Maximum, 21.5°C July 23, 1983; minimum, 9.0°C Feb. 12, 1975, and Jan. 10, 1978.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 24 mg/L July 7, 1982; minimum, <1 mg/L on several days in 1976, Oct. 16, 1979, several days in 1980, Sept. 16, 1981, and Mar. 9, 1982.

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

SPECIFIC CONDUCTANCES: Maximum, 860 microsiemens several days in Oct., Nov. 22, and Dec. 10; minimum, 790 microsiemens Aug. 27, 28.

WATER TEMPERATURES: Maximum, 15.0°C Sept. 25; minimum, 12.0°C Nov. 10, Jan. 20, many days in Feb., Mar., Apr., and May 6, 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 KF AGAR (COLS. PER 100 ML)
OCT											
15...	1230	26400	850	7.80	23.0	13.0	0.50	7.0	68	<1	<1
NOV											
14...	1345	20500	840	8.00	20.0	13.0	1.0	7.8	75	<1	<1
DEC											
10...	1200	20300	840	8.00	14.0	13.0	0.50	7.3	70	<1	<1
JAN											
22...	1200	22300	840	7.90	19.0	12.5	1.0	7.8	75	<1	<1
FEB											
18...	1500	20100	810	8.00	22.0	12.0	0.50	7.2	69	K1	K1
MAR											
19...	1315	35900	830	8.10	21.5	12.5	0.50	8.1	77	<1	<1
APR											
15...	1130	32600	810	8.10	29.0	12.5	0.40	8.0	77	K1	<1
MAY											
14...	0700	33800	815	7.70	22.0	12.5	1.0	7.8	76	<1	<1
JUN											
10...	1100	32100	820	7.70	34.0	13.0	3.5	7.7	75	<1	<1
JUL											
17...	1330	36200	800	7.70	37.0	13.0	0.80	7.5	73	<2	<2
AUG											
28...	1130	34800	800	7.90	34.0	14.0	0.30	7.0	70	<2	<2
SEP											
26...	1230	28600	815	7.90	26.5	14.0	0.60	6.7	67	<2	--

K: NON-IDEAL COLONY COUNT.

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 AS CACO3)	ALKA- LINITY CARBON- ATE FET-FLD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 15...	270	70	24	70	2	3.4	162	132	131	220	55
NOV 14...	270	68	23	70	2	3.5	--	--	--	200	54
DEC 10...	270	66	25	74	2	3.4	158	130	128	220	58
JAN 22...	260	66	24	70	2	3.5	158	130	129	210	56
FEB 18...	260	67	23	70	2	3.6	161	132	131	220	57
MAR 19...	270	68	24	71	2	3.8	161	132	131	210	59
APR 15...	260	64	24	72	2	3.6	157	129	129	210	56
MAY 14...	260	65	23	68	2	3.8	157	129	128	210	56
JUN 10...	260	66	23	67	2	3.9	152	125	126	200	54
JUL 17...	260	66	24	70	2	3.6	155	127	128	210	51
AUG 28...	260	67	23	69	2	3.6	160	131	130	210	54
SEP 26...	260	66	24	69	2	3.4	161	132	132	220	55

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	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 15...	0.30	8.7	543	530	0.74	--	<0.010	--	0.360	0.040
NOV 14...	0.30	8.8	536	500	0.73	--	<0.010	--	0.350	0.090
DEC 10...	0.30	9.0	524	530	0.71	--	<0.010	--	0.330	0.030
JAN 22...	0.30	8.6	528	520	0.72	--	<0.010	--	0.370	0.020
FEB 18...	0.30	9.1	522	530	0.71	--	<0.010	--	0.340	0.030
MAR 19...	0.30	9.0	542	530	0.74	--	<0.010	--	0.340	<0.010
APR 15...	0.30	8.9	535	520	0.73	<0.010	<0.010	0.400	0.350	0.040
MAY 14...	0.30	9.1	538	510	0.73	<0.010	<0.010	0.300	0.340	<0.010
JUN 10...	0.20	8.8	526	500	0.72	<0.010	<0.010	0.400	0.360	<0.010
JUL 17...	0.30	9.1	532	510	0.72	<0.010	<0.010	0.400	0.360	0.030
AUG 28...	0.30	9.1	528	510	0.72	<0.010	<0.010	0.400	0.370	0.010
SEP 26...	0.30	9.1	--	530	0.72	--	<0.010	0.400	0.380	0.060

COLORADO RIVER MAIN STEM

83

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	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)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)
OCT 15...	0.030	0.16	0.20	--	0.080	<0.010	--	0.010	--	--
NOV 14...	0.090	0.41	0.50	--	0.030	0.030	--	0.040	<10	2
DEC 10...	0.030	0.17	0.20	--	0.010	<0.010	--	<0.010	--	--
JAN 22...	0.020	0.28	0.30	--	0.010	<0.010	--	0.010	--	--
FEB 18...	0.040	0.27	0.30	--	<0.010	<0.010	--	<0.010	--	--
MAR 19...	0.010	--	0.40	--	<0.010	<0.010	--	<0.010	<10	3
APR 15...	0.020	0.26	0.30	0.70	0.010	0.010	0.020	<0.010	--	--
MAY 14...	0.020	--	0.30	0.60	<0.010	0.020	<0.010	<0.010	--	--
JUN 10...	0.030	--	0.30	0.70	0.010	<0.010	<0.010	<0.010	--	--
JUL 17...	0.040	0.27	0.30	0.70	0.020	0.010	<0.010	<0.010	--	--
AUG 28...	0.040	0.29	0.30	0.70	<0.010	0.020	<0.010	<0.010	--	--
SEP 26...	0.020	0.24	0.30	0.70	0.010	<0.010	<0.010	<0.010	10	3

DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 15...	--	--	--	--	--	--	--	--	--	--
NOV 14...	110	<0.5	<1	<1	<3	<1	<3	<1	38	<1
DEC 10...	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 19...	100	<0.5	<1	<1	<3	<1	<3	<1	36	<1
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 14...	110	<0.5	<1	<1	<3	4	6	1	--	<1
JUN 10...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--	--	--
SEP 26...	100	0.6	<1	<1	<3	1	3	<5	38	<1

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)
OCT 15...	--	--	--	--	--	--	--	--	1	71
NOV 14...	<0.1	<10	2	3	<1	890	<6	9	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	2	109
MAR 19...	<0.1	<10	2	3	<1	930	<6	4	2	194
APR 15...	--	--	--	--	--	--	--	--	2	176
MAY 14...	--	<10	1	3	<1	830	<6	15	--	--
JUN 10...	--	--	--	--	--	--	--	--	2	174
JUL 17...	--	--	--	--	--	--	--	--	2	196
AUG 28...	--	--	--	--	--	--	--	--	8	751
SEP 26...	<0.1	<10	1	2	<1	830	<6	5	4	309

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	860	840	850	850	830	842	850	840	844	850	840	845
2	860	840	850	840	830	840	850	840	844	850	840	845
3	860	840	850	850	830	840	850	840	843	850	840	845
4	860	840	850	840	830	839	850	840	845	850	840	843
5	860	840	850	840	830	839	850	840	844	850	840	841
6	860	840	850	850	830	840	850	840	844	850	840	844
7	860	840	852	840	830	839	850	840	845	850	840	845
8	850	840	848	850	830	839	850	840	845	850	840	843
9	850	840	848	840	830	838	850	840	845	850	840	842
10	850	840	847	850	830	840	860	840	843	850	840	842
11	850	840	850	840	830	837	850	840	843	840	840	840
12	850	840	850	840	830	837	850	840	843	850	840	842
13	850	840	850	840	830	840	850	840	843	850	840	843
14	850	840	850	850	830	840	850	840	843	850	840	844
15	850	840	850	850	840	841	850	840	843	850	840	842
16	850	840	847	850	840	840	850	840	843	850	840	842
17	850	840	845	850	830	839	850	840	843	850	840	843
18	850	840	846	850	830	841	850	840	843	850	840	843
19	850	840	847	850	830	840	850	840	844	850	840	842
20	850	840	847	840	830	838	850	840	845	850	840	841
21	850	840	848	840	830	838	850	840	847	850	840	842
22	850	840	845	860	830	840	850	840	844	850	840	840
23	850	840	843	840	830	839	850	840	847	849	839	840
24	850	840	844	840	830	837	850	840	847	849	838	841
25	850	830	844	840	830	837	850	840	845	848	837	839
26	850	840	846	840	840	840	850	840	844	847	837	839
27	850	840	841	850	840	843	850	840	846	846	836	837
28	850	830	843	850	840	843	850	840	844	836	825	834
29	850	840	842	850	840	842	850	840	845	835	834	835
30	850	840	844	850	840	846	850	840	843	834	824	832
31	850	840	842	---	---	---	850	840	846	834	823	830
MONTH	860	830	847	860	830	840	860	840	844	850	823	841

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 mi², approximately, including 3,959 mi² 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, regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft, May 24, 1958, May 29, 1963, 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, 1,703,000 acre-ft, June 14, elevation, 643.17 ft; minimum, 1,375,000 acre-ft, Sept. 29, elevation, 630.65 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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
OBSERVATION AT 2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1555000	1457000	1471000	1422000	1656000	1574000	1666000	1610000	1678000	1675000	1567000	1445000
2	1552000	1448000	1473000	1433000	1662000	1561000	1676000	1613000	1675000	1677000	1558000	1446000
3	1546000	1440000	1481000	1447000	1671000	1560000	1671000	1613000	1674000	1684000	1541000	1445000
4	1541000	1440000	1488000	1452000	1680000	1561000	1668000	1610000	1674000	1677000	1533000	1448000
5	1526000	1442000	1494000	1447000	1688000	1563000	1661000	1610000	1673000	1665000	1528000	1454000
6	1510000	1446000	1501000	1462000	1689000	1564000	1651000	1613000	1686000	1654000	1528000	1445000
7	1510000	1448000	1493000	1480000	1688000	1564000	1647000	1611000	1693000	1654000	1525000	1432000
8	1512000	1451000	1490000	1501000	1677000	1560000	1647000	1618000	1693000	1654000	1520000	1427000
9	1514000	1447000	1496000	1518000	1661000	1560000	1648000	1620000	1693000	1655000	1512000	1419000
10	1509000	1443000	1501000	1532000	1652000	1570000	1650000	1631000	1694000	1658000	1491000	1421000
11	1506000	1445000	1511000	1532000	1652000	1575000	1650000	1643000	1698000	1662000	1484000	1424000
12	1495000	1451000	1514000	1532000	1649000	1579000	1639000	1650000	1700000	1655000	1486000	1430000
13	1482000	1455000	1520000	1548000	1646000	1578000	1627000	1652000	1702000	1638000	1484000	1423000
14	1475000	1460000	1506000	1567000	1641000	1586000	1626000	1657000	1694000	1639000	1483000	1418000
15	1473000	1464000	1493000	1581000	1631000	1584000	1623000	1662000	1688000	1641000	1488000	1417000
16	1475000	1451000	1496000	1606000	1623000	1578000	1618000	1671000	1686000	1638000	1481000	1418000
17	1478000	1436000	1496000	1616000	1618000	1592000	1623000	1674000	1691000	1639000	1468000	1423000
18	1478000	1443000	1501000	1622000	1613000	1602000	1620000	1679000	1692000	1644000	1468000	1427000
19	1468000	1447000	1491000	1620000	1613000	1607000	1612000	1680000	1693000	1635000	1468000	1421000
20	1457000	1451000	1481000	1631000	1610000	1616000	1606000	1681000	1691000	1619000	1469000	1402000
21	1460000	1457000	1460000	1632000	1606000	1623000	1607000	1681000	1684000	1617000	1474000	1391000
22	1465000	1463000	1437000	1631000	1594000	1626000	1607000	1682000	1667000	1620000	1473000	1397000
23	1466000	1460000	1427000	1634000	1584000	1626000	1607000	1684000	1668000	1616000	1460000	1400000
24	1466000	1456000	1418000	1634000	1580000	1638000	1607000	1682000	1674000	1612000	1449000	1401000
25	1471000	1463000	1404000	1623000	1578000	1648000	1609000	1682000	1682000	1610000	1447000	1400000
26	1462000	1468000	1404000	1610000	1582000	1660000	1604000	1682000	1685000	1594000	1448000	1399000
27	1454000	1478000	1411000	1614000	1585000	1667000	1596000	1682000	1691000	1577000	1448000	1391000
28	1460000	1474000	1382000	1622000	1584000	1668000	1601000	1684000	1681000	1570000	1454000	1384000
29	1460000	1474000	1394000	1606000	---	1666000	1602000	1689000	1675000	1572000	1460000	1386000
30	1460000	1473000	1401000	1642000	---	1667000	1607000	1683000	1674000	1570000	1455000	1392000
31	1460000	---	1409000	1652000	---	1672000	---	1681000	---	1574000	1446000	---
MAX	1550000	1480000	1520000	1650000	1690000	1670000	1680000	1690000	1700000	1680000	1570000	1450000
MIN	1450000	1440000	1380000	1420000	1580000	1560000	1600000	1610000	1670000	1570000	1450000	1380000
#	633.98	634.50	632.00	641.28	638.76	642.02	639.58	642.35	642.10	638.38	633.44	631.32
##	-102000	+13000	-64000	+243000	-68000	+88000	-65000	+74000	-7000	-100000	-128000	-54000
CAL YR 1985	MAX	1790000	MIN	1380000	#	-99000						
WTR YR 1986	MAX	1700000	MIN	1380000	##	-170000						

Elevation, in feet, at end of month.

Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in 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 mi², approximately, including 3,959 mi² 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 ft³/s, June 20, 1906; minimum daily, 2,850 ft³/s, Jan. 5, 1906. 1949-86: Maximum discharge, 46,200 ft³/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 ft³/s, Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,900 ft³/s, June 4, elevation, 507.40 ft; minimum daily, 14,000 ft³/s, Feb. 2.

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	20100	18400	16700	25000	17300	24900	25200	24900	35400	28200	27400	24400
2	20200	18500	16900	24900	14000	24800	25200	24900	27700	28200	27500	24400
3	20200	18500	16600	24800	15100	22900	25100	24900	35300	28200	27700	24400
4	20200	18600	16600	24600	15200	23600	25200	24800	35400	28600	27800	24400
5	20300	18400	16500	24500	15200	23800	25200	27500	35500	28500	27900	24400
6	20500	18300	16500	22500	18400	23200	25200	29200	30300	28500	28000	24400
7	18400	18300	16500	20700	19000	23800	25300	29200	27100	28500	28000	24400
8	18000	18100	16500	20500	22500	25200	24800	29200	26900	28500	28000	24000
9	18200	18100	16500	21700	21700	25200	24600	29200	28000	28500	28000	23800
10	19800	18400	16500	23800	21700	25500	24600	29200	28600	28500	28000	23700
11	18000	18200	16300	23800	21900	25500	24600	29200	28600	28600	28200	23800
12	20000	18100	16300	23800	21100	25100	24700	32100	28600	28600	25400	23800
13	20200	18000	18300	21600	20900	25400	24600	33700	28700	28400	24700	23800
14	20300	17900	20200	20100	21100	25400	24600	33300	28700	28700	24700	23800
15	20000	17900	20300	20000	20900	25500	24800	33300	28700	28700	24500	23900
16	18200	18000	19800	19800	20900	25400	24700	32900	28700	28500	23800	23800
17	16800	18100	19000	22700	20900	25100	22600	33100	28700	28200	24100	22900
18	17100	18200	20300	22600	20900	25200	24600	33200	28800	28200	24500	21100
19	17100	18100	23900	22700	20700	25200	24600	34400	28800	28200	24500	23000
20	17600	18100	26100	22700	20700	25100	24700	35200	28500	28100	24200	23800
21	17400	18100	26200	22600	20700	25100	24800	35200	28000	28300	24000	23800
22	17300	17900	26400	22600	20500	25100	24900	35200	28000	28400	24100	24000
23	17200	18000	25600	23000	20500	25000	25000	35300	28000	28400	24100	24000
24	17400	18100	24700	23600	19800	25000	24900	35300	28000	28300	24300	24100
25	17200	18100	21200	24000	20600	24900	25000	35200	28100	28400	24300	24000
26	17100	18000	21200	24000	20900	24800	24800	35200	28100	28400	24400	23800
27	17400	17800	24400	21300	21700	24800	24900	35300	28000	28400	24400	23200
28	15100	17700	27100	19700	24800	24700	25000	35300	28000	27900	24400	23100
29	18800	17800	27100	19600	---	24700	25000	35300	28100	27500	24400	23200
30	18600	17800	26400	17500	---	24700	24900	35400	28200	27400	24400	19800
31	18400	---	25100	17300	---	24900	---	35300	---	27400	24300	---
TOTAL	573100	543500	641700	688000	559600	769500	744100	991400	877500	877200	794000	709000
MEAN	18490	18120	20700	22190	19990	24820	24800	31980	29250	28300	25610	23630
MAX	20500	18600	27100	25000	24800	25500	25300	35400	35500	28700	28200	24400
MIN	15100	17700	16300	17300	14000	22900	22600	24800	26900	27400	23800	19800
AC-FT	1137000	1078000	1273000	1365000	1110000	1526000	1476000	1966000	1741000	1740000	1575000	1406000
CAL YR	1985	TOTAL	8755100	MEAN	23990	MAX	29000	MIN	15100	AC-FT	17370000	
WTR YR	1986	TOTAL	8768600	MEAN	24020	MAX	35500	MIN	14000	AC-FT	17390000	

COLORADO RIVER MAIN STEM

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1949 to October 1969, April 1970 to September 1985, April to September 1986.

CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: July to October 1969, April 1970 to September 1985, and April to September 1986, monthly.

WATER TEMPERATURES: March 1949 to June 1969, variable frequency of measurement; July to October 1969, April 1970 to September 1985, and April to September 1986, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE JULY 1969.--

SPECIFIC CONDUCTANCES: Maximum, 1,290 microsiemens Jan. 12, 1971; minimum, 840 microsiemens June 25, July 14, Aug. 13, and Sept. 3, 1986.

WATER TEMPERATURES: Maximum, 22.0°C Aug. 2, 1983; minimum, 8.0°C Feb. 14, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)	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)	HARD- NESS NONCARB WH WAT TOT FLD (MG/L AS CaCO3)
APR 10...	1430	24600	880	7.70	31.0	16.0	765	9.9	100	250	120
MAY 13...	1200	33900	850	7.90	32.0	16.5	750	9.6	100	270	140
JUN 25...	1540	28000	840	7.80	43.0	18.0	746	8.7	94	260	140
JUL 14...	1530	28600	840	7.80	33.5	18.0	750	8.4	90	260	140
AUG 13...	1200	24600	840	8.00	43.0	19.5	748	8.4	93	260	150
SEP 03...	1100	24000	840	7.80	34.0	20.0	750	8.1	91	270	140

COLORADO RIVER MAIN STEM

91

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 FET-FLD (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)
APR 10...	64	23	73	2	3.6	162	0	133	230	58	0.30
MAY 13...	69	23	69	2	3.6	156	0	126	220	51	0.30
JUN 25...	65	23	70	2	3.7	149	0	120	220	58	0.30
JUL 14...	66	23	71	2	3.7	151	0	122	220	57	0.30
AUG 13...	65	24	70	2	3.8	137	0	111	210	55	0.30
SEP 03...	68	25	73	2	3.6	156	0	123	210	55	0.30

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, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
APR 10...	8.5	533	540	0.72	<0.010	0.300	0.280	0.040	0.36	0.40
MAY 13...	8.7	537	520	0.73	<0.010	0.300	0.280	0.030	0.27	0.30
JUN 25...	8.6	535	520	0.73	<0.010	0.300	0.290	0.020	0.28	0.30
JUL 14...	8.9	539	520	0.73	<0.010	0.300	0.290	0.040	0.36	0.40
AUG 13...	8.9	529	500	0.72	<0.010	0.300	0.310	<0.010	--	0.20
SEP 03...	9.4	508	520	0.69	<0.010	0.200	0.230	<0.010	--	0.30

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	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)
APR 10...	0.70	3.1	<0.010	<0.010	<0.010	--	--	110	--	--
MAY 13...	0.60	2.7	<0.010	<0.010	<0.010	--	--	100	--	--
JUN 25...	0.60	2.7	0.010	<0.010	<0.010	--	--	100	--	--
JUL 14...	0.70	3.1	<0.010	0.020	0.010	--	--	100	--	--
AUG 13...	0.50	2.2	0.010	<0.010	<0.010	2	100	100	<1	<10
SEP 03...	0.50	2.2	0.020	<0.010	0.020	--	--	100	--	--

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 10...	--	6	--	--	--	--	--	--	--	--
MAY 13...	--	60	--	--	--	--	--	--	--	--
JUN 25...	--	4	--	--	--	--	--	--	--	--
JUL 14...	--	7	--	--	--	--	--	--	--	--
AUG 13...	<10	18	<5	0.1	4	4	2	<1	1	3
SEP 03...	--	4	--	--	--	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
AUG 13...	1400	<0.1	1.0	0.1	0.1	0.1	<0.1	<0.1	<0.1
DATE		HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
AUG 13...		<0.1	<0.1	<0.1	<0.1	<0.1	4	<1.0	<10

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, and 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.--Estimated daily discharges: Nov. 10-13, 18-21, 23-25, 27, 28, Nov. 30 to Dec. 2, and Dec. 5 to Feb. 19. 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 ft³/s, Feb. 19, 1986, gage height, 4.35 ft; minimum daily, 0.81 ft³/s, Aug. 8, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*), from rating curve extended above 350 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	1900	*384	*4.35	Apr. 1	1600	60	1.71
Feb. 23	2000	374	4.26	Apr. 8	2200	57	1.68
Mar. 8	2200	105	2.18				

Minimum daily discharge, 1.3 ft³/s, Aug. 4, 6, 7, 9-13, 18.

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	2.2	2.8	e4.5	e3.8	e5.9	96	55	23	25	3.0	1.5	1.8
2	2.2	2.8	e4.6	e4.1	e5.7	100	51	23	20	2.9	1.5	1.8
3	2.1	2.8	4.8	e4.0	e5.5	97	44	25	17	2.6	1.4	1.8
4	2.1	2.8	5.9	e4.0	e5.1	85	40	32	15	2.4	1.3	1.8
5	2.1	2.8	e6.3	e3.9	e4.9	81	36	35	15	2.5	1.4	1.7
6	2.3	2.8	e5.1	e3.8	e4.9	76	34	35	13	2.9	1.3	1.7
7	2.6	2.8	e4.4	e3.8	e4.6	78	34	34	12	3.0	1.3	1.9
8	2.7	2.9	e4.2	e3.9	e4.5	92	45	30	14	2.8	1.4	2.1
9	2.6	3.1	e3.7	e4.0	e4.4	93	49	25	12	2.5	1.3	2.4
10	2.5	e2.9	e3.5	e4.0	e4.5	84	39	23	11	2.5	1.3	2.4
11	2.6	e2.8	e3.4	e4.0	e4.6	69	36	22	9.0	2.3	1.3	2.3
12	2.7	e2.7	e3.4	e4.1	e5.0	62	35	20	8.0	2.2	1.3	2.2
13	2.6	e2.7	e3.4	e4.2	e5.4	55	35	20	8.0	2.0	1.3	2.2
14	2.6	2.7	e3.3	e4.4	e6.0	45	32	20	7.3	1.8	1.4	2.5
15	2.6	2.8	e3.3	e4.9	e270	39	32	21	6.8	1.8	1.4	2.7
16	2.5	3.4	e3.3	e5.3	e250	38	30	22	6.1	1.8	1.4	2.5
17	2.5	2.6	e3.4	e5.7	e280	36	29	22	5.6	1.9	1.4	2.6
18	2.6	e2.8	e3.4	e6.1	e320	27	27	22	5.5	1.9	1.3	2.7
19	2.5	3.0	e3.4	e5.9	e360	26	25	22	5.1	1.7	1.4	3.2
20	2.5	2.5	e3.4	e5.6	191	24	24	23	5.1	1.7	1.7	3.2
21	2.5	e4.6	e3.5	e5.0	110	23	25	24	4.8	1.6	1.9	2.9
22	2.6	5.0	e3.6	e4.3	74	23	28	26	4.6	1.5	1.8	2.9
23	3.3	e4.8	e3.7	e3.9	205	25	32	23	4.4	1.8	1.7	2.8
24	3.5	e4.8	e3.7	e3.8	245	27	36	21	4.2	2.1	1.6	2.8
25	3.0	e4.7	e3.8	e4.0	214	28	36	19	4.1	2.0	1.6	3.3
26	2.8	5.7	e3.8	e4.0	173	29	34	19	3.9	2.0	1.5	3.3
27	2.8	e7.0	e3.8	e4.1	130	32	29	19	3.7	2.2	1.5	3.3
28	2.6	e6.4	e3.8	e5.0	106	35	29	19	3.4	2.0	1.6	3.3
29	2.6	4.3	e3.7	e5.6	---	39	26	19	3.2	1.7	1.9	3.2
30	2.6	e4.4	e3.5	e6.0	---	44	23	19	3.2	1.7	1.8	3.3
31	2.6	---	e3.6	e6.1	---	52	---	20	---	1.6	1.7	---
TOTAL	80.0	108.2	121.2	141.3	3053.0	1660	1030	727	260.0	66.4	46.2	76.6
MEAN	2.58	3.61	3.91	4.56	109	53.5	34.3	23.5	8.67	2.14	1.49	2.55
MAX	3.5	7.0	6.3	6.1	360	100	55	35	25	3.0	1.9	3.3
MIN	2.1	2.5	3.3	3.8	4.4	23	23	19	3.2	1.5	1.3	1.7
AC-FT	159	215	240	280	6060	3290	2040	1440	516	132	92	152

WTR YR 1986 TOTAL 7369.9 MEAN 20.2 MAX 360 MIN 1.3 AC-FT 14620

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.

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

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

REMARKS.--Records good for discharges between 0.1 and 20 ft³/s, records fair for discharges below 0.1 ft³/s, above 20 ft³/s, and for estimated daily discharges. Diversions for irrigation above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 691 ft³/s, Feb. 17, 1986, gage height, 7.73 ft, on basis of rating curve extended above slope-area measurement of 234 ft³/s; minimum daily, 0.01 ft³/s, July 13-22, July 26 to Aug. 9, Sept. 3-16, Sept. 18-21, and Oct. 1, 2, and 6, all recorded during 1985.

EXTREMES FOR CURRENT YEAR.--Peaks above base discharge of 20 ft³/s and maximum (*), from rating curve extended above 16 ft³/s on basis of slope-area measurement of 234 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	1300	54	1.55	Apr. 9	0400	112	3.38
Feb. 17	2200	*691	*7.73	Apr. 26	1600	32	2.37
Feb. 24	2100	224	4.37	May 7	1100	40	2.52

Minimum daily discharge, 0.01 ft³/s, Oct. 1, 2, 6.

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	.01	.06	.09	.08	10	97	27	16	2.8	.04	.03	.02
2	.01	.06	.11	.09	7.2	88	35	14	2.8	.04	.03	.02
3	.03	.06	.12	.10	4.2	84	34	12	2.6	.04	.03	.02
4	.02	.05	.12	.10	3.0	81	32	11	2.3	.04	.03	.02
5	.02	.06	.11	.11	2.8	73	30	12	1.9	.03	.03	.02
6	.01	.04	.12	.12	2.9	69	28	23	1.5	.04	.03	.02
7	.02	.05	.13	.13	2.3	66	36	38	1.1	.04	.03	.02
8	.02	.05	.15	.12	2.6	69	76	36	1.1	.03	.03	.02
9	.02	.06	.17	.10	1.8	74	90	27	1.1	.03	.03	.02
10	.03	.06	.17	.10	2.4	78	58	20	.86	.03	.03	.03
11	.03	.07	e.16	.12	3.1	73	43	17	.64	.03	.03	.03
12	.03	.06	e.15	.10	2.8	67	33	15	e.44	.03	.03	.03
13	.03	.08	.14	.11	2.9	62	31	13	e.36	.03	.03	.03
14	.03	.06	.14	e.10	48	56	28	12	e.36	.03	.03	.02
15	.03	.06	.12	e.10	250	46	26	11	e.26	.02	.02	.03
16	.03	.07	.09	e.10	248	54	23	9.9	e.20	.02	.02	.04
17	.04	.07	.09	e.22	249	49	21	9.3	e.14	.02	.02	.03
18	.05	.06	.09	13	293	35	19	9.1	e.10	.02	.02	.03
19	.06	.04	.08	3.0	147	21	18	8.7	e.06	.02	.02	.03
20	.05	.04	.07	.89	240	15	17	8.1	.05	.02	.06	.03
21	.04	.03	.06	e.13	154	16	16	7.6	.05	.02	.09	.03
22	.04	.02	.05	e.10	109	16	16	7.4	.05	.02	.03	.03
23	.04	.02	.05	e.10	74	17	15	7.4	.05	.03	.03	.03
24	.04	.02	.07	e.12	134	17	16	7.9	.05	.03	.03	.04
25	.04	.06	.05	.44	190	17	20	7.7	.05	.02	.03	.05
26	.03	.04	.04	.66	172	17	30	6.8	.05	.03	.03	.04
27	.03	.05	.03	.90	147	18	27	6.0	.04	.03	.02	.04
28	.04	.06	.03	1.2	116	19	25	5.0	.04	.03	.02	.04
29	.05	.07	.02	1.4	---	19	27	4.2	.04	.03	.02	.04
30	.04	.09	.05	2.7	---	20	21	3.5	.04	.03	.02	.08
31	.05	---	.07	7.3	---	22	---	2.9	---	.03	.02	---
TOTAL	1.01	1.62	2.94	33.84	2619.0	1455	918	388.5	21.13	.90	.92	.93
MEAN	.03	.05	.09	1.09	93.5	46.9	30.6	12.5	.70	.03	.03	.03
MAX	.06	.09	.17	13	293	97	90	38	2.8	.04	.09	.08
MIN	.01	.02	.02	.08	1.8	15	15	2.9	.04	.02	.02	.02
AC-FT	2.0	3.2	5.8	67	5190	2890	1820	771	42	1.8	1.8	1.8

WTR YR 1986 TOTAL 5443.71 MEAN 14.9 MAX 293 MIN .01 AC-FT 10800

e Estimated.

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.

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Dake Reservoir. Diversions for irrigation above Dake Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93 ft³/s, Feb. 15, 1986, gage height, 2.81 ft; from rating curve extended above 22 ft³/s; minimum daily discharge, 0.11 ft³/s, Aug. 18, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*), from rating curve extended above 22 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 15	1900	93	*2.81	Apr. 11	0800	44	2.18
Mar. 17	0800	44	2.19	Apr. 25	1600	34	2.01

Minimum daily discharge, 0.11 ft³/s, Aug. 18.

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	.98	1.3	e1.4	e1.2	e1.6	2.2	16	21	1.7	.38	.26	.68
2	.94	1.3	e1.4	e1.3	e1.5	2.4	14	20	1.5	.34	.23	.66
3	.91	1.4	e1.4	e1.2	e1.5	2.3	14	19	1.6	.36	.20	.60
4	.88	1.4	e1.4	e1.2	e1.5	2.3	14	17	1.7	.20	.26	.54
5	.94	1.3	e1.4	e1.1	e1.5	2.5	14	15	1.9	.28	.25	.53
6	1.0	1.3	1.5	e1.2	e1.3	2.4	14	16	1.8	.41	.19	.61
7	1.2	1.4	1.3	e1.2	e1.2	3.9	16	16	2.1	.38	.30	.78
8	1.3	1.5	1.5	e1.3	e1.1	16	23	17	2.7	.38	.38	.82
9	1.3	1.5	1.2	e1.2	e1.0	26	35	17	2.1	.36	.26	1.3
10	1.2	e1.3	1.1	e1.3	e1.1	30	42	17	1.9	.35	.21	1.8
11	1.2	e1.2	e1.2	e1.4	e1.1	32	43	15	1.5	.39	.19	1.2
12	1.1	e1.2	1.2	e1.4	e1.2	33	41	14	1.3	.33	.19	1.1
13	1.1	e1.2	1.0	e1.4	2.2	36	42	12	1.2	.26	.12	.99
14	1.1	e1.2	e1.0	e1.4	2.8	38	40	11	1.1	.24	.18	.92
15	1.1	e1.2	e1.1	e1.5	41	38	38	9.3	1.0	.63	.18	.88
16	1.1	e1.3	e1.0	e1.6	23	41	35	8.1	.83	.94	.13	.85
17	1.1	e1.3	e1.0	e1.5	8.7	43	32	6.8	.63	.57	.14	.97
18	1.0	e1.2	e1.0	e1.5	7.0	40	30	5.9	.53	.44	.11	1.4
19	1.1	e1.1	e1.1	e1.5	5.6	40	28	5.1	.52	.33	.16	1.6
20	1.1	e1.1	e1.1	e1.4	3.3	38	26	4.5	.57	.27	.32	1.7
21	1.1	e1.2	e1.1	e1.3	2.5	36	24	4.3	.50	.22	.65	1.4
22	1.2	e1.2	e1.0	e1.3	2.6	34	23	4.0	.56	.23	.42	1.4
23	1.3	e1.2	e1.0	e1.2	3.7	32	23	3.5	.50	.29	.47	1.3
24	1.1	e1.2	e1.1	e1.1	2.8	29	28	3.0	.56	.75	.45	1.4
25	1.1	e1.2	e1.2	e1.2	2.6	26	33	2.5	.64	1.0	.70	2.0
26	1.2	e1.3	e1.2	e1.2	2.5	23	31	2.2	.49	.93	.68	1.9
27	1.2	e1.3	e1.1	e1.3	2.3	21	28	1.8	.43	.76	.91	1.7
28	1.2	e1.3	e1.1	e1.4	2.2	19	26	1.7	.41	.59	.68	1.5
29	1.2	e1.3	e1.1	e1.6	---	18	25	1.6	.40	.34	.88	1.6
30	1.3	e1.3	e1.2	e1.7	---	17	23	1.6	.36	.30	1.1	2.1
31	1.3	---	e1.2	e1.6	---	17	---	1.6	---	.30	.78	---
TOTAL	34.85	38.2	36.6	41.7	130.4	741.0	821	294.5	33.03	13.55	11.98	36.23
MEAN	1.12	1.27	1.18	1.35	4.66	23.9	27.4	9.50	1.10	.44	.39	1.21
MAX	1.3	1.5	1.5	1.7	41	43	43	21	2.7	1.0	1.1	2.1
MIN	.88	1.1	1.0	1.1	1.0	2.2	14	1.6	.36	.20	.11	.53
AC-FT	69	76	73	83	259	1470	1630	584	66	27	24	72

WTR YR 1986 TOTAL 2233.01 MEAN 6.12 MAX 43 MIN .11 AC-FT 4430

e Estimated.

THE GREAT BASIN

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'50", long 114°32'20", in NW1/4 sec.34, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060003, on right bank 2 mi downstream from North Fork, 4 mi southwest of Cleveland Ranch headquarters, and 18 mi east of Ely.

DRAINAGE AREA.--31.8 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,200 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 1/4 mi upstream, at different datum. Prior to Apr. 18, 1985, at different datum. Prior to Oct. 4, 1985, at datum 2.00 ft lower.

REMARKS.--Records fair. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--18 years (1915-16, 1960-67, 1977-81, 1984-86), 10.6 ft³/s, 7,680 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 4	1100	*35	*4.62	May 21	0630	35	4.60

Minimum daily, 6.7 ft³/s, Dec. 17, 18.

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	7.9	e7.8	9.3	7.6	e8.0	e12	24	26	28	13	10	8.5
2	7.9	7.9	9.6	7.6	e7.9	e12	24	27	27	13	10	8.5
3	8.1	7.9	9.3	7.6	e7.8	e13	24	29	26	13	10	8.4
4	7.9	7.9	9.3	7.5	e7.8	e13	23	33	26	12	10	8.3
5	8.1	8.1	9.3	7.7	e7.8	e14	22	32	25	12	10	8.3
6	9.0	8.1	9.3	7.8	e7.8	e14	22	31	24	12	9.7	8.3
7	12	7.9	9.6	7.5	e7.9	e14	23	30	23	12	9.6	8.5
8	9.6	7.9	9.6	7.7	e8.0	e14	23	28	23	12	9.5	8.6
9	9.9	8.1	9.3	7.6	e8.0	e14	22	26	21	12	9.5	8.8
10	9.6	8.1	8.4	7.7	e8.0	e14	22	25	20	11	9.6	8.8
11	9.6	9.0	7.6	7.8	e8.0	e14	22	24	19	11	9.5	8.7
12	9.6	8.4	7.1	7.8	e8.0	e14	22	24	19	11	9.5	8.8
13	9.6	8.4	8.1	7.9	e8.0	14	22	24	19	11	9.4	8.6
14	9.3	8.1	8.1	7.9	e8.0	14	22	24	18	11	9.0	8.8
15	8.4	8.4	7.5	7.9	e8.0	14	22	25	17	11	9.1	8.8
16	8.4	8.4	7.0	7.9	e8.1	14	22	25	17	12	8.9	9.3
17	8.1	8.7	6.7	7.9	e8.3	14	22	25	17	12	8.9	9.9
18	8.4	8.4	6.7	7.9	e8.5	13	21	26	16	12	9.0	10
19	8.4	8.1	6.8	8.1	e8.9	13	21	28	16	12	9.0	10
20	8.4	8.7	6.9	8.3	e9.2	13	21	30	15	12	9.6	10
21	8.1	8.1	7.1	8.4	e9.5	14	21	33	15	11	9.5	11
22	8.4	8.4	7.3	8.4	e9.6	15	24	33	15	12	9.2	11
23	8.4	8.1	7.3	8.4	e9.6	16	26	32	14	12	8.8	11
24	e8.4	8.7	7.3	8.3	e9.8	17	26	30	14	12	8.7	11
25	e8.4	8.7	7.4	8.3	e10	18	26	30	14	11	8.7	11
26	e8.0	8.7	7.3	e8.3	e10	18	26	30	14	11	8.4	10
27	e8.0	9.0	7.3	e8.1	e11	19	25	30	13	11	8.3	9.9
28	e8.0	9.0	7.3	e8.3	e11	21	24	30	13	11	8.5	9.8
29	e8.0	9.3	7.3	e8.5	---	22	24	29	13	10	9.8	9.8
30	e8.0	9.3	7.6	e8.4	---	23	25	29	13	10	9.0	9.7
31	e7.8	---	7.6	e8.2	---	23	---	29	---	10	8.6	---
TOTAL	267.7	251.6	246.3	247.3	242.5	477	693	877	554	358	287.3	282.1
MEAN	8.64	8.39	7.95	7.98	8.66	15.4	23.1	28.3	18.5	11.5	9.27	9.40
MAX	12	9.3	9.6	8.5	11	23	26	33	28	13	10	11
MIN	7.8	7.8	6.7	7.5	7.8	12	21	24	13	10	8.3	8.3
AC-FT	531	499	489	491	481	946	1370	1740	1100	710	570	560

CAL YR 1985 TOTAL 4341.0 MEAN 11.9 MAX 29 MIN 6.7 AC-FT 8610
WTR YR 1986 TOTAL 4783.8 MEAN 13.1 MAX 33 MIN 6.7 AC-FT 9490

e Estimated.

STEPTOE VALLEY BASIN

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 1985 TO SEPTEMBER 1986

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 SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO ₃)
NOV 20...	0930	5.0	340	8.50	-1.5	4.5	0.50	10.2	104	<2	K10	190
MAR 20...	0845	7.2	348	8.50	6.0	5.0	0.70	10.0	102	<2	K4	200
MAY 27...	1340	24	335	8.40	29.0	9.5	1.0	9.2	103	K6	K10	180
AUG 28...	1120	8.2	318	8.50	23.0	9.0	0.40	9.4	103	K2	--	180

K: NON-IDEAL COLONY COUNT.

STEPTOE VALLEY BASIN

99

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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- LITY, CARBON- ATE IT-FLD (MG/L AS CAO3)	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 20...	58	12	2.1	0.1	0.60	214	10	191	9.1	1.2	0.10	7.3
MAR 20...	61	11	2.3	0.1	0.80	227	4	193	13	1.4	<0.10	7.5
MAY 27...	60	6.9	2.1	0.1	0.60	199	3	169	8.7	1.1	0.10	7.4
AUG 28...	55	11	2.1	0.1	0.60	197	5	171	9.3	1.2	<0.10	7.1

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 20...	184	210	0.25	0.180	0.010	0.190	0.030	0.030	0.17	0.20	0.040	0.030
MAR 20...	203	210	0.28	--	<0.010	0.220	0.020	<0.010	0.38	0.40	0.010	<0.010
MAY 27...	188	190	0.26	--	<0.010	0.160	0.010	<0.010	0.39	0.40	0.040	0.020
AUG 28...	--	190	0.26	--	<0.010	0.140	0.020	0.030	0.28	0.30	0.030	0.010

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 20...	0.010	10	1	49	<0.5	<1	1	<3	1	10	<1	5
MAR 20...	<0.010	<10	2	47	<0.5	<1	<1	<3	<1	4	<1	6
MAY 27...	<0.010	--	--	--	--	--	--	--	--	--	--	--
AUG 28...	<0.010	--	--	--	--	--	--	--	--	--	--	--

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 20...	<1	0.1	<10	1	<1	<1	84	<6	--	47	0.38
MAR 20...	<1	<0.1	<10	<1	<1	<1	93	<6	9	10	0.19
MAY 27...	--	--	--	--	--	--	--	--	--	67	4.4
AUG 28...	--	--	--	--	--	--	--	--	--	14	0.31

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 20...	0930	3.0	<1.2	<0.5	<1.2	<0.6	<0.9	<0.6	0.08	0.42

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 mi².

PERIOD OF RECORD.--October 1985 to September 1986.

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

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 130 ft³/s, gage height, unknown, Mar. 16, 1986; minimum daily, 0.07 ft³/s, June 16, 1986.

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	14	52	70	80	99	e88	e62	62	10	.16	.45	e1.2
2	15	53	70	85	98	e92	e76	59	8.9	.15	.41	e1.2
3	16	54	70	88	97	e94	74	54	7.8	.11	.50	1.4
4	16	56	71	91	94	e98	74	50	6.6	.19	.47	1.8
5	17	57	72	89	91	e100	77	48	5.5	.18	.48	1.6
6	18	57	73	96	89	e102	77	51	4.8	.15	.61	1.6
7	22	58	70	100	89	e103	76	54	3.5	.17	.55	1.6
8	26	59	69	97	94	e105	75	57	2.2	.17	.63	1.4
9	30	60	67	96	91	e112	77	59	1.4	.17	.62	1.6
10	34	55	71	95	97	e115	74	59	.82	.17	.81	1.6
11	36	66	65	95	95	e116	71	58	.49	.10	.61	1.3
12	39	46	59	96	92	e111	69	57	.28	.12	.81	1.3
13	42	41	49	96	94	e108	71	54	.19	.13	.81	1.2
14	44	27	48	95	95	e108	74	51	.22	.18	.92	1.1
15	45	e23	47	97	101	e116	75	50	.08	.14	.81	1.2
16	46	e22	53	98	103	e130	77	49	.07	.20	.93	.98
17	45	e21	53	99	107	e126	79	47	.15	.21	1.0	.86
18	43	e21	53	100	106	e105	77	46	.16	.24	1.0	.90
19	41	e20	53	101	106	e74	73	43	.20	.22	1.0	.88
20	40	e21	53	103	109	e67	69	40	.22	.23	1.1	.82
21	40	e23	54	104	108	e66	65	37	.17	.25	1.0	1.1
22	40	28	55	103	107	e64	62	33	.16	.34	1.3	1.3
23	42	38	58	101	105	e64	62	31	.17	.32	1.1	2.0
24	42	44	61	99	97	e62	76	28	.17	.27	e1.2	4.3
25	45	51	61	96	84	e68	85	25	.17	.27	e1.3	10
26	47	54	61	95	e79	e50	84	23	.13	.30	e1.4	16
27	48	59	64	94	e80	e36	82	21	.12	.32	e1.4	15
28	49	60	63	95	e83	e38	78	18	.12	.37	e1.4	16
29	50	63	66	96	---	e37	72	16	.17	.40	e1.4	22
30	52	68	68	98	---	e33	66	14	.17	.41	e1.3	34
31	52	---	75	99	---	e54	---	12	---	.44	e1.3	---
TOTAL	1136	1357	1922	2977	2690	2642	2209	1306	55.13	7.08	28.62	147.24
MEAN	36.6	45.2	62.0	96.0	96.1	85.2	73.6	42.1	1.84	.23	.92	4.91
MAX	52	68	75	104	109	130	85	62	.10	.44	1.4	34
MIN	14	20	47	80	79	33	62	12	.07	.10	.41	.82
AC-FT	2250	2690	3810	5900	5340	5240	4380	2590	109	14	57	292

WTR YR 1986 TOTAL 16476.96 MEAN 45.1 MAX 130 MIN .07 AC-FT 32680

e Estimated.

STEPTOE VALLEY BASIN

10245040 GOSHUTE CREEK NEAR CHERRY CREEK, NV

LOCATION.--Lat 40°03'05", long 114°47'58", in SW1/4 sec.12, T.9 S., R.64 E., in White Pine County, Hydrologic Unit 16060008, 11 mi north of Cherry Creek.

DRAINAGE AREA.--9.67 mi².

PERIOD OF RECORD.--December 1982 to September 1985, December 1985 to July 1986 (discontinued).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 245 ft³/s, May 29, 1983, gage height, 2.37 ft, site then in use; maximum gage height, 2.64 ft, May 14, 1984, present datum; minimum daily, 0.92 ft³/s, many days in January and February 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft³/s, May 27, gage-height, 2.16 ft; minimum daily, 0.92 ft³/s, many days in January and February.

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	---	---	e1.3	1.0	.92	1.0	1.9	9.8	13	4.1	---	---
2	---	---	e1.3	1.0	.92	1.0	2.4	10	12	3.6	---	---
3	---	---	e1.3	1.0	.92	1.0	2.5	12	11	3.1	---	---
4	---	---	e1.3	1.0	.92	1.0	2.6	13	11	2.8	---	---
5	---	---	e1.3	1.0	.92	1.0	2.9	11	11	2.5	---	---
6	---	---	e1.3	1.2	.92	1.1	3.0	9.9	11	2.8	---	---
7	---	---	e1.3	1.2	1.0	1.1	3.0	10	9.9	2.6	---	---
8	---	---	e1.3	1.0	1.0	1.4	3.0	10	9.2	2.5	---	---
9	---	---	e1.3	1.0	.99	1.5	3.0	9.5	9.1	2.5	---	---
10	---	---	e1.3	1.0	1.0	1.5	3.0	9.4	8.4	2.5	---	---
11	---	---	e1.3	1.0	1.0	1.5	3.0	9.1	8.1	2.5	---	---
12	---	---	e1.3	1.0	1.0	1.5	3.4	9.0	7.4	2.5	---	---
13	---	---	e1.2	.96	1.0	1.5	3.5	9.1	7.0	2.6	---	---
14	---	---	e1.2	.92	1.0	1.5	3.4	9.5	7.0	2.5	---	---
15	---	---	e1.1	.92	1.0	1.6	3.4	9.5	6.6	e2.5	---	---
16	---	---	1.1	.92	1.0	1.8	3.8	9.6	6.2	e2.5	---	---
17	---	---	1.1	.92	1.0	1.9	3.8	9.6	5.5	e2.5	---	---
18	---	---	1.1	.92	1.0	1.9	3.8	9.3	5.3	e2.5	---	---
19	---	---	1.1	.92	1.0	1.8	3.7	6.9	5.4	e2.5	---	---
20	---	---	1.1	.93	1.0	1.8	3.7	9.9	5.2	e2.5	---	---
21	---	---	1.1	.96	1.0	1.8	3.9	13	4.4	e2.5	---	---
22	---	---	1.0	.92	1.0	1.8	4.5	13	3.8	e2.4	---	---
23	---	---	1.0	.92	1.0	1.9	6.1	12	3.5	e2.3	---	---
24	---	---	1.0	.92	1.0	1.9	6.6	12	4.0	e2.3	---	---
25	---	---	1.0	.92	1.0	1.8	6.5	12	4.6	e2.3	---	---
26	---	---	1.0	.92	1.0	1.7	6.6	12	4.8	e2.3	---	---
27	---	---	1.0	.92	1.0	1.7	6.7	14	4.4	e2.3	---	---
28	---	---	1.0	.92	1.0	1.8	7.5	14	4.5	e2.2	---	---
29	---	---	1.0	.92	---	1.7	10	13	4.6	e2.2	---	---
30	---	---	1.0	.92	---	1.7	9.8	13	4.3	e2.2	---	---
31	---	---	1.0	.92	---	1.8	---	13	---	e2.2	---	---
TOTAL	---	---	35.7	29.97	27.51	48.0	131.0	337.1	212.2	79.3	---	---
MEAN	---	---	1.15	.97	.98	1.55	4.37	10.9	7.07	2.56	---	---
MAX	---	---	1.3	1.2	1.0	1.9	10	14	13	4.1	---	---
MIN	---	---	1.0	.92	.92	1.0	1.9	6.9	3.5	2.2	---	---
AC-FT	---	---	71	59	55	95	260	669	421	157	---	---

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, and 4.5 mi southwest of Illipah, 6.7 mi northeast of Hamilton, and 28 mi northwest of Ely.

DRAINAGE AREA.--31.5 mi².

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 ft³/s, Aug. 22, 1984, gage height, 6.05 ft; minimum daily, 1.1 ft³/s, Feb. 5, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s, Mar. 8, 1986, gage height, 2.03 ft; maximum gage height, 2.33 ft (backwater from ice); minimum daily, 1.1 ft³/s, Feb. 5.

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	4.7	5.3	e4.5	e3.5	3.0	5.5	6.6	4.4	4.5	5.1	4.7	4.7
2	4.4	5.4	e4.5	e3.5	4.1	4.9	4.9	4.6	5.1	5.0	4.5	4.7
3	4.7	5.4	e4.5	e3.5	3.3	4.5	4.8	4.8	5.3	4.1	4.5	5.2
4	4.4	5.8	e4.5	e3.5	3.0	3.8	4.3	5.4	5.0	4.3	4.6	5.5
5	4.8	5.9	e4.5	e3.5	2.9	3.9	4.9	5.2	4.5	4.2	4.5	5.6
6	4.8	5.5	e4.5	e3.5	e3.0	4.0	4.4	5.5	4.5	4.9	4.5	5.6
7	5.6	6.0	e4.5	e3.5	e3.1	4.0	4.3	5.1	4.4	4.7	4.4	5.7
8	5.1	5.5	e4.8	e3.5	e3.2	8.6	4.0	5.2	5.0	5.2	4.4	5.6
9	5.4	5.1	e4.9	e3.7	e3.3	5.0	4.0	5.2	5.2	5.2	4.2	6.3
10	5.4	e4.3	e5.2	e3.9	e3.5	3.6	4.0	5.1	5.0	6.2	4.4	6.0
11	5.3	3.9	e4.7	e4.0	e3.6	3.6	4.2	4.9	5.1	5.4	4.6	4.9
12	5.1	e4.0	e3.8	e4.2	e3.7	3.2	3.9	4.9	5.4	5.1	4.6	5.0
13	4.8	e3.8	e3.2	e4.3	e3.8	3.6	4.4	4.8	5.5	4.6	4.5	4.6
14	4.8	e3.6	e3.2	e4.5	e4.0	3.3	4.0	4.6	4.7	4.4	4.5	4.7
15	4.7	e3.4	e3.3	e4.6	e4.1	3.4	3.9	4.7	4.7	5.2	4.5	4.7
16	4.7	e3.2	e3.3	e4.5	4.3	3.3	4.7	5.0	5.0	5.3	4.6	4.7
17	4.7	e3.2	e3.3	e4.4	5.5	3.1	5.4	5.0	4.9	5.6	4.5	4.6
18	4.6	e3.2	e3.4	e4.4	4.5	3.6	4.8	5.2	4.4	5.6	4.5	4.6
19	4.6	e3.2	e3.4	e4.3	7.9	3.5	4.8	5.0	4.5	5.6	4.6	4.8
20	4.6	e3.3	e3.7	e4.2	3.1	4.2	4.7	4.6	4.9	5.7	4.8	5.1
21	4.7	e3.5	e3.6	e4.1	3.5	4.4	4.6	4.2	4.8	5.5	5.0	5.5
22	5.1	e3.7	e3.5	e4.0	2.7	4.7	5.2	5.0	5.1	6.0	5.0	5.6
23	4.8	e3.8	e3.5	3.9	2.7	4.1	5.5	5.0	4.6	6.2	4.6	5.7
24	5.0	e3.9	e3.5	4.2	3.1	4.1	6.6	4.8	4.8	5.9	4.5	5.8
25	4.8	e4.0	e3.5	4.2	3.9	4.1	5.1	4.7	4.6	5.6	4.6	6.2
26	4.8	e4.1	e3.5	3.7	4.5	4.1	5.0	4.6	4.3	5.2	4.8	5.0
27	4.9	e4.2	e3.5	3.6	4.8	4.2	5.0	4.8	4.0	4.9	4.6	4.7
28	4.9	e4.4	e3.5	3.2	4.4	4.2	4.6	5.1	4.5	4.7	4.6	4.8
29	5.3	e4.5	e3.5	3.0	---	4.3	4.5	5.1	4.5	4.7	4.6	5.1
30	5.7	e4.5	e3.5	3.8	---	4.2	4.2	4.8	4.2	4.7	4.6	4.9
31	5.4	---	e3.5	3.9	---	5.9	---	4.5	---	4.8	4.6	---
TOTAL	152.6	129.6	120.3	120.6	106.5	130.9	141.3	151.8	143.0	159.6	141.9	155.9
MEAN	4.92	4.32	3.88	3.89	3.80	4.22	4.71	4.90	4.77	5.15	4.58	5.20
MAX	5.7	6.0	5.2	4.6	7.9	8.6	6.6	5.5	5.5	6.2	5.0	6.3
MIN	4.4	3.2	3.2	3.0	2.7	3.1	3.9	4.2	4.0	4.1	4.2	4.6
AC-FT	303	257	239	239	211	260	280	301	284	317	281	309

CAL YR 1985 TOTAL 1732.0 MEAN 4.75 MAX 9.9 MIN 3.2 AC-FT 3440
WTR YR 1986 TOTAL 1654.0 MEAN 4.53 MAX 8.6 MIN 2.7 AC-FT 3280

e Estimated.

LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS

10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S1/2NE1/4 sec. 23, T.18 N., R.56 E., White Pine County, Hydrologic Unit 16060006, on left bank above culvert on U.S. Highway 50, 3.5 mi east of Pancake Summit, 14 mi northwest of Hamilton, and 19 mi east of Eureka.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--Water year 1962 (annual maximum), August 1962 to May 22, 1986 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 6,120 ft, from topographic map. October 1961 to August 1962, crest-stage gage at same site and datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--23 years, 0.298 ft³/s, 216 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 109 ft³/s, Feb. 14, gage height, 3.18 ft; no flow most of the time.

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	.00	.00	.00	.00	---	---	---	---
2	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
3	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
4	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
5	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
6	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
7	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
8	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
9	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
10	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
11	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
12	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
13	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
14	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
15	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
16	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
17	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
18	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
19	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
20	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
21	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
22	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
23	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
24	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
25	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
26	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
27	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
28	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
29	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
30	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
31	.00	---	.00	.00	.00	.00	.00	.00	---	---	---	---
TOTAL	.00	.00	.00	.00	40.24	.00	.00	---	---	---	---	---
MEAN	.00	.00	.00	.00	1.44	.00	.00	---	---	---	---	---
MAX	.00	.00	.00	.00	.22	.00	.00	---	---	---	---	---
MIN	.00	.00	.00	.00	.00	.00	.00	---	---	---	---	---
AC-FT	.0	.0	.0	.0	80	.0	.0	---	---	---	---	---

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 mi².

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

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

REMARKS.--No estimated daily discharges. Records good. No diversions above station.

AVERAGE DISCHARGE.--9 years, 6.76 ft³/s, 4,900 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft³/s, May 30, gage height, 2.25 ft; minimum daily, 0.89 ft³/s, Dec. 9.

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	1.6	1.1	.98	1.1	1.1	1.5	2.5	12	32	4.7	2.1	1.6
2	1.6	1.1	.98	1.1	1.1	1.5	2.5	13	31	4.6	2.1	1.6
3	1.6	1.1	.98	1.1	1.1	1.5	2.2	15	31	4.4	2.0	1.6
4	1.6	1.1	.98	1.1	1.1	1.5	2.2	17	32	4.1	2.0	1.6
5	1.6	1.1	.98	1.1	1.0	1.5	2.2	17	29	4.1	2.0	1.6
6	1.6	1.1	.98	1.1	1.1	1.5	2.2	16	24	4.0	1.9	1.6
7	1.5	1.1	.98	.98	1.1	1.5	2.2	14	22	3.8	1.7	1.5
8	1.5	1.1	.98	1.1	1.2	1.5	2.2	12	19	3.8	1.6	1.4
9	1.5	1.1	.89	1.1	1.2	1.6	2.2	11	17	3.6	1.6	1.4
10	1.5	.96	.90	1.1	1.1	1.6	2.2	11	15	3.5	1.8	1.4
11	1.5	.98	.93	1.1	1.1	1.6	2.2	9.9	13	3.4	2.1	1.5
12	1.5	.98	.98	1.1	1.1	1.6	2.4	9.6	13	3.2	1.8	1.6
13	1.4	.98	.98	1.1	1.1	1.4	2.4	9.8	12	3.1	1.7	1.6
14	1.4	.98	.98	1.1	1.1	1.5	2.4	10	11	3.1	1.7	1.6
15	1.3	.98	.98	1.1	1.2	1.5	2.4	11	11	3.0	1.6	1.6
16	1.3	.98	.98	1.1	1.2	1.6	2.4	12	9.8	3.0	1.6	1.5
17	1.3	.98	.98	1.1	1.2	1.6	2.4	13	9.6	3.0	1.7	1.5
18	1.3	.98	.98	1.1	1.2	1.5	2.4	15	9.4	2.8	1.7	1.5
19	1.3	.91	.98	1.1	1.2	1.5	2.4	18	8.9	2.8	1.7	1.6
20	1.3	.95	.98	1.1	1.3	1.5	3.3	21	8.2	2.7	2.2	1.6
21	1.3	.90	.98	.99	1.3	1.6	4.4	24	7.8	2.6	2.3	1.6
22	1.4	.90	.98	1.1	1.3	1.6	5.5	24	7.4	2.5	2.0	1.6
23	1.4	.90	.98	1.1	1.3	1.6	7.3	22	7.1	3.0	1.9	1.6
24	1.3	.90	.98	1.0	1.4	1.6	7.9	21	6.7	2.9	1.8	1.4
25	1.2	.90	1.0	1.1	1.4	1.6	8.0	23	6.4	2.8	1.9	1.6
26	1.1	.90	1.1	1.1	1.4	1.6	7.7	26	6.2	2.5	2.2	1.7
27	1.1	.93	1.1	1.1	1.5	1.7	7.7	29	5.9	2.5	2.1	1.7
28	1.1	.98	1.1	1.1	1.5	2.0	8.0	30	5.7	2.4	2.0	1.7
29	1.1	.98	1.1	1.1	---	2.0	9.0	30	5.3	2.3	2.0	1.7
30	1.1	.98	1.1	1.1	---	2.2	11	32	5.0	2.2	1.9	1.7
31	1.1	---	1.1	1.1	---	2.5	---	33	---	2.1	1.6	---
TOTAL	42.4	29.83	30.90	33.77	33.9	50.5	123.8	561.3	421.4	98.5	58.3	47.2
MEAN	1.37	.99	.997	1.09	1.21	1.63	4.13	18.1	14.0	3.18	1.88	1.57
MAX	1.6	1.1	1.1	1.1	1.5	2.5	11	33	32	4.7	2.3	1.7
MIN	1.1	.90	.89	.98	1.0	1.4	2.2	9.6	5.0	2.1	1.6	1.4
AC-FT	84	59	61	67	67	100	246	1110	836	195	116	92

CAL YR 1985	TOTAL 1433.91	MEAN 3.93	MAX 23	MIN .89	AC-FT 2840
WTR YR 1986	TOTAL 1531.79	MEAN 4.20	MAX 33	MIN .89	AC-FT 3040

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 mi².

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.--8 years (1977-82, 1984-86), 2.68 ft³/s, 1,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s, June 7, 1978, gage height, 3.55 ft; minimum daily, 0.09 ft³/s, Dec. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, gage height, unknown; minimum daily, 0.29 ft³/s, Oct. 26, Sept. 7.

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	.60	.54	.57	.57	.77	.77	.64	1.2	e4.5	e.93	.47	.34
2	.60	.53	.58	.57	.77	.82	.69	1.3	e4.4	e.90	.45	.37
3	.60	.54	.58	.57	.77	.77	.64	1.4	e4.4	e.86	.46	.32
4	.60	.49	.57	.56	.77	.77	.59	1.5	e4.6	e.82	.43	.32
5	.61	.51	.58	.55	.72	.77	.57	1.7	e4.3	e.80	.44	.37
6	.59	.52	.56	.57	.72	.77	.54	1.7	e3.9	e.79	.44	.37
7	.60	.54	.58	.59	.77	.82	.53	1.7	e3.5	e.76	.43	.29
8	.58	.55	.55	.61	.82	.82	.50	1.8	e3.3	e.76	.40	.32
9	.58	.57	.55	.61	.82	.77	.50	1.9	e3.0	e.71	.39	.32
10	.61	.55	.56	.61	.72	.77	.50	1.9	e2.8	e.69	.40	.32
11	.62	.56	e.54	.60	.72	.67	.47	2.0	e2.6	e.67	.43	.37
12	.61	.55	e.50	.61	.72	.67	.47	2.1	e2.4	e.64	.43	.34
13	.57	.51	e.50	.62	.72	.58	.47	2.1	e2.3	e.64	.41	.34
14	.58	.49	e.50	.62	.72	.58	.46	2.2	e2.2	e.64	.39	.34
15	.59	.54	.51	.67	.72	.58	.43	2.3	e2.1	e.64	.38	.34
16	.59	.53	.51	.72	.72	.58	.43	2.3	e2.0	e.63	.36	.37
17	.57	.51	.53	.72	.72	.58	.40	2.5	e1.9	e.62	.35	.37
18	.59	.52	e.54	.72	.72	.54	.40	2.8	e1.8	e.62	.34	.40
19	.53	.55	e.58	.77	.72	.54	.40	2.9	e1.7	e.62	.35	.43
20	.59	.56	e.58	.77	.72	.58	.44	e3.0	e1.6	e.61	.39	.43
21	.58	.52	e.58	.77	.72	.58	.51	e3.2	e1.5	.60	.50	.43
22	.57	.54	e.58	.77	.72	.54	.53	e3.3	e1.4	.55	.48	.47
23	.61	.55	e.58	.72	.77	.58	.54	e3.1	e1.4	.71	.42	.43
24	.63	.54	.56	.67	.72	.58	.65	e3.0	e1.3	.68	.37	.40
25	.61	.53	.56	.72	.67	.58	.61	e3.1	e1.3	.65	.37	.43
26	.53	.51	.56	.72	.67	.58	.55	e3.5	e1.2	.58	.37	.47
27	.58	.53	.58	.72	.72	.61	.65	e4.0	e1.1	.57	.40	.47
28	.58	.53	.56	.72	.77	.62	.99	e4.1	e1.1	.54	.40	.47
29	.59	.52	.57	.72	---	.63	1.0	e4.1	e1.1	.47	.37	.47
30	.57	.56	.58	.72	---	.67	1.1	e4.3	e1.0	.48	.37	.47
31	.54	---	.56	.72	---	.66	---	e4.6	---	.50	.34	---
TOTAL	18.20	15.99	17.24	20.60	20.61	20.38	17.20	80.6	71.7	20.68	12.53	11.58
MEAN	.59	.53	.56	.66	.74	.66	.57	2.60	2.39	.67	.40	.39
MAX	.63	.57	.58	.77	.82	.82	1.1	4.6	4.6	.93	.50	.47
MIN	.53	.49	.50	.55	.67	.54	.40	1.2	1.0	.47	.34	.29
AC-FT	36	32	34	41	41	40	34	160	142	41	25	23

CAL YR 1985 TOTAL 619.24 MEAN 1.70 MAX 8.6 MIN .49 AC-FT 1230
WTR YR 1986 TOTAL 327.31 MEAN .90 MAX 4.6 MIN .29 AC-FT 649

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 mi².

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.--9 years, 2.70 ft³/s, 1,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160 ft³/s, July 28, 1984, gage height, 4.06 ft; minimum, 0.12 ft³/s, Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.8 ft³/s, May 30, gage height, 0.82 ft; minimum daily, 0.21 ft³/s, Sept. 30.

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	.74	.93	1.1	.89	.96	1.1	1.6	1.8	2.7	.69	.31	.27
2	.74	.97	1.2	.87	.97	1.1	1.5	1.8	2.6	.64	.30	.26
3	.73	.94	1.1	.89	1.0	1.0	1.5	1.8	2.5	.59	.30	.25
4	.73	.95	1.0	.89	1.0	1.1	1.5	2.2	2.5	.57	.32	.24
5	.73	.94	1.0	.89	.92	1.1	1.5	2.3	2.4	.59	.32	.24
6	.72	.91	1.0	.89	.80	1.0	1.5	2.5	2.4	.58	.32	.24
7	.79	.90	1.1	.73	.84	1.1	1.5	2.4	2.3	.53	.32	.24
8	.80	.93	1.0	.81	.85	1.2	1.5	2.4	2.2	.52	.35	.24
9	.87	.88	.85	.89	.76	1.2	1.6	2.4	2.1	.49	.32	.24
10	.87	.73	.91	.90	.80	1.2	1.5	2.4	2.0	.48	.32	.24
11	.86	.75	.73	.87	.87	1.2	1.5	2.3	1.9	.43	.32	.24
12	.83	.80	.72	.87	.98	1.3	1.6	2.3	1.8	.42	.32	.24
13	.82	.78	.74	.86	1.0	1.1	1.6	2.2	1.7	.45	.32	.24
14	.81	.87	.77	.87	1.1	1.2	1.6	2.2	1.6	.39	.31	.24
15	.83	.91	.83	.89	1.2	1.2	1.6	2.2	1.5	.36	.32	.24
16	.84	.98	.92	.90	1.1	1.3	1.6	2.3	1.4	.35	.32	.24
17	.84	.97	.92	.91	1.2	1.4	1.6	2.3	1.3	.34	.32	.22
18	.85	.92	.92	.93	1.2	1.3	1.6	2.3	1.3	.33	.34	.22
19	.83	.81	.94	.95	1.2	1.3	1.6	2.4	1.3	.31	.35	.22
20	.83	.86	.93	.93	1.1	1.3	1.6	2.4	1.2	.29	.35	.22
21	.83	.93	.93	.90	1.1	1.3	1.6	2.5	1.1	.29	.34	.22
22	.85	1.0	.93	.96	1.1	1.4	1.6	2.4	1.1	.35	.32	.25
23	.89	1.0	.93	.94	1.1	1.4	1.6	2.6	1.0	.41	.32	.25
24	.87	1.0	.95	.88	1.0	1.4	1.8	2.5	.93	.37	.31	.24
25	.87	1.0	.93	.92	1.0	1.4	1.6	2.6	.89	.38	.30	.22
26	.87	1.0	.93	.95	1.1	1.4	1.6	2.6	.85	.36	.30	.22
27	.88	1.1	.95	.95	1.1	1.4	1.7	2.6	.82	.34	.30	.22
28	.89	1.2	.96	.94	1.1	1.4	1.8	2.7	.77	.32	.29	.22
29	.91	1.2	.97	.95	---	1.4	1.6	2.7	.75	.33	.28	.22
30	.93	1.1	.94	.97	---	1.5	1.8	2.6	.73	.31	.28	.21
31	.94	---	.90	.97	---	1.5	---	2.6	---	.32	.28	---
TOTAL	25.79	28.26	29.00	27.96	28.45	39.2	47.8	73.3	47.64	13.13	9.77	7.05
MEAN	.83	.94	.94	.90	1.02	1.26	1.59	2.36	1.59	.42	.32	.23
MAX	.94	1.2	1.2	.97	1.2	1.5	1.8	2.7	2.7	.69	.35	.27
MIN	.72	.73	.72	.73	.76	1.0	1.5	1.8	.73	.29	.28	.21
AC-FT	51	56	58	55	56	78	95	145	94	26	19	14

CAL YR 1985 TOTAL 766.02 MEAN 2.10 MAX 10 MIN .46 AC-FT 1520
WTR YR 1986 TOTAL 377.34 MEAN 1.03 MAX 2.7 MIN .21 AC-FT 748

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--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 mi upstream from reservoir diversion, 2.5 mi upstream from mouth, and 9 mi northeast of Currant.

DRAINAGE AREA.--12.9 mi².

PERIOD OF RECORD.--October 1964 to September 1981, and May 1983 to September 1986 (discontinued).

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

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

AVERAGE DISCHARGE.--20 years (water years 1964-81, 1984-86), 3.70 ft³/s, 2,680 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 14	0100	14	1.60	May 4	0600	16	1.64
Apr. 1	2000	*21	*1.74	May 27	2200	15	1.60

Minimum daily, 0.35 ft³/s, Dec. 14.

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	.82	.70	.57	.81	1.2	8.1	20	12	14	4.3	2.1	1.5
2	.82	.65	e.52	.81	1.2	8.9	19	13	14	4.2	2.0	1.5
3	.82	.64	.51	.77	1.2	8.8	18	14	13	4.3	1.9	1.5
4	.70	.60	.52	.76	1.2	8.7	17	15	14	4.1	1.9	1.4
5	.70	.59	.50	.73	1.2	8.6	15	14	13	4.1	1.9	1.4
6	.82	.64	e.48	.70	1.2	8.3	14	13	12	4.0	1.9	1.3
7	.85	.63	e.48	.64	.95	8.4	14	13	11	3.8	1.8	1.3
8	.84	.59	e.43	.63	.98	17	13	12	11	3.7	1.7	1.3
9	1.1	.63	e.39	.70	e.98	21	12	11	10	3.6	1.7	1.3
10	1.0	.60	e.36	.70	e1.0	18	11	9.9	9.8	3.5	1.8	1.3
11	1.1	.59	e.36	.70	e1.0	16	11	9.7	9.1	3.4	1.6	1.2
12	1.2	.44	e.36	.70	e1.0	16	11	9.2	8.5	3.3	1.6	1.2
13	1.2	e.42	e.36	.70	e1.1	14	10	9.1	8.1	3.2	1.5	1.2
14	1.2	e.42	.35	.74	e1.1	14	10	9.1	8.0	3.1	1.5	1.1
15	1.2	e.42	.40	.81	1.2	13	10	9.2	7.7	3.2	1.4	1.1
16	1.1	e.42	.40	.81	1.3	12	9.8	9.4	7.6	3.1	1.4	1.1
17	.89	e.42	.38	.81	1.4	12	9.4	9.8	7.4	2.9	1.3	1.2
18	.88	e.42	.39	.81	1.8	10	9.0	10	7.2	2.7	1.3	1.1
19	.79	e.42	.41	.81	2.5	10	8.9	10	7.0	2.7	1.4	1.2
20	.77	e.42	.42	.83	2.7	10	8.9	12	6.7	2.6	1.5	1.2
21	.75	e.46	.46	.81	2.7	11	8.9	13	6.4	2.6	1.4	1.2
22	.81	e.53	.50	.89	3.1	11	9.6	13	6.1	2.7	1.5	1.1
23	.76	.59	.55	.90	3.8	12	12	13	5.9	2.8	1.4	1.1
24	.70	.59	.68	.87	4.7	12	13	13	5.7	2.7	1.4	1.2
25	.70	.59	.70	.99	5.8	12	12	13	5.4	2.6	1.9	1.4
26	.70	.59	.69	1.1	6.5	12	12	13	5.2	2.5	1.9	1.2
27	.70	.58	.68	1.1	7.0	13	11	14	5.0	2.4	1.8	1.2
28	.70	.64	.81	1.1	7.7	14	10	15	4.8	2.3	1.8	1.3
29	.67	.63	.81	1.1	---	15	10	14	4.7	2.3	1.7	1.3
30	.66	.60	.83	1.2	---	17	10	15	4.5	2.2	1.6	1.3
31	.64	---	.81	1.2	---	19	---	14	---	2.1	1.6	---
TOTAL	26.59	16.46	16.11	26.23	67.51	390.8	359.5	374.4	252.8	97.0	51.2	37.7
MEAN	.86	.55	.52	.85	2.41	12.6	12.0	12.1	8.43	3.13	1.65	1.26
MAX	1.2	.70	.83	1.2	7.7	21	20	15	14	4.3	2.1	1.5
MIN	.64	.42	.35	.63	.95	8.1	8.9	9.1	4.5	2.1	1.3	1.1
AC-FT	53	33	32	52	134	775	713	743	501	192	102	75

CAL YR 1985 TOTAL 1153.95 MEAN 3.16 MAX 24 MIN .35 AC-FT 2290
WTR YR 1986 TOTAL 1716.29 MEAN 4.70 MAX 21 MIN .35 AC-FT 3400

e Estimated.

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 miles north of Warm Springs.

DRAINAGE AREA.--19 mi², 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 poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 104 ft³/s, July 20, 1985, gage height, 3.10 ft, from rating curve extended above 14 ft³/s on basis of slope-conveyance computation of peak flow; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.7 ft³/s, Apr. 3, gage height, 1.67 ft; maximum gage height, 1.76 ft, Dec. 12, backwater from ice; no flow many days during winter freezeup and summer months.

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	.19	.68	.13	e.00	.00	3.5	4.2	e1.9	1.8	.42	.06	.00
2	.19	.67	.19	e.00	.00	3.6	4.2	e1.8	1.8	.38	.06	.00
3	.17	.65	.17	e.00	.00	3.4	4.1	e2.2	1.7	.34	.05	.00
4	.16	.66	.19	e.00	.00	3.5	4.1	e2.0	1.5	.31	.04	.00
5	.16	.66	.18	e.00	.00	3.5	4.0	e2.0	1.5	.35	.04	.00
6	.22	.70	.17	e.00	.00	3.7	3.9	e2.0	1.4	.33	.02	.00
7	.22	.69	.18	e.00	e.00	3.5	4.0	e1.8	1.4	.33	.02	.00
8	.33	.68	.15	e.00	e.00	4.0	3.8	e1.7	1.4	.30	.02	.00
9	.43	.73	e.12	e.00	e.00	4.1	3.6	e1.7	1.3	.29	.01	.00
10	.32	.52	e.10	e.00	e.00	4.3	3.5	e1.7	1.2	.26	.01	.00
11	.30	e.40	e.09	e.00	e.00	4.0	3.4	e1.6	1.1	.23	.02	.00
12	.37	e.32	e.07	e.00	e.00	3.9	3.5	e1.7	1.1	.20	.01	.00
13	.55	e.28	e.06	e.00	e.00	3.7	3.5	e2.7	1.1	.18	.01	.00
14	.61	e.25	e.04	e.00	e.00	3.7	3.4	e2.3	1.0	.19	.01	.00
15	.58	e.22	e.03	e.00	e.00	3.9	3.4	e2.2	.94	.25	.01	.00
16	.57	e.20	e.02	e.00	e.00	4.1	3.5	e2.0	.88	.26	.01	.00
17	.57	e.17	e.02	e.00	e.00	3.9	3.4	e2.0	.84	.23	.01	.00
18	.57	e.15	e.01	.00	e.00	3.6	3.2	e2.0	.84	.17	.01	.00
19	.57	e.13	e.01	.00	e.00	3.4	3.1	e2.0	.80	.14	.01	.00
20	.57	e.11	e.00	.00	e.00	3.4	2.5	2.0	.77	.12	.01	.00
21	.64	e.10	e.00	.00	e.00	3.6	2.4	2.2	.72	.18	.00	.00
22	.74	e.09	e.00	.00	e.00	3.9	2.5	2.4	.67	.18	.01	.00
23	.64	e.07	e.00	.00	e.00	4.1	e2.6	2.4	.62	.18	.00	.00
24	.60	e.06	e.00	.00	e.00	4.1	e3.0	2.3	.56	.16	.00	.00
25	.59	e.05	e.00	.00	.01	4.1	e2.5	2.2	.52	.12	.00	.00
26	.60	e.04	e.00	.00	.55	4.2	e2.5	2.1	.50	.11	.00	.00
27	.61	e.03	e.00	.00	2.6	4.2	e2.5	2.1	.49	.09	.00	.00
28	.64	e.03	e.00	.00	3.3	4.2	e2.5	2.1	.47	.09	.00	.00
29	.64	.14	e.00	.00	---	4.2	e2.2	2.0	.47	.08	.00	.00
30	.63	.13	e.00	.00	---	4.2	e2.1	1.9	.47	.07	.00	.00
31	.65	---	e.00	.00	---	3.9	---	1.8	---	.07	.00	---
TOTAL	14.63	9.61	1.93	.00	6.46	119.4	97.1	62.8	29.86	6.61	.45	.00
MEAN	.47	.32	.06	.00	.23	3.85	3.24	2.03	.995	.21	.01	.00
MAX	.74	.73	.19	.00	3.3	4.3	4.2	2.7	1.8	.42	.06	.00
MIN	.16	.03	.00	.00	.00	3.4	2.1	1.6	.47	.07	.00	.00
AC-FT	29	19	3.8	.0	13	237	193	125	59	13	.9	.0

CAL YR 1985 TOTAL 234.80 MEAN .64 MAX 9.1 MIN .00 AC-FT 466
WTR YR 1986 TOTAL 348.85 MEAN .96 MAX 4.3 MIN .00 AC-FT 692

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 mi².

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

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

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

AVERAGE DISCHARGE.--9 years, 1.74 ft³/s, 1,260 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.0 ft³/s, Feb. 19, gage height, 1.75 ft; no flow many days.

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	.60	.54	.57	.57	.77	.77	.64	1.2	e4.5	e.93	.47	.34
2	.60	.53	.58	.57	.77	.82	.69	1.3	e4.4	e.90	.45	.37
3	.60	.54	.58	.57	.77	.77	.64	1.4	e4.4	e.86	.46	.32
4	.60	.49	.57	.56	.77	.77	.59	1.5	e4.6	e.82	.43	.32
5	.61	.51	.58	.55	.72	.77	.57	1.7	e4.3	e.80	.44	.37
6	.59	.52	.56	.57	.72	.77	.54	1.7	e3.9	e.79	.44	.37
7	.60	.54	.58	.59	.77	.82	.53	1.7	e3.5	e.76	.43	.29
8	.58	.55	.55	.61	.82	.82	.50	1.8	e3.3	e.76	.40	.32
9	.58	.57	.55	.61	.82	.77	.50	1.9	e3.0	e.71	.39	.32
10	.61	.55	.56	.61	.72	.77	.50	1.9	e2.8	e.69	.40	.32
11	.62	.56	e.54	.60	.72	.67	.47	2.0	e2.6	e.67	.43	.37
12	.61	.55	e.50	.61	.72	.67	.47	2.1	e2.4	e.64	.43	.34
13	.57	.51	e.50	.62	.72	.58	.47	2.1	e2.3	e.64	.41	.34
14	.58	.49	e.50	.62	.72	.58	.46	2.2	e2.2	e.64	.39	.34
15	.59	.54	.51	.67	.72	.58	.43	2.3	e2.1	e.64	.38	.34
16	.59	.53	.51	.72	.72	.58	.43	2.3	e2.0	e.63	.36	.37
17	.57	.51	.53	.72	.72	.58	.40	2.5	e1.9	e.62	.35	.37
18	.59	.52	e.54	.72	.72	.54	.40	2.8	e1.8	e.62	.34	.40
19	.53	.55	e.58	.77	.72	.54	.40	2.9	e1.7	e.62	.35	.43
20	.59	.56	e.58	.77	.72	.58	.44	e3.0	e1.6	e.61	.39	.43
21	.58	.52	e.58	.77	.72	.58	.51	e3.2	e1.5	.60	.50	.43
22	.57	.54	e.58	.77	.72	.54	.53	e3.3	e1.4	.55	.48	.47
23	.61	.55	e.58	.72	.77	.58	.54	e3.1	e1.4	.71	.42	.43
24	.63	.54	.56	.67	.72	.58	.65	e3.0	e1.3	.68	.37	.40
25	.61	.53	.56	.72	.67	.58	.61	e3.1	e1.3	.65	.37	.43
26	.53	.51	.56	.72	.67	.58	.55	e3.5	e1.2	.58	.37	.47
27	.58	.53	.58	.72	.72	.61	.65	e4.0	e1.1	.57	.40	.47
28	.58	.53	.56	.72	.77	.62	.99	e4.1	e1.1	.54	.40	.47
29	.59	.52	.57	.72	---	.63	1.0	e4.1	e1.1	.47	.37	.47
30	.57	.56	.58	.72	---	.67	1.1	e4.3	e1.0	.48	.37	.47
31	.54	---	.56	.72	---	.66	---	e4.6	---	.50	.34	---
TOTAL	18.20	15.99	17.24	20.60	20.61	20.38	17.20	80.6	71.7	20.68	12.53	11.58
MEAN	.59	.53	.56	.66	.74	.66	.57	2.60	2.39	.67	.40	.39
MAX	.63	.57	.58	.77	.82	.82	1.1	4.6	4.6	.93	.50	.47
MIN	.53	.49	.50	.55	.67	.54	.40	1.2	1.0	.47	.34	.29
AC-FT	36	32	34	41	41	40	34	160	142	41	25	23

CAL YR 1985 TOTAL 619.24 MEAN 1.70 MAX 8.6 MIN .49 AC-FT 1230
WTR YR 1986 TOTAL 327.31 MEAN .90 MAX 4.6 MIN .29 AC-FT 649

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 mi².

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

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

REMARKS.--Records fair 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.--20 years, 9.80 ft³/s, 7,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 385 ft³/s, May 28, 1983, gage height, 3.19 ft, on basis of slope-conveyance determination of peak flow; maximum gage height, 3.58 ft, May 18, 1973; minimum, 1.4 ft³/s, Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s, June 14, gage height, 1.88 ft; minimum daily, 6.2 ft³/s, Dec. 16-29.

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	9.4	7.1	7.4	6.8	e7.8	e8.0	7.4	9.3	14	12	11	7.6
2	9.4	7.2	7.1	7.1	e7.8	e8.1	7.6	9.4	14	12	11	7.5
3	9.4	7.4	7.1	7.3	e7.8	e8.1	7.2	9.4	14	12	11	7.5
4	9.4	7.5	6.8	7.4	e7.8	e8.1	7.3	9.7	14	12	11	7.4
5	9.4	7.5	6.8	7.7	e7.8	e8.1	7.5	9.4	15	12	11	7.5
6	9.0	7.5	7.3	7.9	e7.8	e8.1	7.4	9.6	14	11	11	7.6
7	9.4	7.4	7.3	7.7	e7.8	e8.1	7.4	9.8	14	11	11	7.7
8	9.0	e7.4	6.8	7.6	e7.8	e8.1	7.4	9.8	14	11	11	7.7
9	8.7	e7.4	6.9	7.4	e7.8	e7.8	7.3	9.8	14	11	10	7.6
10	8.0	e7.4	6.8	7.4	e7.8	e7.8	7.1	10	14	11	10	7.5
11	8.3	e7.4	6.6	7.4	e7.8	e7.8	7.2	10	14	11	10	7.4
12	8.3	e7.5	6.7	7.6	e7.9	e7.8	7.6	10	14	11	10	7.2
13	8.0	e7.5	6.6	7.6	e7.9	e7.8	7.7	10	14	11	10	7.4
14	8.3	e7.5	6.7	7.6	e7.9	e7.8	7.7	10	14	11	9.8	7.4
15	8.0	e7.5	6.8	7.7	e7.9	e7.8	7.7	10	13	11	9.6	7.3
16	8.3	e7.5	6.2	7.6	e7.9	e7.6	7.3	11	13	11	9.2	7.2
17	7.7	e7.5	6.2	7.7	e7.9	e7.6	7.1	11	12	10	9.3	7.3
18	7.7	e7.5	6.2	e7.7	e7.9	e7.4	7.3	11	13	11	9.4	7.1
19	7.7	e7.5	6.2	e7.7	e7.9	e7.3	7.3	12	13	10	9.6	7.1
20	7.4	e7.5	6.2	e7.7	e8.0	e7.3	7.2	12	13	10	9.4	7.3
21	7.3	e7.5	6.2	e7.7	e8.0	e7.6	7.6	12	13	10	9.1	7.4
22	7.4	7.5	6.2	e7.7	e8.0	e7.6	7.7	12	12	10	8.5	7.4
23	7.4	7.4	6.2	e7.7	e8.0	e7.3	7.7	12	13	11	8.4	7.4
24	7.5	7.4	6.2	e7.7	e8.0	e7.3	7.7	13	12	13	8.5	7.1
25	7.4	7.1	6.2	e7.7	e8.0	e7.6	7.8	13	12	12	8.3	7.1
26	7.3	7.1	6.2	e7.7	e8.0	7.4	8.2	13	13	12	8.2	7.0
27	7.1	7.1	6.2	e7.7	e8.0	7.1	8.3	14	13	11	8.0	6.9
28	7.1	7.4	6.2	e7.7	e8.0	9.0	8.5	14	13	11	8.0	7.1
29	7.1	7.4	6.2	e7.8	---	8.8	9.2	14	12	11	8.2	7.1
30	7.1	7.4	6.4	e7.8	---	7.3	9.0	14	12	12	8.0	7.1
31	7.0	---	6.6	e7.8	---	7.4	---	14	---	12	7.8	---
TOTAL	250.5	222.0	203.5	235.6	221.0	240.9	229.4	348.2	399	347	295.3	219.9
MEAN	8.08	7.40	6.56	7.60	7.89	7.77	7.65	11.2	13.3	11.2	9.53	7.33
MAX	9.4	7.5	7.4	7.9	8.0	9.0	9.2	14	15	13	11	7.7
MIN	7.0	7.1	6.2	6.8	7.8	7.1	7.1	9.3	12	10	7.8	6.9
AC-FT	497	440	404	467	438	478	455	691	791	688	586	436

CAL YR 1985 TOTAL 4240.8 MEAN 11.6 MAX 31 MIN 6.2 AC-FT 8410
WTR YR 1986 TOTAL 3212.3 MEAN 8.80 MAX 15 MIN 6.2 AC-FT 6370

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 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--21 years, 7.16 ft³/s, 5,180 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	0100	*21	*2.01	No other peak greater than base discharge.			
Minimum daily, 0.44 ft ³ /s, Sept. 7, but may have been less during period of ice effect, Nov. 13 to Feb. 14.							

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	2.0	3.4	e3.2	e2.2	e2.1	6.7	9.8	12	14	3.1	1.5	.86
2	2.0	3.4	e3.3	e2.2	e2.2	7.3	10	12	13	3.0	1.4	.84
3	2.0	3.3	e3.4	e2.2	e2.2	7.5	9.5	14	13	2.9	1.3	.80
4	2.0	3.3	e3.5	e2.4	e2.2	7.4	8.9	16	12	2.8	1.2	.73
5	2.0	3.3	e3.5	e2.4	e2.1	7.4	8.4	15	11	2.9	1.2	.68
6	2.0	3.3	e3.5	e2.3	e2.1	7.2	8.0	14	10	2.8	1.1	.58
7	2.1	3.3	e3.6	e2.1	e2.1	7.1	7.7	13	9.5	2.8	1.1	.44
8	2.3	3.3	e3.5	e2.0	e2.0	7.6	7.7	12	9.0	2.7	1.0	.68
9	2.7	3.4	e3.2	e1.8	e2.0	7.4	7.4	11	8.5	2.7	1.1	.77
10	2.9	3.2	e2.7	e1.7	e2.0	7.0	7.3	10	7.9	2.6	1.3	.90
11	2.9	3.1	e2.6	e1.6	e2.1	6.7	7.2	9.9	7.3	2.7	1.7	.87
12	2.9	3.0	e2.6	e1.6	e2.2	6.3	7.5	10	7.1	2.6	1.4	.85
13	2.9	e2.8	e2.6	e1.5	e2.4	5.7	7.5	10	6.7	2.6	1.2	.86
14	2.8	e2.6	e2.6	e1.5	e2.6	5.5	7.3	11	6.2	2.5	1.2	.89
15	2.8	e2.5	e2.6	e1.5	3.8	5.3	7.0	12	5.8	2.4	1.1	.84
16	2.8	e2.7	e2.6	e1.5	3.5	5.1	6.9	13	5.5	2.3	1.0	.87
17	2.8	e3.0	e2.7	e1.5	3.8	5.0	6.8	13	5.3	2.3	.99	.90
18	2.9	e3.1	e2.7	e1.5	4.2	4.8	6.4	14	5.2	2.2	.99	.93
19	3.0	e2.9	e2.8	e1.5	5.3	4.7	6.1	16	5.0	2.1	1.1	.91
20	3.1	e2.7	e2.8	e1.6	5.0	4.8	6.1	19	4.8	2.0	1.4	.96
21	3.3	e2.6	e2.7	e1.6	4.5	5.0	6.7	21	4.6	2.1	1.3	.95
22	3.4	e2.6	e2.7	e1.6	4.2	5.2	8.1	20	4.4	2.3	1.2	.94
23	3.4	e2.6	e2.6	e1.6	4.1	5.4	9.7	17	4.1	2.8	1.1	.95
24	3.5	e2.6	e2.6	e1.6	4.4	5.7	9.9	16	4.0	2.4	1.0	.95
25	3.4	e2.7	e2.5	e1.6	5.2	5.8	9.9	14	3.8	2.2	.99	1.0
26	3.5	e2.7	e2.4	e1.6	6.0	6.0	9.5	14	3.7	2.1	.99	1.0
27	3.6	e2.8	e2.3	e1.8	6.4	6.5	9.3	14	3.5	2.0	1.1	.97
28	3.5	e2.9	e2.3	e1.8	6.6	7.0	9.7	14	3.4	1.9	1.1	.98
29	3.5	e3.0	e2.5	e2.0	---	7.6	11	14	3.3	1.8	.93	.98
30	3.4	e3.1	e2.5	e2.0	---	8.4	11	14	3.3	1.7	.88	.94
31	3.5	---	e2.4	e2.1	---	9.3	---	14	---	1.6	.86	---
TOTAL	88.9	89.2	87.5	55.9	97.3	198.4	248.3	428.9	204.9	74.9	35.73	25.82
MEAN	2.87	2.97	2.82	1.80	3.47	6.40	8.28	13.8	6.83	2.42	1.15	.86
MAX	3.6	3.4	3.6	2.4	6.6	9.3	11	21	14	3.1	1.7	1.0
MIN	2.0	2.5	2.3	1.5	2.0	4.7	6.1	9.9	3.3	1.6	.86	.44
AC-FT	176	177	174	111	193	394	493	851	406	149	71	51

CAL YR 1985 TOTAL 2072.98 MEAN 5.68 MAX 27 MIN 1.2 AC-FT 4110
WTR YR 1986 TOTAL 1635.73 MEAN 4.48 MAX 21 MIN .44 AC-FT 3240

e Estimated.

BIG SMOKY VALLEY (NORTHERN PART)

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1965 to current year.

CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: October 1967 and March 1968 to September 1982, monthly;

October 1982 to current year, four times per year.

BIOLOGICAL DATA: July 1970 to July 1973, once or twice yearly (24-hr studies); May 1975 to August 1977, twice yearly; December 1977 to September 1981, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to September 1982, monthly; October 1982 to current year, four times per year.

WATER TEMPERATURES: July 1965 to April 1966, monthly; May 1966 to September 1968, continuous; October 1968 to December 1969, monthly; January 1970 to September 1977, continuous; October 1977 to August 1978, monthly; September 1978 to September 1982, hourly; October 1982 to current year, four times per year.

SEDIMENT DATA: October 1967 to September 1975, monthly; October 1975 to September 1977, occasionally (at times of noticeable turbidity or high discharge); October 1977 to September 1982, monthly; October 1982 to current year, four times per year.

REMARKS.--May and August samples were collected from North Twin River near Round Mountain, Nev., (sta. no. 10249295) and are published in the section of this report entitled "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

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 1985 TO SEPTEMBER 1986

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...	0945	2.3	148	8.10	<-5.0	0.0	0.40	13.1	112	<2	K6	60
MAR												
19...	1000	4.7	125	8.10	8.0	2.0	0.60	11.0	100	<2	<2	54

K: NON-IDEAL COLONY COUNT.

BIG SMOKEY VALLEY (NORTHERN PART)

113

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	CALC'UM 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 HC03)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	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 19...	21	1.8	7.0	0.4	1.0	--	--	7.2	2.1	0.20	20	99
MAR 19...	19	1.6	6.4	0.4	1.1	70	58	7.7	2.7	0.20	18	87
DATE	SOLIDS, SUM OF CONSTITUENTS, 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 19...	98	0.13	0.010	<0.100	0.040	0.030	0.16	0.20	0.100	0.070	0.010	
MAR 19...	92	0.12	<0.010	0.160	<0.010	<0.010	--	0.30	<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 19...	20	3	13	<0.5	<1	<1	<3	1	10	<1	8	
MAR 19...	10	3	11	<0.5	<1	<1	<3	1	6	<1	7	
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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	
NOV 19...	<1	<0.1	<10	2	<1	<1	130	<6	10	3	0.02	
MAR 19...	<1	<0.1	<10	<1	<1	<1	120	<6	3	1	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-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR-90)	RADIUM 226, DIS- SOLVED RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)		
NOV 19...	0945	2.8	2.8	<0.6	1.5	<0.7	1.3	<0.7	0.04	3.3		

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 mi².

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.--7 years (1979-86), 2.14 ft³/s, 1,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228 ft³/s, Aug. 17, 1983, gage height, 8.68 ft; minimum, 0.13 ft³/s, Dec. 16, 17, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.7 ft³/s, Mar. 28, gage height, 7.88 ft; minimum daily, 0.14 ft³/s, Dec. 16-19.

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	.30	.27	.21	.23	1.2	2.8	5.3	5.2	e2.9	1.1	.70	.55
2	.29	.26	.25	.22	1.2	2.4	4.8	5.3	e2.8	1.1	.69	.52
3	.28	.26	.24	.21	1.2	1.9	4.1	5.4	e2.7	1.1	.68	.49
4	.28	.25	.24	.21	1.2	1.6	3.9	5.3	e2.5	1.1	.66	.45
5	.28	.25	.23	.25	1.1	1.4	3.7	4.6	e2.3	1.1	.66	.45
6	.28	.25	.23	.25	e1.0	1.7	3.5	4.4	e2.2	1.0	.62	.43
7	.29	.25	.23	.23	e1.0	1.8	3.2	4.1	e2.1	1.0	.60	.43
8	.29	.25	.24	.21	e1.0	1.9	3.0	3.6	e2.0	1.0	.59	.43
9	.32	.25	.23	.21	e1.0	1.8	2.9	3.3	e1.8	.98	.60	.43
10	.32	.23	.23	.21	e1.0	1.7	3.0	3.2	e1.7	.97	.61	.43
11	.32	.30	.21	.21	e1.0	1.5	3.0	3.1	e1.6	.95	.61	.43
12	.30	1.1	.20	.21	e1.0	1.3	3.3	3.1	e1.6	.92	.58	.42
13	.29	.96	.18	.22	e1.0	1.2	3.4	3.1	e1.6	.91	.57	.42
14	.29	.96	.16	.23	e1.0	1.1	3.4	3.1	e1.4	.91	.56	.42
15	.28	.94	.15	.24	e1.0	1.1	3.2	3.4	e1.4	.96	.55	.42
16	.29	.70	.14	.24	e1.0	1.1	3.2	3.7	e1.4	.97	.53	.41
17	.28	.24	.14	.23	1.1	1.0	3.1	e4.0	e1.4	.95	.52	.40
18	.28	.22	.14	.56	1.3	.97	2.8	e4.4	e1.4	.92	.51	.40
19	.28	.23	.14	.82	1.6	1.1	2.7	e4.4	e1.4	.91	.50	.40
20	.29	.23	.16	.88	1.7	1.5	2.8	e4.4	e1.3	.91	.51	.40
21	.29	.21	.17	.86	1.6	2.4	4.0	e4.0	e1.3	.94	.49	.41
22	.31	.21	.18	.86	1.6	3.5	5.1	e4.0	e1.3	.93	.48	.42
23	.29	.21	.19	.84	1.6	4.3	5.2	e4.0	e1.3	.87	.45	.44
24	.28	.22	.19	.84	1.8	4.3	5.0	e3.8	e1.2	.87	.49	.45
25	.28	.27	.19	.78	2.3	4.4	4.7	e3.8	e1.2	.84	.47	.45
26	.28	.22	.21	.78	2.8	5.0	4.6	e3.5	e1.2	.82	.53	.43
27	.28	.21	.21	.79	3.1	5.6	4.4	e3.4	e1.1	.80	.61	.44
28	.27	.21	.21	.79	3.1	6.0	4.8	e3.2	e1.0	.79	.62	.44
29	.26	.24	.21	.77	---	5.9	5.5	e3.0	e1.0	.76	.65	.43
30	.26	.23	.21	1.4	---	5.4	5.4	e3.0	e1.0	.75	.62	.40
31	.26	---	.22	1.3	---	5.3	---	e3.0	---	.73	.58	---
TOTAL	8.89	10.63	6.14	16.08	40.5	82.97	117.0	119.8	49.1	28.86	17.84	13.04
MEAN	.29	.35	.20	.52	1.45	2.68	3.90	3.86	1.64	.93	.58	.43
MAX	.32	1.1	.25	1.4	3.1	6.0	5.5	5.4	2.9	1.1	.70	.55
MIN	.26	.21	.14	.21	1.0	.97	2.7	3.0	1.0	.73	.45	.40
AC-FT	18	21	12	32	80	165	232	238	97	57	35	26

CAL YR 1985 TOTAL 473.70 MEAN 1.30 MAX 8.4 MIN .14 AC-FT 940
WTR YR 1986 TOTAL 510.85 MEAN 1.40 MAX 6.0 MIN .14 AC-FT 1010

e Estimated.

WALKER LAKE BASIN

115

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 mi², approximately.

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

REMARKS.--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 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	3,969.0	2,957,000	--
Oct. 31.	3,968.3	2,930,000	-27,000
Nov. 30.	3,967.9	2,915,000	-15,000
Dec. 31.	3,967.7	2,908,000	-7,000
CAL YR 1985.	--	--	-102,000
Jan. 31.	3,967.5	2,900,000	-8,000
Feb. 28.	3,968.1	2,923,000	+23,000
Mar. 31.	3,969.1	2,960,000	+37,000
Apr. 30.	3,969.7	2,983,000	+23,000
May 31.	3,970.3	3,006,000	+23,000
June 30.	3,971.8	3,064,000	+58,000
July 31.	3,971.9	3,068,000	+4,000
Aug. 31.	3,971.5	3,052,000	-16,000
Sep. 30.	3,971.5	3,052,000	0
WTR YR 1985-86	--	--	+95,000

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

WALKER LAKE BASIN

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in 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 mi².

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, 2,980 acre-ft, June 2, elevation, 7,209.82 ft; minimum, 552 acre-ft, Oct. 31, elevation, 7,201.97 ft, but may have been lower between Oct. 21-31.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	7,207.02	2,080	--
Oct. 31.	7,205.76	1,680	-400
Nov. 30.	7,207.35	g2,180	+500
Dec. 31.	--	g2,180	0
CAL YR 1984.	--	--	-90
Jan. 31.	7,207.34	2,180	0
Feb. 28.	7,207.31	2,170	-10
Mar. 31.	7,207.50	2,230	+60
Apr. 30.	7,207.82	2,330	+100
May 31.	7,208.35	2,500	+170
June 30.	7,208.36	2,510	+10
July 31.	7,207.02	2,080	-430
Aug. 31.	7,202.50	700	-1,380
Sep. 30.	7,202.04	571	-129
WTR YR 1984-85	--	--	-1,509

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	7,202.04	571	--
Oct. 31.	7,201.97	552	-19
Nov. 30.	7,205.18	1,500	+948
Dec. 31.	7,207.32	2,170	+670
CAL YR 1985.	--	--	-10
Jan. 31.	7,207.25	2,150	-20
Feb. 28.	--	2,240	+90
Mar. 31.	--	2,340	+100
Apr. 30.	7,208.33	2,500	+160
May 31.	7,209.67	2,930	+430
June 30.	7,208.89	2,670	-260
July 31.	7,208.28	2,480	-190
Aug. 31.	7,207.77	2,320	-160
Sep. 30.	--	2,220	-100
WTR YR 1985-86	--	--	-1,649

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 mi².

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 observed contents, 5,410 acre-ft, June 3, elevation, 7,203.22 ft; minimum observed, 712 acre-ft, Nov. 4, elevation, 7,191.78 ft, but may have been lower during period of no gage-height record, Oct. 1 to Nov. 25.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	--	g1,080	--
Oct. 31.	--	g 754	-326
Nov. 30.	--	g 985	+231
Dec. 31.	7,194.17	1,670	+685
CAL YR 1985.	--	--	-790
Jan. 31.	7,197.48	2,990	+1,320
Feb. 28.	--	g3,690	+700
Mar. 31.	--	g4,450	+760
Apr. 30.	--	g4,620	+170
May 31.	7,202.97	5,290	+670
June 30.	--	g5,020	-270
July 31.	7,201.14	4,490	-530
Aug. 31.	--	g3,140	-1,350
Sep. 30.	--	g2,230	-910
WTR YR 1985-86	--	--	+1,150

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, 4.5 mi north of Bridgeport.

DRAINAGE AREA.--358 mi².

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, 40,330 acre-ft, July 7, elevation, 6,459.27 ft; minimum, 6,730 acre-ft, Oct. 8, elevation, 6,440.56 ft.

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

6,440	6,240	6,455	29,160
6,445	11,380	6,459	39,540
6,450	18,780	6,460	42,460

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANT VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7380	8480	13180	18870	24180	34770	32560	31400	37430	38260	38490	24430
2	7270	8620	13820	19060	24300	35010	32640	31600	37590	38570	38180	23980
3	7200	8760	14390	19240	24390	35220	32720	31770	37560	39010	37810	23560
4	7090	8880	14700	19500	24530	35470	32640	31870	37620	39320	37480	23140
5	6980	8980	14960	19770	24530	35170	32510	32030	37350	39830	37070	22810
6	6880	9110	15170	19980	24730	34140	32490	32080	37240	40060	36580	22420
7	6820	9240	15380	20160	24810	33430	32380	32160	36930	40090	36230	22030
8	6730	9340	15550	20310	24920	34980	32330	32160	36630	39860	35750	21560
9	6770	9440	15690	20480	25010	34980	32210	32110	36450	39800	35200	21090
10	6840	9520	15820	20600	25170	34720	32180	31920	36450	39830	34770	20760
11	6880	9580	15920	20780	25360	34060	32160	31850	36420	39800	34380	20440
12	6900	9700	16050	20930	25630	33580	31980	31820	36420	39800	33860	20140
13	6920	9820	16170	21090	26220	33170	31950	31800	36420	39770	33350	19770
14	6900	9950	16310	21310	27160	32940	31900	31820	36420	39770	32740	19430
15	6930	10120	16420	21420	28170	32890	31720	31820	36550	39660	32280	19130
16	6990	10300	16530	21620	28630	32820	31570	31820	36760	39540	31650	18870
17	7050	10420	16660	21780	30360	32690	31380	32000	36820	39480	31140	18590
18	7140	10510	16790	21950	33550	32620	31210	32230	36900	39480	30560	18370
19	7240	10630	16900	22150	35440	32490	31070	32560	36900	39400	29980	18090
20	7330	10780	17030	22290	34670	32380	30970	33090	36790	39320	29590	17900
21	7420	10950	17160	22420	34590	32260	30970	33450	36760	39290	29210	17750
22	7570	11070	17280	22660	34820	32180	30950	33890	36760	39200	28720	17600
23	7730	11240	17400	22710	34800	32110	30920	34270	36710	39400	28260	17440
24	7890	11500	17540	22810	34640	31900	30990	34640	36630	39340	27780	17260
25	8000	11760	17680	23000	34540	31900	30870	35060	36870	39370	27340	17180
26	8090	12030	17780	23140	34380	31850	30900	35570	37120	39460	26930	17040
27	8190	12250	17900	23310	34380	31850	30900	36180	37180	39400	26530	16870
28	8260	12530	18070	23450	34510	31870	30950	36530	37290	39200	26200	16720
29	8280	12770	18230	23640	---	32000	31110	36660	37540	39120	25760	16580
30	8280	12930	18490	23850	---	32160	31280	36600	37700	38930	25390	16480
31	8340	---	18700	24020	---	32430	---	36790	---	38710	24920	---
MAX	8340	12930	18700	24020	35440	35470	32720	36790	37700	40090	38490	24430
MIN	6730	8480	13180	18870	24180	31850	30870	31400	36420	38260	24920	16480

CAL YR 1985 MAX 42600 MIN 6730 ## -12340
WTR YR 1986 MAX 40090 MIN 6730 ## -2010

6442.25 6446.22 6449.95 6452.69 6457.15 6456.34 6455.88 6458.01 6458.34 6458.70 6453.12 6448.64
+870 +4590 +5770 +5320 +10490 -2080 -1150 -5510 +910 +1010 -13790 -8440

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

WALKER LAKE BASIN

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

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

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.--No estimated daily discharges. Records good. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir (10292500).

AVERAGE DISCHARGE.--63 years (1922-24, 1925-86), 149 ft³/s, 108,000 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft³/s, June 3, gage height, 4.56 ft, from rating curve extended above 1,000 ft³/s; minimum daily, 14 ft³/s, Dec. 6 to Feb.16.

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	119	17	20	14	14	209	319	368	1200	302	346	381
2	119	18	20	14	14	206	319	367	1340	402	348	374
3	128	18	20	14	14	207	320	365	1340	382	349	347
4	146	18	20	14	14	206	319	368	1350	383	348	330
5	154	18	16	14	14	419	319	360	1310	384	348	328
6	154	18	14	14	14	798	318	349	1190	448	355	328
7	154	19	14	14	14	680	318	349	1140	536	386	326
8	148	19	14	14	14	789	331	352	1090	534	422	326
9	121	19	14	14	14	778	339	351	865	477	420	326
10	98	19	14	14	14	671	338	351	709	407	417	311
11	98	19	14	14	14	746	339	350	711	389	419	298
12	98	19	14	14	14	649	340	351	712	392	415	292
13	98	19	14	14	14	536	339	352	707	393	418	289
14	98	19	14	14	14	415	340	353	710	393	419	288
15	85	19	14	14	14	341	339	369	710	394	419	275
16	70	19	14	14	14	325	341	397	712	393	416	262
17	61	19	14	14	16	324	338	400	719	375	417	261
18	49	19	14	14	120	324	344	401	719	359	416	261
19	49	19	14	14	822	323	362	403	719	359	417	249
20	49	19	14	14	897	323	362	406	720	343	418	240
21	36	20	14	14	447	322	371	407	686	323	414	239
22	36	20	14	14	270	324	395	405	663	320	415	239
23	34	20	14	14	389	321	396	408	656	337	411	239
24	42	20	14	14	403	322	396	408	619	378	411	239
25	51	20	14	14	403	320	380	407	563	376	400	239
26	51	20	14	14	388	321	369	406	562	376	387	239
27	51	20	14	14	321	321	367	463	560	378	385	238
28	68	20	14	14	248	320	367	641	563	367	385	238
29	85	20	14	14	---	321	369	943	567	347	384	237
30	85	20	14	14	---	318	368	1080	543	348	383	216
31	68	---	14	14	---	319	---	1070	---	346	382	---
TOTAL	2703	573	460	434	4948	12798	10462	14000	24655	11941	12270	8455
MEAN	87.2	19.1	14.8	14.0	177	413	349	452	822	385	396	282
MAX	154	20	20	14	897	798	396	1080	1350	536	422	381
MIN	34	17	14	14	14	206	318	349	543	302	346	216
AC-FT	5360	1140	912	861	9810	25380	20750	27770	48900	23680	24340	16770

CAL YR 1985 TOTAL 51782 MEAN 142 MAX 307 MIN 14 AC-FT 102700
WTR YR 1986 TOTAL 103699 MEAN 284 MAX 1350 MIN 14 AC-FT 205700

WALKER LAKE BASIN

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 mi², approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft, 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 ft³/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft³/s, June 7, 1986, gage height, 7.49 ft; minimum daily, 2.3 ft³/s, Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,820 ft³/s, June 7, gage height, 7.49 ft; minimum recorded during period of operation, 272 ft³/s, Sept. 5, but may have been less during period of no gage-height record, Sept. 10-30.

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	---	---	---	---	---	---	476	530	2120	608	309	376
2	---	---	---	---	---	---	455	519	2220	362	303	377
3	---	---	---	---	---	---	419	554	2460	400	291	360
4	---	---	---	---	---	---	400	552	2580	389	290	303
5	---	---	---	---	---	---	387	543	2290	384	281	272
6	---	---	---	---	---	---	390	514	2190	390	274	279
7	---	---	---	---	---	---	394	503	2380	516	285	277
8	---	---	---	---	---	---	423	498	1940	613	334	274
9	---	---	---	---	---	---	421	485	2150	592	370	288
10	---	---	---	---	---	---	421	474	1180	486	377	e270
11	---	---	---	---	---	---	438	467	1110	413	437	e260
12	---	---	---	---	---	---	439	457	1070	390	392	e250
13	---	---	---	---	---	---	439	443	1110	517	368	e240
14	---	---	---	---	---	---	452	451	1160	422	369	e238
15	---	---	---	---	---	---	445	463	1220	405	380	e230
16	---	---	---	---	---	---	426	483	1260	407	382	e225
17	---	---	---	---	---	---	416	519	1280	405	389	e220
18	---	---	---	---	---	---	400	532	1240	379	389	e220
19	---	---	---	---	---	---	429	542	1270	365	390	e220
20	---	---	---	---	---	---	450	525	1270	363	403	e215
21	---	---	---	---	---	---	465	540	1260	347	405	e210
22	---	---	---	---	---	---	524	513	1170	331	386	e200
23	---	---	---	---	---	---	588	539	1110	378	370	e190
24	---	---	---	---	---	---	597	531	1060	452	372	e185
25	---	---	---	---	---	---	592	518	924	442	361	e180
26	---	---	---	---	---	---	519	517	779	413	342	e170
27	---	---	---	---	---	---	506	513	750	414	345	e165
28	---	---	---	---	---	---	510	656	695	405	364	e155
29	---	---	---	---	---	---	542	1000	690	383	361	e150
30	---	---	---	---	---	---	536	1610	677	350	349	e145
31	---	---	---	---	---	---	---	2300	---	319	367	---
TOTAL	---	---	---	---	---	---	13899	19291	42615	13040	11035	7144
MEAN	---	---	---	---	---	---	463	622	1420	421	356	238
MAX	---	---	---	---	---	---	597	2300	2580	613	437	377
MIN	---	---	---	---	---	---	387	443	677	319	274	145
AC-FT	---	---	---	---	---	---	27570	38260	84530	25860	21890	14170

e Estimated.

WALKER LAKE BASIN

121

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--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 mi north of Sonora Junction, 1.5 mi upstream from mouth, and 14 mi northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi².

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

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

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

REMARKS.--Records good except periods with ice effect, which are poor. Small diversions above station.

AVERAGE DISCHARGE.--42 years (1945-86), 53.6 ft³/s, 38,830 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0300	499	2.29	May 19	2200	277	1.86
Mar. 8	0700	*1,030	*2.87	May 30	2100	532	2.34

Minimum daily, 12 ft³/s, Nov. 10.

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	17	20	26	21	22	79	116	142	462	214	63	32
2	17	20	43	23	19	76	99	150	439	225	61	31
3	17	20	34	20	21	79	88	151	441	229	58	30
4	17	20	32	24	20	81	84	140	445	219	57	31
5	17	20	26	30	26	83	81	124	406	196	55	36
6	21	20	27	24	23	81	84	116	367	180	56	34
7	26	20	23	25	e23	105	84	110	334	168	54	32
8	24	19	25	23	e24	410	85	102	300	155	51	31
9	23	16	26	23	e23	136	82	101	280	143	50	30
10	25	e12	e26	23	e23	95	86	106	273	135	50	30
11	25	e13	e23	22	e22	83	92	107	279	135	49	30
12	24	e15	e20	22	22	72	90	114	303	140	46	29
13	23	e19	e18	21	45	61	78	126	314	141	48	29
14	21	e21	e17	21	82	54	76	135	332	131	47	29
15	21	e23	e17	20	43	48	76	144	321	121	50	29
16	21	e23	e17	26	26	49	72	155	315	113	44	29
17	21	e23	e18	31	81	46	67	165	314	103	42	31
18	21	e22	e18	27	175	43	66	189	308	96	40	32
19	21	e21	e18	28	252	43	71	221	270	93	41	30
20	20	e21	e18	25	100	46	83	241	242	88	47	29
21	20	e20	e19	24	83	51	103	215	234	88	42	29
22	24	e20	e19	24	71	57	129	195	235	94	40	29
23	26	20	e19	23	69	60	138	191	240	93	37	28
24	26	22	e18	23	66	62	126	191	260	92	34	30
25	25	24	e18	25	70	66	118	226	266	95	34	32
26	23	24	e19	24	71	74	108	278	262	87	34	31
27	23	20	e19	24	72	86	117	337	265	78	38	29
28	22	22	e20	24	74	92	140	383	244	73	37	29
29	21	21	20	24	---	104	136	436	221	69	33	28
30	21	e22	26	29	---	113	134	458	209	66	32	28
31	19	---	23	25	---	122	---	475	---	65	32	---
TOTAL	672	603	692	748	1648	2657	2909	6224	9181	3925	1402	907
MEAN	21.7	20.1	22.3	24.1	58.9	85.7	97.0	201	306	127	45.2	30.2
MAX	26	24	43	31	252	410	140	475	462	229	63	36
MIN	17	12	17	20	19	43	66	101	209	65	32	28
AC-FT	1330	1200	1370	1480	3270	5270	5770	12350	18210	7790	2780	1800
CAL YR 1985	TOTAL 13494	MEAN 37.0	MAX 141	MIN 12	AC-FT 26770							
WTR YR 1986	TOTAL 31568	MEAN 86.5	MAX 475	MIN 12	AC-FT 62620							

e Estimated.

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 right bank 150 ft downstream from Little Walker River, 60 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

DRAINAGE AREA.--180 mi², 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. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft downstream at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 11-15, 17, 19-21, and Dec. 12-28. Records good except those for periods of ice effect, Nov. 11-15, 17, 19-21, and Dec. 12-28, 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.--48 years, 268 ft³/s, 194,200 acre-ft/yr.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft³/s, Dec. 11, 1937, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,120 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0400	1,290	3.85	May 20	0200	1,740	4.36
Mar. 8	0900	2,230	4.82	June 1	0300	*3,090	*5.50

Minimum daily, 34 ft³/s, Nov. 10.

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	47	73	80	87	83	305	660	829	2680	938	282	114
2	45	72	114	80	80	306	571	885	2440	1060	277	111
3	45	70	95	77	78	309	486	939	2600	1110	258	108
4	44	69	85	84	82	326	447	758	2420	1050	247	108
5	43	67	81	107	73	346	426	635	1980	883	237	123
6	49	65	73	97	79	354	420	559	1730	758	237	112
7	91	63	75	86	66	394	402	505	1550	715	238	107
8	102	61	68	88	76	1260	394	478	1340	661	222	104
9	93	48	69	83	65	646	381	498	1290	616	210	101
10	95	34	66	80	75	477	419	566	1290	573	208	100
11	100	e40	59	81	74	395	469	597	1330	597	207	98
12	102	e55	e55	77	77	342	502	655	1470	684	194	95
13	99	e65	e60	77	138	294	439	757	1590	708	189	93
14	89	e70	e62	79	242	259	402	841	1650	648	178	92
15	86	e73	e62	75	198	237	393	890	1570	546	185	91
16	85	75	e62	88	132	231	371	978	1440	501	173	86
17	86	e73	e62	106	288	213	341	1020	1460	437	158	85
18	86	69	e63	96	543	200	331	1180	1480	398	146	91
19	84	e68	e58	97	816	195	344	1380	1250	388	140	89
20	80	e67	e61	94	422	200	413	1520	1060	391	152	86
21	79	e65	e61	85	319	214	562	1220	1030	384	151	85
22	81	63	e62	88	282	232	746	986	1100	379	143	84
23	94	61	e62	86	259	249	838	961	1160	415	142	83
24	104	69	e64	76	249	260	711	967	1230	398	131	84
25	113	73	e63	78	265	278	654	1260	1280	410	127	90
26	103	70	e64	80	275	313	602	1580	1230	371	123	91
27	96	70	e66	81	279	376	612	1850	1270	343	129	89
28	91	72	e64	83	287	447	798	2070	1180	327	130	89
29	87	66	73	84	---	522	840	2410	1010	313	121	88
30	82	75	91	93	---	603	799	2450	903	288	118	89
31	74	---	86	88	---	667	---	2700	---	283	115	---
TOTAL	2555	1961	2166	2661	5902	11450	15773	34924	45013	17573	5568	2866
MEAN	82.4	65.4	69.9	85.8	211	369	526	1127	1500	567	180	95.5
MAX	113	75	114	107	816	1260	840	2700	2680	1110	282	123
MIN	43	34	55	75	65	195	331	478	903	283	115	83
AC-FT	5070	3890	4300	5280	11710	22710	31290	69270	89280	34860	11040	5680

CAL YR 1985 TOTAL 71541 MEAN 196 MAX 992 MIN 34 AC-FT 141900
WTR YR 1986 TOTAL 148412 MEAN 407 MAX 2700 MIN 34 AC-FT 294400

e Estimated.

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 mi², 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.--57 years (1902-7, 1909-10, 1915-37, 1957-86), 283 ft³/s, 205,000 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,120 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0500	1,380	3.32	May 20	0400	1,830	3.73
Mar. 8	1000	2,240	4.12	June 1	--	*3,300	*unknown
May 3	0400	1,210	2.96				

Minimum daily, 42 ft³/s, Nov. 11.

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	e62	84	89	95	92	324	707	973	e2750	995	e330	137
2	60	83	131	90	92	326	613	1030	e2510	1110	e320	134
3	59	81	118	92	86	326	500	1110	e2430	1160	e300	130
4	57	79	100	89	91	338	455	888	e2400	1100	e290	127
5	57	78	94	117	84	355	435	731	e2000	945	e280	144
6	58	75	88	116	90	368	426	641	e1760	805	e278	134
7	95	74	89	97	73	e410	414	565	e1620	763	e279	127
8	116	73	81	101	88	1360	407	530	1380	711	e260	122
9	107	60	85	92	73	734	393	549	1340	671	e242	119
10	109	45	79	91	89	510	423	638	1340	626	e240	117
11	117	e42	e72	91	86	422	467	679	1380	642	e238	115
12	118	e60	e68	88	87	375	509	746	1500	717	e230	111
13	116	e70	e70	89	e145	331	444	872	1590	745	e220	109
14	103	e76	e72	89	e206	298	412	980	1660	697	e210	107
15	98	e80	e74	85	238	281	405	1030	1630	593	e215	105
16	95	85	e76	92	163	272	387	1140	1490	545	e200	97
17	94	76	78	118	e310	257	361	1180	1500	477	e185	e95
18	94	72	75	111	e580	241	349	1350	1550	440	e170	101
19	92	e71	74	110	887	236	359	1550	1350	428	e165	102
20	88	e70	72	111	436	240	411	1730	1160	431	e185	e97
21	92	73	e72	97	334	252	562	1470	1090	429	e183	e95
22	88	73	e74	100	297	267	817	1180	1160	425	e165	e93
23	108	76	e73	95	283	282	994	1150	1210	458	e160	e92
24	119	82	75	85	277	291	838	1130	1270	442	e150	e94
25	127	88	e73	89	293	306	761	1480	1340	453	e145	101
26	120	83	73	89	304	337	697	1760	1280	421	149	101
27	113	85	e74	89	304	e400	694	1960	1320	394	154	96
28	104	85	76	90	310	e470	929	2190	1240	374	157	96
29	96	84	81	92	---	e545	1000	e2480	1080	361	146	e96
30	91	e78	99	103	---	621	944	e2520	966	334	142	97
31	83	---	99	99	---	709	---	e2780	---	324	139	---
TOTAL	2936	2241	2554	2992	6398	12484	17113	39012	46296	19016	6527	3291
MEAN	94.7	74.7	82.4	96.5	228	403	570	1258	1543	613	211	110
MAX	127	88	131	118	887	1360	1000	2780	2750	1160	330	144
MIN	57	42	68	85	73	236	349	530	966	324	139	92
AC-FT	5820	4450	5070	5930	12690	24760	33940	77380	91830	37720	12950	6530

CAL YR 1985 TOTAL 75742 MEAN 208 MAX 1020 MIN 42 AC-FT 150200
WTR YR 1986 TOTAL 160860 MEAN 441 MAX 2780 MIN 42 AC-FT 319100

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.--Float and nonrecording gages read once daily. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at datum 4.62 ft higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft, between 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, 60,270 acre-ft, July 3, elevation, 5,000.74 ft. Minimum contents observed, 6,400 acre-ft, Oct. 8, elevation, 4,971.80 ft.

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

4,971	5,150	4,990	37,360
4,975	11,520	4,995	47,540
4,980	19,760	4,996	49,680
4,985	28,310	5,001	60,870

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8020	8400	14130	20560	27870	48990	51350	48730	52580	60040	51720	29600
2	7800	8590	14380	20810	28130	49380	51350	48840	53060	60130	51150	29220
3	7560	8750	14840	20980	28410	49720	51420	48990	53460	60130	50570	28640
4	7290	8910	15100	21240	28620	50110	51440	48950	53910	60270	50070	27960
5	7100	9090	15360	21490	28830	50520	51390	48770	54130	60270	49440	27630
6	6880	9250	15650	21830	29040	49850	51310	48430	54060	60200	48670	27090
7	6530	9420	15890	22080	29230	48620	51130	48000	54130	59990	47830	26660
8	6400	e9790	16160	22370	29440	48030	51000	47540	54020	59810	47050	26220
9	6530	e9950	16400	22610	29640	49810	51920	46980	53840	59620	46860	25640
10	6560	e10030	16550	22850	29830	50260	50200	46580	53910	59420	45130	25160
11	6630	10110	16700	23090	30010	50260	49920	46200	54020	59190	44160	24610
12	6720	10320	16850	23310	30340	50020	49680	45870	54130	58910	43450	24230
13	6830	10500	17030	23550	30590	49920	49420	45700	54400	58640	42630	23730
14	6880	10680	17230	23790	30920	49920	49180	45700	54780	58500	41740	23200
15	7040	10840	17400	24010	32160	50070	48900	45700	54890	58200	40910	22760
16	7190	11010	17580	24230	33240	50090	48520	45700	54930	57770	40070	22320
17	7350	11160	17760	24490	34420	50110	48300	45800	54910	57320	39250	21910
18	7510	11290	17930	24740	36650	50110	48090	46140	55090	56770	38500	21580
19	7670	11450	18100	25000	39850	50090	47830	46620	55270	56100	37820	21270
20	7730	11610	18280	25260	42040	50070	47660	46980	55490	55420	36960	20970
21	7800	11740	18470	25520	43430	50020	47540	48450	55720	54820	36200	20680
22	7860	11900	18630	25740	44760	49960	47540	48710	55990	54220	35500	20440
23	8120	12130	18800	25970	45700	49960	47730	48800	55940	53680	34980	20240
24	8210	12490	18970	26190	46370	49980	47810	48770	56910	53420	34400	19990
25	8310	12780	19130	26410	47180	50000	48220	48880	58000	53200	33810	19890
26	8390	13010	19300	26620	48000	50050	48200	49310	58890	53090	33220	19750
27	8470	13150	19470	26830	48430	50200	48130	49740	59550	52980	32660	19690
28	8560	13400	19650	27040	48730	50310	48110	50610	59970	52820	32140	19640
29	8560	13640	19840	27250	---	50520	48370	50980	59970	52580	31440	19600
30	8500	13890	20060	27450	---	50810	48540	51630	60010	52320	30920	19540
31	8450	---	20310	27660	---	51240	---	52070	---	52070	30290	---
MAX	8560	13900	20300	27700	48700	51200	51900	52100	60000	60300	51700	29600
MIN	6400	8400	14100	20600	27900	48000	47500	45700	52600	52100	30300	19500
CAL YR 1985	MAX	48090	MIN	6400	##	6540						
WTR YR 1986	MAX	60130	MIN	6400	##	11200						

#	4973.09	4976.46	4980.33	4984.63	4995.56	4996.72	4995.47	4997.10	5000.63	4997.10	4986.13	4979.87
##	+110	+5440	+6420	+7350	+21070	+2510	-2700	+3530	+7940	-7940	-21780	-10750

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

DRAINAGE AREA.--497 mi².

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

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

GAGE.--Water-stage recorder. 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.--39 years (1920-23, 1925-32, 1957-86), 254 ft³/s, 184,700 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,090 ft³/s, June 4, gage height, 8.28 ft; minimum daily, 17 ft³/s, Dec. 8, 9, but may have been less during period of ice effect, Dec. 24-30.

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	146	130	25	23	21	234	719	765	1990	854	447	347
2	145	38	28	21	22	230	678	820	2000	863	451	338
3	145	34	32	21	21	232	589	886	1990	946	447	321
4	151	31	29	22	22	233	572	882	2040	964	451	305
5	158	28	22	23	21	356	560	851	2000	946	474	299
6	155	30	19	22	22	981	550	820	1810	908	470	299
7	151	30	18	20	22	935	553	765	1660	861	492	295
8	132	29	17	19	22	918	588	721	1610	759	517	292
9	107	27	17	20	22	757	629	699	1400	700	517	296
10	107	28	18	19	22	642	617	678	1280	684	514	297
11	110	28	22	19	21	675	607	689	1260	689	515	295
12	99	28	19	20	21	605	615	700	1270	731	514	293
13	88	27	22	19	23	481	614	718	1300	751	503	285
14	85	25	21	20	24	361	600	735	1450	745	492	278
15	59	25	21	19	65	348	569	799	1530	708	463	270
16	57	26	20	19	76	341	499	917	1470	687	461	258
17	57	29	20	19	147	337	447	941	1340	669	455	241
18	57	30	19	20	275	330	441	958	1240	666	444	225
19	57	30	19	20	598	323	435	999	1180	653	427	216
20	77	30	19	19	357	321	434	1080	968	645	424	205
21	80	27	20	20	152	320	456	1110	824	621	418	204
22	82	25	20	19	91	319	546	1040	823	576	380	195
23	85	27	19	19	68	320	604	1010	824	546	357	186
24	112	26	e19	20	52	321	605	1010	708	489	352	180
25	113	26	e19	20	44	325	599	1050	677	466	343	171
26	115	26	e20	20	105	328	651	1180	834	424	348	158
27	116	25	e21	20	219	361	646	1400	908	424	342	148
28	124	24	e21	20	275	409	667	1540	1050	422	342	146
29	153	26	e22	21	---	430	737	1740	1050	417	347	145
30	155	25	e24	21	---	456	736	1890	923	401	346	143
31	155	---	25	21	---	592	---	1920	---	378	352	---
TOTAL	3433	940	657	625	2830	13821	17563	31313	39409	20593	13405	7331
MEAN	111	31.3	21.2	20.2	101	446	585	1010	1314	664	432	244
MAX	158	130	32	23	598	981	737	1920	2040	964	517	347
MIN	57	24	17	19	21	230	434	678	677	378	342	143
AC-FT	6810	1860	1300	1240	5610	27410	34840	62110	78170	40850	26590	14540

CAL YR 1985 TOTAL 64322 MEAN 176 MAX 555 MIN 3.6 AC-FT 127600
WTR YR 1986 TOTAL 151920 MEAN 416 MAX 2040 MIN 17 AC-FT 301300

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 mi².

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

GAGE.--Water-stage recorder. 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 ft³/s, 135,550 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft³/s, June 5, gage height, 5.76 ft; minimum daily during period of operation, 124 ft³/s, Sept. 28.

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	---	---	---	---	---	---	763	494	1840	628	291	232
2	---	---	---	---	---	---	764	512	1910	614	328	222
3	---	---	---	---	---	---	650	596	1850	678	309	209
4	---	---	---	---	---	---	619	647	1880	740	309	192
5	---	---	---	---	---	---	609	631	1910	742	322	201
6	---	---	---	---	---	---	599	570	1680	728	316	205
7	---	---	---	---	---	---	600	527	1390	705	306	173
8	---	---	---	---	---	---	585	474	1320	593	304	189
9	---	---	---	---	---	---	626	471	1190	539	317	189
10	---	---	---	---	---	---	612	460	1050	525	337	180
11	---	---	---	---	---	---	580	464	1030	467	332	195
12	---	---	---	---	---	---	568	466	1040	490	332	207
13	---	---	---	---	---	---	568	480	1080	494	321	202
14	---	---	---	---	---	---	562	503	1180	513	309	219
15	---	---	---	---	---	---	542	528	1330	507	284	234
16	---	---	---	---	---	---	466	639	1330	496	281	214
17	---	---	---	---	---	---	375	712	1170	476	274	172
18	---	---	---	---	---	---	349	733	1060	474	288	152
19	---	---	---	---	---	---	331	758	1010	472	273	149
20	---	---	---	---	---	---	328	810	821	485	252	151
21	---	---	---	---	---	---	340	866	656	498	248	165
22	---	---	---	---	---	---	376	820	597	460	240	159
23	---	---	---	---	---	---	414	771	617	450	204	148
24	---	---	---	---	---	---	405	776	559	393	207	148
25	---	---	---	---	---	---	365	803	453	391	193	139
26	---	---	---	---	---	---	398	892	553	358	164	141
27	---	---	---	---	---	---	415	1100	601	362	162	135
28	---	---	---	---	---	---	427	1230	705	376	152	124
29	---	---	---	---	---	---	474	1420	768	362	156	137
30	---	---	---	---	---	---	494	1650	684	349	192	129
31	---	---	---	---	---	---	---	1760	---	301	239	---
TOTAL	---	---	---	---	---	---	15204	23563	33264	15666	8242	5312
MEAN	---	---	---	---	---	---	507	760	1109	505	266	177
MAX	---	---	---	---	---	---	764	1760	1910	742	337	234
MIN	---	---	---	---	---	---	328	460	453	301	152	124
AC-FT	---	---	---	---	---	---	30160	46740	65980	31070	16350	10540

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 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. 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.--61 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-86), 177 ft³/s, 128,200 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,770 ft³/s, June 6, gage height, 10.60 ft; minimum, 39 ft³/s, Oct. 5.

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	84	82	107	91	88	710	819	479	2140	579	248	201
2	68	158	112	90	88	610	925	490	2330	516	226	215
3	50	173	119	81	89	609	838	518	2450	416	214	183
4	43	120	122	77	89	610	723	576	2570	467	202	153
5	42	101	122	79	89	606	678	602	2700	470	180	128
6	52	93	114	82	89	700	660	530	2740	466	148	125
7	70	90	108	82	90	918	639	488	2730	442	147	146
8	120	91	103	80	92	1010	606	472	2570	478	123	159
9	164	78	98	78	90	1100	572	470	2380	540	152	159
10	191	78	95	76	87	1610	567	460	2190	520	181	131
11	213	84	91	78	88	1610	526	448	1800	385	209	151
12	201	90	85	77	91	1510	492	448	1540	295	219	166
13	201	97	69	79	98	1440	501	393	1490	328	193	177
14	189	96	72	79	97	1290	509	396	1470	407	148	177
15	181	104	82	79	111	1010	482	419	1510	454	112	196
16	176	106	93	79	130	863	453	469	1600	422	116	223
17	166	104	89	76	211	814	369	637	1570	393	155	171
18	145	105	91	74	242	786	294	694	1400	381	169	143
19	139	91	99	76	446	756	264	696	1250	363	174	169
20	115	87	94	77	1230	752	272	632	1090	412	160	189
21	103	111	92	78	1370	746	278	616	875	426	162	233
22	108	97	86	80	1050	736	265	661	747	409	194	233
23	100	99	90	81	534	731	304	615	702	335	212	217
24	91	104	89	82	491	730	352	605	646	394	232	187
25	73	107	87	85	536	703	326	627	574	450	230	183
26	70	105	85	89	554	695	290	658	435	482	195	185
27	62	101	87	90	615	689	320	815	483	454	132	205
28	59	97	84	89	716	714	343	995	596	478	121	229
29	65	103	85	87	---	720	389	1150	723	451	125	235
30	60	106	86	89	---	759	451	1360	742	385	144	257
31	59	---	94	89	---	770	---	1720	---	331	190	---
TOTAL	3460	3058	2930	2529	9501	27307	14507	20139	46043	13329	5413	5526
MEAN	112	102	94.5	81.6	339	881	484	650	1535	430	175	184
MAX	213	173	122	91	1370	1610	925	1720	2740	579	248	257
MIN	42	78	69	74	87	606	264	393	435	295	112	125
AC-FT	6860	6070	5810	5020	18850	54160	28770	39950	91330	26440	10740	10960

CAL YR 1985 TOTAL 36380 MEAN 99.7 MAX 233 MIN 25 AC-FT 72160
WTR YR 1986 TOTAL 153742 MEAN 421 MAX 2740 MIN 42 AC-FT 304900

WALKER LAKE BASIN

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 1985 TO SEPTEMBER 1986

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 SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO ₃)
NOV 21...	1115	108	550	8.40	2.5	0.5	21	12.9	105	K14	280	160
JAN 22...	1130	66	540	8.50	12.0	4.0	9.5	11.6	104	K4	92	150
MAR 11...	1215	1700	240	8.00	14.5	7.0	98	9.4	92	K120	--	70
MAY 13...	1250	396	280	8.20	24.0	16.0	28	8.3	99	K30	190	77
JUL 15...	1300	470	235	8.20	36.0	23.5	130	7.0	97	K170	480	72
AUG 06...	1200	135	328	8.30	34.0	25.0	20	7.4	106	K22	98	92

K: NON-IDEAL COLONY COUNT.

WALKER LAKE BASIN

129

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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- LITY, CARBON- ATE IT-FLD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 21...	47	11	61	2	4.2	--	--	--	75	18	0.80	29
JAN 22...	44	10	63	2	5.5	200	2	167	74	18	0.80	29
MAR 11...	20	4.9	24	1	4.1	111	--	91	18	6.9	0.40	18
MAY 13...	22	5.4	24	1	3.9	118	--	97	28	8.1	0.40	17
JUL 15...	21	4.7	20	1	3.9	98	--	80	23	5.8	0.30	19
AUG 06...	27	6.0	29	1	4.2	139	--	114	35	8.9	0.40	20

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 21...	354	360	0.48	0.300	0.010	0.310	0.080	0.080	0.52	0.60	0.260	0.140
JAN 22...	365	350	0.50	--	<0.010	0.430	0.060	0.040	0.54	0.60	0.110	0.080
MAR 11...	153	150	0.21	--	<0.010	0.110	0.040	0.020	0.86	0.90	0.440	0.070
MAY 13...	172	170	0.23	--	<0.010	<0.100	0.020	0.030	0.48	0.50	0.140	0.080
JUL 15...	149	150	0.20	0.150	0.010	0.160	0.080	0.040	0.52	0.60	0.190	0.100
AUG 06...	205	200	0.28	--	<0.010	0.130	0.030	0.030	0.47	0.50	0.180	0.100

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 21...	0.040	20	13	54	<0.5	<1	<1	<3	2	12	<1	41
JAN 22...	0.080	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	0.060	180	10	39	<0.5	<1	<1	<3	3	110	<1	28
MAY 13...	0.060	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	0.090	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	0.100	30	14	42	<0.5	<1	<1	<3	6	12	<5	22

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 21...	14	<0.1	<10	1	<1	<1	430	<6	22	76	20	--
JAN 22...	--	--	--	--	--	--	--	--	--	31	5.4	--
MAR 11...	12	<0.1	<10	2	1	<1	210	6	<3	833	3260	61
MAY 13...	--	--	--	--	--	--	--	--	--	196	211	50
JUL 15...	--	--	--	--	--	--	--	--	--	446	565	78
AUG 06...	11	0.1	10	8	<1	<1	260	<6	<3	63	19	--

CARSON RIVER BASIN

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVIILE CREEK, NEAR MARKLEEVIILE, 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 mi².

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 good except for periods of ice effect, 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.--26 years, 384 ft³/s, 278,200 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0200	8,210	8.23	May 2	2200	1,810	4.67
Mar. 8	0800	*9,520	*8.67	June 1	0100	3,630	6.10
Mar. 30	2300	1,300	4.14				

Minimum discharge, 30 ft³/s, Nov. 11.

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	60	84	103	161	170	866	1220	1420	2840	716	201	132
2	58	86	357	137	167	842	1090	1540	2590	731	193	128
3	57	84	222	137	161	867	902	1570	2650	713	186	124
4	56	83	155	162	165	914	844	1240	2380	684	176	125
5	55	83	138	314	149	921	838	1030	2060	629	171	132
6	57	79	125	247	e132	912	786	900	1840	577	163	108
7	99	78	130	189	130	1090	762	807	1660	548	169	104
8	98	76	121	178	e130	5120	699	779	1440	517	168	104
9	99	65	115	157	133	1940	680	836	1370	482	168	121
10	100	54	111	150	146	1410	766	974	1330	456	163	130
11	116	40	103	147	138	1140	874	1000	1350	439	161	126
12	112	64	93	142	170	965	947	1090	1370	452	157	121
13	101	e59	e94	139	484	828	777	1210	1440	448	158	117
14	88	e56	e98	139	836	730	715	1310	1510	428	157	110
15	86	e58	e99	136	906	664	708	1400	1390	386	157	107
16	85	e74	e99	169	841	616	661	1450	1310	362	156	107
17	83	e68	e105	416	5020	567	603	1510	1300	335	153	117
18	81	e74	e110	289	3980	520	584	1740	1280	314	156	143
19	78	e68	e105	269	3870	502	632	1960	1130	301	154	111
20	76	e87	e102	252	1350	514	781	1970	999	291	153	100
21	94	95	e103	217	909	538	1080	1650	955	278	156	100
22	84	99	e105	211	772	556	1420	1440	973	282	144	98
23	110	89	e105	199	725	578	1470	1410	982	320	139	95
24	125	113	e107	174	751	574	1250	1460	1010	317	134	106
25	129	157	e108	173	834	584	1150	1860	976	330	128	123
26	113	111	e107	171	858	649	1030	2140	939	376	135	122
27	107	100	e107	173	855	768	1060	2340	914	309	148	121
28	102	107	e106	175	881	889	1400	2530	873	267	150	120
29	97	113	119	172	---	993	1460	2710	786	244	139	118
30	93	98	205	189	---	1190	1350	2710	730	224	134	124
31	86	---	200	181	---	1220	---	2920	---	214	133	---
TOTAL	2785	2502	3957	5965	25663	30467	28539	48906	42377	12970	4860	3494
MEAN	89.8	83.4	128	192	917	983	951	1578	1413	418	157	116
MAX	129	157	357	416	5020	5120	1470	2920	2840	731	201	143
MIN	55	40	93	136	130	502	584	779	730	214	128	95
AC-FT	5520	4960	7850	11830	50900	60430	56610	97010	84050	25730	9640	6930

CAL YR 1985 TOTAL 93832 MEAN 257 MAX 1330 MIN 40 AC-FT 186100
WTR YR 1986 TOTAL 212485 MEAN 582 MAX 5120 MIN 40 AC-FT 421500

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 mi².

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

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft, National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums.

REMARKS.--Records good except for 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.--60 years (1890-93, 1908-10, 1925-28, 1935-37, 1939-86), 397 ft³/s, 287,600 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0500	*7,380	*7.52	May 3	0200	1,970	3.72
Mar. 8	1000	7,230	7.46	June 1	0300	3,090	4.87

Minimum daily, 60 ft³/s, Nov. 14.

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	70	92	126	163	173	910	1270	1560	2650	726	228	137
2	69	94	354	147	175	862	1210	1650	2370	750	218	136
3	68	93	264	149	161	877	1040	1760	2460	734	207	133
4	67	92	181	153	170	923	953	1440	2270	703	199	130
5	66	92	163	317	151	927	942	1210	1980	650	192	138
6	66	91	147	276	e140	928	911	1080	1780	593	185	119
7	94	91	150	205	134	960	885	972	1620	559	190	113
8	107	89	141	193	e134	4480	844	923	1390	529	187	112
9	114	84	136	177	133	2490	797	944	1320	502	184	120
10	105	72	132	169	147	1740	837	1090	1280	473	178	130
11	119	63	121	167	150	1400	940	1120	1300	455	173	130
12	120	73	101	161	164	1180	1050	1180	1300	468	166	125
13	110	e66	e113	159	491	1020	985	1290	1370	466	163	122
14	100	e60	e127	158	731	877	882	1360	1450	445	160	120
15	94	e67	e130	152	1190	781	846	1440	1370	405	162	114
16	92	e90	e130	157	1140	719	820	1500	1280	376	158	114
17	90	e86	e132	408	4570	668	774	1510	1260	350	146	117
18	88	e89	e140	311	3640	615	724	1690	1260	331	143	145
19	86	81	e137	272	4180	574	753	1920	1140	315	142	125
20	84	e100	e134	263	1620	558	895	2020	1010	304	151	112
21	102	e104	e131	225	1070	576	1190	1700	961	294	167	114
22	91	107	e130	212	864	592	1520	1450	980	297	153	110
23	110	104	e130	200	786	608	1650	1430	985	345	147	107
24	123	124	e128	181	782	615	1430	1410	999	341	142	110
25	130	176	e127	178	883	618	1330	1740	981	352	137	129
26	119	134	e126	178	911	651	1220	2020	949	416	139	131
27	111	124	e125	177	904	763	1200	2200	922	336	146	129
28	107	124	e125	177	909	890	1530	2320	888	295	155	130
29	103	140	e143	173	---	984	1660	2490	804	275	145	129
30	99	109	208	184	---	1160	1520	2440	744	255	140	133
31	95	---	196	184	---	1240	---	2600	---	242	137	---
TOTAL	2999	2911	4628	6226	26503	32186	32608	49459	41073	13582	5140	3714
MEAN	96.7	97.0	149	201	947	1038	1087	1595	1369	438	166	124
MAX	130	176	354	408	4570	4480	1660	2600	2650	750	228	145
MIN	66	60	101	147	133	558	724	923	744	242	137	107
AC-FT	5950	5770	9180	12350	52570	63840	64680	98100	81470	26940	10200	7370

CAL YR 1985 TOTAL 94885 MEAN 260 MAX 1280 MIN 60 AC-FT 188200
WTR YR 1986 TOTAL 221029 MEAN 606 MAX 4570 MIN 60 AC-FT 438400

e Estimated.

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, and 11.5 mi southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi².

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 ft³/s, which are poor.

AVERAGE DISCHARGE.--6 years, 1.92 ft³/s, 1,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165 ft³/s, Mar. 8, 1986, from rating curve extended above 8.0 ft³/s, gage height, 3.70 ft, maximum gage height, 3.97 ft, Feb. 19, 1986; minimum, 0.02 ft³/s, July 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165 ft³/s, Mar. 8, gage height, 3.70 ft; minimum, 0.23 ft³/s, Sept. 5-8, 11.

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	.40	.85	1.2	.94	.88	17	5.2	3.2	3.3	.90	.72	.47
2	.38	.86	1.5	.88	.82	16	5.0	3.1	2.9	.73	.62	.44
3	.37	.84	1.1	.94	.85	18	4.5	3.3	2.4	.69	.55	.42
4	.35	.84	.98	1.2	1.0	17	4.3	3.5	2.1	.66	.52	.40
5	.33	.95	1.1	1.1	.86	14	4.4	3.4	1.9	.74	.58	.38
6	.39	.90	.99	.97	.78	11	4.1	3.3	1.6	.85	.60	.37
7	.38	.77	1.0	.88	.69	11	5.2	3.1	1.6	.95	.57	.38
8	.45	.78	.93	1.0	.94	60	5.2	2.9	1.4	.90	.57	.47
9	.46	.77	.78	.88	.78	15	4.3	2.7	1.3	.86	.57	.60
10	.49	.52	e.70	.88	.94	12	4.0	2.4	1.1	.86	.55	.70
11	.49	.52	.62	.90	1.0	10	3.9	2.3	1.5	.79	.57	.56
12	.49	e.50	.59	.91	1.1	9.2	3.8	2.2	2.6	.73	.49	.56
13	.50	e.48	.89	.92	1.3	8.6	3.8	2.2	1.9	.68	.50	.59
14	.49	e.40	.97	.94	2.0	8.2	3.9	2.2	1.9	.65	.47	.59
15	.48	e.45	.97	.94	1.5	8.1	3.6	2.1	1.7	.64	.37	.64
16	.45	e.56	.93	1.1	1.0	7.9	3.6	2.3	1.6	.62	.40	.64
17	.43	e.60	.90	1.1	9.6	8.1	3.4	2.5	1.5	.68	.39	.65
18	.42	e.66	.92	1.1	28	8.1	3.2	2.6	1.4	.72	.40	.71
19	.44	.72	.98	1.0	33	8.0	3.0	2.8	1.6	.72	.50	.71
20	.44	.92	.99	.94	9.6	6.9	3.0	3.4	1.6	.69	.99	.72
21	.68	.98	.93	.88	6.4	3.5	3.0	3.8	1.5	.73	.64	.65
22	.85	.97	.90	1.1	5.9	3.2	3.0	3.7	1.3	1.2	.58	.65
23	.82	1.1	.92	.96	6.9	2.9	3.2	3.4	1.1	1.5	.51	.64
24	.78	1.1	.93	.82	10	3.0	3.4	2.9	1.5	1.2	.45	.69
25	.78	1.2	.99	.85	15	3.2	3.4	2.5	1.4	1.6	.43	.90
26	.77	1.1	.99	.95	16	3.4	3.4	2.6	1.2	1.9	.49	.78
27	.77	1.2	.94	1.0	16	3.7	3.3	3.0	1.2	1.4	.76	.82
28	.76	1.1	.93	.95	17	4.0	3.2	3.2	.92	1.2	.62	.70
29	.81	1.1	.91	.89	---	4.5	3.2	3.3	.90	1.0	.53	.66
30	.78	.89	1.0	.98	---	4.9	3.2	3.2	.96	.93	.50	.59
31	.82	---	.96	.93	---	5.2	---	3.3	---	.81	.49	---
TOTAL	17.25	24.63	29.44	29.83	189.84	315.6	113.7	90.4	48.88	28.53	16.93	18.08
MEAN	.56	.82	.95	.96	6.78	10.2	3.79	2.92	1.63	.92	.55	.60
MAX	.85	1.2	1.5	1.2	33	60	5.2	3.8	3.3	1.9	.99	.90
MIN	.33	.40	.59	.82	.69	2.9	3.0	2.1	.90	.62	.37	.37
AC-FT	34	49	58	59	377	626	226	179	97	57	34	36

CAL YR 1985 TOTAL 397.88 MEAN 1.09 MAX 4.6 MIN .22 AC-FT 789
WTR YR 1986 TOTAL 923.10 MEAN 2.53 MAX 60 MIN .33 AC-FT 1830

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, and 10.5 mi east of Minden.

DRAINAGE AREA.--46.3 mi².

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.--6 years (1981-86), 1.16 ft³/s, 840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s, Aug. 29, 1984, gage height, 7.81 ft, from rating curve extended above 30 ft³/s on basis of step-backwater method; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 409 ft³/s, Mar. 8, gage height, 6.36 ft, from rating curve extended above 30 ft³/s on basis of step-backwater method; no flow many days.

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	1.2	.02	.09	e.09	.09	22	3.0	2.0	3.9	.00	.00	.01
2	1.2	.02	1.4	e.10	.11	19	3.6	2.1	3.0	.00	.00	.01
3	1.2	.01	.08	e.12	.11	20	2.8	2.6	2.6	.00	.00	.01
4	1.2	.00	.04	e.13	.12	18	2.6	2.5	2.2	.00	.00	.01
5	1.1	.00	.05	e.14	.15	14	3.6	2.5	1.9	.00	.00	.01
6	2.1	.02	.06	e.14	.07	8.8	2.8	2.4	1.5	.00	.00	.01
7	.26	.01	.05	e.14	e.06	10	3.9	2.2	1.3	.00	.00	.01
8	.16	.00	.03	e.14	.05	86	2.8	1.8	.98	.00	.00	.01
9	.18	.01	e.06	e.13	e.04	22	2.1	1.4	.51	.00	.00	.02
10	.16	.06	.08	e.13	.03	17	1.8	1.1	.26	.00	.00	.03
11	.14	e.08	e.06	e.13	e.02	11	1.7	1.2	.14	.00	.00	.03
12	.11	.11	e.04	e.13	.01	7.5	1.6	1.1	.17	.00	.00	.02
13	.09	.10	e.07	.13	.62	4.3	1.2	1.2	.08	.00	.00	.03
14	.08	e.10	e.08	.13	4.1	2.9	1.2	1.5	.06	.00	.00	.05
15	.08	e.09	e.09	.13	1.9	2.7	.99	1.7	.03	.00	.00	.05
16	.05	e.09	e.09	.24	6.2	2.6	1.0	1.7	.02	.00	.00	.06
17	.03	.08	e.09	.30	42	3.0	.90	1.7	.01	.00	.00	.05
18	.03	.07	e.09	.14	58	2.9	.48	1.8	.00	.00	.02	.05
19	.02	e.11	e.09	.11	81	2.1	.26	2.1	.00	.00	.02	.06
20	.00	.16	e.09	.07	15	2.7	.20	2.6	.00	.00	.07	.06
21	.08	.15	e.09	.07	8.8	2.5	.27	2.7	.00	.00	.05	.06
22	.09	.19	e.09	.09	11	2.5	.35	2.4	.00	2.3	.03	.06
23	.09	.22	e.08	.06	16	2.1	.68	2.3	.00	2.6	.01	.04
24	.06	.21	e.07	.20	23	1.8	1.4	2.0	.00	.44	.01	.08
25	.05	.11	e.05	.26	28	2.0	1.5	1.8	.00	.12	.01	.11
26	.04	.09	e.05	.24	27	1.9	1.4	1.9	.00	.09	.01	.10
27	.03	.09	e.05	.26	24	2.6	1.3	2.4	.00	.03	.34	.12
28	.01	.09	e.05	.14	26	3.0	1.5	2.7	.00	.01	.06	.11
29	.01	.09	e.06	.09	---	2.9	1.9	2.8	.00	.01	.03	.09
30	.01	.11	e.07	.11	---	3.0	1.8	2.8	.00	.00	.02	.08
31	.02	---	e.08	.10	---	3.0	---	3.0	---	.00	.01	---
TOTAL	9.88	2.49	3.47	4.39	373.48	305.8	50.63	64.0	18.66	5.60	.69	1.44
MEAN	.32	.08	.11	.14	13.3	9.86	1.69	2.06	.62	.18	.02	.05
MAX	2.1	.22	1.4	.30	.81	.86	3.9	3.0	3.9	2.6	.34	.12
MIN	.00	.00	.03	.06	.01	1.8	.20	1.1	.00	.00	.00	.01
AC-FT	20	4.9	6.9	8.7	741	607	100	127	37	11	1.4	2.9
CAL YR 1985	TOTAL 138.68	MEAN .38	MAX 13	MIN .00	AC-FT 275							
WTR YR 1986	TOTAL 840.52	MEAN 2.30	MAX 86	MIN .00	AC-FT 1670							

e Estimated.

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 mi².

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

AVERAGE DISCHARGE.--55 years (1900-1907, 1938-86), 115 ft³/s, 83,320 acre-ft.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft, present datum, from floodmarks, discharge, 3,500 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0100	551	3.04	May 20	0100	738	3.41
Mar. 8	1100	*1,620	*4.63	May 31	0200	865	3.62
Apr. 22	2100	827	3.54				

Minimum daily, 14 ft³/s, Nov. 10.

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	20	22	29	43	50	241	425	514	741	185	84	35
2	20	22	39	41	40	228	366	552	657	196	81	34
3	19	22	34	39	45	242	304	602	669	190	60	34
4	19	22	33	43	50	263	308	454	588	177	58	34
5	19	21	34	59	49	267	316	352	483	168	57	33
6	20	21	33	64	47	269	296	320	433	154	56	32
7	25	21	34	54	46	316	285	288	393	148	61	31
8	24	21	31	49	46	1230	276	286	339	141	61	57
9	25	21	33	45	45	687	290	310	328	133	57	76
10	25	14	32	43	44	390	354	358	320	127	50	64
11	27	16	31	43	44	286	405	353	323	120	66	59
12	25	23	31	41	46	241	390	389	327	124	84	58
13	24	24	31	41	55	207	304	391	344	126	77	37
14	22	25	30	41	95	178	297	416	365	124	77	32
15	22	25	30	36	138	163	309	447	344	111	77	32
16	21	29	30	50	99	154	281	468	319	104	61	32
17	21	27	31	108	202	141	255	477	314	95	46	32
18	21	26	31	102	407	129	267	536	313	89	43	34
19	20	25	31	86	469	128	312	597	290	86	42	34
20	20	25	31	78	368	137	392	614	253	84	43	34
21	23	25	30	62	321	151	498	479	238	83	44	33
22	25	24	30	59	276	163	616	397	246	97	41	34
23	32	26	31	51	235	179	624	387	247	122	39	62
24	31	28	31	50	215	177	515	393	261	117	39	65
25	29	29	30	49	220	192	471	472	254	104	47	69
26	27	27	31	49	227	223	422	569	246	102	80	66
27	25	28	31	48	239	271	444	627	241	85	71	45
28	24	30	31	47	246	315	578	658	223	80	68	38
29	23	27	34	47	---	360	579	722	201	93	65	37
30	22	28	39	54	---	425	518	742	186	89	46	36
31	22	---	43	56	---	430	---	782	---	86	37	---
TOTAL	722	724	1000	1678	4364	8783	11697	14952	10486	3740	1818	1299
MEAN	23.3	24.1	32.3	54.1	156	283	390	482	350	121	58.6	43.3
MAX	32	30	43	108	469	1230	624	782	741	196	84	76
MIN	19	14	29	36	40	128	255	286	186	80	37	31
AC-FT	1430	1440	1980	3330	8660	17420	23200	29660	20800	7420	3610	2580
CAL YR 1985	TOTAL 28996	MEAN 79.4	MAX 523	MIN 14	AC-FT 57510							
WTR YR 1986	TOTAL 61263	MEAN 168	MAX 1230	MIN 14	AC-FT 121500							

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 mi².

PERIOD OF RECORD.--May 1939 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft 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 fair. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

AVERAGE DISCHARGE.--47 years, 428 ft³/s, 310,100 acre-ft/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	1400	*13,200	*13.16	May 3	1600	1,940	5.05
Mar. 9	1500	6,120	8.92	June 1	1900	3,200	6.46
Apr. 1	1600	1,880	4.97				

Minimum daily, 36 ft³/s, Aug. 24, 25.

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	75	143	212	299	287	1440	1810	1590	3010	622	176	62
2	65	140	262	268	275	1370	1720	1650	2990	503	132	63
3	60	137	596	257	278	1350	1450	1820	2810	487	138	61
4	62	138	329	278	263	1400	1300	1760	2690	435	122	56
5	53	135	259	472	264	1430	1320	1470	2360	404	131	43
6	54	137	237	563	252	1460	1250	1210	2100	391	85	44
7	67	147	226	411	256	1420	1230	1150	1900	408	69	46
8	80	141	229	340	226	2460	1180	962	1700	355	67	45
9	125	137	215	319	234	5410	1110	940	1530	311	51	40
10	154	e140	205	290	216	4090	1150	1060	1310	273	58	42
11	181	e140	e190	284	234	2610	1290	1130	1290	223	72	51
12	200	140	e190	277	234	1930	1410	1190	1330	243	73	53
13	193	e140	e180	269	487	1630	1320	1270	1410	258	60	56
14	174	e140	e180	268	580	1390	1150	1330	1510	258	49	60
15	162	e140	e176	265	1760	1270	1020	1430	1550	187	53	67
16	159	e140	e173	266	3010	1200	953	1520	1470	166	47	76
17	159	e140	e173	513	4430	1120	870	1560	1260	146	69	86
18	157	e140	e168	628	11500	1010	747	1650	1190	115	71	86
19	151	e140	e168	491	10100	938	717	1860	1140	108	68	109
20	148	152	e176	444	9020	919	792	2060	1080	117	60	125
21	157	174	e165	405	4010	934	918	2030	953	121	63	130
22	192	174	e170	352	2200	938	1180	1750	927	127	49	135
23	174	178	e170	336	1760	961	1550	1530	912	222	48	148
24	170	194	e182	310	1530	956	1560	1450	843	298	36	154
25	175	230	e179	287	1470	954	1460	1650	878	309	36	153
26	174	253	e176	283	1470	996	1370	2020	884	347	48	176
27	169	214	e176	280	1450	1120	1310	2260	855	403	50	201
28	163	202	e170	285	1430	1290	1450	2360	776	358	52	222
29	157	236	206	281	---	1390	1680	2550	721	301	46	236
30	157	264	234	274	---	1600	1620	2690	701	270	46	231
31	158	---	352	296	---	1780	---	2750	---	230	46	---
TOTAL	4325	4926	6724	10591	59226	48766	37887	51652	44080	8996	2171	3057
MEAN	140	164	217	342	2115	1573	1263	1666	1469	290	70.0	102
MAX	200	264	596	628	11500	5410	1810	2750	3010	622	176	236
MIN	53	135	165	257	216	919	717	940	701	108	36	40
AC-FT	8580	9770	13340	21010	117500	96730	75150	102500	87430	17840	4310	6060

CAL YR 1985 TOTAL 99261 MEAN 272 MAX 1520 MIN 7.5 AC-FT 196900
WTR YR 1986 TOTAL 282401 MEAN 774 MAX 11500 MIN 36 AC-FT 560100

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 mi².

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 except for Feb. 16-19, which are fair. Diversion for municipal use above station.

AVERAGE DISCHARGE.--10 years (1977-86), 2.21 ft³/s, 1,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/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 ft³/s, June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 150 ft³/s, Feb. 19, on basis of slope-conveyance measurement of peak flow, gage height, 5.44 ft; minimum daily, 1.0 ft³/s, Nov. 11-18.

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	e1.3	1.2	1.7	1.6	1.7	4.2	3.6	3.3	4.9	4.6	3.9	3.0
2	e1.3	1.2	2.2	1.6	1.7	4.5	3.6	3.4	5.0	4.7	3.7	3.1
3	e1.3	1.2	1.8	1.6	1.8	4.5	3.6	3.4	5.2	4.6	3.7	3.1
4	e1.3	1.2	1.7	2.0	1.8	4.5	3.6	3.2	5.0	4.8	3.8	3.1
5	e1.3	1.2	1.6	2.0	1.8	4.0	3.6	3.3	5.1	4.4	3.7	3.0
6	e1.3	1.2	1.6	2.0	1.8	3.1	3.4	3.5	5.3	4.2	3.7	3.0
7	1.3	1.2	1.6	1.7	1.7	3.2	3.4	3.4	5.5	4.4	3.7	2.6
8	1.4	1.2	1.6	1.6	2.0	11	3.4	3.4	5.3	4.2	3.4	2.8
9	1.4	1.2	1.6	1.6	1.7	6.2	3.4	2.7	4.9	4.4	3.0	2.7
10	1.4	e1.1	1.4	1.5	2.0	5.2	3.4	1.9	4.6	4.5	3.0	2.7
11	1.4	e1.0	1.2	1.5	2.0	3.6	3.4	2.3	4.7	4.4	3.1	2.7
12	1.4	e1.0	1.2	1.5	2.2	3.4	3.4	2.6	4.9	4.5	3.1	2.7
13	1.4	e1.0	1.4	1.5	3.2	3.4	3.6	2.7	4.9	4.5	3.1	2.6
14	1.4	e1.0	1.5	1.5	3.1	3.4	3.6	3.0	4.9	4.4	3.1	2.5
15	1.4	e1.0	1.5	1.5	3.6	3.4	3.5	3.0	4.9	4.2	3.2	2.5
16	1.4	e1.0	1.5	2.4	8.0	3.4	3.4	2.8	4.9	3.9	3.1	2.7
17	1.4	e1.0	1.5	1.6	42	3.4	3.1	2.9	5.0	4.0	2.9	2.7
18	1.4	1.0	1.5	1.4	35	3.4	3.1	3.1	4.6	4.0	3.1	2.6
19	1.3	1.2	1.6	1.4	37	3.4	3.1	2.7	4.7	3.9	3.1	2.8
20	1.3	1.2	1.6	1.4	4.5	3.4	3.5	2.3	4.9	3.8	3.1	2.6
21	1.3	1.4	1.6	1.2	4.2	3.4	3.6	2.5	4.6	3.9	3.0	2.5
22	1.3	1.4	1.6	1.2	4.2	3.4	3.7	3.1	4.4	3.8	3.0	2.5
23	1.3	1.4	1.6	1.2	4.2	3.4	3.6	3.1	4.3	3.8	3.0	2.6
24	1.3	1.6	1.6	1.4	3.8	3.4	3.7	3.3	4.3	3.7	3.0	3.0
25	1.3	1.5	1.5	1.6	4.0	3.4	3.6	3.6	4.3	3.8	2.9	2.9
26	1.3	1.4	1.5	1.6	4.2	3.4	3.5	4.1	4.7	3.8	2.9	2.9
27	1.3	1.4	1.5	1.6	4.5	3.4	3.5	4.1	4.8	3.8	2.9	3.2
28	1.3	1.7	1.5	1.6	4.5	3.4	3.3	3.9	4.5	3.7	2.8	2.9
29	1.3	1.7	1.6	1.6	---	3.4	3.3	4.0	4.4	3.7	2.9	2.8
30	1.3	1.6	1.8	1.7	---	3.4	3.4	4.4	4.5	3.9	2.8	2.8
31	1.3	---	1.7	1.7	---	3.4	---	4.9	---	3.8	3.0	---
TOTAL	41.4	37.4	48.8	49.3	192.2	122.0	103.9	99.9	144.0	128.1	98.7	83.6
MEAN	1.34	1.25	1.57	1.59	6.86	3.94	3.46	3.22	4.80	4.13	3.18	2.79
MAX	1.4	1.7	2.2	2.4	42	11	3.7	4.9	5.5	4.8	3.9	3.2
MIN	1.3	1.0	1.2	1.2	1.7	3.1	3.1	1.9	4.3	3.7	2.8	2.5
AC-FT	82	74	97	98	381	242	206	198	286	254	196	166

CAL YR 1985 TOTAL 636.7 MEAN 1.74 MAX 3.6 MIN 1.0 AC-FT 1260
WTR YR 1986 TOTAL 1149.3 MEAN 3.15 MAX 42 MIN 1.0 AC-FT 2280

e Estimated.

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 /REA.--5.20 mi².

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.--10 years (1977-86), 4.06 ft³/s, 2,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58 ft³/s, Feb. 17, 1986, gage height, unknown, on basis of slope-conveyance measurement of peak flow; minimum daily, 0.80 ft³/s, Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 584 ft³/s, Feb. 17, gage height, unknown, on basis of slope-conveyance measurement of peak flow; maximum gage height, minimum daily, 2.6 ft³/s, Oct. 1-5.

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	2.6	2.8	2.8	e3.5	3.1	7.8	7.1	7.5	16	7.1	4.7	3.3
2	2.6	2.8	5.3	e3.5	3.2	7.6	6.3	8.0	16	6.9	4.6	3.2
3	2.6	2.8	3.5	e3.5	3.1	7.3	5.8	7.8	16	6.8	4.5	3.2
4	2.6	2.8	3.2	e4.4	3.1	7.3	5.7	7.1	15	6.8	4.5	3.1
5	2.6	2.8	3.1	e4.3	3.1	7.3	5.9	7.0	14	6.7	4.4	e3.1
6	2.8	2.8	3.0	e4.3	3.0	7.2	5.7	6.8	13	6.6	4.4	e3.1
7	3.0	2.8	3.0	e3.7	3.0	9.2	5.7	6.7	13	6.6	4.4	e3.0
8	2.7	2.8	3.0	e3.5	3.0	23	5.3	6.6	12	6.5	4.2	e3.0
9	2.8	2.8	2.9	e3.5	3.0	14	5.2	6.8	11	6.4	4.1	3.0
10	2.8	2.8	2.9	e3.3	3.0	11	5.6	7.3	11	6.3	3.9	3.0
11	3.0	3.1	e2.6	e3.1	3.0	9.0	6.0	7.3	10	6.1	3.8	3.0
12	3.0	3.0	e2.7	e3.0	3.5	8.0	5.7	7.5	11	6.0	3.9	3.0
13	3.0	e3.0	e3.1	e3.0	5.2	7.3	5.1	7.8	10	5.9	3.8	3.1
14	3.0	3.0	e3.3	e3.0	5.4	6.6	4.9	8.4	10	5.6	3.8	3.2
15	3.0	3.0	e3.3	e3.1	6.2	6.3	4.9	8.7	9.8	5.5	3.8	3.2
16	3.0	3.1	e3.3	e3.6	e8.8	6.0	5.0	8.8	9.7	5.5	3.7	3.3
17	3.0	3.1	e3.3	e5.4	e45	5.6	4.8	9.0	9.6	5.5	3.6	3.4
18	3.0	3.0	e3.3	e4.4	e35	5.3	4.7	9.9	9.6	5.4	3.6	3.5
19	3.0	e2.9	e3.5	e3.9	27	5.2	4.8	11	9.4	5.3	3.6	3.7
20	3.0	3.0	e3.5	e3.6	15	5.2	5.4	10	8.9	5.2	3.8	3.7
21	3.0	3.0	e3.5	e3.5	9.5	5.3	6.4	9.8	8.7	5.2	3.6	3.6
22	3.0	3.0	e3.5	3.4	7.7	5.3	7.4	9.8	8.6	5.6	3.5	3.5
23	3.1	3.0	e3.5	3.3	7.2	5.3	7.1	9.3	8.5	7.2	3.4	3.5
24	3.1	3.2	e3.5	3.2	7.2	5.2	6.8	9.9	8.3	5.9	3.4	3.9
25	3.0	3.1	e3.3	3.1	7.4	5.1	6.4	11	8.0	6.2	3.4	4.0
26	3.0	2.9	e3.3	3.1	7.6	5.2	6.1	12	7.7	5.7	3.3	4.0
27	2.9	2.9	e3.3	3.1	7.8	5.7	6.7	12	7.6	5.3	3.5	4.2
28	2.8	3.1	e3.3	3.1	7.8	6.3	7.8	13	7.4	5.1	3.5	4.1
29	2.8	3.1	e3.5	3.1	---	6.9	7.4	14	7.4	5.0	3.4	4.1
30	2.8	2.9	e3.9	3.4	---	7.7	7.3	14	7.2	4.9	3.5	4.4
31	2.8	---	e3.7	3.2	---	7.6	---	15	---	4.8	3.4	---
TOTAL	89.4	88.4	102.9	109.1	246.9	231.8	179.0	289.8	314.4	183.6	119.0	103.4
MEAN	2.88	2.95	3.32	3.52	8.82	7.48	5.97	9.35	10.5	5.92	3.84	3.45
MAX	3.1	3.2	5.3	5.4	45	23	7.8	15	16	7.2	4.7	4.4
MIN	2.6	2.8	2.6	3.0	3.0	5.1	4.7	6.6	7.2	4.8	3.3	3.0
AC-FT	177	175	204	216	490	460	355	575	624	364	236	205

CAL YR 1985 TOTAL 1232.9 MEAN 3.38 MAX 7.3 MIN 1.9 AC-FT 2450
WTR YR 1986 TOTAL 2057.7 MEAN 5.64 MAX 45 MIN 2.6 AC-FT 4080

e Estimated.

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.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s, Feb. 19, 1986, gage height, 8.85 ft, from rating curve extended above 620 ft³/s, minimum daily, 0.38 ft³/s, July 16, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s, Feb. 19, gage height, 8.85 ft, from rating curve extended above 620 ft³/s; minimum daily, 1.60 ft³/s, Aug. 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	6.6	8.0	9.3	8.3	21	18	7.1	14	4.0	7.3	3.2
2	4.1	6.0	26 9.0	9.0	13 8.3	21	17	8.1	14	4.1	6.0	3.9
3	3.8	6.9	10 9.9	9.9	9.3	20	15	6.9	13	3.9	6.4	3.1
4	4.1	6.7	9.0	31 8.9	8.9	20	15	8.4	15	3.8	6.5	2.4
5	4.0	6.3	8.5	14 9.1	9.1	20	19	8.3	15	3.8	6.7	1.9
6	2.5	6.0	8.1	9.7	8.7	22	15	9.9	13	4.4	6.4	2.0
7	6.0	6.3	8.6	9.1	8.5	25	19	9.9	12	4.3	4.4	2.1
8	10 7.0	7.0	8.8	9.1	8.5	124 15	15	10 8.5	11	3.3	3.7	2.8
9	13 6.1	6.1	8.9	9.1	8.2	61 14	14	8.7	12	3.3	3.8	2.4
10	6.5	7.2	8.4	9.3	5.6	56 14	14	7.6	11	3.1	4.1	1.8
11	5.7	8.5	8.3	8.4	4.2	31 13	13	8.0	11	3.9	4.8	2.2
12	5.6	10 7.4	8.8	8.8	7.0	22 13	13	8.3	11	4.0	3.8	2.2
13	5.5	8.2	7.3	8.8	48 8.5	19 13	13	8.5	12	3.3	3.7	2.7
14	6.1	7.7	7.4	9.0	47 8.5	18 9.8	9.8	8.5	10	3.3	3.7	4.9
15	5.9	9.0	8.3	9.1	191 7.7	19 9.8	9.8	7.7	11	3.0	3.4	2.4
16	4.9	9.9	8.4	22 8.4	205 8.3	21 11	11	7.3	9.7	2.5	2.0	2.5
17	5.5	7.9	8.3	20 8.3	701 8.3	18 9.9	9.9	8.8	10 3.1	1.6	3.9	3.9
18	5.6	7.7	8.3	9.7 8.3	313 8.3	17 9.9	9.9	8.7	11 2.5	3.5	3.0	3.0
19	5.3	6.9	8.6	9.9 8.6	580 8.6	17 9.5	9.5	7.5	9.7 2.8	3.1	4.0	4.0
20	5.5	7.6	9.3	9.5 9.3	159 9.3	17 9.2	9.2	8.1	7.0 4.1	2.3	4.7	4.7
21	8.4	8.3	8.8	9.0	56	17	9.0	7.0	7.7	3.4	2.3	5.1
22	6.9	7.9	8.4	8.8	37	17	7.8	7.8	7.7	6.4	2.1	4.6
23	7.3	8.3	8.6	9.0	29	16	7.3	11 6.6	20 6.6	2.1	4.2	4.2
24	7.1	11 8.8	8.8	9.0	24	16	7.6	10 6.7	11 6.7	3.5	7.2	7.2
25	6.2	8.8	9.1	8.3	21	14	7.3	12 6.2	12 6.2	2.4	9.0	9.0
26	5.6	8.1	8.4	8.8	21	15	7.3	11 5.6	5.6	9.2	3.5	6.5
27	6.3	8.0	9.1	8.8	21	15	7.2	10 4.5	4.5	7.9	3.5	13 3.5
28	6.3	9.1	9.1	8.2	21	16	7.8	12 4.2	4.2	8.1	3.0	8.7
29	7.6	12 9.1	9.1	9.1	---	16	8.0	13 4.2	4.2	8.1	2.4	9.1
30	6.6	8.1	18 9.3	9.3	---	15	7.9	13 4.3	4.3	6.9	2.9	6.8
31	5.6	---	10 9.1	9.1	---	14	---	12 7.5	---	7.5	4.2	---
TOTAL	185.8	238.1	293.3	332.1	2573.3	760	346.3	285.1	290.1	171.0	119.1	132.3
MEAN	5.99	7.94	9.46	10.7	91.9	24.5	11.5	9.20	9.67	5.52	3.84	4.41
MAX	13	12	26	31	701	124	19	13	15	20	7.3	13
MIN	2.3	6.0	7.3	8.2	4.2	14	7.2	6.9	4.2	2.5	1.6	1.8
AC-FT	369	472	582	659	5100	1510	687	565	575	339	236	26

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 mi², 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, 1936, water-stage recorder at site 50 ft upstream at datum 5.0 ft higher.

REMARKS.--Records good except for periods with ice effect and for periods of no gage-height record, which are fair. 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.--75 years, 383 ft³/s, 277,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 19	0900	*16,600	*8.35	May 4	0300	1,870	1.47
Mar. 10	0700	6,310	4.23	May 21	0300	2,150	1.71
Apr. 2	0300	1,510	1.40	June 2	0600	3,380	2.51

Minimum daily, 3.1 ft³/s, Aug. 27, but may have been less during period of no gage-height record, Aug. 28 to Sept. 3.

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	18	145	249	318	305	1400	1420	1420	2960	e610	212	e4.0
2	16	135	222	282	296	1360	1420	1430	3110	e490	162	e4.5
3	13	130	358	261	292	1300	1340	1570	2880	e470	130	e5.0
4	9.6	127	463	259	285	1250	1230	1770	2890	e430	123	6.8
5	7.3	126	319	312	281	1250	1190	1470	2580	e395	109	11
6	11	114	270	445	277	1240	1200	1240	2110	e380	99	9.2
7	23	111	252	459	269	1220	1140	1090	1820	e390	83	6.9
8	23	126	244	370	262	1570	1100	971	1660	382	65	5.5
9	37	128	245	333	246	3960	1010	844	1460	336	54	5.7
10	72	135	232	313	243	5790	944	859	1290	288	41	5.2
11	110	144	209	292	233	3190	1070	962	1180	269	25	4.7
12	133	140	174	283	237	1880	1200	1000	1180	225	16	4.0
13	164	e110	e178	277	269	1370	1310	1070	1250	232	15	3.8
14	169	e87	e180	270	570	1180	1120	1130	1320	247	15	6.0
15	161	e94	e180	269	1030	1150	993	1200	1450	218	13	7.9
16	150	e120	e175	267	2880	1060	913	1280	1430	182	10	11
17	143	e115	e170	293	4290	977	842	1390	1270	160	9.9	13
18	141	e120	e165	507	8570	879	721	1440	1160	154	9.4	15
19	136	e115	e160	523	13380	780	663	1580	1130	129	7.9	22
20	133	e128	e164	447	10050	742	662	1810	1070	114	8.2	36
21	131	149	e157	422	8270	758	698	1970	954	112	8.2	60
22	131	164	e157	384	3680	795	861	1730	905	125	8.4	71
23	158	170	e157	350	2330	808	1280	1420	e850	213	6.0	76
24	157	179	e158	333	1880	808	1540	1340	e780	291	4.6	87
25	157	198	e158	312	1670	804	1400	1340	e820	360	5.1	95
26	158	226	e164	294	1570	791	1270	1680	e840	387	3.7	119
27	157	237	e60	290	1510	836	1190	2000	e820	459	3.1	160
28	156	211	e170	288	1430	963	1190	2130	e745	447	e3.1	206
29	149	209	182	291	---	1140	1460	2290	e685	361	e3.3	224
30	133	238	215	290	---	1270	1580	2590	e670	291	e3.4	226
31	133	---	259	292	---	1330	---	2650	---	252	e3.7	---
TOTAL	3289.9	4431	6446	10326	66605	43851	33957	46666	43269	9399	1260.0	1511.2
MEAN	106	148	208	333	2379	1415	1132	1505	1442	303	40.6	50.4
MAX	169	238	463	523	13400	5790	1580	2650	3110	610	212	226
MIN	7.3	87	60	259	233	742	662	844	670	112	3.1	3.8
AC-FT	6530	8790	12790	20480	132100	86980	67350	92560	85820	18640	2500	3000
CAL YR 1985	TOTAL	88574.7	MEAN	243	MAX	1330	MIN	.32	AC-FT	175700		
WTR YR 1986	TOTAL	271010.5	MEAN	742	MAX	13400	MIN	3.1	AC-FT	537500		

e Estimated.

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to current year (published as Carson River near Silver Springs, sta. no. 10312020, October 1962 to September 1970).

CHEMICAL ANALYSES: October 1962 to April 1967, once daily (composited); May 1967 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

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

BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to September 1981, monthly (seasonal). MICROBIOLOGICAL DATA: January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once daily; July 1970 to January 1972, monthly; February 1972 to September 1982, once daily; October 1982 to current year, four times per year.

SEDIMENT DATA: January to June 1974, occasional; January 1975 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

REMARKS.--Monthly water-quality data are collected from 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. Supplemental water-quality data were collected during storm-related high flows in February.

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 1985 TO SEPTEMBER 1986

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 SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO ₃)
NOV 20...	1145	197	350	8.00	5.0	0.0	8.3	12.2	98	K36	K4500	110
MAR 10...	1215	5980	165	7.80	9.0	5.0	170	10.0	93	1000	K2300	57
MAY 15...	1045	1220	140	--	22.0	13.0	20	8.6	96	530	120	43
AUG 05...	1345	111	469	8.40	37.0	26.5	6.5	7.9	116	K16	K20	140

K: NON-IDEAL COLONY COUNT.

CARSON RIVER BASIN

141

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 CAO3)	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 20...	33	7.5	31	1	3.6	113	--	92	59	11	0.40	24
MAR 10...	16	4.0	14	0.8	2.9	67	--	55	17	5.3	0.20	18
MAY 15...	12	3.1	8.3	0.6	1.9	--	--	--	15	2.8	0.10	17
AUG 05...	41	9.9	34	1	5.2	157	2	132	85	10	0.40	26
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 20...	235	230	0.32	0.290	0.020	0.310	0.130	0.120	0.47	0.60	0.390	0.300
MAR 10...	120	110	0.16	--	<0.010	0.370	0.040	0.030	1.2	1.2	0.520	0.090
MAY 15...	93	90	0.13	--	<0.010	<0.100	0.030	0.030	0.37	0.40	0.140	0.090
AUG 05...	296	290	0.40	--	<0.010	<0.100	0.030	0.020	0.47	0.50	0.180	0.160
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 20...	0.200	20	6	43	<0.5	<1	<1	<3	3	54	<1	28
MAR 10...	0.080	270	4	36	<0.5	<1	<1	<3	6	270	1	9
MAY 15...	0.060	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	0.160	10	8	72	<0.5	<1	<1	<3	7	13	<5	23
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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 20...	37	<0.1	<10	2	<1	<1	350	<6	32	30	15	--
MAR 10...	39	<0.1	<10	6	1	<1	180	<6	<3	1180	19000	38
MAY 15...	--	--	--	--	--	--	--	--	--	211	718	46
AUG 05...	13	0.1	<10	4	<1	1	470	<6	7	29	8.7	--

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

SUPPLEMENTAL WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
FEB 18...	1730	9460	198	660	62	18	4.2	18	1	4.7	36	7.3	
19...	1630	13300	--	--	--	--	--	--	--	--	--	--	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
FEB 18...	0.20	14	148	140	0.20	0.330	0.070	0.400	0.140	1.4	1.5	1.9	
19...	--	--	--	--	--	--	--	--	--	--	--	--	
DATE		PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
FEB 18...	0.650	0.300	34	43000	600	<10	<1	8	20	160	52000	120	
19...	--	--	--	--	--	--	--	--	--	--	--	--	
DATE		LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (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	
FEB 18...	50	1700	61	2	19	3	400	350	2320	58400	60		
19...	--	--	--	--	--	--	--	--	1580	59400	83		

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, and 18 mi west of Fallon.

DRAINAGE AREA.--1,799 mi², 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, 310,400 acre-ft, June 10, elevation, 4,163.18 ft; minimum observed, 98,500 acre-ft, Oct. 17, elevation, 4,133.86 ft.

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

4,133	94,800	4,150	187,200
4,137	112,800	4,155	225,600
4,140	127,800	4,160	272,500
4,142	138,400	4,161	283,500
4,147	167,500	4,164	322,100

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103900	111100	129500	145500	174700	293100	300100	290200	299100	301100	255900	200600
2	103500	111100	130600	146000	176000	293100	301100	289400	300300	300100	254500	199200
3	103300	111200	131700	146700	177300	293500	302300	289800	303200	299100	253100	197300
4	103100	111300	132900	147200	178700	293500	304000	289100	305300	298600	251700	195500
5	102800	111300	133700	147800	180700	293700	305500	288400	307700	297600	250900	193700
6	102500	111200	134400	148400	181900	294300	306900	288400	308800	296500	249000	192000
7	102300	111200	135100	149100	183300	294200	307900	288700	309600	295400	247400	190700
8	101500	111300	135900	149800	184700	294400	309100	288100	310100	294300	246000	189000
9	100800	111400	136400	150400	185800	294400	309600	287600	310300	293000	244700	187400
10	100800	111500	137000	151100	186900	296000	309700	287300	310400	291700	243200	185800
11	100000	111700	137500	152300	188100	303300	309700	287300	310100	290400	241800	183900
12	99600	111900	138200	152700	189000	306700	309300	287300	309700	288900	238700	182300
13	99300	112100	138800	153200	189900	307700	308400	287100	309300	287300	236600	180700
14	99000	112600	138900	154000	191900	308900	308100	286700	308600	285800	234700	179100
15	98700	113000	139000	154600	194000	309000	307900	286600	308100	284100	232900	177500
16	98600	113800	139200	155100	196800	309000	307300	286600	307400	282500	231100	174400
17	98500	114700	139500	155700	199600	308900	305500	286300	306700	280900	229200	174400
18	98600	115600	139700	156400	207900	308400	304500	286500	306500	278500	227300	172700
19	98800	116400	140200	157200	221700	307800	303500	286700	306200	276600	225600	171100
20	99100	117500	140700	158200	248400	307100	301900	287200	305900	274700	223200	170000
21	99900	118600	141000	158800	270600	306100	300500	288100	305700	272600	221000	168900
22	100600	119600	141200	159700	284800	304400	298800	288800	305400	270500	219300	167500
23	101300	120600	141400	160900	288400	303300	297500	289400	305100	269600	217500	166200
24	102000	121700	142000	162200	289800	302300	296000	291300	304900	267900	215700	165000
25	101200	122500	142600	164500	291100	301300	294900	292400	304500	266300	213300	163900
26	102000	123500	143000	166100	291800	300200	293800	292800	303800	264900	211500	162800
27	102800	124500	143500	167800	292400	298500	293000	293600	303300	263200	209800	161800
28	103600	125600	143900	169000	292800	298000	292200	294400	302900	262200	207800	160900
29	106000	126700	144300	170600	---	298100	291500	295400	302400	261200	206200	160100
30	108800	128200	144700	171400	---	298500	290800	296700	301800	258800	204200	159200
31	111100	---	145100	173500	---	299100	---	297700	---	257300	202400	---
MAX	111100	128200	145100	173500	292800	309000	309700	297700	310400	301100	255900	200600
MIN	98500	111100	129500	145500	174700	293100	290800	286300	299100	257300	202400	159200
#	4136.63	4140.09	4143.20	4147.95	4161.80	4162.32	4161.63	4162.21	4162.53	4162.51	4152.10	4145.64
##	+6800	+17100	+169000	+28400	+119300	+6300	-8300	+6900	+4100	-44500	-54900	-43200

CAL YR 1985 TOTAL 66779700 MEAN 183000 MAX 276900 MIN 98500 ## -3400
WTR YR 1986 TOTAL 79681700 MEAN 218300 MAX 310400 MIN 98500 ## +40700

Elevation, in feet NGVD, at end of month.

Change in contents, in acre-feet.

CARSON RIVER BASIN

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in 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 mi² (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 poor. 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.--20 years, 574 ft³/s, 415,900 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft³/s, June 6, gage height, 5.78 ft; minimum observed, 2.8 ft³/s, Dec. 31, but may have been less during period of no gage-height record, Nov. 12 to Feb. 20.

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	590	509	e9.2	e2.8	e2.8	1320	768	1630	1870	1140	1020	887
2	586	509	e9.2	e2.8	e2.8	1330	649	1630	1960	1150	1020	884
3	589	509	e8.8	e2.8	e2.8	1330	594	1630	2040	1150	1020	878
4	588	443	e8.4	e2.8	e2.8	1350	691	1630	2110	1170	1030	869
5	587	386	e8.1	e2.8	e2.8	1380	761	1640	2180	1100	1120	858
6	586	385	e7.8	e2.8	e2.8	1350	808	1640	2230	1040	1140	851
7	527	385	e7.5	e2.8	e2.8	1360	880	1630	2170	1040	1140	844
8	462	385	e7.2	e2.8	e2.8	1380	1360	1430	2140	1060	1140	838
9	460	385	e6.9	e2.8	e2.8	1340	1800	1180	2080	1060	1140	832
10	460	385	e6.6	e2.8	e2.8	1470	1860	1180	2030	1050	1140	824
11	460	385	e6.3	e2.8	e2.8	1660	1820	1180	1990	1050	1140	816
12	462	e11	e6.1	e2.8	e2.8	1830	1800	1190	1920	1050	1120	809
13	463	e11	e5.8	e2.8	e2.8	1830	1640	1190	1770	1040	1110	803
14	e195	e11	e5.6	e2.8	e2.8	1790	1610	1110	1680	1050	1110	796
15	e30	e11	e5.4	e2.8	e2.8	1770	1690	1070	1560	1050	1110	788
16	e40	e10	e5.2	e2.8	e2.8	1730	1740	1070	1400	1140	1110	783
17	e40	e10	e5.0	e2.8	e2.8	1760	1840	1060	1280	1150	1100	779
18	e40	e10	e4.8	e2.8	e2.8	1740	1770	1060	1170	1140	1100	777
19	e40	e10	e4.6	e2.8	e2.8	1720	1700	1050	1110	1150	1100	719
20	e40	e10	e4.4	e2.8	e2.8	1720	1650	1060	1110	1150	1020	604
21	e40	e10	e4.2	e2.8	e344	1680	1620	1050	1110	1150	976	548
22	e40	e9.9	e4.0	e2.8	772	1660	1620	1160	1160	1140	973	574
23	e40	e9.8	e3.9	e2.8	1060	1650	1600	1260	1140	1150	968	552
24	e40	e9.7	e3.7	e2.8	1070	1610	1610	1290	1170	1100	964	552
25	e40	e9.6	e3.6	e2.8	1150	1580	1610	1290	1150	1020	966	518
26	e40	e9.5	e3.4	e2.8	1270	1400	1610	1300	1160	1020	963	491
27	e40	e9.4	e3.3	e2.8	1310	e442	1610	1300	1160	1020	922	484
28	e40	e9.4	e3.2	e2.8	1320	e149	1620	1540	1150	1020	895	475
29	e20	e9.3	e3.0	e2.8	---	566	1620	1730	1140	1020	895	469
30	e373	e9.3	e2.9	e2.8	---	614	1630	1770	1140	1030	888	465
31	509	---	e2.8	e2.8	---	655	---	1820	---	1030	886	---
TOTAL	8467	4855.9	170.9	86.8	8352.0	43166	43581	41770	47280	33630	32226	21367
MEAN	273	162	5.51	2.80	298	1392	1453	1347	1576	1085	1040	712
MAX	590	509	9.2	2.8	1320	1830	1860	1820	2230	1170	1140	887
MIN	20	9.3	2.8	2.8	2.8	149	594	1050	1110	1020	886	465
AC-FT	16790	9630	339	172	16570	85620	86440	82850	93780	66710	63920	42380

CAL YR 1985 TOTAL 172821.7 MEAN 473 MAX 1100 MIN 2.1 AC-FT 342800
WTR YR 1986 TOTAL 284952.5 MEAN 781 MAX 2230 MIN 2.8 AC-FT 565200

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 September 1986.

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 ft³/s, June 4, 1986, gage height 5.22 ft; minimum daily, 1.4 ft³/s, Oct. 29, 1986, but may have been less during period of estimated daily discharges.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 753 ft³/s, June 4, gage height, 5.22 ft; minimum daily, 1.4 ft³/s, Oct. 29, but may have been less during period of estimated daily discharges.

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	e14	e3.0	15	9.3	4.1	631	19	506	544	14	10	13
2	e11	e3.0	15	8.6	4.1	626	59	529	579	27	10	14
3	e15	e3.0	15	8.1	3.8	632	31	533	602	33	10	16
4	e5.9	e3.0	14	8.4	3.8	626	17	545	697	58	14	12
5	e2.8	e3.0	14	10	3.7	633	15	516	706	43	14	8.0
6	e7.2	e3.0	14	9.4	3.7	635	13	509	728	39	14	7.5
7	e6.9	e3.0	14	7.7	3.7	624	12	499	721	29	9.8	9.4
8	e6.9	e3.0	15	7.5	4.8	619	71	366	675	19	25	8.1
9	e2.2	e3.0	15	7.0	5.0	634	471	209	655	22	16	5.8
10	e2.2	e3.0	14	6.7	4.5	640	580	133	687	29	12	5.7
11	e6.2	e3.0	e11	6.9	4.8	684	580	116	708	22	14	9.0
12	e3.8	e3.0	e10	6.9	4.3	681	580	103	704	31	18	6.3
13	e6.5	e2.4	e8.0	6.9	4.5	723	574	90	586	28	22	5.3
14	e11	e3.0	e8.0	6.9	4.0	703	556	61	521	35	18	5.1
15	e6.2	e3.0	e8.0	6.8	4.4	694	535	63	430	45	17	4.7
16	e2.4	e2.0	e8.0	6.4	3.8	703	609	21	380	31	21	11
17	e1.8	e2.0	e8.0	6.0	3.7	709	661	22	215	30	17	13
18	e1.8	e2.0	e8.0	5.5	3.3	718	685	25	140	24	16	12
19	e1.6	e2.0	e8.5	5.6	4.2	707	668	24	175	16	19	11
20	e1.8	e3.0	e8.5	5.5	4.3	711	669	11	139	19	14	27
21	e1.8	e3.0	e8.5	5.3	3.6	709	648	20	128	16	19	21
22	e2.0	e3.0	e8.5	5.3	74	694	626	e6.0	47	15	15	23
23	e1.8	e3.0	e10	5.1	396	676	565	14	29	18	20	20
24	e1.8	e3.0	e10	4.7	544	664	530	8.5	19	52	16	15
25	e2.8	e3.0	e10	4.7	550	650	504	49	17	54	11	13
26	e2.2	e3.0	e8.0	4.7	517	671	516	88	25	52	12	12
27	e2.2	e13	e6.5	5.2	536	396	517	91	29	44	12	13
28	e1.8	e13	e6.5	5.0	606	110	532	98	33	41	14	9.2
29	e1.4	14	e7.0	4.8	---	70	492	303	27	25	13	18
30	e1.6	15	e8.0	4.3	---	47	500	404	20	20	14	27
31	e3.0	---	10	4.1	---	29	---	503	---	13	17	---
TOTAL	139.6	128.4	324.0	199.3	3309.1	18049	12835	6465.5	10966	944	473.8	375.1
MEAN	4.50	4.28	10.5	6.43	118	582	428	209	366	30.5	15.3	12.5
MAX	15	15	15	10	606	723	685	545	728	58	25	27
MIN	1.4	2.0	6.5	4.1	3.3	29	12	6.0	17	13	9.8	4.7
AC-FT	277	255	643	395	6560	35800	25460	12820	21750	1870	940	744

WTR YR 1986 TOTAL 54208.7 MEAN 149 MAX 728 MIN 1.4 AC-FT 107500

e Estimated.

HUMBOLDT RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. 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, 1957, 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 estimated daily discharges, which are fair. Several diversions for irrigation of 7,150 acres, Humboldt Decree, above station.

AVERAGE DISCHARGE.--42 years (1943-80, 1982-86), 70.2 ft³/s, 50,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft³/s, Feb. 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft³/s on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

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

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 19	1000	521	4.97	Apr. 1	1100	398	4.35
Mar. 10	1000	*536	*5.03	June 2	0800	513	4.91

Minimum daily, 3.5 ft³/s, Sept. 7.

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	6.9	18	24	e29	47	325	391	223	500	43	17	4.1
2	7.1	18	25	e30	48	333	390	223	506	40	16	4.0
3	7.0	18	25	e29	50	355	368	232	465	39	15	3.7
4	9.1	18	23	e27	47	390	335	256	420	37	14	3.7
5	9.2	18	25	e25	46	389	303	297	418	36	13	3.6
6	9.1	18	25	e24	41	394	296	322	410	35	12	3.6
7	9.5	18	24	e26	41	403	299	303	381	35	12	3.5
8	11	18	22	e28	e40	416	324	276	399	34	11	3.9
9	11	18	20	e28	e40	447	356	248	357	33	11	3.9
10	12	19	19	28	39	520	352	226	287	31	10	3.9
11	12	18	e18	28	e39	469	329	213	248	30	9.8	4.2
12	12	16	e18	30	e40	400	316	196	215	29	8.8	4.3
13	12	17	e18	28	41	360	315	184	189	28	8.3	4.6
14	12	18	e18	28	42	320	299	177	173	27	8.0	4.6
15	13	20	e18	29	116	287	282	172	162	25	7.7	5.0
16	14	20	e18	29	147	270	261	169	155	24	7.3	5.0
17	13	21	e18	31	290	262	247	170	138	23	7.1	5.2
18	13	20	e18	34	481	237	234	175	118	23	6.8	5.7
19	14	18	e18	35	504	210	222	186	112	21	6.7	6.0
20	14	18	e18	37	409	196	215	206	99	21	6.6	6.3
21	14	18	e19	35	294	189	224	235	85	19	e6.4	6.9
22	13	19	e20	39	207	197	254	279	76	18	e5.1	7.1
23	15	19	22	35	185	210	284	295	71	18	5.2	7.4
24	16	20	23	35	216	228	328	272	62	18	4.9	7.7
25	18	22	e22	39	249	246	342	245	61	20	4.9	7.7
26	18	20	e21	36	274	238	332	240	59	21	4.7	8.6
27	18	22	e21	35	299	245	296	265	55	20	4.6	10
28	18	23	e22	36	320	269	274	312	51	20	4.4	12
29	18	24	e23	40	---	301	263	375	47	19	4.5	12
30	18	23	e25	42	---	332	240	446	45	18	4.4	13
31	17	---	e27	44	---	367	---	480	---	17	4.1	---
TOTAL	403.9	577	657	999	4592	9805	8971	7898	6364	822	261.3	181.2
MEAN	13.0	19.2	21.2	32.2	164	316	299	255	212	26.5	8.43	6.04
MAX	18	24	27	44	504	520	391	480	506	43	17	13
MIN	6.9	16	18	24	39	189	215	169	45	17	4.1	3.5
AC-FT	801	1140	1300	1980	9110	19450	17790	15670	12620	1630	518	359

CAL YR 1985 TOTAL 19888.7 MEAN 54.5 MAX 400 MIN 1.8 AC-FT 39450
WTR YR 1986 TOTAL 41531.2 MEAN 114 MAX 520 MIN 3.5 AC-FT 82380

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 mi², approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. 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.--Estimated daily discharges: Nov. 10-20, Nov. 30, Dec. 1, Dec. 9-15, Dec. 28 to Jan. 27, and Feb. 5-11. Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--50 years (1915-22, 1943-86), 45.5 ft³/s, 32,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 838 ft³/s, June 3, 1986, gage height, 6.08 ft, from rating curve extended above 260 ft³/s, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft³/s, Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 310 ft³/s and maximum (*), based on rating curve extended above 260 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 28	2200	748	5.89	June 14	2000	403	4.99
June 3	2000	*838	*6.08				

Minimum daily discharge, 5.3 ft³/s, Jan. 6.

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	5.4	7.0	e9.8	e6.5	7.0	11	38	62	580	155	33	14
2	5.4	6.9	10	e6.5	6.9	11	40	72	581	158	31	13
3	5.6	7.1	9.4	e6.4	6.7	11	39	99	652	163	30	12
4	5.4	7.3	9.0	e6.4	6.7	12	38	112	660	154	28	11
5	5.4	7.6	9.0	e6.2	e6.7	14	38	94	540	124	27	10
6	5.4	7.4	11	e5.3	e6.0	15	39	87	427	101	26	9.6
7	6.5	7.4	10	e5.4	e5.7	17	39	80	382	97	25	9.2
8	5.9	7.6	9.4	e5.6	e5.4	23	40	73	356	98	24	9.2
9	5.9	7.6	e8.2	e6.0	e5.4	21	40	69	300	91	22	9.4
10	5.9	e7.3	e6.4	e6.4	e5.6	21	39	66	292	85	22	8.8
11	5.9	e7.1	e5.9	e6.6	e6.0	20	40	62	319	90	20	8.0
12	5.9	e7.1	e6.0	e6.8	6.2	20	40	61	317	91	20	7.7
13	5.8	e7.0	e6.4	e7.2	6.1	20	39	62	311	88	18	7.3
14	5.7	e7.1	e6.8	e7.6	6.0	18	38	64	335	88	17	7.8
15	5.8	e7.4	e7.1	e8.3	5.9	18	38	66	324	78	17	7.3
16	5.7	e7.8	7.9	e8.6	5.6	17	37	68	315	68	16	7.0
17	5.8	e7.8	7.9	e8.9	7.0	17	37	72	324	62	15	6.9
18	5.9	e7.9	7.9	e8.9	6.8	16	35	88	301	59	14	7.9
19	5.9	e7.8	7.8	e8.6	9.4	16	35	120	263	55	14	8.2
20	5.9	e8.1	7.7	e8.3	7.8	16	36	166	239	53	16	7.6
21	6.6	8.4	7.6	e8.1	7.3	17	43	180	223	51	18	7.0
22	6.6	8.3	7.7	e7.7	7.0	17	54	157	219	49	16	6.6
23	7.0	8.1	7.9	e7.5	6.8	17	64	154	220	65	14	6.3
24	7.0	8.9	7.8	e7.4	6.9	18	65	175	232	57	13	6.7
25	6.9	9.0	7.9	e7.4	7.2	18	62	249	240	50	12	7.4
26	7.5	9.4	8.0	e7.4	8.0	18	59	373	232	46	12	7.5
27	7.8	8.4	8.0	e7.3	8.9	19	57	479	235	43	12	7.4
28	7.4	9.3	e7.5	7.3	9.8	21	58	573	215	40	22	7.0
29	7.4	9.8	e7.2	7.2	---	24	59	614	182	38	21	6.9
30	7.4	e9.8	e6.8	7.2	---	28	59	593	159	36	17	7.4
31	7.1	---	e6.6	7.1	---	33	---	584	---	34	15	---
TOTAL	193.8	237.7	246.6	222.1	190.8	564	1345	5774	9975	2467	607	252.1
MEAN	6.25	7.92	7.95	7.16	6.81	18.2	44.8	186	332	79.6	19.6	8.40
MAX	7.8	9.8	11	8.9	9.8	33	65	614	660	163	33	14
MIN	5.4	6.9	5.9	5.3	5.4	11	35	61	159	34	12	6.3
AC-FT	384	471	489	441	378	1120	2670	11450	19790	4890	1200	500

CAL YR 1985 TOTAL 14290.0 MEAN 39.2 MAX 312 MIN 5.4 AC-FT 28340
WTR YR 1986 TOTAL 22075.1 MEAN 60.5 MAX 660 MIN 5.3 AC-FT 43790

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 mi².

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

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 estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--7 years, 6.78 ft³/s, 4,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 168 ft³/s, May 11, 1984, gage height, 3.17 ft; minimum daily, 1.2 ft³/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, 40 ft³/s, Feb. 19, gage height, 1.94 ft, from rating curve extended above 20 ft³/s; minimum daily, 1.6 ft³/s, Aug. 10-20, 24-28.

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	2.2	2.6	2.5	2.2	2.6	16	e19	e13	e16	4.2	1.9	1.7
2	2.2	2.6	2.6	2.0	2.6	19	e19	e13	e16	4.1	1.9	1.9
3	2.2	2.6	2.6	1.9	2.4	20	e18	e14	e16	3.9	1.8	1.9
4	2.2	2.6	2.4	2.1	2.4	21	16	e14	e15	3.6	1.7	1.9
5	2.2	2.6	2.4	2.2	2.2	19	16	e15	e15	3.7	1.7	1.9
6	2.6	2.4	2.3	2.0	2.3	20	15	e15	e14	3.7	1.7	1.9
7	3.2	2.4	2.3	2.0	2.4	19	16	e14	e13	3.5	1.7	1.7
8	2.6	2.4	2.2	2.1	2.3	23	18	e13	e12	3.4	1.7	2.2
9	2.4	2.3	2.5	2.0	2.3	22	18	e13	e11	3.2	1.7	2.2
10	2.4	2.4	2.5	2.0	2.3	18	17	e13	10	3.1	1.6	2.1
11	2.3	2.6	2.3	2.0	2.2	17	18	e12	9.8	3.0	1.6	2.0
12	2.4	2.3	2.4	2.0	2.2	16	e17	e12	9.7	2.9	1.6	1.9
13	2.4	2.4	2.4	2.0	2.2	14	e17	e12	9.4	2.8	1.6	1.9
14	2.3	2.4	2.4	2.0	2.2	15	e16	e11	9.1	2.6	1.6	1.9
15	2.4	2.3	2.4	2.1	3.8	15	e15	e11	8.9	2.5	1.6	1.9
16	2.4	2.6	2.2	2.2	2.9	e14	e14	e12	8.5	2.5	1.6	2.0
17	2.4	2.4	2.2	2.6	10	e13	e15	e12	8.0	2.6	1.6	1.9
18	2.4	2.3	2.2	2.9	28	e12	e16	e12	7.5	2.6	1.6	1.9
19	2.4	2.5	2.2	2.9	38	e12	e16	e13	7.0	2.5	1.6	2.0
20	2.4	2.6	2.2	2.7	33	e11	e17	e13	6.6	2.4	1.6	2.0
21	2.5	2.4	2.2	2.6	28	e12	e17	e14	6.3	2.4	1.9	2.0
22	2.5	2.4	2.2	2.6	25	e13	e17	e14	6.1	2.4	1.9	2.0
23	3.0	2.4	2.2	2.6	24	e13	e16	e13	5.9	3.2	1.7	2.0
24	2.8	2.5	2.2	2.6	25	e14	e16	e13	5.6	3.7	1.6	2.3
25	2.6	2.5	2.2	2.5	27	e15	e15	e13	5.5	3.0	1.6	2.4
26	2.5	2.5	2.2	2.4	26	e14	e15	e14	5.2	2.4	1.6	2.4
27	2.4	2.6	2.2	2.4	21	e15	e14	e15	4.9	2.3	1.6	2.2
28	2.4	2.6	2.2	2.5	15	e16	e14	e16	4.7	2.1	1.6	1.9
29	2.4	2.6	2.2	2.6	---	e17	e13	e16	4.5	1.9	1.7	1.9
30	2.4	2.4	2.2	2.5	---	e18	e13	e16	4.4	2.0	1.7	2.3
31	2.6	---	2.2	2.5	---	e18	---	e16	---	2.0	1.7	---
TOTAL	76.1	74.2	71.4	71.7	339.3	621	483	417	275.6	90.2	52.0	60.2
MEAN	2.45	2.47	2.30	2.31	12.1	20.0	16.1	13.5	9.19	2.91	1.68	2.01
MAX	3.2	2.6	2.6	2.9	38	133	19	16	16	4.2	1.9	2.4
MIN	2.2	2.3	2.2	1.9	2.2	11	13	11	4.4	1.9	1.6	1.7
AC-FT	151	147	142	142	673	1230	958	827	547	179	103	119

CAL YR 1985 TOTAL 1705.3 MEAN 4.67 MAX 25 MIN 1.7 AC-FT 3380
WTR YR 1986 TOTAL 2631.7 MEAN 7.21 MAX 133 MIN 1.6 AC-FT 5220

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 mi², approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft, 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 discharges above 2,000 ft³/s, Feb. 16-22 and June 2-11, which are fair, and estimated daily discharges, Dec. 12-20, Dec. 26 to Jan. 15, and Jan. 21-28, which are poor. Diversions for irrigation of 95,800 acres, above station.

AVERAGE DISCHARGE.--49 years (1896-1902, 1945-86), 270 ft³/s, 195,400 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,820 ft³/s, Feb. 19, gage height, 7.64 ft, from rating curve extended above 1,530 ft³/s; minimum daily, 8.1 ft³/s, Sept. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	47	111	e108	141	1150	651	777	1500	310	71	11
2	16	48	133	e106	144	1120	699	704	1900	271	67	11
3	16	49	133	e102	157	1160	743	649	2400	247	63	9.9
4	19	50	125	e99	158	1160	774	603	2630	223	60	9.4
5	19	52	116	e98	144	1030	766	668	2730	201	56	9.8
6	19	53	105	e94	130	983	737	835	2850	189	53	8.7
7	21	54	116	e91	119	961	710	989	2830	182	50	8.1
8	21	55	122	e90	108	982	728	1080	2730	174	46	8.5
9	22	56	120	e88	101	1120	924	1160	2640	169	43	10
10	24	54	105	e87	102	1330	1190	1150	2470	163	39	10
11	26	54	100	e86	89	1180	1270	1060	2070	154	36	10
12	27	50	e96	e86	88	1160	1160	971	1690	145	33	11
13	27	53	e95	e86	126	1230	1060	864	1480	135	30	11
14	29	57	e94	e87	361	1170	1000	730	1310	124	28	12
15	30	64	e95	e88	575	1080	967	643	1170	115	26	13
16	32	77	e96	89	1290	1000	915	591	1050	110	25	13
17	33	79	e98	114	2080	981	854	561	939	104	23	14
18	33	75	e102	193	4430	917	806	528	841	101	22	15
19	34	97	e106	196	6410	781	761	496	770	95	20	16
20	37	83	e110	172	5000	727	700	465	713	90	19	16
21	39	86	113	e140	3230	674	644	448	647	84	19	17
22	39	96	112	e122	1970	631	604	465	580	81	18	17
23	41	88	114	e116	1520	598	587	558	515	78	18	17
24	42	93	117	e110	1510	588	611	609	479	78	17	18
25	44	103	118	e106	1880	570	703	600	465	95	15	19
26	44	115	e114	e104	1680	556	779	579	443	100	14	22
27	44	113	e112	e106	1440	553	800	609	418	95	14	24
28	46	111	e108	e110	1280	559	808	686	395	90	15	26
29	46	117	e104	112	---	561	844	822	375	85	15	28
30	47	126	e106	114	---	577	859	995	349	80	13	29
31	47	---	e110	131	---	604	---	1230	---	76	12	---
TOTAL	979	2255	3406	3431	36263	27693	24654	23125	41379	4244	980	444.4
MEAN	31.6	75.2	110	111	1295	893	822	746	1379	137	31.6	14.8
MAX	47	126	133	196	6410	1330	1270	1230	2850	310	71	29
MIN	15	47	94	86	88	553	587	448	349	76	12	8.1
AC-FT	1940	4470	6760	6810	71930	54930	48900	45870	82080	8420	1940	881

CAL YR 1985 TOTAL 79300.2 MEAN 217 MAX 1170 MIN 1.6 AC-FT 157300
WTR YR 1986 TOTAL 168853.3 MEAN 463 MAX 6410 MIN 8.1 AC-FT 334900

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 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft, above Nevada State Highway Department Datum.

REMARKS.--Estimated daily discharges: Nov. 15-23, Dec. 12-29, and Jan. 6, 7. Records good except for periods of estimated daily discharges, which are poor. Many diversions for irrigation of about 143,000 acres, above station.

AVERAGE DISCHARGE.--43 years, 402 ft³/s, 291,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,250 ft³/s, May 17, 1984, gage height, 10.04 ft; maximum gage height, 10.21 ft, Feb. 14, 1962; minimum, 0.1 ft³/s, Aug. 16, 1959.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,300 ft³/s, Feb. 20, gage height, 8.30 ft; minimum daily, 13 ft³/s, Sept. 7, 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	75	167	152	334	1610	939	1040	2620	570	78	23
2	37	77	176	155	315	1540	984	955	2770	521	77	23
3	37	80	183	153	308	1490	1020	886	2940	472	67	19
4	38	81	182	163	312	1490	1050	894	3150	418	58	16
5	39	83	175	168	313	1470	1060	985	3310	382	57	15
6	41	84	164	e169	259	1370	1040	1190	3270	354	69	14
7	45	84	159	e170	210	1310	1010	1350	3170	331	55	13
8	46	86	173	174	209	1290	1030	1470	3130	311	49	13
9	48	87	167	198	192	1340	1160	1510	2940	289	47	14
10	47	88	158	188	208	1440	1300	1520	2700	282	44	15
11	50	87	102	180	194	1610	1500	1440	2560	268	42	15
12	52	81	e97	180	238	1530	1530	1310	2320	252	40	15
13	53	79	e94	180	259	1500	1420	1240	2050	240	39	15
14	55	78	e93	171	423	1500	1320	1140	1850	220	38	16
15	55	e78	e93	179	758	1430	1240	1040	1710	204	36	17
16	57	e77	e94	188	944	1360	1200	976	1590	187	34	17
17	59	e76	e96	241	1470	1270	1150	914	1430	173	32	17
18	62	e75	e100	334	2430	1220	1100	874	1290	163	31	18
19	62	e75	e102	379	3930	1170	1050	831	1180	156	30	19
20	62	e75	e102	417	5110	1050	975	826	1100	149	30	22
21	62	e77	e101	314	4230	994	888	881	1010	139	29	26
22	64	e83	e100	259	3000	946	850	951	937	129	28	29
23	69	e93	e99	274	2170	909	850	1010	868	126	28	29
24	78	105	e102	229	1810	877	892	1080	808	142	27	27
25	75	130	e105	217	1780	851	986	1110	770	144	27	32
26	68	139	e106	210	2020	839	1070	1200	738	148	26	42
27	73	143	e108	207	1910	826	1070	1360	718	142	26	44
28	77	157	e110	224	1740	823	1070	1670	697	129	26	53
29	74	168	e120	247	---	833	1060	1970	668	101	26	54
30	77	172	135	262	---	848	1060	2240	618	89	24	55
31	77	---	137	317	---	880	---	2450	---	84	23	---
TOTAL	1776	2873	3900	6899	37076	37616	32874	38313	54912	7315	1243	727
MEAN	57.3	95.8	126	223	1324	1213	1096	1236	1830	236	40.1	24.2
MAX	78	172	183	417	5110	1610	1530	2450	3310	570	78	55
MIN	37	75	93	152	192	823	850	826	618	84	23	13
AC-FT	3520	5700	7740	13680	73540	74610	65210	75990	108900	14510	2470	1440

CAL YR 1985 TOTAL 120287 MEAN 330 MAX 1480 MIN 10 AC-FT 238600
WTR YR 1986 TOTAL 225524 MEAN 618 MAX 5110 MIN 13 AC-FT 447300

e Estimated.

HUMBOLDT RIVER BASIN

151

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1949 to October 1951, November 1961 to March 1971, September 1971 to current year (published as Humboldt River at Carlin, sta. no. 10321000, October 1965 to September 1968).

CHEMICAL ANALYSES: October 1965 to September 1968, once daily (composited); April 1979 to September 1980, monthly; October 1980 to current year, every two months.

SPECIFIC CONDUCTANCES: October 1965 to September 1968, daily; May 1977 to September 1978, April 1979 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.

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

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

WATER TEMPERATURES: August 1949 to October 1951, monthly (seasonal); November 1961 to March 1971, September 1971 to September 1980, monthly; October 1980 to April 1981, every two months; May 1981 to September 1983, hourly; October 1983 to current year, every two months.

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

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 677 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 1985 TO SEPTEMBER 1986

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 CaCO ₃)
NOV 19...	1220	76	586	8.70	-3.5	0.0	11	15.2	121	K4	K30	190
JAN 22...	1300	247	442	8.30	5.5	1.0	50	12.6	104	K12	1700	140
MAR 27...	1145	822	398	8.20	21.5	12.0	47	9.8	105	K17	K10	130
MAY 22...	1115	942	352	8.40	11.0	12.0	40	8.0	86	140	150	130
JUL 23...	1250	126	442	8.70	21.0	21.0	9.5	8.9	116	K32	K34	160
SEP 23...	1215	29	625	8.80	22.5	15.0	1.0	12.3	143	--	--	200

K: NON-IDEAL COLONY COUNT.

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 AS CAO3)	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...	56	13	50	2	7.1	258	6	222	51	26	0.60	33
JAN 22...	39	11	36	1	7.1	200	--	164	38	16	0.40	26
MAR 27...	36	10	29	1	5.3	175	--	143	29	16	0.40	28
MAY 22...	38	8.8	25	1	4.8	--	--	--	24	11	0.30	28
JUL 23...	47	10	33	1	6.3	206	11	187	30	14	0.40	23
SEP 23...	57	14	59	2	13	250	16	231	54	34	0.60	28
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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...	351	370	0.48	0.090	0.020	0.110	0.130	0.100	0.37	0.50	0.300	0.260
JAN 22...	287	270	0.39	0.160	0.020	0.180	0.240	0.200	0.66	0.90	0.290	0.180
MAR 27...	253	240	0.34	--	0.010	<0.100	0.050	0.050	0.45	0.50	0.110	0.080
MAY 22...	232	230	0.32	--	<0.010	<0.100	0.050	0.010	0.85	0.90	0.150	0.070
JUL 23...	281	280	0.38	--	0.010	<0.100	0.040	0.020	0.36	0.40	0.120	0.050
SEP 23...	--	400	0.54	--	<0.010	<0.100	0.060	0.020	--	--	0.310	0.280
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...	0.140	10	8	110	<0.5	<1	<1	<3	3	9	<1	37
JAN 22...	0.170	--	--	--	--	--	--	--	--	--	--	--
MAR 27...	0.050	50	7	68	<0.5	<1	<1	<3	4	47	1	18
MAY 22...	0.060	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	0.080	--	--	--	--	--	--	--	--	--	--	--
SEP 23...	0.260	<10	10	120	<0.5	<1	<1	<3	1	9	--	55
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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 19...	56	0.2	<10	2	<1	<1	440	<6	10	64	13	--
JAN 22...	--	--	--	--	--	--	--	--	--	167	111	86
MAR 27...	8	<0.1	<10	<1	<1	<1	230	<6	7	175	388	89
MAY 22...	--	--	--	--	--	--	--	--	--	128	326	--
JUL 23...	--	--	--	--	--	--	--	--	--	28	9.5	--
SEP 23...	12	<0.1	<10	1	<1	<1	510	<6	9	10	0.77	--

HUMBOLDT RIVER BASIN

10327500 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 mi², 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 of Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

REMARKS.--Records good except for period of missing record, July 13-31, which are fair, and period with ice effect, Dec. 8-31, which are poor. Diversions for irrigation of 148,000 acres of hay and pastureland above station.

AVERAGE DISCHARGE.--79 years (1902-6, 1911-86), 408 ft³/s, 295,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft³/s, May 18, 1984, gage height, 10.08 ft; minimum, 2 ft³/s, Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft, present datum, about Feb. 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft³/s, from rating curve extended above 7,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,980 ft³/s, Feb. 20, gage height, 8.83 ft; minimum daily, 23 ft³/s, Sept. 6, 7.

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	60	102	221	132	399	2280	1220	1200	2560	624	64	28
2	60	104	233	139	381	2210	1270	1120	2700	586	58	28
3	60	106	238	140	365	2160	1290	1050	2880	525	55	30
4	61	109	237	138	365	2070	1310	1060	3070	473	49	27
5	61	111	230	162	368	2030	1310	1160	3250	427	44	24
6	64	111	221	201	333	1900	1280	1320	3240	405	45	23
7	72	113	210	202	264	1820	1250	1490	3180	375	45	23
8	72	114	e182	190	259	1790	1290	1620	3120	357	36	24
9	75	116	e147	192	251	1870	1440	1640	2980	331	35	26
10	75	120	e115	194	268	1910	1580	1650	2740	320	35	27
11	74	123	e98	192	246	2080	1720	1620	2590	310	35	27
12	77	111	e98	194	273	2000	1800	1480	2400	297	34	27
13	78	104	e100	192	357	1920	1710	1400	2130	e270	33	26
14	81	115	e107	192	530	1910	1600	1300	1910	e250	32	28
15	81	117	e110	192	864	1830	1500	1210	1750	e235	33	29
16	84	131	e111	202	1130	1740	1440	1140	1630	e222	31	29
17	85	142	e113	263	2340	1640	1370	1070	1480	e210	30	29
18	88	150	e114	365	4250	1560	1310	1030	1350	e194	33	31
19	89	146	e120	419	5370	1500	1250	983	1190	e181	38	32
20	89	128	e113	461	5870	1380	1180	945	1100	e169	36	33
21	89	140	e112	388	5210	1300	1090	984	1040	e159	36	37
22	96	149	e110	307	3930	1240	1030	1050	962	e148	35	41
23	98	149	e112	318	3000	1200	1030	1050	896	e144	33	44
24	106	149	e120	283	2740	1160	1080	1090	818	e148	32	44
25	106	198	e128	254	2540	1130	1160	1130	777	e157	31	47
26	98	199	e120	249	2790	1110	1260	1210	752	e163	31	57
27	96	196	e118	247	2680	1100	1250	1330	725	e164	30	65
28	103	207	e121	254	2450	1090	1240	1580	709	e152	30	70
29	101	223	e124	279	---	1110	1240	1910	711	e130	30	73
30	102	227	e128	301	---	1130	1220	2240	682	e113	29	76
31	104	---	e130	365	---	1170	---	2410	---	96	28	---
TOTAL	2585	4210	4441	7607	49823	50340	39720	41472	55322	8335	1146	1105
MEAN	83.4	140	143	245	1779	1624	1324	1338	1844	269	37.0	36.8
MAX	106	227	238	461	5870	2280	1800	2410	3250	624	64	76
MIN	60	102	98	132	246	1090	1030	945	682	96	28	23
AC-FT	5130	8350	8810	15090	98820	99850	78780	82260	109700	16530	2270	2190
CAL YR 1985	TOTAL 139517	MEAN 382	MAX 1800	MIN 26	AC-FT 276700							
WTR YR 1986	TOTAL 266106	MEAN 729	MAX 5870	MIN 23	AC-FT 527800							

e Estimated.

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 mi², approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. 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. Seven diversions for irrigation of 4,380 acres, in valleys upstream. Station is above all diversions in Boulder Flat and below tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft.

AVERAGE DISCHARGE.--46 years (1918-23, 1945-86), 42.6 ft³/s, 30,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s, Feb. 11, 1962, gage height, 6.89 ft, from rating curve extended above 2,500 ft³/s on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft³/s and maximum (*), based on rating curve extended above 1,250 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	1900	223	3.84	Apr. 21	0100	115	3.01
Feb. 18	1800	*1,920	*6.45	Apr. 27	0300	138	3.12
Mar. 9	1000	427	3.91	May 6	0500	109	3.00
Apr. 10	0700	223	3.44	May 13	0800	142	3.18

Minimum daily, 3.0 ft³/s, Sept. 13, 14.

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	4.7	5.8	7.6	8.2	34	341	122	113	66	19	14	5.6
2	4.6	5.7	9.8	12	31	333	123	103	66	19	14	5.5
3	4.5	5.8	9.6	16	28	353	120	74	61	18	13	5.6
4	4.5	5.8	8.5	23	25	362	118	79	55	18	13	4.7
5	4.5	5.9	8.8	9.3	22	330	113	93	50	18	12	4.1
6	4.6	5.6	8.1	13	20	306	104	107	43	18	8.2	3.5
7	5.7	6.0	e7.8	30	18	297	100	105	39	18	7.5	3.3
8	5.8	6.2	e7.0	15	16	302	110	99	38	18	7.2	3.8
9	5.4	6.0	e6.4	11	e17	399	152	94	37	17	6.6	4.4
10	5.0	6.1	e5.6	12	e18	346	200	99	35	16	6.3	4.2
11	5.0	6.0	e4.5	14	e19	316	157	113	34	14	6.6	3.5
12	5.1	e5.6	e4.0	16	20	300	141	131	32	14	7.4	3.2
13	5.0	5.3	e3.9	15	21	297	120	138	31	13	6.7	3.0
14	5.1	e5.8	e3.9	13	86	283	117	128	28	14	6.3	3.0
15	5.0	6.0	e3.9	9.0	198	269	111	122	25	14	7.3	3.1
16	5.1	7.9	e4.0	9.1	293	266	104	120	22	14	7.2	3.4
17	5.1	7.7	e4.1	47	761	277	93	119	18	14	9.2	4.1
18	5.1	8.8	e4.2	99	1830	261	84	110	21	14	10	5.6
19	5.1	6.5	e4.3	63	1520	240	83	105	23	11	10	6.0
20	5.2	6.3	e4.5	31	1280	240	104	100	22	11	11	5.3
21	5.4	e6.3	e4.5	23	1020	240	105	95	22	11	11	4.4
22	5.8	e6.3	e4.5	25	796	176	97	94	22	11	9.4	4.1
23	6.1	6.3	e4.5	16	557	135	97	100	22	11	8.2	4.3
24	6.0	6.7	e4.4	16	466	125	106	100	21	11	7.5	4.6
25	5.8	10	e4.4	17	454	120	121	92	23	12	7.1	4.9
26	5.7	12	e4.6	14	457	114	134	83	23	12	7.1	4.8
27	5.6	8.7	e4.8	14	409	109	134	74	22	11	7.0	5.3
28	5.5	8.8	e5.0	14	360	108	133	67	22	8.9	6.2	5.3
29	5.6	9.5	e5.4	14	---	111	130	64	21	10	6.1	5.8
30	5.7	8.0	6.8	17	---	115	122	63	20	14	5.7	5.6
31	5.7	---	7.3	27	---	118	---	65	---	14	5.6	---
TOTAL	163.0	207.4	176.7	662.6	10776	7589	3555	3049	964	437.9	264.4	134.0
MEAN	5.26	6.91	5.70	21.4	385	245	118	98.4	32.1	14.1	8.53	4.47
MAX	6.1	12	9.8	99	1830	399	200	138	66	19	14	6.0
MIN	4.5	5.3	3.9	8.2	16	108	83	63	18	8.9	5.6	3.0
AC-FT	323	411	350	1310	21370	15050	7050	6050	1910	869	524	266

CAL YR 1985 TOTAL 12542.6 MEAN 34.4 MAX 443 MIN 1.9 AC-FT 24880
WTR YR 1986 TOTAL 27978.9 MEAN 76.7 MAX 1830 MIN 3.0 AC-FT 55500

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

DRAINAGE AREA.--12,100 mi², approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft 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.--72 years, 342 ft³/s, 247,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft³/s, Apr. 24, 1984, gage height, 12.25 ft, no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,090 ft³/s, Feb. 28, gage height, 10.52 ft; minimum daily, 0.27 ft³/s, Oct. 4, 5, and 8-11.

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	e.44	60	184	e216	e283	3030	1100	1030	897	619	74	e4.6
2	e.38	61	194	e235	e297	2980	1090	1030	1050	597	68	e4.3
3	e.33	62	199	e237	e330	2950	1090	1030	1140	562	63	e4.1
4	e.27	63	200	e218	e361	2940	1120	1040	1200	541	58	e3.9
5	.27	65	e206	243	e362	2910	1140	1040	1270	487	51	e3.9
6	.29	64	e207	241	e356	2830	1150	1040	1380	459	35	e3.8
7	.30	66	e210	228	e355	2790	1160	1010	1510	434	28	e3.7
8	.27	62	e210	233	e343	2740	1200	1010	1630	408	24	e3.4
9	.27	59	e205	226	e335	2670	1280	1030	1700	380	23	e3.3
10	.27	62	e194	227	e301	2570	1300	1090	1810	360	21	e3.1
11	.27	70	e251	225	e294	2440	1300	1140	1960	330	20	e3.1
12	.33	67	e291	234	301	2380	1300	1180	2170	286	18	e2.8
13	.33	86	e150	248	296	2380	1310	1230	2370	275	16	e2.2
14	.39	74	e177	245	301	2410	1340	1250	2490	257	14	e1.6
15	20	68	e179	256	318	2470	1410	1270	2460	238	12	e1.4
16	27	109	e185	257	384	2540	1490	1230	2420	224	10	e1.2
17	29	112	e215	254	477	2480	1530	1170	2330	209	9.5	e1.1
18	31	91	e217	242	526	2390	1530	1100	2150	195	7.7	e.93
19	34	65	e187	254	544	2300	1480	1010	1940	185	e6.7	e.71
20	35	91	e197	283	654	2190	1410	956	1740	165	e6.4	e.62
21	39	79	e195	346	797	2060	1350	897	1530	154	e6.1	e.57
22	41	83	e189	409	847	1930	1270	839	1330	144	e5.8	e.50
23	43	75	e185	423	1010	1800	1170	778	1130	131	e5.5	e.64
24	45	96	e178	373	1280	1680	1100	729	1020	122	e5.4	e.75
25	47	129	e173	336	1670	1550	1020	716	940	115	e5.3	e.74
26	49	146	e173	323	e2400	1450	926	703	866	112	e5.4	e.82
27	52	151	e185	299	e2780	1370	915	699	800	106	e5.3	e.67
28	55	201	e190	282	2940	1300	939	710	748	103	e5.0	e.57
29	57	205	e181	275	---	1230	962	718	686	92	e4.9	e.49
30	57	215	e198	270	---	1160	999	767	648	83	e4.7	e.46
31	59	---	e193	273	---	1120	---	831	---	79	e4.7	---
TOTAL	724.41	2837	6098	8411	21142	69040	36381	30273	45315	8452	623.4	59.97
MEAN	23.4	94.6	197	271	755	2227	1213	977	1510	273	20.1	2.00
MAX	59	215	291	423	2940	3030	1530	1270	2490	619	74	4.6
MIN	.27	59	150	216	283	1120	915	699	648	79	4.7	.46
AC-FT	1440	5630	12100	16680	41940	136900	72160	60050	89880	16760	1240	119

CAL YR 1985 TOTAL 132621.75 MEAN 363 MAX 1790 MIN .27 AC-FT 263100
WTR YR 1986 TOTAL 229356.12 MEAN 628 MAX 3030 MIN .27 AC-FT 454900

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 mi², approximately.

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

GAGE.--Water-stage recorder. 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.--Records good except for periods of ice effect, Nov. 10-15, 18-20, and Dec. 25-29, no gage-height record, May 21-28, which are fair, and discharges greater than 100 ft³/s, which are poor. 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.--48 years (1921-23, 1924-27, 1943-86), 26.4 ft³/s, 19,130 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237 ft³/s, Feb. 17, gage height, 2.45 ft, from high-water marks, from rating curve extended above 80 ft³/s; minimum daily, 8.3 ft³/s, Nov. 13, 19, discharge estimated during periods of ice-affected record.

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	9.5	9.3	12	12	14	12	12	82	80	74	13	48
2	9.6	9.3	13	11	14	11	12	85	79	74	14	48
3	9.6	9.3	15	11	15	11	12	92	77	78	14	57
4	9.5	9.3	14	11	14	11	12	92	74	57	14	68
5	9.5	9.2	13	12	13	11	12	90	73	31	15	70
6	9.7	8.8	12	12	13	12	12	91	73	28	15	71
7	10	9.1	14	11	12	12	12	65	73	28	15	71
8	9.7	9.1	14	11	11	14	17	53	76	28	23	74
9	9.5	9.2	13	11	11	13	20	51	72	26	29	76
10	9.6	e8.8	12	11	11	13	20	49	61	27	23	78
11	9.6	e8.6	10	11	11	13	22	48	63	26	26	78
12	9.6	e8.4	9.6	11	12	13	24	48	65	26	27	78
13	9.5	e8.3	9.5	11	16	13	25	49	67	26	28	78
14	9.6	e8.4	9.5	11	15	13	25	61	68	25	29	78
15	9.7	e8.6	9.5	12	17	13	29	69	66	25	30	78
16	9.7	9.4	9.8	17	16	13	28	72	67	27	30	78
17	9.7	10	9.8	19	80	13	28	72	67	18	30	46
18	9.4	e9.0	9.8	14	58	13	29	72	71	16	30	21
19	9.5	e8.3	10	13	77	12	29	74	74	14	30	18
20	9.4	e8.6	10	13	70	12	29	81	76	14	31	17
21	9.4	8.9	9.9	12	27	13	29	e81	76	14	31	17
22	9.8	8.5	9.7	12	18	13	28	e80	76	13	30	17
23	9.8	8.6	9.6	13	15	13	28	e80	75	13	31	17
24	9.6	10	9.5	13	13	13	28	e79	75	14	30	17
25	9.5	11	e9.3	12	13	13	29	e79	76	15	30	18
26	9.5	11	e9.1	12	13	12	30	e79	74	12	30	17
27	9.3	10	e9.1	12	12	12	30	e78	74	12	38	19
28	9.1	11	e9.1	13	12	12	30	e78	74	12	44	16
29	8.9	14	e9.2	13	---	12	54	78	76	13	46	14
30	9.2	13	10	14	---	12	77	75	75	13	46	12
31	9.2	---	11	14	---	12	---	78	---	13	47	---
TOTAL	295.2	285.0	335.0	385	623	385	772	2261	2173	812	869	1395
MEAN	9.52	9.50	10.8	12.4	22.2	12.4	25.7	72.9	72.4	26.2	28.0	46.5
MAX	10	14	15	19	80	14	77	92	80	78	47	78
MIN	8.9	8.3	9.1	11	11	11	12	48	61	12	13	12
AC-FT	586	565	664	764	1240	764	1530	4480	4310	1610	1720	2770

CAL YR 1985 TOTAL 11710.2 MEAN 32.1 MAX 97 MIN 4.8 AC-FT 23230
WTR YR 1986 TOTAL 10590.2 MEAN 29.0 MAX 92 MIN 8.3 AC-FT 21010

e Estimated.

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 mi².

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. 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.--No estimated daily discharges. Diversion for irrigation of 40 acres, above station.

AVERAGE DISCHARGE.--65 years, 34.9 ft³/s, 25,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s, Jan. 21, 1943, gage height, 11.1 ft, site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft³/s, Feb. 6, 1945.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1800	(a)*4,350	(a)*8.8	Apr. 1	0600	230	1.65
Mar. 8	1400	1,480	4.86				

(a) Maximum discharge computed by slope-area measurement with a gage height determined from flood marks.

Minimum daily, 4.3 ft³/s, Aug. 19.

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	7.3	11	10	10	24	203	234	124	165	11	6.1	5.2
2	7.3	11	12	9.9	22	195	228	122	156	11	6.0	5.3
3	7.3	11	13	10	17	177	214	130	138	9.8	5.8	5.5
4	7.2	11	13	9.7	15	149	188	148	121	9.1	5.8	5.6
5	7.3	11	13	9.5	15	137	172	148	105	8.9	6.1	5.7
6	7.7	11	10	9.8	12	127	165	137	92	8.8	6.1	5.4
7	8.7	11	13	8.2	11	124	168	122	81	8.5	6.1	5.5
8	9.2	11	14	7.4	10	821	176	111	75	8.3	5.7	5.7
9	8.8	11	13	8.6	7.7	472	205	101	66	7.7	5.4	5.9
10	8.6	11	9.7	8.7	9.6	347	212	101	60	7.4	5.2	6.4
11	8.6	9.0	11	8.4	11	305	211	101	53	7.3	5.2	6.7
12	8.8	7.7	11	8.7	11	256	220	96	47	7.0	5.2	7.3
13	8.8	10	11	8.8	17	218	223	93	43	6.7	5.2	7.5
14	8.8	7.3	11	8.6	25	197	208	94	40	6.2	4.9	7.7
15	8.6	8.3	11	8.9	84	185	190	94	37	6.6	4.7	7.7
16	8.8	12	11	9.3	200	178	177	94	35	6.3	4.6	8.2
17	8.8	11	11	14	1900	170	166	94	31	6.3	4.6	8.6
18	8.9	10	9.6	18	1720	152	157	97	28	6.4	4.6	9.1
19	8.9	8.2	9.4	21	1450	153	144	107	26	6.3	4.3	8.8
20	8.9	10	9.1	24	522	158	137	118	25	6.1	4.5	8.8
21	9.2	11	8.7	18	265	162	143	127	22	6.3	4.6	8.9
22	9.7	7.6	8.4	15	189	166	165	121	20	6.3	4.8	8.7
23	11	9.9	8.2	15	276	171	188	111	18	6.1	4.7	8.4
24	11	12	8.2	12	299	177	189	103	17	6.1	4.8	8.8
25	11	12	8.4	10	301	179	179	104	15	6.1	4.9	9.7
26	11	9.3	8.4	9.9	265	176	162	117	15	6.2	5.0	10
27	11	11	8.0	9.7	238	181	147	138	13	6.4	4.8	11
28	11	12	7.8	11	219	189	137	157	13	6.4	4.9	10
29	11	13	7.8	11	---	205	131	161	12	6.3	4.9	9.7
30	11	11	8.0	12	---	223	125	162	12	6.1	5.2	9.7
31	11	---	9.2	17	---	233	---	162	---	6.2	5.2	---
TOTAL	285.2	312.3	316.9	362.1	8135.3	6786	5361	3695	1581	224.2	159.9	231.5
MEAN	9.20	10.4	10.2	11.7	291	219	179	119	52.7	7.23	5.16	7.72
MAX	11	13	14	24	1900	821	234	162	165	11	6.1	11
MIN	7.2	7.3	7.8	7.4	7.7	124	125	93	12	6.1	4.3	5.2
AC-FT	566	619	629	718	16140	13460	10630	7330	3140	445	317	459

CAL YR 1985 TOTAL 9608.3 MEAN 26.3 MAX 154 MIN 5.5 AC-FT 19060
WTR YR 1986 TOTAL 27450.2 MEAN 75.2 MAX 1900 MIN 4.3 AC-FT 54450

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 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. 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.--47 years, 283 ft³/s, 205,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft³/s, May 27, 1984, gage height, 13.20 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s, Mar. 10, gage height, 9.98 ft; minimum daily, 22 ft³/s, Sept. 11, 12.

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	27	61	123	e130	233	950	1560	947	645	742	176	33
2	27	63	135	e138	230	1050	1470	952	672	698	175	31
3	27	64	162	e138	e224	1150	1380	953	682	626	166	29
4	28	66	164	e140	e218	1240	1300	910	688	586	160	28
5	28	68	157	e144	e216	1400	1260	945	725	e510	155	27
6	28	77	185	e146	e210	1760	1240	976	758	e480	151	25
7	29	77	180	e148	e210	2150	1230	991	777	e460	147	25
8	30	75	181	e144	e212	2360	1230	995	797	e430	139	25
9	30	75	181	e142	e214	2410	1260	988	820	e410	133	23
10	30	77	172	e142	e220	2420	1270	999	857	e390	130	23
11	31	80	183	e144	e224	2410	1270	999	897	e370	126	22
12	32	71	118	e146	e230	2410	1270	991	932	e340	115	22
13	32	78	e110	e150	e236	2380	1270	988	964	e320	108	23
14	32	75	e106	e156	240	2350	1280	998	992	e310	103	23
15	33	76	e104	e162	244	2330	e1280	1020	1020	e290	97	24
16	33	92	e108	e170	241	2290	e1290	1030	1070	e270	92	24
17	33	93	e110	e174	247	2240	e1300	1050	1130	e260	84	25
18	34	88	e116	180	249	2200	e1300	1070	1180	e250	80	25
19	35	80	e122	187	280	2210	e1300	1040	1230	e240	75	27
20	35	93	e126	194	363	2210	e1300	1020	1280	e230	71	27
21	35	94	e128	199	453	2210	e1320	990	1350	e220	66	28
22	37	86	e120	204	501	2200	1370	929	1450	e218	63	28
23	43	71	e112	221	544	2170	1360	846	1500	e215	60	29
24	46	70	e110	233	619	2110	1330	813	1470	e210	57	31
25	48	87	e108	277	688	2060	1300	780	1430	208	53	33
26	51	121	e106	304	744	2000	1250	786	1370	199	49	34
27	53	122	e108	294	791	1950	e1200	743	1230	197	48	36
28	55	120	e109	274	866	1890	1170	698	1050	199	44	37
29	56	118	e111	262	---	1820	1100	667	883	189	44	36
30	57	122	e115	254	---	1740	1030	641	799	185	39	36
31	58	---	e120	241	---	1650	---	629	---	181	35	---
TOTAL	1153	2540	4090	5838	9947	61720	38490	28384	30648	10433	3041	839
MEAN	37.2	84.7	132	188	355	1991	1283	916	1022	337	98.1	28.0
MAX	58	122	185	304	866	2420	1560	1070	1500	742	176	37
MIN	27	61	104	130	210	950	1030	629	645	181	35	22
AC-FT	2290	5040	8110	11580	19730	122400	76340	56300	60790	20690	6030	1660

CAL YR 1985 TOTAL 124423 MEAN 341 MAX 1500 MIN 27 AC-FT 246800
WTR YR 1986 TOTAL 197123 MEAN 540 MAX 2420 MIN 22 AC-FT 391000

e Estimated.

HUMBOLDT RIVER BASIN

159

10333000 HUMBOLDT RIVER NEAR IMLAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1950, August 1951 to April 1952, October 1952, February 1960 to May 1986 (discontinued).

SPECIFIC CONDUCTANCES: October 1975 to November 1980, monthly; December 1980 to March 1984, every two months.

WATER TEMPERATURES: July 1949 to November 1950, August 1951 to April 1952, October 1952, and February 1960 to June 1961, monthly; November 1961 to October 1962, occasional; November 1962 to October 1968, monthly; November 1968 to September 1969, occasional; October 1969 to November 1980, monthly; December 1980 to May 1986, every two months.

SEDIMENT DATA: January 1974 to November 1980, monthly; December 1980 to May 1986, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 988 microsiemens Aug. 24, 1983; minimum, 377 microsiemens Feb. 26, 1979.

WATER TEMPERATURES: Maximum, 30.5°C July 26, 1968; minimum, freezing point on some days during winter months of some years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,270 mg/L Feb. 26, 1986; minimum, 9 mg/L Oct. 24, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 24...	1030	241	1.5	294	191	96
FEB 26...	1130	746	9.5	2270	4570	99
APR 11...	1615	1270	14.0	314	1080	95
MAY 23...	1220	843	17.0	180	408	--

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 mi², approximately.

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is National Geodetic Vertical Datum of 1929 (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft between 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, 187,200 acre-ft, June 30, elevation, 4,135.4 ft; minimum, 106,200 acre-ft, Nov. 15, elevation, 4,128.1 ft.

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

4,129	113,900	4,133	157,200
4,130	123,200	4,134	170,800
4,131	133,200	4,135	182,400
4,132	144,200	4,136	194,300

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114800	107000	110500	118600	130200	140900	178900	182400	182400	186000	181200	148100
2	114800	107000	110500	118600	130200	142000	178900	182400	182400	186000	181200	148100
3	114800	107000	110500	119500	130200	143100	178900	182400	182400	186000	181200	146800
4	114800	107000	111300	120400	131200	144200	178900	182400	181200	186000	181200	146800
5	113900	107000	111300	120400	131200	145500	177700	181200	181200	186000	180100	145500
6	113900	107000	111300	120400	132200	146800	177700	181200	180100	186000	178900	145500
7	113000	107000	111300	120400	133200	149400	176600	181200	180100	187200	177700	144200
8	113000	107000	112200	120400	133200	152000	177700	181200	178900	187200	176600	143100
9	112200	107000	113000	121300	134300	155900	177700	181200	177700	187200	176600	143100
10	112200	107000	113000	121300	134300	161300	177700	181200	176600	187200	175400	142000
11	111300	107000	113000	121300	135400	159900	178900	181200	175400	187200	174200	142000
12	111300	107000	113900	122300	136500	161300	178900	181200	175400	187200	174200	142000
13	111300	107000	113900	122300	137600	161300	178900	182400	175400	187200	173100	140900
14	111300	107000	113900	122300	138700	162600	178900	182400	175400	187200	171900	140900
15	110500	106200	113900	123200	139800	165300	178900	182400	174200	187200	170800	140900
16	110500	106200	113900	123200	140900	168000	178900	182400	174200	187200	169400	139800
17	110500	106200	113900	123200	139800	170800	180100	183600	174200	187200	168000	139800
18	109600	106200	113900	124200	139800	171900	180100	183600	174200	187200	166700	139800
19	109600	106200	113900	124200	139800	171900	180100	183600	174200	187200	165300	138700
20	108700	106200	114800	125200	139800	173100	180100	183600	175400	187200	164000	138700
21	108700	107000	114800	125200	138700	173100	181200	183600	175400	187200	162600	138700
22	108700	107000	115800	125200	138700	174200	181200	184800	176600	186000	161300	137600
23	107900	107000	115800	126200	138700	175400	181200	184800	178900	186000	159900	137600
24	107900	107900	115800	126200	138700	175400	181200	184800	180100	186000	158600	137600
25	107000	107900	115800	127200	139800	175400	181200	184800	181200	186000	157200	137600
26	107000	107900	115800	127200	139800	176600	182400	184800	182400	184800	155900	137600
27	107000	108700	116700	128200	139800	176600	182400	184800	183600	184800	154600	136500
28	107000	108700	116700	128200	140900	176600	182400	183600	184800	184800	153300	136500
29	107000	109600	116700	129200	---	176600	182400	183600	186000	183600	152000	136500
30	107000	109600	117600	129200	---	177700	182400	183600	187200	183600	150700	136500
31	107000	---	117600	130200	---	177700	---	183600	---	183600	149400	---
MAX	114800	109600	117600	130200	140900	177700	182400	184800	187200	187200	181200	148100
MIN	107000	106200	110500	118600	130200	140900	176600	181200	174200	183600	149400	136500
#	4128.20	4128.50	4129.40	4130.70	4131.70	4134.60	4135.00	4135.10	4135.40	4135.10	4132.40	4131.30
##	-7800	+2600	+8000	+12600	+10700	+36800	+4700	+1200	+3600	-3600	-34200	-12900
CAL YR 1985	TOTAL 51161600 MEAN 140200 MAX 180000 MIN 106200 # -41000											
WTR YR 1986	TOTAL 54549900 MEAN 149500 MAX 187200 MIN 106200 ## +21700											

Elevation, in feet HGVD, at end of month.

Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV
(National Stream-Quality Accounting Network Station)

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 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 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 poor. Flow completely regulated by Rye Patch Reservoir, capacity 194,300 acre-ft since June 1976. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--72 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-86), 249 ft³/s, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft³/s, May 28, 1984, gage height, 13.65 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,750 ft³/s, Mar. 12, 13, gage height, 5.39 ft; minimum daily, 0.73 ft³/s, Dec. 3.

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	250	e200	1.2	2.5	4.4	520	1290	1090	847	490	334	305
2	252	e200	1.4	2.0	5.2	521	1350	1090	845	455	370	350
3	252	e50	.73	2.0	5.2	524	1350	1090	844	397	454	409
4	281	e50	.77	2.3	5.6	528	1340	1080	841	307	449	383
5	272	e50	.97	2.3	6.1	531	1340	1080	1040	271	385	370
6	246	e100	1.4	1.6	6.3	534	1340	927	1160	330	365	386
7	222	e100	1.5	1.6	6.7	648	1170	834	1160	346	414	395
8	207	e10	1.2	2.0	7.2	802	1080	833	1160	292	418	394
9	157	e100	1.2	2.0	8.1	807	1080	836	1150	279	441	354
10	150	e100	1.1	2.1	9.2	1210	1080	838	1150	308	462	328
11	162	e100	4.0	2.0	9.2	1660	1080	839	1150	322	460	231
12	177	e100	1.5	2.0	9.9	1740	1080	840	1150	293	481	127
13	212	e50	1.6	2.0	10	1530	1080	839	1150	275	472	101
14	229	e50	2.0	1.9	11	1270	1080	842	1150	230	490	162
15	230	e2.0	2.0	1.4	12	1190	1080	843	1150	242	561	100
16	231	e2.0	2.0	1.2	11	1190	1080	844	997	263	670	114
17	230	e2.0	2.0	.97	12	1340	1080	845	851	263	681	150
18	230	e2.0	2.0	.86	13	1560	1080	847	852	221	590	151
19	e230	e2.0	2.0	1.2	329	1640	1080	849	854	195	532	150
20	e200	e1.9	2.1	1.2	531	1650	1080	849	860	237	500	126
21	e200	1.3	2.0	1.4	527	1650	1080	849	860	244	430	100
22	e200	1.3	2.0	1.5	525	1650	1090	850	785	307	372	92
23	e200	1.5	2.0	2.0	525	1660	1090	849	571	350	403	79
24	e50	2.2	2.3	2.0	524	1660	1090	848	698	347	447	84
25	e5.0	3.2	2.0	2.0	523	1660	1090	849	702	308	432	78
26	e5.0	1.7	2.0	2.3	522	1660	1090	851	592	324	418	37
27	e5.0	1.4	2.0	2.8	520	1530	1090	850	618	313	419	3.4
28	e5.0	2.4	2.3	2.8	520	1450	1090	849	611	323	342	24
29	e50	2.1	1.9	3.2	---	1450	1090	848	556	337	304	46
30	e200	1.3	4.1	3.6	---	1280	1090	847	572	380	380	74
31	e200	---	2.8	4.3	---	1180	---	849	---	346	337	---
TOTAL	5540.0	1290.3	58.07	63.03	5198.3	38225	34110	27474	26926	9595	13813	5703.4
MEAN	179	43.0	1.87	2.03	186	1233	1137	886	898	310	446	190
MAX	281	200	4.1	4.3	531	1740	1350	1090	1160	490	681	409
MIN	5.0	1.3	.73	.86	4.4	520	1080	833	556	195	304	3.4
AC-FT	10990	2560	115	125	10310	75820	67660	54490	53410	19030	27400	11310

CAL YR 1985 TOTAL 137588.62 MEAN 377 MAX 1190 MIN .73 AC-FT 272900
WTR YR 1986 TOTAL 167996.03 MEAN 460 MAX 1740 MIN .73 AC-FT 333200

e Estimated.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, May 1962 to September 1986 (discontinued).

CHEMICAL ANALYSES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to February 1968, once daily (composited); March 1968 to September 1969, once daily (composited) and monthly; October 1969 to September 1981, monthly; October 1981 to September 1986, every two months.

SPECIFIC CONDUCTANCES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily; October 1981 to September 1986, 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 September 1986, every two months.

WATER TEMPERATURES: July 1949 to November 1951, monthly (seasonal); December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to September 1981, once daily; October 1981 to September 1986, every two months.

SEDIMENT DATA: January 1974, and October 1974 to September 1981, monthly; October 1981 to September 1986, every two months.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,010 microsiemens Sept. 2, 1954; minimum, 384 microsiemens June 24, 1956.

PHYTOPLANKTON: Maximum, 7,000 cells/mL Oct. 23, 1975; minimum, 8 cells/mL Mar. 26, 1976.

FECAL STREPTOCOCCI: Maximum, 2,400 colonies/100 mL (non-ideal colony count) June 24, 1977; minimum, less than 2 colonies/100 mL several days during period of record.

WATER TEMPERATURES: Maximum, 29.5°C July 25, 1968; minimum, freezing point on several days in Jan., 1980.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 136 mg/L Dec. 3, 1981; minimum, 14 mg/L Dec. 13, 1974, Apr. 29, 1980, Feb. 18, 1981, and May 23, 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO ₃)
NOV 20...	1215	2.1	1120	8.60	3.0	6.0	0.70	12.3	114	<2	K16	190
JAN 23...	1105	2.3	1180	8.60	7.0	5.5	4.9	11.7	106	<2	K20	190
MAR 28...	1140	1450	1010	8.50	21.0	9.0	18	12.4	121	<2	K8	180
MAY 23...	1600	850	720	8.50	21.5	15.0	15	9.7	109	K6	K10	160
JUL 24...	1140	351	702	8.60	24.5	20.5	6.5	8.2	103	<1	K6	170
SEP 24...	1130	93	735	8.70	14.0	15.5	15	8.6	99	--	--	170

K: NON-IDEAL COLONY COUNT.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 CAO3)	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 20...	46	18	160	5	14	288	8	250	88	150	0.80	39
JAN 23...	44	19	170	6	14	292	8	252	92	170	0.80	36
MAR 28...	44	18	140	5	14	279	4	234	92	140	0.80	32
MAY 23...	41	14	85	3	10	230	3	193	81	65	0.60	33
JUL 24...	43	14	87	3	11	246	6	212	70	54	0.60	34
SEP 24...	45	15	88	3	13	244	10	216	69	63	0.70	37

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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 20...	651	670	0.89	<0.010	<0.100	0.040	0.030	0.46	0.50	0.230	0.190	0.060
JAN 23...	690	700	0.94	0.010	<0.100	0.030	0.030	0.47	0.50	0.070	0.050	0.070
MAR 28...	620	620	0.84	<0.010	<0.100	0.080	0.050	0.42	0.50	0.100	0.070	0.050
MAY 23...	447	450	0.61	<0.010	<0.100	0.010	0.010	0.59	0.60	0.150	0.110	0.100
JUL 24...	440	440	0.60	<0.010	<0.100	0.050	0.040	0.35	0.40	0.110	0.060	0.090
SEP 24...	--	460	0.63	<0.010	<0.100	0.060	0.020	0.44	0.50	0.120	0.070	0.070

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 20...	20	41	73	<0.5	<1	<1	<3	2	9	<1	140
JAN 23...	--	--	--	--	--	--	--	--	--	--	--
MAR 28...	30	29	48	<0.5	<1	<1	<3	6	30	1	130
MAY 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	--	--
SEP 24...	10	23	33	<0.5	1	<1	<3	2	9	<5	78

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 20...	23	0.1	20	3	1	<1	490	13	14	59	0.33
JAN 23...	--	--	--	--	--	--	--	--	--	81	0.50
MAR 28...	<1	0.1	<10	<1	1	<1	410	13	11	20	78
MAY 23...	--	--	--	--	--	--	--	--	--	14	32
JUL 24...	--	--	--	--	--	--	--	--	--	26	25
SEP 24...	1	<0.1	10	1	<1	<1	360	14	10	22	5.5

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	3,810.6	22,920,000	--
Oct. 31.	3,810.1	22,860,000	-60,000
Nov. 30.	3,809.9	22,840,000	-20,000
Dec. 31.	3,810.0	22,850,000	+10,000
CAL YR 1985.	--	--	-240,000
Jan. 31.	3,810.5	22,900,000	+50,000
Feb. 28.	3,812.0	23,080,000	+180,000
Mar. 31.	3,814.4	23,360,000	+280,000
Apr. 30.	3,815.8	23,520,000	+160,000
May 31.	3,816.7	23,620,000	+100,000
June 30.	3,817.1	23,670,000	+50,000
July 31.	3,816.7	23,620,000	-50,000
Aug. 31.	3,816.2	23,560,000	-60,000
Sep. 30.	3,815.6	23,500,000	-60,000
WTR YR 1985-86	--	--	+580,000

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 mi².

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, which are fair. One transmountain diversion to Washoe Valley.

AVERAGE DISCHARGE.--13 years (1970-73, 1978-86), 9.23 ft³/s, 6,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/s, June 18, 1982, gage height, 3.40 ft; maximum gage height, 3.77 ft, Jan. 23, 1973, backwater from ice; minimum discharge, 0.66 ft³/s, Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0015	36	2.63	May 31	2030	106	3.20
Mar. 8	0430	59	2.90	June 14	1130	*140	*3.33

Minimum daily, 2.5 ft³/s, Nov. 12, 13.

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	2.7	3.9	4.9	5.9	5.8	9.7	24	22	73	26	5.7	3.8
2	2.7	3.3	9.3	5.6	5.7	10	23	23	73	26	5.4	3.8
3	2.8	3.3	6.5	5.4	6.2	12	20	25	70	24	5.1	3.8
4	2.7	3.3	6.0	8.3	5.9	13	20	20	60	24	4.9	3.3
5	2.8	3.3	5.6	8.6	5.5	13	21	18	54	28	4.9	3.8
6	3.5	3.3	5.2	6.5	e4.5	11	20	17	53	23	4.8	3.8
7	4.0	3.4	e5.0	5.8	e4.0	16	23	16	50	18	4.7	3.8
8	4.4	3.4	e4.5	5.8	e4.0	37	20	15	47	15	4.6	4.3
9	5.8	3.2	e4.1	5.6	e4.2	18	19	15	47	15	4.5	4.5
10	12	e3.0	e3.9	5.6	e4.5	14	19	15	47	15	4.4	4.6
11	4.7	e2.7	e3.7	5.6	e4.8	12	21	15	49	15	4.3	4.5
12	4.5	e2.5	e3.5	5.5	5.2	11	21	16	52	15	4.0	4.5
13	4.2	e2.5	e3.9	5.3	8.0	9.9	19	18	58	14	4.0	4.5
14	3.5	e2.6	e4.2	5.2	8.7	9.4	17	19	72	13	4.0	4.5
15	3.4	e2.7	e4.5	5.2	8.4	9.1	17	22	48	12	4.0	4.6
16	3.3	e2.8	4.8	9.0	8.4	8.4	16	24	46	12	4.0	4.7
17	3.2	e2.9	4.8	11	22	7.6	15	25	47	11	3.9	4.8
18	3.1	e3.1	5.0	7.3	28	7.4	15	29	45	11	3.9	4.6
19	3.2	e3.3	4.9	7.2	22	7.9	14	33	40	11	3.8	4.6
20	3.5	e3.5	4.8	6.8	11	8.8	17	33	37	10	3.9	4.6
21	4.5	e3.8	4.9	6.5	8.8	10	22	28	36	10	3.8	4.8
22	4.3	4.3	4.8	6.2	8.2	11	26	26	36	10	3.7	4.8
23	5.2	4.4	4.8	6.2	8.4	11	25	27	40	12	3.5	4.6
24	5.3	5.4	4.8	7.0	8.9	13	23	28	37	10	3.6	5.5
25	4.9	5.8	5.0	6.0	9.4	13	21	39	37	9.6	3.6	6.3
26	5.5	4.9	5.1	6.0	9.9	14	19	45	35	9.4	3.6	5.7
27	5.1	4.7	5.1	6.0	11	17	19	47	31	8.8	3.4	6.6
28	4.4	4.8	5.0	6.0	12	18	24	47	32	8.3	3.5	5.8
29	4.3	5.2	5.6	5.8	---	20	24	55	35	7.5	3.4	5.5
30	4.2	5.1	7.9	7.1	---	23	23	66	28	6.4	3.3	5.6
31	4.1	---	6.3	6.2	---	24	---	79	---	6.0	3.4	---
TOTAL	131.8	110.4	158.4	200.2	253.4	419.2	607	907	1415	436.0	127.6	141.1
MEAN	4.25	3.68	5.11	6.46	9.05	13.5	20.2	29.3	47.2	14.1	4.12	4.70
MAX	12	5.8	9.3	11	28	37	26	79	73	28	5.7	6.6
MIN	2.7	2.5	3.5	5.2	4.0	7.4	14	15	28	6.0	3.3	3.8
AC-FT	261	219	314	397	503	831	1200	1800	2810	865	253	280

CAL YR 1985 TOTAL 2486.8 MEAN 6.81 MAX 33 MIN 2.0 AC-FT 4930
WTR YR 1986 TOTAL 4907.1 MEAN 13.4 MAX 79 MIN 2.5 AC-FT 9730

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

PERIOD OF RECORD.--November 1973 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (spillway 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, 12,320 acre-ft, Feb. 19, elevation, 7,839.23 ft; minimum, 11,580 acre-ft, Oct. 21; elevation, 7,837.45 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 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11610	11650	11910	11890	11900	12010	11970	12020	12100	11960	11920	11830
2	11600	11600	11960	11890	11930	11990	11970	12030	12100	11950	11920	11830
3	11600	11650	11950	11890	11940	11990	11970	12030	12100	11940	11910	11820
4	11600	11650	11940	11910	11930	11980	11970	12030	12090	11930	11900	11820
5	11600	11650	11930	11920	11920	11970	11970	12050	12090	11930	11900	11830
6	11600	11650	11940	11920	11910	11960	11970	12040	12080	11930	11900	11820
7	11600	11640	11920	11910	11910	11990	12000	12040	12070	11930	11890	11820
8	11610	11630	11920	11900	11900	12050	12000	12030	12070	11920	11890	11810
9	11610	11620	11910	11900	11900	12040	11990	12020	12060	11920	11890	11800
10	11630	11730	11900	11900	11900	12050	11990	12020	12060	11930	11880	11800
11	11630	11730	11900	11890	11900	12030	11980	12030	12050	11930	11880	11800
12	11620	11740	11900	11890	11950	12020	11980	12030	12050	11930	11870	11800
13	11610	11740	11900	11890	11960	12020	11980	12030	12040	11920	11870	11790
14	11620	11740	11900	11880	11990	12000	11970	12030	12030	11920	11870	11790
15	11620	11750	11890	11880	12080	12000	11970	12040	12030	11910	11870	11770
16	11620	11760	11880	11930	12170	12000	11970	12030	12020	11900	11860	11770
17	11620	11750	11880	11940	12200	11990	11960	12030	12000	11900	11860	11770
18	11620	11760	11880	11930	12270	11980	11960	12040	12000	11900	11860	11760
19	11610	11770	11880	11930	12310	11970	11960	12050	12000	11900	11860	11770
20	11590	11780	11880	11920	12270	11960	11970	12040	12000	11900	11850	11770
21	11630	11750	11870	11920	12210	11960	11970	12040	12000	11900	11850	11770
22	11630	11770	11870	11910	12160	11950	11990	12050	12000	11920	11850	11770
23	11640	11800	11870	11920	12130	11950	11990	12060	11990	11930	11850	11770
24	11640	11830	11870	11910	12100	11940	11990	12060	11990	11930	11850	11780
25	11640	11830	11870	11910	12070	11940	11990	12070	11980	11930	11850	11780
26	11640	11830	11870	11910	12050	11940	12000	12080	11980	11940	11850	11810
27	11640	11850	11870	11900	12030	11940	12000	12080	11970	11940	11850	11820
28	11650	11870	11860	11900	12020	11930	12010	12090	11970	11930	11840	11820
29	11650	11910	11870	11900	---	11940	12010	12090	11960	11930	11830	11830
30	11640	11900	11900	11910	---	11940	12010	12090	11960	11930	11830	11830
31	11650	---	11890	11900	---	11950	---	12100	---	11920	11830	---
MAX	11600	11900	12000	11900	12300	12000	12000	12100	12100	12000	11900	11800
MIN	11600	11600	11900	11900	11900	11900	12000	12000	12000	11900	11800	11800

CAL YR 1985	TOTAL	1116780	MEAN	11760	MAX	12000	MIN	11600	##	-10
WTR YR 1986	TOTAL	4344170	MEAN	11900	MAX	12300	MIN	11600	##	+220

#	7837.63	7838.28	7838.25	7838.28	7838.54	7838.38	7838.53	7838.72	7838.40	7838.32	7838.10	7838.11
##	+40	+250	-10	+10	+120	-70	+60	+90	-140	-40	-90	0

Elevation, in feet NGVD, at end of month.

Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in 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 mi².

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, and high flows in February, which are poor. Flow regulated by Marlette Lake (station 10336710).

AVERAGE DISCHARGE.--13 years, 3.13 ft³/s, 2,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70 ft³/s, Feb. 20, 1986, gage height, 3.20 ft, from rating curve extended above 26 ft³/s; no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft³/s, Feb. 20, 1986, gage height, 3.20 ft, from rating curve extended above 26 ft³/s; minimum daily, 0.01 ft³/s, many days.

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	.01	.06	3.2	2.8	3.4	6.1	3.0	8.3	11	2.4	1.9	.16
2	.01	.07	4.9	2.6	4.9	5.2	3.7	8.8	11	2.4	1.8	.15
3	.02	.07	5.4	2.5	5.7	4.5	3.5	10	11	2.2	1.7	.13
4	.02	.07	4.8	3.0	5.4	4.0	3.5	10	10	2.2	1.6	.10
5	.01	.07	4.4	4.5	5.1	3.6	4.2	10	10	2.0	1.6	.10
6	.02	.07	4.1	4.5	4.7	3.4	4.2	12	9.9	1.9	1.5	.09
7	.02	.07	4.9	4.0	4.2	3.4	5.9	11	9.4	2.0	1.4	.12
8	.03	.06	4.4	3.7	4.0	8.1	5.6	9.9	8.9	1.9	1.3	.27
9	.03	.03	4.1	3.5	3.7	10	5.0	9.6	8.3	1.8	1.3	.12
10	.03	e.02	e4.0	3.3	3.4	10	4.9	9.9	7.9	1.8	1.2	.10
11	.02	e.01	e3.8	3.2	3.2	10	5.0	9.2	7.7	2.0	1.2	.09
12	.02	e.01	3.7	3.0	4.2	8.3	5.3	9.0	7.8	2.1	1.1	.11
13	.02	e.01	3.4	2.8	7.5	7.6	4.7	8.8	7.6	2.0	1.0	.09
14	.03	.01	3.2	2.7	7.2	6.7	4.4	9.0	6.7	2.0	.96	.08
15	.03	.01	3.0	3.4	15	6.0	4.3	9.3	6.3	2.0	.87	.07
16	.03	.02	2.9	4.4	25	5.9	4.2	9.8	5.7	1.8	.85	.10
17	.03	.03	2.8	5.9	42	5.5	3.9	9.7	5.3	1.6	.76	.07
18	.03	e.03	2.5	5.3	51	4.8	3.7	9.9	4.8	1.5	.71	.04
19	.03	.04	2.4	5.0	63	3.9	3.7	10	4.4	1.5	.67	.04
20	.03	.05	2.3	4.9	63	3.5	3.8	11	4.4	1.6	.68	.05
21	.04	.05	2.2	4.4	45	3.0	4.3	11	4.4	1.5	.66	.07
22	.04	.13	2.1	4.1	33	2.6	5.2	10	4.2	1.6	.63	.07
23	.05	.07	e2.0	4.7	24	2.3	6.1	11	4.0	2.5	.56	.07
24	.05	.15	1.9	4.2	19	2.1	6.9	11	3.9	2.5	.51	.14
25	.06	.31	1.9	3.8	14	2.0	7.5	11	3.6	2.5	.45	.12
26	.07	.32	1.9	3.6	11	1.5	6.2	12	3.6	2.5	.44	.28
27	.05	.63	1.9	3.4	9.0	2.0	6.6	12	3.3	2.5	.41	.17
28	.05	1.5	2.0	3.2	7.4	2.0	7.5	13	3.0	2.4	.40	.20
29	.07	3.0	2.1	3.0	---	2.1	7.7	13	2.7	2.3	.36	.19
30	.07	3.2	3.1	3.6	---	2.3	8.0	12	2.6	2.2	.25	.26
31	.07	---	3.1	3.5	---	2.6	---	12	---	2.1	.23	---
TOTAL	1.09	10.17	98.4	116.5	488.0	145.0	152.5	323.2	193.4	63.3	29.00	3.65
MEAN	.04	.34	3.17	3.76	17.4	4.68	5.08	10.4	6.45	2.04	.94	.12
MAX	.07	3.2	5.4	5.9	63	10	8.0	13	11	2.5	1.9	.28
MIN	.01	.01	1.9	2.5	3.2	1.5	3.0	8.3	2.6	1.5	.23	.04
AC-FT	2.2	20	195	231	968	288	302	641	384	126	58	7.2

CAL YR 1985 TOTAL 756.34 MEAN 2.07 MAX 12 MIN .01 AC-FT 1500
WTR YR 1986 TOTAL 1624.19 MEAN 4.45 MAX 63 MIN .01 AC-FT 3220

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

LOCATION.--Lat 39°04'00", long 119°56'04", in NW1/4NW1/4 sec.23, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on right bank 0.1 mi downstream from unnamed tributary, 0.3 mi upstream from U.S. Highway 50, and 1.6 mi south of Glenbrook.

DRAINAGE AREA.--2.08 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,640 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 10-25, 28, 29, Dec. 9, 10, 12-15, Feb. 7-11. Records good except periods of ice-affected record listed above, which are fair. One small diversion 50 ft upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.4 ft³/s, Apr. 22, 1986; gage height, 4.60 ft; minimum daily, 0.15 ft³/s, Aug. 12, 14-16, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	1000	4.1	4.45	Apr. 11	1830	3.6	4.45
Mar. 30	1930	3.9	4.44	Apr. 22	1845	*6.4	*4.60

Minimum daily, 0.26 ft³/s, Oct. 2-4.

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	.27	.32	.36	.37	.40	1.2	2.8	3.5	1.5	.53	.51	.41
2	.26	.32	.71	.35	.40	1.1	2.3	3.8	1.3	.52	.45	.39
3	.26	.32	.48	.35	.40	1.2	1.9	3.4	1.1	.50	.43	.40
4	.26	.32	.41	.57	.38	1.4	2.0	2.7	1.1	.50	.43	.40
5	.28	.32	.39	.63	.37	1.5	2.0	2.4	1.0	.49	.40	.39
6	.32	.33	.36	.49	.36	1.5	2.0	2.1	1.0	.52	.40	.39
7	.41	.34	.36	.41	.35	1.5	2.0	2.0	.99	.52	.40	.40
8	.36	.34	.36	.38	.35	3.4	1.7	2.1	1.0	.51	.39	.41
9	.37	.31	.35	.36	.34	2.3	1.8	2.3	.97	.48	.38	.43
10	.42	.31	.34	.36	.33	1.8	2.4	2.7	.96	.48	.38	.46
11	.52	.31	.33	.36	.33	1.5	2.8	2.9	.95	.50	.36	.45
12	.50	.31	.32	.32	.34	1.3	2.5	2.9	1.1	.46	.35	.44
13	.44	.32	.32	.32	.43	1.2	1.7	3.0	.95	.46	.35	.47
14	.39	.32	.31	.32	.60	1.1	1.7	2.8	.89	.44	.35	.47
15	.38	.32	.30	.32	.63	1.1	1.9	2.5	.86	.44	.37	.49
16	.39	.32	.30	.46	.52	1.0	1.8	2.5	.81	.45	.39	.50
17	.38	.32	.31	.80	1.1	.92	1.5	2.4	.77	.46	.37	.54
18	.36	.32	.32	.59	1.9	.89	1.7	2.4	.72	.47	.36	.57
19	.36	.32	.32	.53	1.8	.91	2.1	2.4	.72	.45	.36	.54
20	.36	.32	.32	.51	1.1	.97	3.0	2.2	.68	.44	.40	.52
21	.38	.32	.32	.45	.90	1.1	3.8	1.8	.67	.46	.38	.52
22	.38	.33	.31	.45	.83	1.2	4.6	1.6	.65	.55	.37	.52
23	.49	.33	.32	.42	.80	1.3	4.5	1.6	.64	.95	.36	.51
24	.52	.34	.31	.41	.78	1.4	4.2	1.5	.64	.71	.37	.52
25	.45	.35	.31	.39	.84	1.4	3.8	1.6	.60	.75	.37	.59
26	.38	.36	.31	.39	.93	1.6	3.4	1.5	.58	.70	.41	.63
27	.36	.36	.31	.39	1.0	2.0	3.7	1.5	.58	.58	.40	.65
28	.36	.36	.31	.39	1.1	2.3	4.0	1.4	.53	.53	.42	.64
29	.36	.36	.34	.41	---	2.7	4.0	1.4	.52	.50	.40	.65
30	.32	.36	.49	.42	---	3.1	3.8	1.3	.54	.52	.40	.64
31	.32	---	.42	.41	---	3.2	---	1.5	---	.52	.40	---
TOTAL	11.61	9.88	11.02	13.33	19.61	49.09	81.4	69.7	25.32	16.39	12.11	14.94
MEAN	.37	.33	.36	.43	.70	1.58	2.71	2.25	.84	.53	.39	.50
MAX	.52	.36	.71	.80	1.9	3.4	4.6	3.8	1.5	.95	.51	.65
MIN	.26	.31	.30	.32	.33	.89	1.5	1.3	.52	.44	.35	.39
AC-FT	23	20	22	26	39	97	161	138	50	33	24	30

CAL YR 1985	TOTAL	198.27	MEAN	.54	MAX	2.9	MIN	.15	AC-FT	393
WTR YR 1986	TOTAL	334.40	MEAN	.92	MAX	4.6	MIN	.26	AC-FT	663

PYRAMID AND WINNEMUCCA LAKES BASIN

169

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1983 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1983 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 51 mg/L, Mar. 8, 1986; minimum daily mean, 0 mg/L, Nov. 5-9, 1983.

SEDIMENT LOAD: Maximum daily, 0.48 tons, Mar. 8, 1986; minimum daily, 0 ton, on many days in each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 51 mg/L, Mar. 8; minimum daily mean, 1 mg/L, on many days in July to September.

SEDIMENT LOAD: Maximum daily, 0.48 tons, Mar. 8; minimum daily, 0 ton, on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	---	---	---	---	2.0	---	4.0	12.0	11.0	---	---
2	---	---	---	---	---	---	1.5	---	---	11.5	11.0	---
3	---	3.0	---	---	---	---	---	3.0	12.0	---	---	9.0
4	---	---	---	---	---	3.0	---	---	---	---	---	---
5	---	---	---	---	0.5	---	2.5	---	---	9.0	---	8.0
6	7.0	2.0	---	---	---	4.0	---	---	---	---	11.0	8.0
7	---	---	---	---	---	2.0	2.0	3.0	7.5	9.5	---	---
8	---	---	---	---	---	1.0	---	---	---	---	---	---
9	---	---	---	0.5	---	---	2.5	4.5	---	9.5	10.0	---
10	---	---	---	---	---	---	---	---	---	---	---	8.0
11	---	---	---	---	---	3.0	---	---	10.0	---	---	---
12	---	---	---	---	---	---	1.0	6.0	---	10.0	---	---
13	---	---	0.0	---	---	---	---	---	---	---	9.0	6.0
14	---	---	---	---	---	1.5	---	6.0	10.0	---	---	---
15	---	---	---	---	---	4.0	---	---	---	---	---	---
16	---	---	---	---	---	---	1.5	6.5	---	8.0	9.0	---
17	---	---	0.0	2.0	---	---	---	7.0	---	---	---	5.5
18	---	---	---	---	1.0	---	---	---	10.0	---	---	---
19	---	---	---	---	1.0	2.0	---	8.0	---	9.0	---	---
20	---	---	---	---	---	---	3.0	6.5	---	---	11.0	3.0
21	---	---	---	---	---	---	---	6.5	9.0	---	9.5	---
22	---	---	---	---	---	2.0	---	---	---	---	---	---
23	---	---	---	---	---	---	2.5	5.5	---	10.0	9.0	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	9.0	---	---
26	---	0.5	---	---	1.5	2.0	---	---	11.0	8.0	---	---
27	---	---	---	1.0	---	---	---	10.0	---	---	10.5	3.0
28	4.0	---	---	1.0	---	2.5	2.0	---	10.0	---	---	---
29	---	---	---	---	---	---	3.5	---	---	---	---	---
30	---	---	1.0	---	---	3.0	---	---	---	8.0	8.0	---
31	---	---	---	---	---	1.5	---	11.5	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER				NOVEMBER			DECEMBER		
1	.27	3	.00	.32	2	.00	.36	2	.00
2	.26	3	.00	.32	2	.00	.71	7	.01
3	.26	3	.00	.32	2	.00	.48	5	.01
4	.26	3	.00	.32	2	.00	.41	4	.00
5	.28	3	.00	.32	2	.00	.39	4	.00
6	.32	5	.00	.33	2	.00	.36	3	.00
7	.41	3	.00	.34	2	.00	.36	3	.00
8	.36	3	.00	.34	2	.00	.36	3	.00
9	.37	3	.00	.31	2	.00	.35	3	.00
10	.42	4	.00	.31	2	.00	.34	3	.00
11	.52	6	.01	.31	2	.00	.33	3	.00
12	.50	6	.01	.31	2	.00	.32	3	.00
13	.44	5	.01	.32	2	.00	.32	2	.00
14	.39	4	.00	.32	2	.00	.31	2	.00
15	.38	3	.00	.32	2	.00	.30	2	.00
16	.39	3	.00	.32	2	.00	.30	2	.00
17	.38	3	.00	.32	2	.00	.31	2	.00
18	.36	3	.00	.32	2	.00	.32	2	.00
19	.36	3	.00	.32	2	.00	.32	2	.00
20	.36	3	.00	.32	2	.00	.32	2	.00
21	.38	3	.00	.32	2	.00	.32	2	.00
22	.38	3	.00	.33	2	.00	.31	2	.00
23	.49	5	.01	.33	2	.00	.32	2	.00
24	.52	6	.01	.34	2	.00	.31	2	.00
25	.45	5	.01	.35	2	.00	.31	2	.00
26	.38	3	.00	.36	2	.00	.31	2	.00
27	.36	3	.00	.36	2	.00	.31	2	.00
28	.36	3	.00	.36	2	.00	.31	2	.00
29	.36	3	.00	.36	2	.00	.34	2	.00
30	.32	2	.00	.36	2	.00	.49	5	.01
31	.32	2	.00	---	---	---	.42	4	.00
TOTAL	11.61	---	0.06	9.88	---	0.00	11.02	---	0.03
JANUARY				FEBRUARY			MARCH		
1	.37	3	.00	.40	3	.00	1.2	4	.01
2	.35	3	.00	.40	3	.00	1.1	4	.01
3	.35	3	.00	.40	3	.00	1.2	4	.01
4	.57	5	.01	.38	3	.00	1.4	4	.02
5	.63	6	.01	.37	3	.00	1.5	3	.01
6	.49	5	.01	.36	3	.00	1.5	3	.01
7	.41	4	.00	.35	3	.00	1.5	4	.02
8	.38	3	.00	.35	3	.00	3.4	51	.48
9	.36	3	.00	.34	3	.00	2.3	26	.16
10	.36	3	.00	.33	3	.00	1.8	20	.10
11	.36	3	.00	.33	3	.00	1.5	17	.07
12	.32	3	.00	.34	3	.00	1.3	13	.05
13	.32	3	.00	.43	4	.00	1.2	8	.03
14	.32	3	.00	.60	6	.01	1.1	4	.01
15	.32	3	.00	.63	6	.01	1.1	4	.01
16	.46	5	.01	.52	5	.01	1.0	3	.01
17	.80	8	.02	1.1	16	.05	.92	3	.01
18	.59	6	.01	1.9	23	.12	.89	3	.01
19	.53	5	.01	1.8	11	.05	.91	3	.01
20	.51	5	.01	1.1	8	.02	.97	3	.01
21	.45	4	.00	.90	6	.01	1.1	4	.01
22	.45	4	.00	.83	5	.01	1.2	4	.01
23	.42	4	.00	.80	5	.01	1.3	4	.01
24	.41	4	.00	.78	5	.01	1.4	5	.02
25	.39	4	.00	.84	5	.01	1.4	5	.02
26	.39	3	.00	.93	5	.01	1.6	6	.03
27	.39	3	.00	1.0	5	.01	2.0	8	.04
28	.39	3	.00	1.1	5	.01	2.3	9	.06
29	.41	3	.00	---	---	---	2.7	11	.08
30	.42	3	.00	---	---	---	3.1	13	.11
31	.41	3	.00	---	---	---	3.2	14	.12
TOTAL	13.33	---	0.09	19.61	---	0.35	49.09	---	1.56

PYRAMID AND WINNEMUCCA LAKES BASIN

171

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL									
1	2.8	12	.09	3.5	16	.15	1.5	11	.05
2	2.3	9	.06	3.8	18	.18	1.3	6	.02
3	1.9	7	.04	3.4	15	.14	1.1	6	.02
4	2.0	8	.04	2.7	11	.08	1.1	6	.02
5	2.0	8	.04	2.4	10	.06	1.0	5	.01
6	2.0	8	.04	2.1	8	.05	1.0	5	.01
7	2.0	8	.04	2.0	8	.04	.99	5	.01
8	1.7	6	.03	2.1	8	.05	1.0	4	.01
9	1.8	7	.03	2.3	9	.06	.97	4	.01
10	2.4	10	.06	2.7	11	.08	.96	4	.01
11	2.8	12	.09	2.9	13	.10	.95	4	.01
12	2.5	10	.07	2.9	13	.10	1.1	4	.01
13	1.7	6	.03	3.0	13	.11	.95	4	.01
14	1.7	6	.03	2.8	12	.09	.89	3	.01
15	1.9	7	.04	2.5	10	.07	.86	3	.01
16	1.8	7	.03	2.5	10	.07	.81	3	.01
17	1.5	5	.02	2.4	10	.06	.77	4	.01
18	1.7	6	.03	2.4	10	.06	.72	4	.01
19	2.1	8	.05	2.4	10	.06	.72	4	.01
20	3.0	13	.11	2.2	8	.05	.68	4	.01
21	3.8	18	.18	1.8	7	.03	.67	4	.01
22	4.6	26	.32	1.6	6	.03	.65	4	.01
23	4.5	25	.30	1.6	6	.03	.64	4	.01
24	4.2	20	.23	1.5	5	.02	.64	4	.01
25	3.8	18	.18	1.6	6	.03	.60	4	.01
26	3.4	15	.14	1.5	5	.02	.58	4	.01
27	3.7	17	.17	1.5	5	.02	.58	4	.01
28	4.0	19	.21	1.4	4	.02	.53	5	.01
29	4.0	19	.21	1.4	4	.02	.52	4	.01
30	3.8	17	.17	1.3	4	.01	.54	4	.01
31	---	---	---	1.5	17	.10	---	---	---
TOTAL	81.4	---	3.08	69.7	---	1.99	25.32	---	0.37
MAY									
JUNE									
JULY									
AUGUST									
SEPTEMBER									
1	.53	4	.01	.51	2	.00	.41	2	.00
2	.52	4	.01	.45	2	.00	.39	3	.00
3	.50	4	.01	.43	2	.00	.40	3	.00
4	.50	4	.01	.43	2	.00	.40	3	.00
5	.49	4	.01	.40	2	.00	.39	3	.00
6	.52	4	.01	.40	2	.00	.39	2	.00
7	.52	4	.01	.40	2	.00	.40	1	.00
8	.51	4	.01	.39	2	.00	.41	1	.00
9	.48	4	.01	.38	2	.00	.43	1	.00
10	.48	4	.01	.38	2	.00	.46	1	.00
11	.50	3	.00	.36	2	.00	.45	1	.00
12	.46	3	.00	.35	3	.00	.44	2	.00
13	.46	3	.00	.35	3	.00	.47	2	.00
14	.44	3	.00	.35	3	.00	.47	2	.00
15	.44	3	.00	.37	3	.00	.49	2	.00
16	.45	3	.00	.39	3	.00	.50	2	.00
17	.46	2	.00	.37	2	.00	.54	2	.00
18	.47	1	.00	.36	2	.00	.57	2	.00
19	.45	1	.00	.36	2	.00	.54	2	.00
20	.44	1	.00	.40	2	.00	.52	2	.00
21	.46	1	.00	.38	1	.00	.52	2	.00
22	.55	3	.00	.37	2	.00	.52	2	.00
23	.95	7	.02	.36	2	.00	.51	2	.00
24	.71	6	.01	.37	2	.00	.52	1	.00
25	.75	6	.01	.37	2	.00	.59	1	.00
26	.70	3	.01	.41	2	.00	.63	1	.00
27	.58	2	.00	.40	2	.00	.65	1	.00
28	.53	3	.00	.42	2	.00	.64	1	.00
29	.50	3	.00	.40	1	.00	.65	1	.00
30	.52	3	.00	.40	1	.00	.64	1	.00
31	.52	3	.00	.40	1	.00	---	---	---
TOTAL	16.39	---	0.15	12.11	---	0.00	14.94	---	0.00
YEAR	334.40		7.68						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB 18...	0915	1.8	1.0	25	0.12	58
FEB 18...	1005	2.0	1.0	25	0.13	55
MAY 20...	1800	2.2	6.5	8	0.05	41

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN 17...	0915	2.0	1	0.8	1	1	3	6
MAR 31...	1030	1.5	1	2.5	1	4	10	21
MAY 20...	1000	6.5	2	2.2	2	4	13	24

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JAN 17...	10	16	28	44	66	96	100
MAR 31...	36	51	71	92	100	--	--
MAY 20...	39	59	80	93	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN 17...	0925	2.0	6	0.77	3.00	0.00	--	--
FEB 18...	0950	1.0	3	1.8	2.50	0.02	1	2
MAR 08...	1425	1.0	1	3.8	3.00	0.03	1	3

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN 17...	2	19	40	56	81	100	--
FEB 18...	4	26	41	57	77	89	100
MAR 08...	16	52	76	91	98	100	--

PYRAMID AND WINNEMUCCA LAKES BASIN

173

10336759 EDGEWOOD CREEK NEAR STATELINE, NV

LOCATION.--Lat 38°57'50", long 119°55'24", in SW1/4NE1/4 sec.26, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank 0.1 mi upstream from unnamed tributary, 0.9 mi upstream from U.S. Highway 50, and 1.1 mi northeast of Stateline.

DRAINAGE AREA.--3.20 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 10, 12, 16, 17, 20, 21, 23-25, 28, 29, Dec. 6-10, 12, 14, 15.
Records good including those days of ice effect listed above. No known diversion or regulation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24 ft³/s, May 27, 1983, gage height, 2.41 ft; minimum daily, 0.94 ft³/s, July 14, 16, 17, 19, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	0745	*22	*2.28	No other peak greater than base discharge.			
Minimum daily, 1.2 ft ³ /s, Oct. 1-5.							

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	1.2	1.6	1.8	1.9	1.9	4.0	7.9	6.0	3.5	2.0	1.7	1.4
2	1.2	1.6	3.2	1.9	1.8	3.9	6.9	6.1	3.3	1.9	1.6	1.4
3	1.2	1.6	2.2	1.8	1.9	4.8	6.4	6.1	3.2	1.9	1.6	1.4
4	1.2	1.6	2.1	2.9	1.8	5.3	6.6	5.7	3.1	1.9	1.6	1.4
5	1.2	1.6	2.0	3.1	1.8	5.4	7.0	5.5	3.1	1.9	1.8	1.3
6	1.5	1.6	1.9	2.4	1.8	5.1	7.0	5.6	3.0	1.9	1.7	1.3
7	1.6	1.6	1.9	2.2	1.7	7.0	7.5	5.3	3.0	2.0	1.6	1.3
8	1.6	1.6	1.8	2.1	1.7	17	6.5	5.2	3.0	1.9	1.6	1.4
9	1.7	1.6	1.8	2.1	1.6	8.5	7.0	5.2	2.9	1.9	1.5	1.4
10	1.9	1.6	1.8	2.0	1.7	6.9	7.3	5.1	2.8	1.9	1.5	1.5
11	2.1	1.6	1.7	2.1	1.8	5.9	7.5	5.0	2.8	1.8	1.5	1.4
12	2.1	1.7	1.6	2.0	1.9	5.3	7.0	5.0	3.4	1.8	1.5	1.4
13	1.9	1.7	1.6	2.0	2.6	4.9	6.2	4.9	2.8	1.8	1.5	1.4
14	1.8	1.7	1.6	1.9	3.3	4.5	6.2	5.0	2.6	1.8	1.6	1.5
15	1.8	1.7	1.6	1.9	2.5	4.2	6.3	4.9	2.6	1.7	1.5	1.6
16	1.8	1.7	1.6	2.6	2.1	4.0	6.5	4.8	2.5	1.7	1.5	1.6
17	1.9	1.7	1.6	4.0	4.1	3.7	5.7	4.7	2.5	1.7	1.5	1.7
18	1.8	1.7	1.6	2.6	8.0	3.7	5.7	4.7	2.5	1.7	1.5	1.8
19	1.8	1.6	1.6	2.4	7.5	3.9	6.0	4.6	2.5	1.7	1.5	1.8
20	1.7	1.6	1.6	2.3	4.9	4.2	6.6	4.5	2.4	1.6	1.5	1.8
21	1.9	1.6	1.6	2.2	4.0	4.3	7.2	4.4	2.4	1.6	1.5	1.8
22	2.1	1.6	1.6	2.1	3.8	4.5	7.7	4.3	2.3	1.9	1.5	1.7
23	2.3	1.6	1.7	2.0	3.7	4.9	7.2	4.2	2.3	2.7	1.5	1.7
24	2.1	1.7	1.7	1.9	3.7	5.0	6.7	4.1	2.3	2.1	1.4	1.8
25	1.9	1.7	1.7	1.9	3.7	5.1	6.3	4.1	2.2	2.2	1.4	2.1
26	1.9	1.9	1.6	1.9	3.9	5.7	6.0	3.9	2.1	2.1	1.4	2.0
27	1.8	1.8	1.6	1.9	4.2	6.3	6.2	3.8	2.0	1.9	1.5	2.3
28	1.8	1.8	1.6	1.9	4.3	6.5	6.8	3.8	2.0	1.8	1.4	2.1
29	1.8	1.7	1.8	1.9	---	7.1	6.3	3.7	2.0	1.7	1.4	2.0
30	1.7	1.7	2.2	2.0	---	7.9	6.1	3.6	2.0	1.8	1.4	2.0
31	1.7	---	2.0	2.0	---	8.1	---	3.6	---	1.7	1.4	---
TOTAL	54.0	49.8	55.7	67.9	87.7	177.6	200.3	147.4	79.1	58.0	47.1	49.3
MEAN	1.74	1.66	1.80	2.19	3.13	5.73	6.68	4.75	2.64	1.87	1.52	1.64
MAX	2.3	1.9	3.2	4.0	8.0	17	7.9	6.1	3.5	2.7	1.8	2.3
MIN	1.2	1.6	1.6	1.8	1.6	3.7	5.7	3.6	2.0	1.6	1.4	1.3
AC-FT	107	99	110	135	174	352	397	292	157	115	93	98

CAL YR 1985	TOTAL	710.78	MEAN	1.95	MAX	5.7	MIN	.94	AC-FT	1410
WTR YR 1986	TOTAL	1073.9	MEAN	2.94	MAX	17	MIN	1.2	AC-FT	2130

PYRAMID AND WINNEMUCCA LAKES BASIN

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1982 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 403 mg/L, May 21, 1983; minimum daily mean, 2 mg/L, Dec. 13-19, 1983.

SEDIMENT LOAD: Maximum daily, 22 tons, May 21, 1983; minimum daily, 0.01 ton, several days in each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 316 mg/L, Mar. 8; minimum daily mean, 3 mg/L, on several days in October and November.

SEDIMENT LOAD: Maximum daily, 16 tons, Mar. 8; minimum daily, 0.01 ton, on several days in October and November.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	---	---	---	---	---	5.5	---	12.0	10.0	---	---
2	---	---	2.5	---	---	---	---	7.5	---	---	---	10.0
3	---	---	---	---	---	---	5.0	6.0	---	---	---	---
4	7.5	---	3.0	4.0	---	---	5.0	6.0	---	---	---	---
5	---	5.5	---	3.0	1.5	---	3.5	---	10.5	---	11.0	9.0
6	---	5.0	---	---	---	3.0	3.0	---	---	---	---	---
7	---	---	---	---	---	2.5	4.0	6.0	---	10.0	---	---
8	---	---	---	---	---	0.5	5.0	6.5	---	---	---	---
9	---	---	---	2.0	---	---	4.5	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	5.0	---	1.0	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	1.0	---	1.5	---	5.0	9.0	10.5	---	---	---
14	---	3.0	---	5.0	2.5	2.0	5.5	4.5	---	9.5	---	---
15	---	---	---	---	3.5	---	---	---	---	---	10.5	---
16	---	---	---	3.0	---	---	4.0	9.0	---	---	---	---
17	---	---	2.0	2.5	1.5	3.0	---	---	---	---	---	---
18	---	---	---	---	1.0	2.5	---	---	---	---	---	5.5
19	---	---	3.0	---	2.5	---	7.5	8.5	7.0	---	10.0	---
20	---	---	---	---	3.5	4.0	---	9.0	---	10.5	---	---
21	3.5	---	---	---	2.0	---	---	---	---	---	9.5	---
22	---	3.0	---	---	---	3.5	6.5	9.0	---	10.0	---	6.0
23	---	---	---	---	---	---	6.0	---	---	10.0	---	---
24	---	---	---	2.0	---	4.0	7.0	---	11.0	---	---	5.5
25	---	---	---	---	---	---	---	---	---	9.0	---	4.5
26	---	2.0	---	---	2.0	3.5	2.5	---	---	---	---	5.5
27	---	---	---	1.5	---	5.5	---	10.5	---	---	---	---
28	---	---	---	3.0	---	3.0	5.0	---	11.0	---	---	---
29	6.0	---	---	---	---	---	5.0	---	---	---	---	---
30	---	---	4.0	---	---	5.5	5.0	---	---	---	---	---
31	---	---	---	---	---	5.0	---	11.5	---	---	---	---

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1.2	3	.01	1.6	4	.02	1.8	4	.02
2	1.2	3	.01	1.6	4	.02	3.2	81	.83
3	1.2	4	.01	1.6	4	.02	2.2	8	.05
4	1.2	4	.01	1.6	4	.02	2.1	5	.03
5	1.2	4	.01	1.6	4	.02	2.0	5	.03
6	1.5	8	.03	1.6	6	.03	1.9	5	.03
7	1.6	6	.03	1.6	6	.03	1.9	5	.03
8	1.6	6	.03	1.6	5	.02	1.8	5	.02
9	1.7	6	.03	1.6	5	.02	1.8	5	.02
10	1.9	8	.04	1.6	5	.02	1.8	4	.02
11	2.1	15	.09	1.6	4	.02	1.7	4	.02
12	2.1	12	.07	1.7	4	.02	1.6	4	.02
13	1.9	9	.05	1.7	3	.01	1.6	4	.02
14	1.8	8	.04	1.7	3	.01	1.6	5	.02
15	1.8	7	.03	1.7	3	.01	1.6	5	.02
16	1.8	6	.03	1.7	3	.01	1.6	6	.03
17	1.9	6	.03	1.7	3	.01	1.6	6	.03
18	1.8	6	.03	1.7	3	.01	1.6	6	.03
19	1.8	6	.03	1.6	3	.01	1.6	5	.02
20	1.7	5	.02	1.6	3	.01	1.6	5	.02
21	1.9	5	.03	1.6	3	.01	1.6	5	.02
22	2.1	6	.03	1.6	3	.01	1.6	5	.02
23	2.3	7	.04	1.6	4	.02	1.7	5	.02
24	2.1	5	.03	1.7	4	.02	1.7	5	.02
25	1.9	5	.03	1.7	4	.02	1.7	5	.02
26	1.9	4	.02	1.9	4	.02	1.6	5	.02
27	1.8	4	.02	1.8	4	.02	1.6	5	.02
28	1.8	4	.02	1.8	4	.02	1.6	5	.02
29	1.8	3	.01	1.7	4	.02	1.8	7	.03
30	1.7	3	.01	1.7	4	.02	2.2	12	.07
31	1.7	4	.02	---	---	---	2.0	9	.05
TOTAL	54.0	---	0.89	49.8	---	0.52	55.7	---	1.62
JANUARY			FEBRUARY			MARCH			
1	1.9	9	.05	1.9	6	.03	4.0	10	.11
2	1.9	8	.04	1.8	6	.03	3.9	11	.12
3	1.8	7	.03	1.9	6	.03	4.8	53	.83
4	2.9	123	1.3	1.8	6	.03	5.3	74	1.2
5	3.1	52	.44	1.8	7	.03	5.4	60	.87
6	2.4	12	.08	1.8	7	.03	5.1	36	.50
7	2.2	10	.06	1.7	7	.03	7.0	153	3.8
8	2.1	9	.05	1.7	6	.03	17	316	16
9	2.1	9	.05	1.6	6	.03	8.5	46	1.1
10	2.0	9	.05	1.7	7	.03	6.9	22	.41
11	2.1	8	.05	1.8	6	.03	5.9	21	.33
12	2.0	8	.04	1.9	10	.05	5.3	18	.26
13	2.0	8	.04	2.6	54	.45	4.9	13	.17
14	1.9	7	.04	3.3	102	1.3	4.5	12	.15
15	1.9	7	.04	2.5	28	.19	4.2	13	.15
16	2.6	78	.89	2.1	18	.10	4.0	14	.15
17	4.0	87	1.1	4.1	71	.98	3.7	14	.14
18	2.6	11	.08	8.0	195	4.3	3.7	12	.12
19	2.4	9	.06	7.5	142	2.9	3.9	14	.15
20	2.3	8	.05	4.9	40	.53	4.2	17	.19
21	2.2	8	.05	4.0	25	.27	4.3	18	.21
22	2.1	7	.04	3.8	25	.26	4.5	15	.18
23	2.0	7	.04	3.7	25	.25	4.9	15	.20
24	1.9	6	.03	3.7	25	.25	5.0	15	.20
25	1.9	7	.04	3.7	25	.25	5.1	25	.34
26	1.9	9	.05	3.9	20	.21	5.7	41	.71
27	1.9	10	.05	4.2	20	.23	6.3	44	.85
28	1.9	7	.04	4.3	20	.23	6.5	28	.49
29	1.9	6	.03	---	---	---	7.1	28	.54
30	2.0	6	.03	---	---	---	7.9	35	.75
31	2.0	6	.03	---	---	---	8.1	30	.66
TOTAL	67.9	---	4.97	87.7	---	13.08	177.6	---	31.88

PYRAMID AND WINNEMUCCA LAKES BASIN

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY				JUNE	
1	7.9	18	.38	6.0	9	.15	3.5	10	.09
2	6.9	12	.22	6.1	10	.16	3.3	10	.09
3	6.4	12	.21	6.1	10	.16	3.2	11	.10
4	6.6	12	.21	5.7	11	.17	3.1	12	.10
5	7.0	9	.17	5.5	11	.16	3.1	10	.08
6	7.0	10	.19	5.6	11	.17	3.0	10	.08
7	7.5	306	6.3	5.3	10	.14	3.0	10	.08
8	6.5	20	.35	5.2	8	.11	3.0	10	.08
9	7.0	28	.53	5.2	8	.11	2.9	10	.08
10	7.3	28	.55	5.1	9	.12	2.8	10	.08
11	7.5	28	.57	5.0	9	.12	2.8	10	.08
12	7.0	16	.30	5.0	10	.14	3.4	17	.16
13	6.2	15	.25	4.9	11	.15	2.8	9	.07
14	6.2	15	.25	5.0	9	.12	2.6	8	.06
15	6.3	16	.27	4.9	10	.13	2.6	7	.05
16	6.5	15	.26	4.8	12	.16	2.5	7	.05
17	5.7	17	.26	4.7	13	.16	2.5	7	.05
18	5.7	17	.26	4.7	13	.16	2.5	6	.04
19	6.0	18	.29	4.6	14	.17	2.5	6	.04
20	6.6	18	.32	4.5	17	.21	2.4	7	.05
21	7.2	20	.39	4.4	16	.19	2.4	8	.05
22	7.7	20	.42	4.3	12	.14	2.3	9	.06
23	7.2	19	.37	4.2	12	.14	2.3	9	.06
24	6.7	15	.27	4.1	12	.13	2.3	10	.06
25	6.3	11	.19	4.1	12	.13	2.2	10	.06
26	6.0	8	.13	3.9	12	.13	2.1	11	.06
27	6.2	11	.18	3.8	12	.12	2.0	11	.06
28	6.8	21	.39	3.8	12	.12	2.0	11	.06
29	6.3	15	.26	3.7	12	.12	2.0	10	.05
30	6.1	11	.18	3.6	12	.12	2.0	10	.05
31	---	---	---	3.6	11	.11	---	---	---
TOTAL	200.3	---	14.92	147.4	---	4.42	79.1	---	2.08
JULY				AUGUST				SEPTEMBER	
1	2.0	9	.05	1.7	5	.02	1.4	5	.02
2	1.9	8	.04	1.6	5	.02	1.4	5	.02
3	1.9	8	.04	1.6	5	.02	1.4	5	.02
4	1.9	7	.04	1.6	5	.02	1.4	5	.02
5	1.9	7	.04	1.8	5	.02	1.3	5	.02
6	1.9	6	.03	1.7	5	.02	1.3	5	.02
7	2.0	5	.03	1.6	5	.02	1.3	5	.02
8	1.9	5	.03	1.6	5	.02	1.4	5	.02
9	1.9	5	.03	1.5	5	.02	1.4	5	.02
10	1.9	5	.03	1.5	5	.02	1.5	5	.02
11	1.8	5	.02	1.5	5	.02	1.4	5	.02
12	1.8	5	.02	1.5	5	.02	1.4	5	.02
13	1.8	5	.02	1.5	5	.02	1.4	5	.02
14	1.8	5	.02	1.6	8	.03	1.5	5	.02
15	1.7	5	.02	1.5	5	.02	1.6	5	.02
16	1.7	5	.02	1.5	5	.02	1.6	5	.02
17	1.7	5	.02	1.5	5	.02	1.7	5	.02
18	1.7	5	.02	1.5	5	.02	1.8	5	.02
19	1.7	5	.02	1.5	5	.02	1.8	5	.02
20	1.6	5	.02	1.5	5	.02	1.8	5	.02
21	1.6	5	.02	1.5	5	.02	1.8	6	.03
22	1.9	9	.06	1.5	5	.02	1.7	6	.03
23	2.7	19	.15	1.5	5	.02	1.7	6	.03
24	2.1	5	.03	1.4	5	.02	1.8	5	.02
25	2.2	5	.03	1.4	5	.02	2.1	18	.11
26	2.1	5	.03	1.4	5	.02	2.0	8	.04
27	1.9	5	.03	1.5	5	.02	2.3	12	.07
28	1.8	5	.02	1.4	5	.02	2.1	7	.04
29	1.7	5	.02	1.4	5	.02	2.0	7	.04
30	1.8	5	.02	1.4	5	.02	2.0	6	.03
31	1.7	5	.02	1.4	5	.02	---	---	---
TOTAL	58.0	---	0.99	47.1	---	0.63	49.3	---	0.84
YEAR	10/3.9		76.84						

10336759 EDGEWOOD CREEK NEAR STATELINE, NV--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC								
02...	0925	4.3	2.5	140	1.6	--	--	--
02...	1645	3.1	2.5	32	0.27	--	--	--
JAN								
04...	1640	4.5	4.0	370	4.5	--	--	--
17...	1045	3.4	2.5	43	0.39	--	--	--
17...	1425	3.4	3.0	35	0.32	--	--	--
FEB								
18...	1100	7.8	1.0	141	3.0	--	--	--
18...	1150	7.8	1.0	140	2.9	--	--	--
18...	1415	8.4	1.0	150	3.4	--	--	--
20...	1405	4.5	1.0	32	0.39	--	--	--
MAR								
08...	1300	19	1.0	198	10	--	--	--
APR								
07...	1205	7.6	3.0	1550	32	67	84	93
07...	1300	7.6	3.0	446	9.2	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
DEC							
02...	--	--	53	--	--	--	--
02...	--	--	52	--	--	--	--
JAN							
04...	--	--	66	--	--	--	--
17...	--	--	52	--	--	--	--
17...	--	--	46	--	--	--	--
FEB							
18...	--	--	47	--	--	--	--
18...	--	--	47	--	--	--	--
18...	--	--	37	54	79	97	100
20...	--	--	54	--	--	--	--
MAR							
08...	--	--	35	47	68	92	100
APR							
07...	97	99	99	99	100	--	--
07...	--	--	97	97	98	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN							
17...	1110	2.5	1	3.4	1	5	14
APR							
07...	1255	3.0	1	7.6	1	4	15
28...	1210	5.0	1	6.2	1	9	24
MAY							
20...	2030	9.0	1	4.5	1	13	17

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JAN						
17...	19	30	61	95	100	--
APR						
07...	26	36	51	77	92	100
28...	35	47	66	87	98	100
MAY						
20...	27	48	73	90	100	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE1/4NE1/4 sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi northeast of Tahoe City, and 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--506 mi², at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Monthend elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR CA-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft above Bureau of Reclamation datum, 6,218.86 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1957, nonrecording gages at several sites near outlet of lake at same datum. Oct. 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to Sept. 30, 1968, water-stage recorder on pier, 1,000 ft east of dam at lake outlet.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given herein represent usable contents. Usable capacity, 744,600 acre-ft between elevations 6,223 ft, natural rim of lake and 6,229.1 ft, maximum permissible elevation by Federal Court decree. Lake elevations are referred to Bureau of Reclamation datum because that datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft, July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft, Dec. 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,229.03 ft, June 26; minimum, 6,226.33 ft, Nov. 20.

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

6,223	0	6,227	486,800
6,224	121,400	6,228	609,300
6,225	243,000	6,229.1	744,600
6,226	364,800		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.71	6.41	6.51	6.51	6.88	8.41	8.23	8.38	8.85	8.98	8.80	8.34
2	6.68	6.41	6.60	6.55	6.92	8.39	8.25	8.36	8.88	8.96	8.78	8.33
3	6.67	6.41	6.58	6.50	6.93	8.38	8.25	8.36	8.90	8.92	8.77	8.31
4	6.66	6.41	6.59	6.60	6.93	8.35	8.25	8.34	8.90	8.93	8.76	8.30
5	6.65	6.41	6.56	6.62	6.92	8.33	8.28	8.36	8.89	8.90	8.75	8.28
6	6.63	6.40	6.58	6.62	6.92	8.31	8.30	8.36	8.89	8.90	8.72	8.27
7	6.62	6.40	6.58	6.63	6.91	8.48	8.33	8.36	8.91	8.90	8.71	8.24
8	6.67	6.43	6.58	6.63	6.91	8.63	8.33	8.36	8.91	8.89	8.70	8.20
9	6.62	6.44	6.57	6.63	6.88	8.68	8.33	8.41	8.92	8.88	8.70	8.17
10	6.60	6.52	6.57	6.63	6.87	8.71	8.34	8.35	8.93	8.89	8.69	8.16
11	6.59	6.50	6.53	6.63	6.85	8.70	8.37	8.37	8.94	8.89	8.67	8.13
12	6.58	6.42	6.50	6.63	6.97	8.68	8.34	8.38	8.96	8.89	8.65	8.10
13	6.55	6.42	6.50	6.63	7.00	8.67	8.34	8.39	8.96	8.88	8.65	8.06
14	6.55	6.42	6.50	6.66	7.13	8.64	8.36	8.40	8.94	8.89	8.64	8.03
15	6.54	6.41	6.50	6.65	7.35	8.64	8.34	8.41	8.95	8.85	8.62	7.97
16	6.55	6.41	6.52	6.77	7.55	8.61	8.34	8.44	8.94	8.83	8.61	7.97
17	6.55	6.39	6.48	6.78	8.03	8.60	8.34	8.46	8.91	8.79	8.60	7.94
18	6.55	6.39	6.46	6.79	8.28	8.56	8.33	8.48	8.94	8.82	8.59	7.88
19	6.55	6.35	6.46	6.80	8.53	8.52	8.32	8.53	8.97	8.80	8.57	7.89
20	6.59	6.33	6.46	6.80	8.56	8.48	8.32	8.56	8.96	8.81	8.56	7.86
21	6.59	6.36	6.46	6.81	8.54	8.45	8.32	8.51	8.99	8.79	8.53	7.86
22	6.53	6.34	6.45	6.81	8.52	8.42	8.32	8.54	8.99	8.82	8.53	7.83
23	6.53	6.37	6.44	6.83	8.51	8.43	8.32	8.56	9.00	8.83	8.51	7.83
24	6.51	6.44	6.44	6.83	8.50	8.37	8.33	8.57	9.02	8.84	8.48	7.90
25	6.51	6.40	6.44	6.83	8.48	8.35	8.33	8.59	9.02	8.85	8.47	7.86
26	6.49	6.42	6.43	6.83	8.46	8.33	8.33	8.62	9.03	8.85	8.46	7.88
27	6.50	6.47	6.42	6.84	8.44	8.31	8.35	8.65	9.01	8.83	8.45	7.87
28	6.46	6.51	6.42	6.84	8.43	8.28	8.33	8.67	8.99	8.82	8.42	7.86
29	6.46	6.47	6.44	6.84	---	8.26	8.33	8.71	8.98	8.82	8.39	7.85
30	6.44	6.46	6.51	6.86	---	8.25	8.33	8.74	8.97	8.81	8.36	7.83
31	6.43	---	6.56	6.87	---	8.24	---	8.82	---	8.81	8.36	---
MEAN	6.57	6.42	6.50	6.72	7.61	8.47	8.32	8.49	8.95	8.86	8.60	8.03
MAX	6.71	6.52	6.60	6.87	8.56	8.71	8.37	8.82	9.03	8.98	8.80	8.34
MIN	6.43	6.33	6.42	6.50	6.85	8.24	8.23	8.34	8.85	8.79	8.36	7.83
#	417300	420900	433100	470900	662200	638800	649900	710200	728600	708900	653600	588500
##	-36600	+3600	+12200	+37800	+191300	-23400	+11100	+60300	+18400	-19700	-55300	-65100

CAL YR 1985 ## -106400
WTR YR 1986 ## +134600

Usable contents, in acre-feet, at end of month.
Change in contents, in acre-feet.

NOTE.--Add 6,220 ft to obtain elevation, Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

LOCATION.--Lat 39°09'59", long 120°08'36", in NE1/4NW1/4 sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050102, on left bank 510 ft downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--507 mi².

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR CA-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft higher and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

REMARKS.--Estimated daily discharges: Sept. 16-22, 25-30. Records excellent including estimated periods. Flow completely regulated by dam at outlet of Lake Tahoe, (station 10337000) 510 ft upstream. There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin.

AVERAGE DISCHARGE (unadjusted).--86 years (water years 1901-86), 261 ft³/s, 189,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft³/s, June 19, 1969, gage height, 9.32 ft; no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,450 ft³/s, Mar. 13, gage height, 8.84 ft; minimum daily, 26 ft³/s, Sept. 25-30.

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	129	165	192	222	40	2280	1140	955	425	300	301	242
2	126	165	157	205	41	2270	643	956	617	299	302	240
3	126	174	63	158	39	2260	646	960	937	299	302	242
4	184	232	93	160	56	2250	644	961	1580	299	302	244
5	227	232	112	111	70	2250	646	955	1690	299	301	245
6	230	232	113	52	69	2240	647	724	1420	299	302	245
7	126	231	113	51	92	2250	649	627	592	201	309	247
8	47	230	112	51	113	1830	651	627	550	141	326	241
9	46	231	112	51	115	1450	649	626	504	141	326	241
10	43	233	126	51	117	1750	650	627	503	141	325	242
11	45	233	188	55	117	2100	649	625	665	143	326	243
12	43	232	192	89	121	2320	648	457	856	143	325	242
13	44	231	192	99	87	2410	646	424	855	143	289	237
14	45	231	191	113	62	2400	646	429	855	145	275	237
15	45	231	191	153	61	2400	647	428	645	156	272	105
16	44	231	202	159	61	2400	835	428	490	182	271	40
17	45	231	219	97	114	2390	954	428	268	184	270	40
18	46	230	218	51	131	2370	953	428	93	194	270	32
19	47	231	218	47	228	2360	951	428	93	214	269	28
20	46	230	219	42	831	2340	951	377	93	217	269	28
21	47	229	219	42	1750	2330	951	422	93	219	269	27
22	44	229	219	43	1930	2320	953	421	93	254	255	27
23	129	230	219	43	1930	2310	951	420	93	276	245	27
24	185	231	219	42	2160	2300	952	421	93	275	245	27
25	173	233	219	42	2310	2280	950	421	265	276	245	26
26	165	232	219	41	2300	2280	951	422	293	276	245	26
27	165	231	219	42	2290	2270	953	422	491	278	245	26
28	165	232	219	43	2290	2260	953	423	593	278	243	26
29	165	215	219	44	---	2260	955	423	593	284	243	26
30	165	194	224	44	---	2250	954	422	423	302	243	26
31	165	---	224	42	---	2100	---	424	---	301	243	---
TOTAL	3302	6692	5642	2485	19525	69280	24368	17111	16761	7159	8653	3925
MEAN	107	223	182	80.2	697	2235	812	552	559	231	279	131
MAX	230	233	224	222	2310	2410	1140	961	1690	302	326	247
MIN	43	165	63	41	39	1450	643	377	93	141	243	26
AC-FT	6550	13270	11190	4930	38730	137400	48330	33940	33250	14200	17160	7790
CAL YR 1985	TOTAL	60328	MEAN	165	MAX	378	MIN	43	AC-FT	119700		
WTR YR 1986	TOTAL	184903	MEAN	507	MAX	2410	MIN	26	AC-FT	366800		

PYRAMID AND WINNEMUCCA LAKES BASIN
10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", Long 120°01'59", in SE1/4NE1/4 sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.5 mi upstream from Mystic Canyon, 0.7 mi downstream from Farad powerplant, 2.5 mi north of Floriston, 3.4 mi downstream from Bronco Creek, and 3.5 mi upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi².

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca", March to October 1890, "at or near Nevada-California State line", September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft, above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). See WSP 2127 for history of changes prior to Aug. 26, 1957.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede, and Boca Reservoirs (stations 10337000, 10339380, 10340300, 10344300, and 10344490), Donner and Independence Lakes, and by several powerplants.

AVERAGE DISCHARGE.--87 years (water years 1900-86), 823 ft³/s, 596,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s, Nov. 21, 1950, gage height, 14.5 ft present datum, from floodmarks, on basis of slope-area measurement of peak flow; minimum, 28 ft³/s, Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,550 ft³/s, Mar. 8, gage height, 10.60 ft; minimum daily, 219 ft³/s, Oct. 12.

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	407	408	343	444	396	4460	3850	2670	2090	698	485	497
2	381	400	474	432	393	4330	2920	2630	2150	694	497	494
3	377	400	399	390	379	4290	2740	2640	2330	677	484	493
4	367	410	345	401	370	4060	2620	2560	2700	649	478	495
5	365	378	371	623	387	3870	2560	2480	2780	634	479	493
6	377	372	376	501	384	3890	2560	2440	2570	620	471	490
7	400	364	409	407	365	4630	2630	2360	1920	604	473	489
8	397	375	404	373	398	7060	2430	2380	1290	489	490	481
9	383	385	392	359	397	3900	2120	2420	1160	486	498	480
10	356	409	381	360	399	3670	1890	2490	1090	480	492	480
11	224	392	397	378	395	4300	2060	2490	1150	478	492	476
12	219	396	414	379	413	5000	2340	2500	1500	479	495	474
13	313	382	416	392	687	5320	2340	2380	1530	474	494	473
14	415	365	395	368	879	4840	2340	2390	1530	467	516	476
15	414	365	378	385	1250	4510	2420	2440	1390	456	510	523
16	409	377	368	420	1090	4350	2510	2440	1080	471	504	490
17	407	375	382	1030	4320	4070	2680	2440	1010	472	501	481
18	406	370	387	666	6620	3680	2630	2510	738	465	500	471
19	403	361	386	572	5120	3380	2500	2510	682	477	499	459
20	407	363	387	607	3320	3300	2500	2340	631	477	499	455
21	416	362	384	608	5230	3260	2590	2300	632	480	499	453
22	407	360	384	579	5300	3220	2670	2220	642	476	504	451
23	430	370	384	563	5080	3210	2640	2250	649	507	504	449
24	445	398	383	505	5080	3210	2500	2250	648	495	504	452
25	426	418	383	460	4920	3210	2500	2400	642	494	502	474
26	411	394	382	447	4550	3230	2540	2420	783	509	502	468
27	409	381	383	435	4440	3400	2540	2250	869	484	502	482
28	412	389	383	421	4460	3720	2650	2180	986	473	500	466
29	417	403	391	407	---	4070	2690	2280	965	467	498	458
30	414	352	462	414	---	4320	2670	2250	895	480	497	450
31	414	---	411	437	---	4490	---	2210	---	478	497	---
TOTAL	12028	11474	12134	14763	67022	126250	76630	74520	39032	16090	15366	14273
MEAN	388	382	391	476	2394	4073	2554	2404	1301	519	496	476
MAX	445	418	474	1030	6620	7060	3850	2670	2780	698	516	523
MIN	219	352	343	359	365	3210	1890	2180	631	456	471	449
AC-FT	23860	22760	24070	29280	132900	250400	152000	147800	77420	31910	30480	28310

CAL YR 1985 TOTAL 228176 MEAN 625 MAX 1840 MIN 219 AC-FT 452600
WTR YR 1986 TOTAL 479582 MEAN 1314 MAX 7060 MIN 219 AC-FT 951300

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 mi².

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1935, January to December 1943, January 1946 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft, 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.--No estimated daily discharges. 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.--60 years (1906-21, 1925-26, 1930-34, 1946-86), 719 ft³/s, 520,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft³/s, Dec. 23, 1955; maximum gage height, 13.83 ft Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,400 ft³/s, from rating curve extended above 14,000 ft³/s, Feb. 17, gage height, 12.58 ft; minimum, 151 ft³/s, Oct. 12, 13.

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	259	383	371	443	393	4700	4200	2680	2270	565	277	271
2	217	376	541	439	404	4600	3240	2640	2340	537	303	271
3	217	373	555	408	387	4540	2990	2650	2520	521	282	272
4	210	374	389	410	377	4330	2880	2570	2840	489	240	269
5	191	349	395	614	374	4080	2830	2490	2970	478	315	266
6	228	347	397	602	378	4020	2790	2480	2790	454	282	271
7	272	340	440	447	359	4670	2950	2370	2180	444	255	269
8	318	343	447	380	378	9140	2680	2380	1510	314	258	265
9	299	370	426	369	382	5050	2370	2370	1280	279	287	288
10	290	413	417	350	384	4420	2020	2450	1170	271	279	286
11	209	381	417	387	383	4820	2180	2490	1160	262	267	253
12	158	382	422	370	389	5300	2510	2520	1510	260	270	250
13	163	380	430	391	797	5750	2500	2380	1560	257	269	250
14	294	354	410	369	939	5340	2480	2390	1560	241	303	256
15	303	374	397	383	2100	4850	2560	2450	1490	226	285	293
16	310	405	393	400	1900	4670	2620	2420	1100	244	285	342
17	321	401	391	1130	9330	4400	2800	2410	1060	267	280	325
18	343	391	420	773	10000	4050	2750	2500	702	266	277	313
19	348	380	413	592	8390	3700	2620	2610	614	275	278	293
20	355	388	395	602	4130	3610	2580	2460	523	275	271	292
21	384	383	395	614	5560	3560	2670	2350	507	262	267	283
22	390	379	396	580	5550	3520	2760	2270	503	307	267	269
23	381	384	393	562	5330	3500	2780	2290	511	354	289	263
24	408	423	389	514	5180	3500	2610	2270	500	362	288	291
25	385	462	389	455	5100	3480	2570	2410	472	389	293	330
26	376	429	382	438	4640	3490	2600	2530	653	409	278	316
27	368	407	384	427	4550	3620	2570	2380	701	333	274	365
28	368	411	385	413	4630	3890	2690	2270	901	301	285	335
29	373	438	390	408	---	4190	2720	2390	903	285	277	313
30	376	397	483	385	---	4460	2680	2410	865	272	281	329
31	385	---	421	430	---	4650	---	2360	---	283	282	---
TOTAL	9501	11617	12873	15085	82714	137900	81200	75640	39665	10482	8644	8689
MEAN	306	387	415	487	2954	4448	2707	2440	1322	338	279	290
MAX	408	462	555	1130	10000	9140	4200	2680	2970	565	315	365
MIN	158	340	371	350	359	3480	2020	2270	472	226	240	250
AC-FT	18850	23040	25530	29920	164100	273500	161100	150000	78680	20790	17150	17230

CAL YR 1985 TOTAL 192805 MEAN 528 MAX 1690 MIN 158 AC-FT 382400
WTR YR 1986 TOTAL 494010 MEAN 1353 MAX 10000 MIN 158 AC-FT 979900

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 mi², 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.--9 years, 976 ft³/s, 707,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft³/s, Feb. 17, 1986, gage height, 15.22 ft; minimum, 2.0 ft³/s, Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,900 ft³/s, Feb. 17, gage height, 15.22 ft; minimum, 121 ft³/s, July 10.

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	268	377	346	387	359	4950	4350	2770	2530	550	201	245
2	211	367	543	384	357	4840	3420	2740	2610	503	230	250
3	216	363	579	356	371	4740	3120	2740	2780	474	216	249
4	208	360	368	361	387	4420	3090	2660	3100	434	183	250
5	189	331	369	559	393	4180	3070	2560	3260	415	234	241
6	224	334	368	594	387	4130	3020	2570	3080	387	215	226
7	276	325	411	440	363	4720	3210	2470	2460	370	178	225
8	329	334	417	367	374	10300	2940	2510	1780	252	179	222
9	314	363	397	351	329	5280	2640	2500	1510	206	208	235
10	305	411	386	327	342	4420	2270	2570	1380	188	205	248
11	225	371	402	363	381	4810	2400	2610	1360	178	186	213
12	162	379	355	345	387	5360	2710	2630	1720	178	193	197
13	152	379	407	365	830	5820	2710	2520	1770	178	203	222
14	293	276	375	337	979	5340	2700	2510	1770	163	235	217
15	310	331	368	345	2280	4850	2780	2580	1690	148	220	236
16	322	388	368	356	2040	4660	2830	2570	1250	163	214	314
17	335	388	341	1110	9240	4390	3010	2570	1200	184	212	290
18	360	375	366	780	11800	3960	2940	2650	800	184	210	269
19	369	337	363	586	10400	3790	2780	2770	687	192	210	235
20	375	354	348	588	5000	3730	2740	2640	581	193	207	236
21	407	349	344	620	6080	3680	2830	2540	549	175	200	225
22	409	352	344	572	5880	3660	2890	2460	535	230	203	212
23	399	354	337	548	5580	3660	2900	2500	536	306	224	206
24	416	393	340	514	5520	3650	2730	2460	517	327	230	234
25	391	436	340	459	5420	3640	2700	2610	483	354	231	287
26	383	403	337	416	5000	3670	2710	2730	666	378	220	271
27	375	380	336	400	4920	3790	2690	2590	694	296	226	316
28	375	382	337	378	4950	4060	2790	2480	908	233	261	272
29	376	426	339	348	---	4360	2830	2610	910	221	219	243
30	373	386	435	328	---	4610	2770	2640	867	201	223	255
31	379	---	371	384	---	4810	---	2600	---	206	219	---
TOTAL	9726	11004	11737	14268	90349	142280	86570	80360	43983	8467	6595	7341
MEAN	314	367	379	460	3227	4590	2886	2592	1466	273	213	245
MAX	416	436	579	1110	11800	10300	4350	2770	3260	550	261	316
MIN	152	276	336	327	329	3640	2270	2460	483	148	178	197
AC-FT	19290	21830	23280	28300	179200	282200	171700	159400	87240	16790	13080	14560
CAL YR 1985	TOTAL 185493		MEAN 508	MAX 1720	MIN 115	AC-FT 367900						
WTR YR 1986	TOTAL 512680		MEAN 1405	MAX 11800	MIN 148	AC-FT 1017000						

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 mi².

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 estimated daily discharges above 20 ft³/s, which are poor. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake (station 10336710) during dry years.

AVERAGE DISCHARGE.--12 years (1975-86) 4.00 ft³/s, 2,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft³/s, Apr. 12, 1982, gage height, 2.60 ft; maximum gage height, 3.68 ft, Jan. 8, 1975, backwater from ice or snowblock; minimum daily, 0.48 ft³/s, Sept. 9-11, and Sept. 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 89 ft³/s, Feb. 16, gage height, 3.64 ft, from rating curve extended above 20 ft³/s and on basis of slope-conveyance measurement of peak flow; minimum daily, 0.64 ft³/s, Sept. 7, but may have been less during periods of ice effect, Nov. 10, 11, Dec. 8-27, Jan. 23, 24, Feb. 2, 3, and Feb. 7.

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	1.9	2.3	1.5	2.3	2.3	4.5	9.5	12	18	6.3	3.9	.72
2	2.0	2.3	2.7	2.3	e2.3	4.1	7.9	15	18	6.2	3.8	3.3
3	2.0	2.3	1.6	2.2	e2.4	4.2	6.7	14	18	6.1	3.6	3.7
4	2.0	2.3	1.5	2.6	2.4	4.6	6.9	11	16	6.1	3.5	.71
5	2.0	2.3	1.4	3.7	2.2	4.9	7.3	9.8	13	6.0	3.5	.73
6	2.1	2.3	1.4	3.1	2.0	4.6	7.3	9.0	12	6.1	3.4	.72
7	2.2	2.3	2.3	2.6	e2.0	6.2	7.4	8.3	11	5.5	3.2	.64
8	2.1	2.3	e1.7	2.4	1.9	15	6.6	8.6	11	11	3.2	.65
9	2.4	2.3	e1.5	2.3	1.9	9.5	6.8	9.5	10	6.9	3.0	1.0
10	2.5	e2.3	e1.4	2.3	1.9	7.3	8.0	11	9.8	6.4	2.9	1.2
11	2.5	e2.4	e1.4	2.2	1.9	6.0	9.2	12	8.8	5.9	2.7	.85
12	2.4	2.6	e1.4	2.2	2.1	5.4	8.8	12	9.8	5.1	2.7	.93
13	2.4	2.5	e1.4	2.2	11	5.3	7.9	12	9.9	4.7	2.6	.99
14	2.4	2.5	e1.5	2.3	4.2	5.2	7.9	14	10	5.5	2.3	.98
15	2.4	2.6	e1.6	3.5	31	5.2	8.1	15	9.6	5.3	2.4	.97
16	2.5	2.6	e1.6	2.8	65	4.9	7.7	13	9.2	4.8	2.9	.87
17	2.5	2.6	e1.7	4.3	54	4.6	6.0	14	9.1	4.6	2.5	.87
18	2.5	2.6	e1.7	3.5	41	4.4	5.3	15	8.9	4.9	2.4	1.0
19	2.5	2.5	e1.8	3.1	16	4.5	6.0	16	8.6	4.5	2.5	.98
20	2.4	2.5	e1.8	2.9	7.1	4.6	8.1	13	8.4	4.4	2.6	1.1
21	2.5	2.6	e1.9	2.6	6.0	4.7	12	12	8.2	4.4	2.4	1.3
22	2.4	2.6	e1.9	2.4	3.9	4.8	15	11	8.1	4.9	5.8	2.2
23	2.7	2.7	e1.8	e2.4	3.4	5.0	13	11	7.9	8.6	4.6	2.4
24	2.7	2.7	e1.8	e2.4	3.7	5.3	11	12	7.7	4.8	2.9	3.3
25	2.6	2.6	e1.8	2.2	3.8	5.3	9.6	14	7.5	5.3	4.3	4.1
26	2.6	2.5	e1.8	2.2	4.2	5.8	8.7	18	7.2	6.2	6.5	4.0
27	2.5	2.0	e1.9	2.1	4.2	6.7	10	18	6.9	4.9	6.3	3.8
28	2.5	1.5	2.0	2.2	4.4	8.0	12	19	6.7	3.4	2.4	4.0
29	2.4	1.5	2.1	2.2	---	8.6	12	20	6.6	2.1	.80	3.4
30	2.4	1.5	2.4	2.6	---	9.8	10	20	6.5	3.5	.80	3.2
31	2.4	---	2.4	2.5	---	10	---	19	---	4.0	.80	---
TOTAL	73.4	70.6	54.7	80.6	288.2	189.0	262.7	418.2	302.4	168.4	97.20	54.61
MEAN	2.37	2.35	1.76	2.60	10.3	6.10	8.76	13.5	10.1	5.43	3.14	1.82
MAX	2.7	2.7	2.7	4.3	65	15	15	20	18	11	6.5	4.1
MIN	1.9	1.5	1.4	2.1	1.9	4.1	5.3	8.3	6.5	2.1	.80	.64
AC-FT	146	140	108	160	572	375	521	829	600	334	193	108

CAL YR 1985 TOTAL 1200.39 MEAN 3.29 MAX 40 MIN .90 AC-FT 2380
WTR YR 1986 TOTAL 2059.99 MEAN 5.64 MAX 65 MIN .64 AC-FT 4090

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 mi², 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 altitudes 5,017.5 ft and 5,032.0 ft. Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum altitude recorded, 5,031.97 ft, Mar. 13, 1986; minimum observed, 5,021.8 ft, Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum altitude recorded, 5,031.97 ft, Mar. 13; minimum recorded, 5,026.31 ft, occurred sometime during period, Nov. 7 to Dec. 4, from recorded range of stage.

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	5,032	55,700

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.78	6.62	e7.10	7.29	e8.08	11.52	11.64	11.07	10.75	10.17	9.47	8.61
2	6.78	6.62	e7.08	7.25	e8.10	11.52	11.61	11.04	10.77	10.14	9.44	8.60
3	6.76	6.60	e7.06	7.32	e8.11	11.50	11.60	11.06	10.75	10.05	9.41	8.64
4	6.75	6.58	7.07	7.36	e8.13	11.51	11.57	11.05	10.75	10.05	9.38	8.62
5	6.72	6.60	7.08	7.41	8.15	11.50	11.58	11.04	10.75	10.02	9.35	8.60
6	6.70	6.59	7.09	7.43	8.15	11.49	11.60	11.03	10.74	9.97	9.35	8.57
7	6.69	e6.56	7.08	7.39	8.15	11.47	11.60	11.01	10.71	9.95	9.32	8.55
8	6.78	e6.53	7.08	7.41	8.16	11.87	11.57	11.00	10.70	9.92	9.27	8.50
9	6.72	e6.50	7.08	7.39	8.15	11.88	11.57	10.95	10.70	9.90	9.24	8.49
10	6.70	e6.47	7.10	7.41	8.15	11.95	11.55	10.95	10.69	9.87	9.21	8.45
11	6.70	e6.44	7.08	e7.42	8.15	11.90	11.50	10.94	10.67	9.85	9.17	8.43
12	6.69	e6.41	7.08	e7.45	8.16	11.90	11.55	10.93	10.65	9.80	9.13	8.40
13	6.68	e6.38	7.08	e7.48	8.29	11.97	11.46	10.92	10.62	9.76	9.11	8.35
14	6.69	e6.35	7.09	e7.50	8.35	11.89	11.43	10.90	10.60	9.74	9.08	8.35
15	6.68	e6.33	7.09	e7.52	8.73	11.90	11.43	10.88	10.57	9.68	9.05	8.30
16	6.68	e6.40	7.10	e7.55	9.11	11.95	11.38	10.87	10.55	9.66	9.03	8.30
17	6.67	e6.45	7.10	e7.62	10.15	11.95	11.35	10.86	10.52	9.67	8.99	8.23
18	6.66	e6.50	7.12	e7.65	10.99	11.87	11.35	10.85	10.49	9.67	8.95	8.30
19	6.64	e6.55	7.12	e7.69	11.47	11.85	11.33	10.83	10.47	9.60	8.93	8.25
20	6.63	e6.60	7.13	e7.71	11.62	11.80	11.31	10.72	10.44	9.58	8.90	8.22
21	6.62	e6.65	7.13	e7.74	11.64	11.78	11.27	10.75	10.43	9.55	8.88	8.21
22	6.61	e6.70	7.14	e7.78	11.66	11.76	11.27	10.75	10.42	9.53	8.87	8.20
23	6.63	e6.75	7.15	e7.83	11.69	11.71	11.28	10.75	10.40	9.60	8.84	8.18
24	6.65	e6.80	7.15	e7.86	11.69	11.73	11.25	10.75	10.38	9.61	8.83	8.17
25	6.64	e6.90	7.15	e7.89	11.70	11.70	11.21	10.73	10.35	9.62	8.76	8.16
26	6.64	e6.96	7.16	e7.91	11.69	11.68	11.19	10.73	10.30	9.60	8.74	8.20
27	6.63	e7.05	7.16	e7.93	11.53	11.67	11.15	10.73	10.27	9.59	8.71	8.16
28	6.63	e7.12	7.18	e7.95	11.51	11.66	11.15	10.73	10.24	9.58	8.70	8.15
29	6.62	e7.12	7.19	e7.88	---	11.64	11.13	10.72	10.22	9.53	8.66	8.25
30	6.62	e7.11	7.24	e8.03	---	11.64	11.08	10.74	10.20	9.52	8.65	8.24
31	6.62	---	7.27	e8.05	---	11.62	---	10.75	---	9.50	8.62	---
MAX	6.78	7.12	7.27	8.05	11.70	11.97	11.64	11.07	10.77	10.17	9.47	8.64
MIN	6.61	6.33	7.06	7.25	8.08	11.47	11.08	10.72	10.20	9.50	8.62	8.15
#	+24710	27190	28060	32270	52520	53230	49720	47620	44390	40350	35360	33300
##	-890	+2480	+870	+4210	+20250	+710	-3510	-2100	-3230	-4040	-4990	-2060

CAL YR 1985 MAX 9.88 MIN 6.33 ## -7360
WTR YR 1986 MAX 11.97 MIN 6.33 ## +7700

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 mi².

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, 5,031.8 ft, Apr. 1; minimum observed, 5,026.2 ft, Oct. 3.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	5,026.2	320	--
Oct. 31.	5,026.4	340	+20
Nov. 30.	5,026.8	380	+40
Dec. 31.	5,027.1	410	+30
CAL YR 1985.	--	--	-167
Jan. 31.	5,027.2	420	+10
Feb. 28.	5,031.3	883	+465
Mar. 31.	5,031.8	938	+55
Apr. 30.	5,031.0	850	-88
May 31.	5,030.6	800	-50
June 30.	5,030.0	750	-50
July 31.	5,029.4	690	-60
Aug. 31.	5,028.5	555	-135
Sep. 30.	5,028.2	522	-33
WTR YR 1985-86	--	--	+202

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 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s, June 3, 1986, gage height, 1.63 ft, from rating curve extended above 60 ft³/s; minimum daily, 3.9 ft³/s, Nov. 17, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	0830	38	1.38	June 3	2100	*78	*1.63
Mar. 8	0500	31	1.18				

Minimum daily, 3.9 ft³/s, Nov. 17.

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	5.7	5.9	e6.0	6.7	8.0	e12	19	21	57	36	e13	9.3
2	5.7	5.9	e6.4	6.9	8.8	e12	17	22	65	35	e13	9.2
3	5.7	6.0	e6.0	6.7	10	e12	16	21	e69	35	e13	8.8
4	5.7	6.0	e5.5	8.2	8.7	e13	15	19	e73	34	e13	8.8
5	5.9	6.0	e5.4	8.5	8.6	e13	15	19	e69	33	e13	8.4
6	6.8	5.8	e5.3	7.5	e7.7	13	14	18	e67	32	e12	8.2
7	6.9	5.8	e5.1	7.7	e7.6	15	14	17	64	34	e11	8.2
8	6.5	5.8	e5.0	7.4	e7.6	24	14	17	59	35	e11	8.2
9	6.6	5.5	e4.8	7.4	e7.6	17	14	18	57	25	e11	8.2
10	7.3	e5.0	e4.3	7.2	e7.5	14	16	20	53	23	e11	8.2
11	7.7	e4.6	e4.7	7.5	e7.7	13	17	20	50	22	e10	8.2
12	7.0	e4.7	e5.2	7.5	7.8	12	16	23	50	22	12	8.2
13	6.2	e4.7	e5.8	7.4	6.5	11	14	24	51	22	12	8.2
14	6.1	e4.1	e5.8	7.6	8.6	11	14	26	52	21	12	8.2
15	6.2	e4.1	e5.8	7.8	7.4	10	14	28	56	21	11	8.2
16	6.3	e4.1	e5.8	9.2	9.2	10	14	31	54	19	11	8.7
17	6.2	e3.9	e5.9	10	23	9.4	13	33	52	18	11	9.0
18	6.2	e4.1	6.0	9.2	16	e9.4	12	37	52	19	11	8.7
19	6.2	e4.3	6.0	10	14	9.5	14	40	47	18	11	8.7
20	6.1	e4.4	6.0	9.1	9.1	9.7	16	41	45	19	10	8.7
21	5.8	e4.7	6.1	8.9	7.6	10	19	40	45	20	10	8.7
22	6.1	e5.2	6.0	8.6	7.2	10	21	40	45	19	9.9	8.7
23	7.2	e5.3	6.2	8.8	7.1	10	20	41	45	19	9.7	8.7
24	7.0	e5.4	6.2	e8.6	7.6	11	19	44	44	18	9.6	9.0
25	6.6	e5.4	6.2	e8.5	8.6	11	18	48	42	18	9.7	9.0
26	6.3	e5.0	6.2	8.3	8.8	12	17	48	40	17	10	9.0
27	6.2	e5.5	6.3	8.4	9.4	14	19	49	38	17	10	9.2
28	6.0	e5.6	6.3	8.2	11	15	22	49	37	17	10	9.2
29	6.0	e5.4	6.8	8.2	---	17	22	51	37	15	9.4	9.5
30	5.9	e5.2	7.6	8.5	---	18	21	e54	36	e14	9.2	10
31	5.7	---	6.9	8.2	---	19	---	48	---	e13	9.2	---
TOTAL	195.8	153.4	181.6	252.7	258.7	397.0	496	1007	1551	710	338.7	261.3
MEAN	6.32	5.11	5.86	8.15	9.24	12.8	16.5	32.5	51.7	22.9	10.9	8.71
MAX	7.7	6.0	7.6	10	23	24	22	54	73	36	13	10
MIN	5.7	3.9	4.3	6.7	6.5	9.4	12	17	36	13	9.2	8.2
AC-FT	388	304	360	501	513	787	984	2000	3080	1410	672	518

CAL YR 1985 TOTAL 3479.8 MEAN 9.53 MAX 24 MIN 3.9 AC-FT 6900
WTR YR 1986 TOTAL 5803.2 MEAN 15.9 MAX 73 MIN 3.9 AC-FT 11510

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 mi², 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.--25 years, 9.97 ft³/s, 7,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	2200	*94	3.43	May 30-June 4	unknown	unknown	unknown
Mar. 8	0600	74	*3.45				

Minimum daily, 0.77 ft³/s, Dec. 19, result of freezeup.

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	8.8	4.7	3.2	.94	1.3	13	20	e22	e62	e35	14	10
2	7.1	4.7	2.4	.88	1.3	14	19	e23	e69	e35	14	11
3	5.4	4.7	1.4	.82	1.5	11	18	e22	e77	e35	14	11
4	4.5	4.7	1.2	2.0	1.4	12	16	e21	e86	e34	14	11
5	4.5	4.7	1.0	3.5	e1.4	12	16	e20	e70	e33	14	10
6	4.8	4.7	1.1	1.3	1.4	11	15	e19	e60	e33	13	10
7	4.7	4.7	.94	1.1	e1.4	16	15	e18	e57	e32	13	11
8	4.4	4.7	1.0	1.3	1.4	40	14	e18	e52	e31	12	11
9	4.6	4.5	.88	1.1	e1.3	16	14	e19	e50	e30	12	11
10	4.6	e5.0	e.80	1.1	1.5	16	16	e21	e50	e27	12	11
11	4.7	5.7	e.80	1.1	1.3	13	19	e22	e50	e24	11	11
12	4.7	e5.4	e.80	1.2	1.3	12	19	e24	e50	e23	12	11
13	4.6	e5.4	e.80	1.2	3.7	11	14	e25	e51	e23	13	11
14	4.4	e5.4	e.80	1.1	3.9	10	14	e27	e53	e23	13	11
15	4.5	e5.6	e.80	1.2	4.3	10	14	e29	e56	e22	12	11
16	4.5	e4.5	1.0	3.2	8.5	10	14	30	e54	e21	12	12
17	4.5	3.6	.94	3.2	40	10	13	34	e52	e20	12	12
18	4.1	e3.3	.88	1.8	40	10	13	38	e52	e21	12	12
19	4.1	e2.9	.77	2.0	30	10	13	40	e48	e20	11	12
20	4.1	e2.9	e4.1	1.8	15	10	19	40	e45	e21	11	12
21	4.3	e2.9	e2.7	1.7	12	10	22	39	e45	e21	11	12
22	4.6	e3.0	e1.2	1.6	10	12	23	38	e45	20	11	12
23	5.0	e3.2	e1.0	1.4	9.8	11	e21	38	e45	e19	11	12
24	4.9	3.2	e1.0	1.8	10	12	e20	42	e44	e19	10	12
25	4.9	3.5	e1.0	1.9	10	12	e19	46	e42	e19	11	12
26	4.9	3.8	e1.0	1.8	11	13	e18	e51	e40	18	10	12
27	4.9	4.0	e1.0	2.1	12	15	e20	e52	e38	17	10	12
28	4.8	4.2	e1.0	1.3	13	17	e23	e53	e37	15	12	12
29	4.7	4.3	e1.0	1.3	---	18	e23	e54	e37	15	11	12
30	4.7	5.1	e1.0	1.5	---	20	e22	e60	e36	15	11	13
31	4.6	---	1.2	1.4	---	21	---	e56	---	14	11	---
TOTAL	149.9	129.0	38.71	49.64	249.7	428	526	1041	1553	735	370	343
MEAN	4.84	4.30	1.25	1.60	8.92	13.8	17.5	33.6	51.8	23.7	11.9	11.4
MAX	8.8	5.7	4.1	3.5	40	40	23	60	86	35	14	13
MIN	4.1	2.9	.77	.82	1.3	10	13	18	36	14	10	10
AC-FT	297	256	77	98	495	849	1040	2060	3080	1460	734	680

CAL YR 1985 TOTAL 2201.99 MEAN 6.03 MAX 13 MIN .77 AC-FT 4370
WTR YR 1986 TOTAL 5612.95 MEAN 15.4 MAX 86 MIN .77 AC-FT 11130

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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 except for periods of estimated daily record, which are fair. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700).

AVERAGE DISCHARGE.--25 years, 22.4 ft³/s, 16,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft³/s, Feb. 17, 1986, gage height, 6.79 ft, from rating curve extended above 954 ft³/s on basis of slope-area measurement of peak flow; minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft³/s Feb. 17, gage height, 6.79 ft, on basis of slope-area measurement of peak flow; minimum daily, 2.3 ft³/s, Oct. 2.

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	2.9	7.5	13	e14	7.5	172	176	127	152	73	22	12
2	2.3	7.2	23	e13	7.1	167	163	128	149	75	19	8.6
3	3.8	9.1	13	e13	8.0	166	161	128	152	70	15	6.5
4	8.9	9.7	11	e14	7.9	167	160	114	146	67	14	7.5
5	9.7	9.7	10	e21	9.8	165	162	116	143	57	11	5.2
6	10	9.7	9.6	e18	e9.7	165	157	116	138	54	19	5.8
7	12	11	9.9	e15	e9.8	174	162	111	130	52	37	5.2
8	14	10	9.9	e14	e10	303	157	107	125	50	19	7.5
9	20	10	9.9	e13	e10	247	155	107	124	49	17	14
10	19	10	9.5	e12	e10	238	156	113	121	45	16	16
11	17	e9.5	9.4	e12	e10	222	157	104	120	41	17	17
12	12	e10	e9.2	e12	16	224	164	104	119	39	17	17
13	11	e11	e9.2	e12	35	206	147	105	113	37	16	17
14	12	e12	e9.2	e13	45	199	146	106	113	33	15	18
15	11	13	e9.5	e14	219	202	150	105	106	30	13	18
16	11	14	9.8	e16	240	194	141	105	106	32	9.6	19
17	11	14	10	e24	1220	190	134	109	100	26	8.5	17
18	8.4	13	9.9	e20	510	186	133	113	96	25	6.1	12
19	8.0	9.2	9.7	e15	527	184	131	115	91	24	4.6	12
20	7.8	12	9.5	e10	259	180	129	115	81	24	6.1	11
21	11	12	9.4	e9.0	203	178	133	117	79	22	5.6	12
22	11	13	9.4	7.8	184	173	138	100	79	21	4.1	11
23	11	14	9.4	7.3	163	171	133	99	71	42	8.9	10
24	11	16	9.3	7.0	157	173	133	102	93	37	30	13
25	11	17	9.4	7.3	158	160	134	104	98	37	35	15
26	11	14	9.4	7.5	158	160	127	108	96	36	34	13
27	10	14	9.7	7.6	167	160	132	112	89	35	29	17
28	9.8	14	9.8	7.5	172	160	138	118	83	32	11	14
29	9.0	16	10	7.7	---	161	135	127	77	30	12	15
30	9.2	14	12	7.5	---	167	129	135	74	27	13	15
31	9.9	---	e14	7.3	---	168	---	148	---	25	12	---
TOTAL	325.7	355.6	326.0	378.5	4532.8	5782	4373	3518	3264	1247	496.5	381.3
MEAN	10.5	11.9	10.5	12.2	162	187	146	113	109	40.2	16.0	12.7
MAX	20	17	23	24	1220	303	176	148	152	75	37	19
MIN	2.3	7.2	9.2	7.0	7.1	160	127	99	71	21	4.1	5.2
AC-FT	646	705	647	751	8990	11470	8670	6980	6470	2470	985	756

CAL YR 1985 TOTAL 5230.9 MEAN 14.3 MAX 82 MIN 1.2 AC-FT 10380
WTR YR 1986 TOTAL 24980.4 MEAN 68.4 MAX 1220 MIN 2.3 AC-FT 49550

e Estimated.

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 Railroad 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 mi².

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft, 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 good except for 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, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--58 years, 857 ft³/s, 620,900 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft³/s, Feb. 1, 1963, gage height, 16.76 ft, from rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 7 ft³/s, Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,100 ft³/s, Feb. 18, gage height, 15.82 ft; minimum, 218 ft³/s, Oct. 13.

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	452	513	556	646	551	6060	5000	3020	2650	776	421	418
2	e352	506	788	653	574	5870	4070	2980	2690	709	428	421
3	e333	515	797	625	565	5770	3700	3000	2860	701	414	424
4	e321	512	517	626	526	5580	3560	2950	3140	668	390	433
5	e380	490	510	885	523	5190	3680	2840	3300	661	416	416
6	e532	496	510	799	518	5080	3490	2860	3080	636	416	401
7	e579	492	554	605	497	5580	3590	2740	2450	629	381	395
8	e676	509	579	550	506	11400	3520	2750	1810	536	370	395
9	e663	563	557	501	517	7130	3300	2730	1580	487	404	410
10	e621	632	542	487	515	5400	3100	2780	1470	467	398	425
11	e437	604	534	484	515	5790	3000	2830	1460	447	379	400
12	e344	627	507	506	519	6430	2950	2860	1830	439	376	378
13	e323	630	507	498	995	7020	2960	2720	1890	436	397	422
14	e420	564	489	515	1110	6450	2960	2690	1880	419	414	425
15	e457	591	489	486	2750	5800	2950	2750	1810	394	397	461
16	e474	651	485	508	2820	5580	3000	2730	1410	397	389	486
17	e492	652	491	897	9190	5270	3240	2720	1350	420	388	473
18	e497	640	523	1220	15200	4800	3190	2820	999	413	386	464
19	e475	580	526	825	14700	4390	3020	2930	e887	417	385	429
20	e486	596	505	774	8100	4310	2960	2810	e758	422	394	451
21	e520	607	510	800	7510	4250	3040	2680	e727	406	388	443
22	e524	609	514	778	6960	4190	3120	2590	e708	464	389	442
23	e519	622	518	742	6610	4160	3160	2600	e677	621	408	428
24	e549	675	522	714	6500	4140	2980	2560	e700	581	414	446
25	e514	673	527	646	6690	4110	2940	2710	741	632	420	516
26	e501	634	532	614	6200	4100	2970	2840	858	662	408	500
27	e501	595	538	601	6150	4200	2930	2680	849	569	406	561
28	e504	610	549	579	6040	4510	3030	2600	1010	496	430	530
29	e509	670	557	548	---	4870	3090	2690	1030	470	391	500
30	e512	634	703	532	---	5170	3020	2730	1010	444	384	493
31	e528	---	645	572	---	5420	---	2690	---	437	386	---
TOTAL	14995	17692	17081	20216	113851	168020	97520	85880	47614	16256	12367	13386
MEAN	484	590	551	652	4066	5420	3251	2770	1587	524	399	446
MAX	676	675	797	1220	15200	11400	5000	3020	3300	776	430	561
MIN	321	490	485	484	497	4100	2930	2560	677	394	370	378
AC-FT	29740	35090	33880	40100	225800	333300	193400	170300	94440	32240	24530	26550

CAL YR 1985 TOTAL 249536 MEAN 684 MAX 1910 MIN 266 AC-FT 495000
WTR YR 1986 TOTAL 624878 MEAN 1712 MAX 15200 MIN 321 AC-FT 1239000

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 mi².

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 fair. 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.--14 years, 995 ft³/s, 720,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s, Feb. 19, 1986, from rating curve extended above 8,800 ft³/s, gage height, 15.2 ft, from floodmarks; minimum, 22 ft³/s, Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft³/s, Feb. 19, gage height, 15.2 ft, from floodmarks; minimum, 243 ft³/s, Oct. 14.

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	405	468	456	493	492	5200	4920	2890	2470	772	422	375
2	352	459	607	505	506	5050	4110	2850	2460	660	426	378
3	341	461	860	486	515	4950	3820	2840	2640	661	420	378
4	327	447	512	450	473	4800	3730	2830	2850	637	407	388
5	318	460	479	684	458	4600	3550	2720	3060	629	405	378
6	318	428	481	779	455	4620	3490	2730	2900	619	436	353
7	404	428	499	546	439	5010	e3550	2600	2370	613	391	359
8	427	428	527	461	435	8790	e3520	2600	1700	541	383	350
9	491	452	498	430	446	6620	e3100	2570	1390	471	396	353
10	449	503	488	421	449	5010	e3000	2630	1320	458	404	379
11	400	497	464	433	447	5200	e2850	2670	1330	434	388	355
12	288	493	508	437	450	5620	2740	2700	1560	433	366	333
13	266	493	544	450	853	6180	2790	2590	1710	432	387	352
14	333	446	459	446	955	5860	2750	2540	1710	414	397	352
15	399	435	455	435	2830	5400	2780	2590	1660	388	398	385
16	412	482	445	455	3070	5240	2820	2580	e1400	386	382	441
17	434	498	436	1130	7980	5030	3030	2550	e1230	408	379	431
18	448	494	459	1040	e14500	4680	3030	2630	e1110	400	376	425
19	456	442	460	737	e16000	4310	2880	2750	e820	403	368	394
20	441	440	435	704	e9000	4200	2810	2650	e670	415	374	397
21	458	442	433	736	7050	4110	2880	2490	e570	394	370	398
22	470	445	427	703	6630	4070	2960	2420	e530	409	367	395
23	459	443	426	668	6160	4040	2980	2420	e520	640	374	388
24	489	471	420	636	5900	4010	2860	2370	530	575	391	390
25	485	548	425	566	5920	3980	2790	2490	614	620	389	453
26	468	531	421	542	5400	3990	2820	2640	749	686	382	455
27	459	489	419	530	5230	4080	2800	2490	752	563	374	500
28	455	496	422	513	5170	4350	2860	2350	950	500	394	480
29	454	528	426	480	---	4640	2950	2470	999	467	372	444
30	460	542	521	470	---	4880	2890	2530	985	446	360	429
31	471	---	523	500	---	5110	---	2460	---	439	362	---
TOTAL	12837	14189	14935	17866	108213	153630	94060	80640	43559	15913	12040	11888
MEAN	414	473	482	576	3865	4956	3135	2601	1452	513	388	396
MAX	491	548	860	1130	16000	8790	4920	2890	3060	772	436	500
MIN	266	428	419	421	435	3980	2740	2350	520	386	360	333
AC-FT	25460	28140	29620	35440	214600	304700	186600	159900	86400	31560	23880	23580

CAL YR 1985 TOTAL 225268 MEAN 617 MAX 1750 MIN 238 AC-FT 446800
WTR YR 1986 TOTAL 579770 MEAN 1588 MAX 16000 MIN 266 AC-FT 1150000

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10350500 TRUCKEE RIVER AT CLARK, NV

191

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 mi², 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, 444 microsiemens June 2, 1986; 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, 444 microsiemens June 2; minimum, 62 microsiemens Feb. 17.

WATER TEMPERATURES: Maximum, 26.5°C July 12-14, Aug. 1; minimum, 0.0°C Dec. 12-14.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.5	12.5	14.5	---	---	---	5.5	4.5	5.0	6.5	5.0	6.0
2	16.5	12.5	14.5	---	---	---	7.0	5.0	6.0	6.0	5.0	5.5
3	17.5	13.0	15.5	---	---	---	6.5	5.5	6.0	5.5	4.0	5.0
4	17.5	13.5	16.0	---	---	---	7.0	5.5	6.0	5.5	4.5	5.0
5	18.0	14.0	16.0	---	---	---	6.5	5.0	6.0	5.5	4.5	5.0
6	16.5	14.5	15.5	---	---	---	6.0	5.0	5.5	5.5	4.5	5.0
7	15.5	13.5	14.5	---	---	---	6.5	5.5	6.0	4.5	3.5	4.0
8	14.0	10.5	12.5	---	---	---	5.5	3.5	5.0	4.0	3.0	3.5
9	11.0	9.0	10.0	---	---	---	4.5	3.5	4.0	5.0	2.5	4.0
10	11.5	8.0	10.0	---	---	---	3.5	1.5	2.5	5.0	3.0	4.0
11	13.0	9.0	11.0	---	---	---	1.5	.5	1.0	5.5	3.5	4.5
12	13.5	10.5	12.0	---	---	---	1.0	.0	.5	5.0	4.0	4.5
13	12.5	9.5	11.5	---	---	---	1.0	.0	.5	5.0	3.5	4.0
14	12.0	9.0	10.5	---	---	---	1.5	.0	1.0	4.5	3.5	4.0
15	10.5	8.5	9.0	---	---	---	1.5	.5	1.0	5.0	4.0	4.5
16	---	---	---	---	---	---	2.5	.5	1.5	7.0	4.5	6.0
17	---	---	---	---	---	---	3.0	1.0	2.0	7.0	6.0	6.5
18	---	---	---	---	---	---	3.0	1.5	2.0	6.0	5.0	5.5
19	---	---	---	---	---	---	3.5	1.5	2.5	7.5	5.0	6.0
20	---	---	---	---	---	---	3.5	1.5	2.5	7.0	5.5	6.5
21	---	---	---	---	---	---	3.0	1.5	2.0	5.5	4.5	5.0
22	---	---	---	4.0	3.5	4.0	3.0	1.5	2.5	5.5	4.5	5.0
23	---	---	---	4.5	3.0	4.0	2.5	2.0	2.5	5.5	4.5	5.0
24	---	---	---	5.0	4.0	4.5	3.0	2.0	2.5	5.0	3.5	4.5
25	---	---	---	7.0	5.0	6.0	2.5	2.0	2.5	4.5	3.0	4.0
26	---	---	---	7.0	5.5	6.0	2.5	2.0	2.0	5.0	3.0	4.0
27	---	---	---	6.0	5.0	5.5	2.5	2.0	2.0	5.5	3.5	4.5
28	---	---	---	6.5	5.5	6.0	3.0	2.0	2.5	6.5	5.0	5.5
29	---	---	---	6.5	5.0	6.0	3.5	2.0	3.0	7.0	5.0	6.0
30	---	---	---	6.0	4.5	5.0	5.5	3.5	4.5	8.0	6.5	7.0
31	---	---	---	---	---	---	6.0	5.5	6.0	7.0	6.0	6.5
MONTH	18.0	8.0	13.0	7.0	3.0	5.0	7.0	.0	3.0	8.0	2.5	5.0

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	7.5	5.5	6.5	7.5	6.5	6.5	10.0	8.5	9.0	10.5	9.0	9.5
2	6.5	5.0	6.0	8.0	6.5	7.0	8.5	7.0	7.5	11.5	9.0	10.5
3	5.0	4.0	4.5	8.0	6.5	7.0	8.5	6.5	7.5	11.0	9.0	10.0
4	6.0	3.5	4.5	8.0	7.0	7.5	9.0	7.5	8.5	9.5	7.5	8.5
5	6.5	4.0	5.0	8.0	7.5	7.5	9.5	8.5	9.5	9.5	8.0	8.5
6	5.5	3.5	4.5	8.0	7.0	7.5	9.5	8.5	9.0	9.0	7.0	7.5
7	4.0	2.5	3.5	7.5	7.0	7.5	9.5	8.5	9.5	10.0	7.5	8.5
8	4.0	1.5	3.0	7.0	4.5	6.0	9.0	7.5	8.5	11.5	9.0	10.0
9	4.0	1.5	2.5	5.5	4.0	4.5	10.5	7.5	9.0	11.5	9.5	11.0
10	4.0	1.5	2.5	6.0	5.0	5.5	11.5	10.0	11.0	11.5	10.5	11.0
11	3.5	2.0	2.5	6.5	5.0	5.5	11.0	9.5	10.0	11.0	9.5	10.5
12	5.5	3.0	4.0	6.0	5.0	5.5	10.5	8.0	9.5	12.0	10.0	11.0
13	7.5	5.0	6.0	5.5	5.0	5.5	8.5	6.0	7.5	12.0	10.5	11.5
14	7.5	6.0	6.5	6.0	4.5	5.5	9.5	7.5	8.5	12.0	10.5	11.0
15	7.5	4.0	5.5	6.0	5.0	5.5	9.5	8.5	9.0	12.5	10.5	11.5
16	5.0	3.5	4.0	5.0	4.5	5.0	9.0	6.5	7.5	12.5	10.5	12.0
17	5.0	4.0	4.5	5.5	5.0	5.0	8.0	6.5	7.5	13.0	10.5	12.0
18	4.0	4.0	4.0	6.5	5.0	6.0	9.0	7.0	8.0	13.5	12.0	13.0
19	4.0	3.5	4.0	7.5	6.0	6.5	10.5	8.0	9.5	13.5	12.0	12.5
20	4.5	3.0	4.0	8.5	7.0	7.5	11.5	9.5	10.5	12.0	10.0	11.0
21	5.0	3.5	4.5	8.5	7.5	8.0	12.5	10.5	11.5	11.5	9.5	10.5
22	6.0	4.5	5.5	8.5	7.0	7.5	12.0	10.5	11.5	11.0	9.0	10.5
23	6.0	4.5	5.5	8.5	7.0	7.5	11.5	9.5	10.5	12.5	10.5	11.5
24	6.5	5.0	5.5	8.5	7.5	8.0	10.5	9.0	9.5	13.5	10.5	12.0
25	6.5	5.5	6.0	8.5	7.5	8.0	10.0	8.0	9.0	14.5	12.5	13.5
26	7.0	5.5	6.5	9.0	8.0	8.5	9.5	7.5	9.0	14.5	13.0	14.0
27	7.5	6.0	7.0	9.5	8.5	9.0	11.0	8.5	9.5	14.5	13.0	14.0
28	7.5	6.0	7.0	9.5	8.5	9.0	12.0	10.0	11.0	15.0	13.0	14.5
29	---	---	---	10.0	9.0	9.5	10.5	9.0	10.0	16.0	14.0	15.0
30	---	---	---	10.5	9.5	10.0	10.5	9.0	10.0	16.0	14.0	15.0
31	---	---	---	10.5	9.0	9.5	---	---	---	16.5	15.0	15.5
MONTH	7.5	1.5	5.0	10.5	4.0	7.0	12.5	6.0	9.5	16.5	7.0	11.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	15.5	13.0	14.5	23.0	19.0	20.5	26.5	20.5	23.5	23.0	18.0	20.5
2	16.5	14.0	15.0	24.0	20.5	21.5	26.0	20.5	23.0	23.0	18.0	20.5
3	16.0	14.5	15.5	23.0	20.0	21.5	25.0	20.0	22.5	23.5	18.5	21.0
4	15.5	14.0	14.5	21.5	19.0	20.5	25.0	19.5	22.5	24.0	18.5	21.5
5	14.5	13.5	14.0	21.0	17.5	19.0	25.5	19.5	22.5	24.0	19.5	21.5
6	14.5	13.5	14.0	23.0	18.5	20.0	25.0	20.5	22.5	24.0	19.5	21.5
7	14.0	13.0	13.5	22.0	19.0	20.0	25.0	19.5	22.0	23.0	19.0	21.0
8	15.5	12.0	13.5	22.5	18.5	20.5	25.5	19.5	22.5	21.0	18.0	19.5
9	17.0	14.0	15.5	23.0	18.0	20.0	26.0	20.0	23.0	19.5	16.0	18.5
10	17.5	15.0	16.5	23.5	18.5	21.0	26.0	20.5	23.5	19.0	14.5	16.5
11	18.0	16.0	17.0	25.5	20.0	22.5	25.5	21.0	23.0	20.0	14.5	17.5
12	17.5	14.5	16.5	26.5	21.0	23.5	25.0	19.0	22.0	19.0	15.0	17.0
13	19.0	16.0	17.5	26.5	21.0	23.5	24.5	19.0	22.0	18.0	15.5	16.5
14	18.5	16.0	17.0	26.5	21.0	23.5	25.0	19.0	22.0	17.5	14.5	15.5
15	18.0	15.0	16.5	25.0	20.0	22.5	25.5	20.0	22.5	16.5	13.0	15.0
16	18.0	15.0	17.0	22.5	19.0	21.0	24.5	20.0	22.0	15.0	12.5	13.5
17	18.5	16.0	17.5	23.0	18.0	20.5	24.0	19.0	21.5	14.5	12.5	13.5
18	19.0	16.5	17.5	23.5	17.5	20.5	24.5	19.0	21.5	15.0	11.5	13.0
19	18.5	16.0	17.0	24.5	18.0	21.5	25.0	20.5	23.0	14.5	11.5	12.5
20	19.5	16.0	17.5	26.0	19.5	22.5	24.5	21.0	23.0	14.5	10.0	12.5
21	21.0	17.5	19.0	26.0	20.5	23.0	25.0	20.0	22.5	15.5	11.5	13.5
22	22.5	18.5	20.5	24.0	20.0	22.0	24.5	20.0	22.0	15.5	11.5	13.5
23	23.0	20.0	21.0	21.0	19.5	20.0	24.0	19.0	21.5	16.0	12.0	14.0
24	23.0	20.0	21.5	22.0	18.0	20.0	23.0	19.0	21.0	15.5	12.5	13.5
25	23.0	19.0	21.0	21.5	18.0	19.5	23.5	18.5	21.0	14.0	11.0	12.5
26	23.0	20.0	21.0	21.0	17.5	19.0	24.0	19.0	21.5	14.0	10.0	12.0
27	22.5	20.0	21.0	23.0	18.5	20.5	23.5	19.5	21.5	13.5	10.5	12.0
28	20.0	18.5	19.5	23.0	19.0	21.0	23.5	19.5	21.0	13.5	10.5	12.0
29	20.0	17.5	18.5	23.5	18.5	21.0	23.0	19.0	21.0	15.0	11.0	13.0
30	20.5	17.5	19.0	25.0	19.0	22.0	23.0	18.0	20.5	16.5	12.0	14.0
31	---	---	---	25.5	20.0	22.5	23.0	18.0	20.5	---	---	---
MONTH	23.0	12.0	17.5	26.5	17.5	21.0	26.5	18.0	22.0	24.0	10.0	16.0
YEAR	26.5	.0	11.5									

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	231	212	226	---	---	---	284	273	280	273	251	264
2	244	221	234	---	---	---	276	257	269	253	240	248
3	253	241	248	---	---	---	272	258	265	249	240	245
4	252	240	247	---	---	---	292	265	281	260	241	251
5	261	248	252	---	---	---	305	281	292	275	246	263
6	270	256	265	---	---	---	287	262	274	254	225	238
7	267	246	255	---	---	---	271	251	264	254	232	247
8	249	234	241	---	---	---	261	240	251	264	246	256
9	228	217	226	---	---	---	257	242	250	274	255	263
10	238	218	231	---	---	---	256	240	249	270	253	262
11	243	234	238	---	---	---	255	238	249	273	248	262
12	275	233	258	---	---	---	258	233	247	256	248	252
13	285	273	280	---	---	---	258	225	243	254	243	250
14	290	252	280	---	---	---	249	235	243	255	240	246
15	244	230	239	---	---	---	253	239	246	258	242	251
16	---	---	---	---	---	---	246	239	242	252	237	243
17	---	---	---	---	---	---	257	238	245	248	189	219
18	---	---	---	---	---	---	250	234	243	201	188	193
19	---	---	---	---	---	---	243	234	239	223	202	214
20	---	---	---	---	---	---	247	227	240	224	216	221
21	---	---	---	---	---	---	248	234	241	218	202	212
22	---	---	---	265	256	261	247	236	241	210	195	204
23	---	---	---	264	255	260	243	235	240	208	200	204
24	---	---	---	267	260	263	245	237	241	206	200	202
25	---	---	---	277	261	268	243	238	240	216	196	207
26	---	---	---	299	267	284	242	232	238	216	202	211
27	---	---	---	291	266	281	247	232	240	218	205	212
28	---	---	---	286	269	279	246	240	244	215	203	210
29	---	---	---	287	261	274	249	237	245	213	205	210
30	---	---	---	281	257	269	272	238	250	215	203	209
31	---	---	---	---	---	---	279	228	252	210	199	206
MONTH	290	212	248	299	255	271	305	225	251	275	188	231
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	200	193	198	---	---	---	99	84	91	194	174	185
2	202	196	199	---	---	---	102	94	99	196	168	178
3	233	193	213	---	---	---	108	99	101	191	175	182
4	229	207	218	---	---	---	116	101	104	174	156	163
5	217	202	207	---	---	---	128	105	111	157	148	151
6	215	200	208	---	---	---	134	108	115	147	139	143
7	207	194	202	---	---	---	136	108	117	145	137	140
8	213	193	203	---	---	---	141	118	124	145	135	139
9	196	183	191	---	---	---	143	117	122	170	142	157
10	190	179	185	---	---	---	157	139	153	162	152	157
11	190	173	182	---	---	---	154	148	151	150	131	137
12	184	171	177	---	---	---	165	158	161	151	128	139
13	175	151	168	---	---	---	168	161	165	150	124	133
14	176	157	166	---	---	---	172	168	170	131	120	123
15	154	125	138	---	---	---	171	167	169	126	122	124
16	185	143	159	---	---	---	167	165	166	128	123	125
17	180	62	112	---	---	---	164	156	158	129	125	127
18	133	69	98	---	---	---	159	157	158	133	128	131
19	---	---	---	---	---	---	164	156	160	139	132	135
20	---	---	---	---	---	---	171	163	167	147	140	143
21	---	---	---	---	---	---	174	168	171	170	147	157
22	---	---	---	---	---	---	176	169	171	209	168	191
23	---	---	---	---	---	---	175	169	171	172	155	162
24	---	---	---	---	---	---	168	165	167	200	153	171
25	---	---	---	---	---	---	176	163	167	191	151	165
26	---	---	---	118	102	111	182	163	173	227	152	197
27	---	---	---	125	95	108	179	167	171	202	145	167
28	---	---	---	122	91	103	169	162	165	184	134	160
29	---	---	---	114	88	98	203	166	185	130	123	126
30	---	---	---	109	86	90	218	185	197	206	129	147
31	---	---	---	90	85	87	---	---	---	371	214	309
MONTH	233	62	179	125	85	100	218	84	150	371	120	157

[illegible]

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 poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

AVERAGE DISCHARGE.--20 years, 202 ft³/s, 186,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft³/s, June 10, 1970; no flow at times in some years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	422	385	.00	494	11	129	196	196	162	196	148
2	344	407	297	.00	468	7.6	126	194	191	158	182	184
3	330	399	33	.00	524	5.3	114	189	200	202	165	183
4	316	390	28	.00	470	4.0	110	179	202	201	113	190
5	300	404	138	.00	457	3.6	112	163	127	179	114	190
6	283	376	179	.00	468	3.2	99	162	135	191	157	180
7	371	368	177	.00	459	5.5	98	157	186	193	172	183
8	416	371	180	.00	446	34	102	152	201	209	168	185
9	449	391	176	.00	474	.54	99	142	229	223	166	188
10	438	412	166	.00	475	16	84	136	209	234	163	199
11	416	368	163	.00	480	111	97	143	196	221	167	229
12	305	353	130	.00	484	27	120	145	211	228	166	239
13	237	357	110	.00	601	24	123	143	207	226	168	235
14	245	352	90	.00	718	26	90	145	189	215	176	243
15	344	349	69	.00	484	9.8	91	158	176	228	183	259
16	379	350	47	.00	415	5.0	126	158	186	197	178	267
17	397	347	27	.00	349	1.3	138	144	264	197	180	255
18	412	344	12	.00	65	.00	104	125	237	240	179	256
19	421	344	1.6	.00	125	32	94	129	191	240	173	244
20	414	353	.00	6.4	203	129	110	124	177	205	179	230
21	417	351	.00	205	281	123	130	125	161	200	190	216
22	434	351	.00	441	70	100	124	134	221	186	173	213
23	425	352	.00	529	28	99	131	131	215	179	161	212
24	423	358	.00	555	21	90	155	133	218	188	161	214
25	434	356	.00	572	e18	71	157	156	223	187	173	224
26	428	355	.00	534	e16	64	166	170	220	183	180	223
27	416	358	.00	524	15	93	170	169	217	166	184	222
28	413	400	.00	509	13	124	177	173	227	161	187	223
29	408	408	.00	478	---	112	189	193	224	144	186	213
30	413	407	.00	469	---	116	188	198	209	196	165	182
31	417	---	.00	472	---	120	---	197	---	206	146	---
TOTAL	11777	11153	2408.60	5294.40	9121	1567.84	3753	4863	6045	6145	5251	6429
MEAN	380	372	77.7	171	326	50.6	125	157	201	198	169	214
MAX	449	422	385	572	718	129	189	198	264	240	196	267
MIN	237	344	.00	.00	13	.00	84	124	127	144	113	148
AC-FT	23360	22120	4780	10500	18090	3110	7440	9650	11990	12190	10420	12750

CAL YR 1985 TOTAL 125649.59 MEAN 344 MAX 657 MIN .00 AC-FT 249200
WTR YR 1986 TOTAL 73807.80 MEAN 202 MAX 718 MIN .00 AC-FT 146400

e Estimated.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s, Feb. 3, 1967; no flow at times.

CAL YR 1985	TOTAL 99556.87	MEAN 273	MAX 580	MIN .26	AC-FT 197500
WTR YR 1986	TOTAL 44398.88	MEAN 122	MAX 637	MIN .00	AC-FT 88070

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 mi².

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for period of high flow, Feb. 15 to May 30, which are poor. 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.--67 years (1918-57, 1958-86), 398 ft³/s, 288,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s, Feb. 1, 1963, gage height, 14.26 ft, from rating curve extended above 1,500 ft³/s on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,900 ft³/s, Feb. 19, gage height, 13.56 ft; minimum daily, 14 ft³/s, Feb. 7.

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	49	53	50	527	18	4730	3690	2460	1710	567	109	111
2	48	53	290	544	18	4470	3070	2450	1670	342	113	115
3	46	53	787	524	20	4400	2800	2440	1700	309	108	115
4	46	52	479	480	19	4300	2730	2430	1800	295	104	118
5	45	52	357	688	15	4010	2710	2360	1980	278	96	108
6	44	51	401	797	15	3930	2640	2300	1960	256	132	93
7	47	51	413	582	14	4190	2760	2240	1720	239	96	93
8	47	49	445	489	15	7830	2640	2190	1370	173	90	92
9	70	51	439	460	18	6030	2490	2150	1150	177	101	92
10	50	105	438	449	15	4080	2190	2140	1060	146	109	105
11	48	143	429	457	18	4230	2220	2150	1050	134	101	93
12	44	133	477	467	17	4550	2410	2170	1260	127	82	86
13	43	137	509	472	137	5060	2420	2130	1440	128	102	89
14	44	111	473	472	259	4750	2400	2060	1430	123	110	89
15	46	95	463	451	1960	4250	2420	2060	1400	96	119	106
16	46	143	455	471	2340	4110	2450	2050	1020	146	104	143
17	47	162	450	961	7310	3940	2550	2020	815	138	106	138
18	48	169	478	879	13300	3630	2530	1990	648	75	101	139
19	48	118	488	537	15000	3360	2440	2020	529	108	97	115
20	46	113	461	492	9200	3290	2410	2010	486	131	83	115
21	45	112	458	372	6840	3230	2450	1930	430	120	95	117
22	53	114	457	225	6280	3190	2510	1860	356	149	116	113
23	53	113	456	131	5750	3160	2520	1820	369	362	117	107
24	62	133	451	62	5400	3150	2450	1800	361	327	125	109
25	62	195	458	22	5460	3140	2410	1810	375	351	125	147
26	53	189	457	21	4850	3130	2430	1880	495	406	121	150
27	53	112	456	20	4650	3170	2410	1840	511	317	118	176
28	52	54	462	20	4590	3320	2450	1750	654	270	128	175
29	52	73	465	19	---	3520	2500	1720	724	205	117	148
30	53	100	545	18	---	3690	2470	1750	762	128	108	206
31	53	---	568	17	---	3840	---	1720	---	122	101	---
TOTAL	1543	3089	14015	12126	93528	125680	76570	63700	31235	6745	3334	3603
MEAN	49.8	103	452	391	3340	4054	2552	2055	1041	218	108	120
MAX	70	195	787	961	15000	7830	3690	2460	1980	567	132	206
MIN	43	49	50	17	14	3130	2190	1720	356	75	82	86
AC-FT	3060	6130	27800	24050	185500	249300	151900	126300	61950	13380	6610	7150

CAL YR 1985 TOTAL 100152 MEAN 274 MAX 1130 MIN 22 AC-FT 198700
WTR YR 1986 TOTAL 435168 MEAN 1192 MAX 15000 MIN 14 AC-FT 863200

PYRAMID AND WINNEMUCCA LAKES BASIN

10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°38'19", long 119°16'09", in SW1/4SW1/4 sec.34, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050102, in Pyramid Lake Indian Reservation, on right bank 0.5 mi downstream from U.S. Highway 40 bridge, 0.2 mi northeast of Wadsworth, and at mi 23.11 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,728 mi².

PERIOD OF RECORD.--May 1965 to Sept. 30, 1986.

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

GAGE.--Water-stage recorder. Datum of gage is 4,037.90 ft above National Vertical Datum of 1929, supplementary adjustment of 1956.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 above and below station, and by Derby Dam which diverts water out of the basin to Lahontan Reservoir.

AVERAGE DISCHARGE.--21 years, 733 ft³/s, 531,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s, Feb. 19, 1986, gage height, 15.11 ft, from rating curve extended above 13,200 ft³/s; minimum daily, 3.1 ft³/s, Sept. 4, 1978, Nov. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s, Feb. 19, gage height, 15.11 ft, from rating curve extended above 13,200 ft³/s; minimum daily, 20 ft³/s, Feb. 9.

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	40	51	121	545	25	e5300	5120	2810	2230	648	80	248
2	35	55	321	565	26	e5250	4140	2790	2210	478	75	168
3	33	55	e680	555	25	e5190	3630	2740	2360	430	127	166
4	27	55	e530	499	24	e4950	3510	2780	2640	423	231	177
5	26	49	331	739	23	e4760	3480	2720	3210	416	176	179
6	30	49	385	894	23	e4700	3430	2640	3070	386	184	152
7	34	51	392	592	22	4820	3660	2550	2410	378	136	139
8	41	48	436	463	22	8320	3410	2510	1700	330	125	145
9	67	46	433	419	e20	7640	3140	2480	1270	279	125	148
10	47	84	434	411	e20	5030	2560	2530	1140	253	148	133
11	41	172	403	409	e20	5100	2530	2560	1090	229	145	67
12	37	135	465	438	e20	5720	2800	2590	1250	145	117	63
13	35	147	485	434	69	6440	2880	2540	1470	126	136	58
14	33	122	470	465	356	6170	2910	2400	1480	151	143	61
15	37	81	445	440	2190	5400	2930	2440	1450	107	169	58
16	38	130	440	484	2610	5310	2870	2440	1120	160	141	79
17	37	173	426	954	5910	5020	3140	2420	874	160	116	114
18	38	197	464	1280	13100	4590	3310	2530	736	73	114	129
19	39	137	483	887	14700	4090	3130	2660	590	85	118	110
20	40	93	452	840	9760	3890	2970	2580	545	184	103	84
21	39	106	445	589	6920	3850	2990	2410	493	169	115	108
22	37	103	447	300	6710	3880	3100	2310	392	195	148	125
23	47	101	443	151	6340	3880	3060	2280	402	282	161	120
24	47	121	439	115	6120	3900	2890	2240	393	296	172	119
25	72	211	441	33	6220	3930	2800	2320	395	326	173	159
26	50	244	435	30	5540	3960	2810	2500	469	390	176	191
27	51	203	437	27	5370	4010	2760	2380	522	326	189	218
28	49	e110	446	27	5270	4250	2820	2150	621	281	198	247
29	49	e91	455	26	---	4680	2900	2220	691	234	197	187
30	53	152	540	25	---	5020	2830	2290	728	104	184	236
31	53	---	628	25	---	5300	---	2180	---	91	225	---
TOTAL	1302	3372	13752	13661	97455	154350	94510	76990	37951	8135	4647	4188
MEAN	42.0	112	444	441	3481	4979	3150	2484	1265	262	150	140
MAX	72	244	680	1280	14700	8320	5120	2810	3210	648	231	248
MIN	26	46	121	25	20	3850	2530	2150	392	73	75	58
AC-FT	2580	6690	27280	27100	193300	306200	187500	152700	75280	16140	9220	8310

CAL YR 1985 TOTAL 106626 MEAN 292 MAX 1200 MIN 21 AC-FT 211500
WTR YR 1986 TOTAL 510313 MEAN 1398 MAX 14700 MIN 20 AC-FT 1012000

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to Sept. 1957 at site 1.0 mi downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of 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.--Estimated daily discharges, Feb. 18-20. 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.--29 years, 595 ft³/s, 431,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,300 ft³/s, Feb. 19, 1986, from rating curve extended above 21,000 ft³/s, gage height, 13.01 ft; minimum daily, 8.1 ft³/s, July 7, 1960.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a state of 14.1 ft, from floodmarks, discharge, 14,000 ft³/s, by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,300 ft³/s, Feb. 19, gage height, 13.01 ft, based on extension of rating above 12,100 ft³/s; minimum daily, 43 ft³/s, Feb. 10-12.

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	71	77	117	562	54	5310	4670	2630	2260	662	135	226
2	66	79	94	586	53	5210	3840	2630	2230	472	124	195
3	64	80	737	570	52	5130	3400	2590	2390	407	151	174
4	61	81	601	536	51	5040	3280	2630	2510	396	210	177
5	60	78	432	621	49	4790	3230	2570	2970	385	217	185
6	62	78	440	866	49	4680	3160	2540	2930	367	195	165
7	66	79	447	667	47	4750	3270	2480	2440	358	181	162
8	69	79	480	554	45	6370	3200	2430	1780	321	166	159
9	74	78	483	502	44	7640	2950	2410	1290	224	158	156
10	89	83	487	488	43	5240	2480	2440	1160	187	173	159
11	75	181	467	477	43	5080	2370	2480	1090	178	174	128
12	72	162	504	502	43	5480	2540	2510	1180	124	156	105
13	69	165	540	493	45	5950	2690	2480	1420	121	150	109
14	69	162	537	513	245	5880	2720	2340	1440	126	161	115
15	68	132	519	482	1220	5340	2730	2380	1420	112	174	111
16	70	145	511	495	2340	5160	2710	2370	1190	114	164	131
17	70	182	500	711	3790	4970	2820	2330	859	143	146	153
18	70	202	513	1200	e11900	4560	2940	2440	745	119	146	152
19	71	183	526	828	e14500	4070	2840	2560	572	89	147	157
20	72	145	512	743	e10600	3880	2720	2560	520	130	149	136
21	71	148	501	608	6750	3780	2680	2400	483	139	155	150
22	69	148	502	358	6540	3780	2800	2320	370	111	172	149
23	72	149	503	196	6190	3730	2800	2280	362	313	182	145
24	70	151	500	166	5940	3700	2660	2240	359	349	188	144
25	83	195	505	89	5930	3680	2560	2290	356	364	187	155
26	80	235	501	70	5530	3670	2560	2460	378	391	192	183
27	77	208	502	65	5350	3690	2530	2400	485	371	194	184
28	77	126	506	63	5260	3810	2560	2200	550	313	180	216
29	75	99	510	60	---	4120	2660	2220	655	266	183	190
30	77	131	540	58	---	4440	2650	2300	684	190	178	183
31	78	---	631	56	---	4740	---	2230	---	150	203	---
TOTAL	2217	4041	15148	14185	92703	147670	87020	75140	37078	7992	5291	4754
MEAN	71.5	135	489	458	3311	4764	2901	2424	1236	258	171	158
MAX	89	235	737	1200	14500	7640	4670	2630	2970	662	217	226
MIN	60	77	94	56	43	3670	2370	2200	356	89	124	105
AC-FT	4400	8020	30050	28140	183900	292900	172600	149000	73540	15850	10490	9430

CAL YR 1985 TOTAL 105242 MEAN 288 MAX 1110 MIN 24 AC-FT 208700
WTR YR 1986 TOTAL 493239 MEAN 1351 MAX 14500 MIN 43 AC-FT 978300

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to November 1961, May 1962 to current year.

CHEMICAL ANALYSES: January 1969 to December 1971 and January 1973 to September 1981, monthly; October 1981 to September 1982, every two months; October 1982 to current year, four times per year.

SPECIFIC CONDUCTANCES: January to December 1969, monthly or more frequently; January 1970 to April 1980, monthly; May 1980 to 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.

REMARKS.--Supplemental water-quality data were collected during storm-related high flows in February.

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 1985 TO SEPTEMBER 1986

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 CaCO ₃)
NOV 22...	1100	142	410	8.20	5.0	2.0	1.6	12.1	102	K4	K36	120
MAR 12...	1200	5580	118	7.90	10.0	6.5	66	10.6	100	--	--	37
MAY 14...	1105	2330	135	8.10	21.0	12.0	3.5	9.5	102	K90	200	41
AUG 07...	1130	178	384	8.70	33.5	21.5	2.5	10.8	142	K14	320	100

K: NON-IDEAL COLONY COUNT.

PYRAMID AND WINNEMUCCA LAKES BASIN

201

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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 AS HCO3)	CAR- BONATE IT-FLD AS CO3)	ALKA- LINITY, CARBON- ATE IT-FLD AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 22...	29	11	41	2	4.3	--	--	--	41	45	0.20	18
MAR 12...	9.6	3.2	8.9	0.7	2.0	52	--	43	8.5	6.5	<0.10	17
MAY 14...	11	3.4	9.2	0.6	2.0	55	--	45	8.3	6.2	<0.10	16
AUG 07...	26	9.4	34	2	4.9	107	6	93	38	33	0.20	18
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 22...	257	250	0.35	0.650	0.020	0.670	0.110	0.110	0.39	0.50	0.080	0.070
MAR 12...	77	82	0.10	--	<0.010	0.140	0.120	0.120	0.58	0.70	0.230	0.030
MAY 14...	94	83	0.13	0.180	0.020	0.200	0.040	0.030	0.36	0.40	0.050	0.040
AUG 07...	230	220	0.31	0.490	0.060	0.550	0.010	<0.010	0.59	0.60	0.050	0.020
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 22...	0.010	<10	11	49	<0.5	<1	2	<3	1	20	<1	66
MAR 12...	0.030	60	4	24	<0.5	<1	<1	4	2	56	1	14
MAY 14...	0.010	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	0.010	20	12	54	<0.5	<10	<1	<3	7	20	<5	38
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 22...	30	<0.1	<10	1	<1	<1	270	<6	19	6	2.2	--
MAR 12...	11	<0.1	<10	<1	1	<1	100	<6	7	500	7820	52
MAY 14...	--	--	--	--	--	--	--	--	--	94	558	--
AUG 07...	5	<0.1	<10	4	<1	<1	250	<6	9	11	5.1	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

SUPPLEMENTAL WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
FEB 18...	1400	12400	145	1000	37	9.3	3.3	14	1	4.2	12	9.1	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
FEB 18...	0.10	14	107	94	0.15	0.430	0.070	0.500	0.320	1.3	1.6	2.1	
DATE		PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	
FEB 18...	0.640	0.310	92	140000	1600	<10	<1	3	50	270	140000		
DATE		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
FEB 18...	62	110	3300	1.8	<1	52	2	710	470	5710	70		

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 mi².

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 fair except for estimated discharges, which are poor. One diversion for about 1,500 acres above station.

AVERAGE DISCHARGE.--37 years (1949-84, 1986), 34.8 ft³/s, 25,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s, about Feb. 1, 1963, gage height, 8.64 ft; in gage well, from rating curve extended above 250 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 8.70 ft about Mar. 17, 1983; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0400	1,560	7.66	Mar. 21	0300	194	4.16
Mar. 8	1400	*1,660	*7.84	Apr. 12	1100	269	4.50

Minimum daily, 1.8 ft³/s, Aug. 13.

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	e7.0	8.9	e9.8	e12	37	458	162	91	76	11	4.6	4.8
2	e7.0	8.9	e10	e11	37	390	159	83	73	10	3.8	4.9
3	7.3	8.9	e9.8	e12	37	360	139	81	81	9.1	3.0	4.5
4	6.9	9.4	e9.7	e12	31	312	131	93	73	9.0	3.0	4.3
5	6.7	9.3	e9.5	e11	25	300	123	89	65	8.4	2.9	4.4
6	6.7	9.3	e9.1	e12	16	301	120	96	58	8.7	2.6	4.5
7	7.5	9.3	e8.9	e13	12	319	129	90	52	8.9	2.4	4.2
8	7.9	9.3	e8.7	e14	12	1060	130	79	52	8.5	2.1	4.3
9	8.5	9.3	e8.6	e14	16	499	250	74	44	8.1	2.3	4.6
10	8.2	9.5	e8.6	e15	24	369	184	83	39	8.1	2.5	5.8
11	8.5	9.2	e8.7	e15	24	360	164	79	37	8.6	2.5	5.8
12	8.9	e8.2	e8.9	e15	18	318	226	70	35	9.1	2.1	5.1
13	8.7	e8.1	e9.5	16	25	254	206	65	36	8.9	1.8	4.6
14	8.1	e8.0	e10	16	31	227	188	61	34	8.4	2.2	4.3
15	8.1	e8.0	e11	18	114	203	175	58	31	7.7	2.4	4.6
16	8.1	e8.3	e12	21	165	186	158	57	27	5.8	2.3	4.9
17	8.1	e8.6	e13	42	472	168	149	55	25	5.6	2.0	5.9
18	8.1	e9.2	e14	39	1220	147	137	56	24	5.6	1.9	6.5
19	8.1	e9.5	e13	62	e788	143	129	58	24	5.6	2.0	7.1
20	8.3	e9.4	e13	74	e580	153	119	64	24	5.2	2.2	7.7
21	8.5	e8.7	e12	39	e495	172	117	74	22	4.2	2.9	7.6
22	8.8	e8.5	e11	42	e490	173	119	78	21	3.6	6.0	7.1
23	10	e8.4	e9.4	22	e600	172	121	70	19	3.1	6.3	6.7
24	10	e8.6	e8.1	17	e800	176	120	64	15	2.9	5.8	6.6
25	9.9	e8.8	e7.8	16	e810	171	123	60	15	4.0	5.6	8.2
26	9.6	e8.7	e7.9	15	e623	153	125	59	14	4.4	5.2	8.3
27	9.3	e8.6	e8.2	15	499	150	120	62	14	5.0	4.9	9.6
28	9.2	e8.7	e9.2	17	463	169	112	66	14	6.1	4.7	8.8
29	8.9	e9.0	e10	18	---	180	103	73	14	5.5	5.1	7.5
30	8.9	e9.4	e11	20	---	179	98	75	12	5.3	5.1	7.2
31	8.9	---	e12	26	---	175	---	77	---	5.0	4.8	---
TOTAL	258.7	266.0	312.4	691	8464	8397	4336	2240	1070	209.4	107.0	180.4
MEAN	8.35	8.87	10.1	22.3	302	271	145	72.3	35.7	6.75	3.45	6.01
MAX	10	9.5	14	74	1220	1060	250	96	81	11	6.3	9.6
MIN	6.7	8.0	7.8	11	12	143	98	55	12	2.9	1.8	4.2
AC-FT	513	528	620	1370	16790	16660	8600	4440	2120	415	212	358

WTR YR 1986 TOTAL 26531.7 MEAN 72.7 MAX 1220 MIN 1.8 AC-FT 52630

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 mi².

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 poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--16 years (1962-68, 1978-86), 7.45 ft³/s, 5,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft³/s, Feb. 1, 1963, gage height, 4.00 ft, from rating curve extended above 24 ft³/s on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75 ft³/s, Mar. 8, gage height, 2.49 ft, from rating curve extended above 33 ft³/s; minimum daily, 1.2 ft³/s, Sept. 6.

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	e3.4	e4.5	e4.2	3.2	6.6	39	28	13	29	3.8	1.9	1.5
2	e3.4	e4.5	e4.2	2.9	6.7	37	26	13	29	3.5	1.8	1.4
3	e3.4	e4.7	e4.1	3.0	6.6	37	24	14	26	3.4	1.8	1.4
4	e3.4	e4.7	3.8	2.8	6.4	36	22	14	23	3.5	1.9	1.4
5	e3.5	e4.7	3.8	3.0	6.4	35	20	13	21	3.5	2.0	1.3
6	e3.7	e4.7	3.8	2.8	e6.5	35	20	13	19	3.5	1.9	1.2
7	e4.0	e4.7	4.0	e2.8	e6.6	34	20	12	16	3.3	1.8	1.3
8	e4.4	e4.7	4.0	e2.8	e6.7	51	22	11	15	3.1	1.8	1.4
9	e4.2	e4.7	e3.9	2.8	e6.8	44	26	10	14	3.1	1.8	1.8
10	e4.0	e4.7	e3.9	2.9	e7.0	45	25	11	13	3.0	1.7	1.8
11	e4.1	e3.7	e3.8	2.9	e7.2	41	25	10	12	2.9	1.6	1.7
12	e4.1	e3.3	3.8	3.0	7.2	38	27	9.5	12	2.7	1.6	1.7
13	e4.1	e4.3	3.5	3.1	7.3	35	26	9.7	12	2.6	1.7	1.8
14	e4.1	e3.2	3.4	3.1	11	32	24	10	11	2.6	1.7	1.7
15	e4.1	e3.6	3.4	3.4	13	31	23	11	11	2.5	1.6	1.7
16	e4.2	e4.2	3.4	3.8	12	29	22	11	9.7	2.6	1.5	1.6
17	e4.3	e4.0	3.4	6.0	35	26	21	12	9.1	2.7	1.5	1.8
18	e4.3	e3.9	3.3	6.0	26	24	20	14	8.3	2.6	1.4	1.9
19	e4.3	e3.5	3.2	5.9	32	22	18	15	7.4	2.5	1.4	2.8
20	e4.3	e3.8	3.2	5.5	27	21	18	18	6.9	2.4	1.5	2.5
21	e4.4	e4.4	3.2	5.5	22	22	17	18	6.5	2.2	1.7	2.2
22	e4.5	e4.8	3.1	4.8	19	23	19	16	6.1	2.2	1.6	2.0
23	e4.5	e4.6	3.1	4.8	22	24	20	15	5.9	2.2	1.5	1.8
24	e4.5	e4.6	3.2	5.1	24	25	19	15	5.5	2.4	1.4	2.4
25	e4.5	e4.8	3.2	5.5	28	25	19	17	5.4	2.5	1.4	2.4
26	e4.5	e4.6	3.1	5.7	33	25	17	21	5.0	2.6	1.3	2.9
27	e4.5	4.4	3.0	5.2	39	26	16	25	4.7	2.6	1.3	2.8
28	e4.5	4.4	3.2	5.1	40	28	15	27	4.3	2.2	1.5	2.6
29	e4.5	4.3	3.3	5.5	---	30	14	29	4.3	2.3	1.7	2.6
30	e4.5	e4.3	3.0	5.9	---	30	13	30	4.1	2.1	1.4	3.1
31	e4.5	---	3.2	6.7	---	29	---	31	---	2.0	1.5	---
TOTAL	128.7	129.3	108.7	131.5	471.0	979	626	488.2	356.2	85.1	50.2	58.5
MEAN	4.15	4.31	3.51	4.24	16.8	31.6	20.9	15.7	11.9	2.75	1.62	1.95
MAX	4.5	4.8	4.2	6.7	40	51	28	31	29	3.8	2.0	3.1
MIN	3.4	3.2	3.0	2.8	6.4	21	13	9.5	4.1	2.0	1.3	1.2
AC-FT	255	256	216	261	934	1940	1240	968	707	169	100	116

CAL YR 1985 TOTAL 2731.9 MEAN 7.48 MAX 36 MIN 2.1 AC-FT 5420
WTR YR 1986 TOTAL 3612.4 MEAN 9.90 MAX 51 MIN 1.2 AC-FT 7170

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 mi², 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 except for periods of estimated daily record, which are poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--13 years (1974-86), 1.12 ft³/s, 811 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,730 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 780 ft³/s, Feb. 17, gage height, 4.64 ft; no flow Oct. 1 to Nov. 25, Sept. 13-15, 27, 28.

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	.01	.04	3.0	e30	3.2	.94	3.0	e.20	.01	.04
2	.00	.00	.02	.08	2.2	e26	3.0	.82	1.3	e.19	.02	.05
3	.00	.00	.02	.06	1.6	e22	3.4	1.5	.60	e.18	.02	.06
4	.00	.00	.02	.06	1.1	e19	3.1	1.4	e.58	e.17	.03	.06
5	.00	.00	.02	.06	1.1	e16	2.7	1.7	e.56	e.16	.02	.05
6	.00	.00	.03	.36	.47	e14	2.3	1.7	e.55	e.15	.03	.04
7	.00	.00	.05	.19	.32	e12	2.9	1.6	e.53	e.14	.04	.04
8	.00	.00	.08	.16	.31	e30	3.9	1.5	e.51	e.13	.04	.04
9	.00	.00	.05	.15	.27	e29	3.2	1.1	e.49	e.12	.04	.05
10	.00	.00	.03	.14	.29	e10	3.8	1.8	e.47	e.11	.03	.06
11	.00	.00	.02	.14	.30	e7.9	3.7	1.6	e.46	e.10	.03	.08
12	.00	.00	.01	.20	.32	e31	3.9	1.1	e.43	e.09	.05	.08
13	.00	.00	.01	.27	1.6	e6.0	3.5	.76	e.38	e.08	.06	.00
14	.00	.00	.01	.32	5.5	e4.5	3.8	.62	e.37	e.07	.05	.00
15	.00	.00	.02	.35	14	e4.0	4.1	.47	e.36	e.06	.05	.00
16	.00	.00	.02	1.2	13	e3.7	4.2	e.37	e.35	e.05	.04	.01
17	.00	.00	.02	10	279	e3.3	4.1	e.37	e.34	e.05	.04	.01
18	.00	.00	.02	9.2	63	e3.0	3.3	e.36	e.33	.06	.04	.01
19	.00	.00	.02	6.7	77	e3.0	2.7	e.35	e.32	.06	.04	.01
20	.00	.00	.03	4.3	53	e3.0	2.1	e.34	e.31	.05	.04	.01
21	.00	.00	.03	2.1	e52	e2.9	1.8	e.33	e.30	.04	.04	.01
22	.00	.00	.03	1.3	e50	e2.9	1.8	e.32	e.29	.04	.04	.01
23	.00	.00	.03	.73	e50	e2.9	1.8	e.31	e.28	.04	.04	.01
24	.00	.00	.02	.55	e46	e2.9	1.6	e.30	e.27	.03	.03	.01
25	.00	.00	.02	.46	e43	e2.8	1.5	e.30	e.26	.03	.03	.01
26	.00	.01	.02	.48	e39	e2.8	1.4	e.30	e.25	.02	.03	.01
27	.00	.01	.01	.50	e36	3.2	1.2	e.30	e.24	.02	.03	.00
28	.00	.01	.01	.51	e33	2.9	1.3	e.30	e.23	.02	.03	.00
29	.00	.01	.02	.51	---	2.6	1.2	e.30	e.22	.02	.03	.01
30	.00	.01	.03	.77	---	2.3	1.2	e.30	e.21	.02	.04	.01
31	.00	---	.03	4.2	---	2.5	---	e4.2	---	.01	.04	---
TOTAL	.00	.05	.76	46.09	866.38	308.1	81.7	27.66	14.79	2.51	1.10	.78
MEAN	.00	.0	.02	1.49	30.9	9.94	2.72	.89	.49	.08	.04	.03
MAX	.00	.01	.08	10	279	31	4.2	4.2	3.0	.20	.06	.08
MIN	.00	.00	.01	.04	.27	2.3	1.2	.30	.21	.01	.01	.00
AC-FT	.0	.1	1.5	91	1720	611	162	55	29	5.0	2.2	1.5

CAL YR 1985 TOTAL 377.59 MEAN 1.03 MAX 22 MIN .00 AC-FT 749
WTR YR 1986 TOTAL 1349.89 MEAN 3.70 MAX 279 MIN .00 AC-FT 2680

e Estimated.

SALMON FALLS CREEK BASIN

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE1/4SW1/4 sec. 23, T. 47 N., R. 64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 mi north of San Jacinto.

DRAINAGE AREA.--1,450 mi², approximately. Mean elevation, 6,350 ft.

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as "Salmon Falls River."

REVISED RECORDS.--WSP 1934: 1943(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,120 ft, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 12-15, 21. Records good. Diversions above station for irrigation of about 18,200 acres (1966 determination). Salmon Dam of Salmon River Canal Co. is 15 mi downstream (see sta. 13106500).

AVERAGE DISCHARGE.--74 years (1911-16, 1919-86), 147 ft³/s, 106,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft³/s, May 16, 1984, gage height, 14.27 ft; minimum, 2.6 ft³/s, Sept. 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,440 ft³/s, Feb. 19, gage height, 9.50 ft; minimum daily, 21.0 ft³/s, Aug. 15-17.

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	55	64	72	62	100	649	632	393	600	73	37	32
2	55	63	77	64	105	648	637	394	588	67	40	34
3	55	63	78	65	108	682	603	401	542	61	37	34
4	55	63	77	61	102	674	583	447	503	59	36	33
5	55	63	75	67	96	651	549	521	556	57	35	30
6	56	62	72	73	88	647	534	524	523	57	34	29
7	58	62	73	65	81	649	538	504	482	58	33	29
8	61	65	78	60	81	664	571	504	535	54	33	31
9	60	66	76	63	69	802	621	478	469	51	32	36
10	60	65	68	67	78	797	585	448	403	52	31	48
11	59	64	46	66	83	707	555	453	363	54	31	49
12	60	58	44	63	80	636	540	431	339	50	29	44
13	60	54	54	64	82	583	542	411	327	47	23	43
14	59	58	65	62	88	519	530	408	300	44	22	46
15	60	62	62	63	110	474	510	401	277	42	21	48
16	60	66	62	71	354	447	487	398	262	41	21	48
17	59	68	61	82	404	444	468	377	241	40	21	48
18	58	67	63	92	901	398	444	361	209	39	22	48
19	57	51	63	93	1110	368	417	359	183	38	23	56
20	58	59	62	93	743	350	397	370	175	37	23	63
21	58	54	60	85	578	337	404	404	162	34	25	62
22	60	56	54	80	455	334	450	467	143	33	25	59
23	62	53	53	78	420	344	507	448	128	35	25	57
24	62	68	55	78	521	366	539	424	111	37	26	58
25	61	77	56	73	629	396	513	401	102	41	24	59
26	61	75	55	73	673	392	509	404	98	43	24	58
27	62	71	51	74	715	397	484	438	94	45	25	61
28	62	74	49	79	673	433	463	495	90	48	28	62
29	61	74	54	80	---	495	437	517	82	43	29	62
30	62	73	55	84	---	554	409	522	76	38	31	64
31	63	---	61	95	---	609	---	541	---	37	31	---
TOTAL	1834	1918	1931	2275	9527	16446	15458	13644	8963	1455	877	1431
MEAN	59.2	63.9	62.3	73.4	340	531	515	440	299	46.9	28.3	47.7
MAX	63	77	78	95	1110	802	637	541	600	73	40	64
MIN	55	51	44	60	69	334	397	359	76	33	21	29
AC-FT	3640	3800	3830	4510	18900	32620	30660	27060	17780	2890	1740	2840
CAL YR 1985	TOTAL	60310		MEAN	165	MAX	1130	MIN	18	AC-FT	119600	
WTR YR 1986	TOTAL	75759		MEAN	208	MAX	1110	MIN	21	AC-FT	150300	

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 mi². Area at crest-stage site, 380 mi².

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. 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 no gage-height record, Oct. 1-10, which is fair, and periods with ice effect, Nov. 13 to Jan. 14, and Feb. 6-8, and period of no gage-height record, Apr. 3-22, which are poor. Minor diversions for irrigation above station.

AVERAGE DISCHARGE.--25 years, 128 ft³/s, 92,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft³/s, May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft³/s, Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*) from rating curve extended above 670 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0700	861	6.38	May 4	0600	484	5.07
Mar. 8	2000	*1,200	*7.29	June 1	1800	522	5.22
Mar. 30	2200	642	5.66				

Minimum daily, 11 ft³/s, Aug. 18, 19.

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	e20	27	e26	e25	68	620	561	317	471	62	23	17
2	e20	28	e25	e27	69	688	540	346	422	57	21	17
3	e22	27	e25	e30	71	739	e525	407	405	54	20	16
4	e23	27	e26	e31	69	681	e530	471	384	49	19	15
5	e22	30	e26	e31	59	673	e550	424	375	49	18	14
6	e23	29	e27	e31	e56	674	e580	391	337	50	18	14
7	e23	29	e27	e29	e53	699	e580	363	325	48	17	14
8	e24	30	e25	e29	e51	983	e560	338	322	49	17	16
9	e25	30	e23	e30	48	892	e550	304	264	48	17	22
10	e24	27	e21	e30	70	685	e545	314	241	45	16	23
11	23	31	e20	e30	62	575	e540	296	223	43	15	20
12	24	22	e20	e31	60	493	e535	274	210	40	16	20
13	24	e23	e20	e32	70	417	e515	273	202	37	16	19
14	23	e24	e19	e34	67	399	e480	273	184	34	16	20
15	23	e25	e19	37	119	359	e465	271	176	33	13	25
16	23	e27	e19	48	142	342	e450	265	166	33	12	23
17	23	e30	e19	58	320	321	e440	266	155	35	12	22
18	23	e32	e19	68	760	286	e450	279	142	34	11	24
19	24	e31	e19	84	715	284	e470	317	136	32	11	25
20	24	e29	e19	82	542	264	e500	361	129	30	14	25
21	24	e29	e20	66	406	288	e540	398	120	27	17	26
22	27	e29	e20	62	382	296	e565	364	109	26	18	27
23	35	e30	e21	61	507	316	523	328	102	27	15	26
24	43	e26	e22	53	547	356	457	303	95	33	14	27
25	36	e24	e22	49	599	349	445	307	95	36	13	35
26	32	e25	e21	59	614	347	401	358	85	39	13	36
27	31	e27	e21	55	610	406	359	416	80	36	13	38
28	29	e28	e21	52	590	480	369	448	74	32	14	37
29	29	e26	e22	54	---	539	339	464	70	28	17	35
30	28	e26	e23	58	---	596	310	474	66	27	20	35
31	28	---	e23	63	---	607	---	465	---	24	18	---
TOTAL	802	828	680	1429	7726	15654	14674	10875	6165	1197	494	713
MEAN	25.9	27.6	21.9	46.1	276	505	489	351	205	38.6	15.9	23.8
MAX	43	32	27	84	760	983	580	474	471	62	23	38
MIN	20	22	19	25	48	264	310	265	66	24	11	14
AC-FT	1590	1640	1350	2830	15320	31050	29110	21570	12230	2370	980	1410

CAL YR 1985 TOTAL 36343 MEAN 99.6 MAX 835 MIN 8.1 AC-FT 72090
WTR YR 1986 TOTAL 61237 MEAN 168 MAX 983 MIN 11 AC-FT 121500

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 mi².

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, 73,760 acre-ft, Apr. 12, elevation, 6,205.70 ft; minimum recorded, 36,180 acre-ft, Oct. 21, elevation, 6,190.70.

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

6,190	34,820	6,200	57,390
6,192	38,780	6,202	62,780
6,194	43,010	6,204	68,510
6,196	47,520	6,206	74,590
6,198	52,310		

MONTHEND ELEVATIONS AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30.	6,191.03	36,820	--
Oct. 31.	6,190.83	36,430	390
Nov. 30.	6,191.23	37,220	+790
Dec. 31.	6,191.74	38,250	+1,030
CAL YR 1985.	--	--	-22,910
Jan. 31.	6,192.31	39,420	+1,170
Feb. 28.	6,197.14	50,210	+10,790
Mar. 31.	6,204.66	70,480	+20,270
Apr. 30.	6,204.97	71,410	+930
May 31.	6,204.53	70,090	-1,320
June 30.	6,202.09	63,030	-7,060
July 31.	6,197.97	52,230	-10,800
Aug. 31.	6,193.68	42,320	-9,910
Sep. 30.	6,191.96	38,700	-3,620
WTR YR 1985-86	--	--	+1,880

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 mi².

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft, Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft downstream at different datum, while new dam was being constructed 300 ft downstream from old dam.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by Wildhorse Reservoir, capacity, 71,660 acre-ft, 0.1 mi upstream beginning Mar. 18, 1938.

AVERAGE DISCHARGE.--58 years (1917-25, 1936-86), 46.6 ft³/s, 33,760 acre-ft/yr, unadjusted for storage or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft³/s, May 5, 1922, gage height, 10.11 ft, site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 357 ft³/s, Apr. 15, gage height, 2.42 ft; minimum daily, 2.4 ft³/s, Feb. 14.

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	16	2.7	2.8	2.7	2.7	2.7	90	132	120	163	165	127
2	16	2.7	2.7	e2.8	2.7	2.7	90	116	119	164	165	127
3	16	2.7	2.8	2.9	2.7	2.7	89	115	118	163	165	127
4	16	2.7	2.9	e2.9	2.7	2.7	91	114	117	164	165	128
5	15	2.7	2.9	2.8	e2.7	2.7	98	114	116	165	163	129
6	15	2.7	e2.9	2.8	e2.7	2.8	105	115	116	164	163	129
7	16	2.7	2.9	e2.9	e2.7	2.7	114	115	115	164	163	129
8	16	2.9	2.9	e2.9	e2.7	2.8	163	118	115	165	164	81
9	16	2.9	2.7	e2.9	e2.7	2.9	248	118	102	164	163	51
10	16	2.9	e2.7	e2.9	e2.7	2.9	284	119	95	164	161	51
11	16	2.9	e2.7	e2.9	e2.7	2.9	313	120	95	165	163	51
12	16	2.9	e2.7	e2.9	e2.6	2.9	312	118	95	165	164	51
13	16	2.9	e2.7	e2.7	2.5	e2.9	299	119	95	164	163	51
14	16	2.9	e2.7	e2.7	2.4	e2.9	290	118	95	164	163	51
15	16	2.9	e2.7	2.7	2.5	e2.9	320	118	94	165	162	51
16	16	2.9	e2.7	2.7	2.6	2.9	317	119	94	164	162	51
17	16	2.9	e2.7	2.9	2.7	2.9	286	120	104	165	161	51
18	16	3.1	e2.7	2.9	2.9	e30	258	121	116	167	161	51
19	16	3.0	e2.7	2.9	2.9	42	238	121	127	166	140	51
20	16	2.9	e2.7	2.9	2.9	42	222	122	139	165	127	51
21	16	2.9	e2.7	2.9	2.6	41	204	122	158	165	128	51
22	16	e2.9	e2.7	2.9	2.7	41	204	122	167	165	128	25
23	16	e2.9	e2.7	2.8	2.8	41	206	122	170	165	129	6.7
24	10	2.9	2.7	2.6	2.7	71	207	122	169	166	129	6.9
25	2.7	2.9	e2.7	e2.7	2.7	89	197	122	170	166	129	7.0
26	2.7	e2.9	e2.7	e2.7	2.7	89	199	122	168	166	128	7.0
27	2.7	2.9	e2.7	e2.7	2.7	88	198	122	168	164	129	7.0
28	2.7	2.9	e2.7	2.5	2.7	89	178	123	166	164	128	7.0
29	2.7	2.9	e2.7	2.7	---	89	159	122	166	165	128	7.0
30	2.7	2.9	2.7	2.7	---	89	161	122	163	166	128	7.0
31	2.7	---	2.7	2.7	---	89	---	120	---	166	128	---
TOTAL	394.9	85.9	84.9	86.6	75.3	977.9	6140	3713	3852	5108	4615	1720.6
MEAN	12.7	2.86	2.74	2.79	2.69	31.5	205	120	128	165	149	57.4
MAX	16	3.1	2.9	2.9	2.9	89	320	132	170	167	165	129
MIN	2.7	2.7	2.7	2.5	2.4	2.7	89	114	94	163	127	6.7
AC-FT	783	170	168	172	149	1940	12180	7360	7640	10130	9150	3410

CAL YR 1985 TOTAL 27948.6 MEAN 76.6 MAX 226 MIN 2.7 AC-FT 55440
WTR YR 1986 TOTAL 26854.1 MEAN 73.6 MAX 320 MIN 2.4 AC-FT 53270

e Estimated.

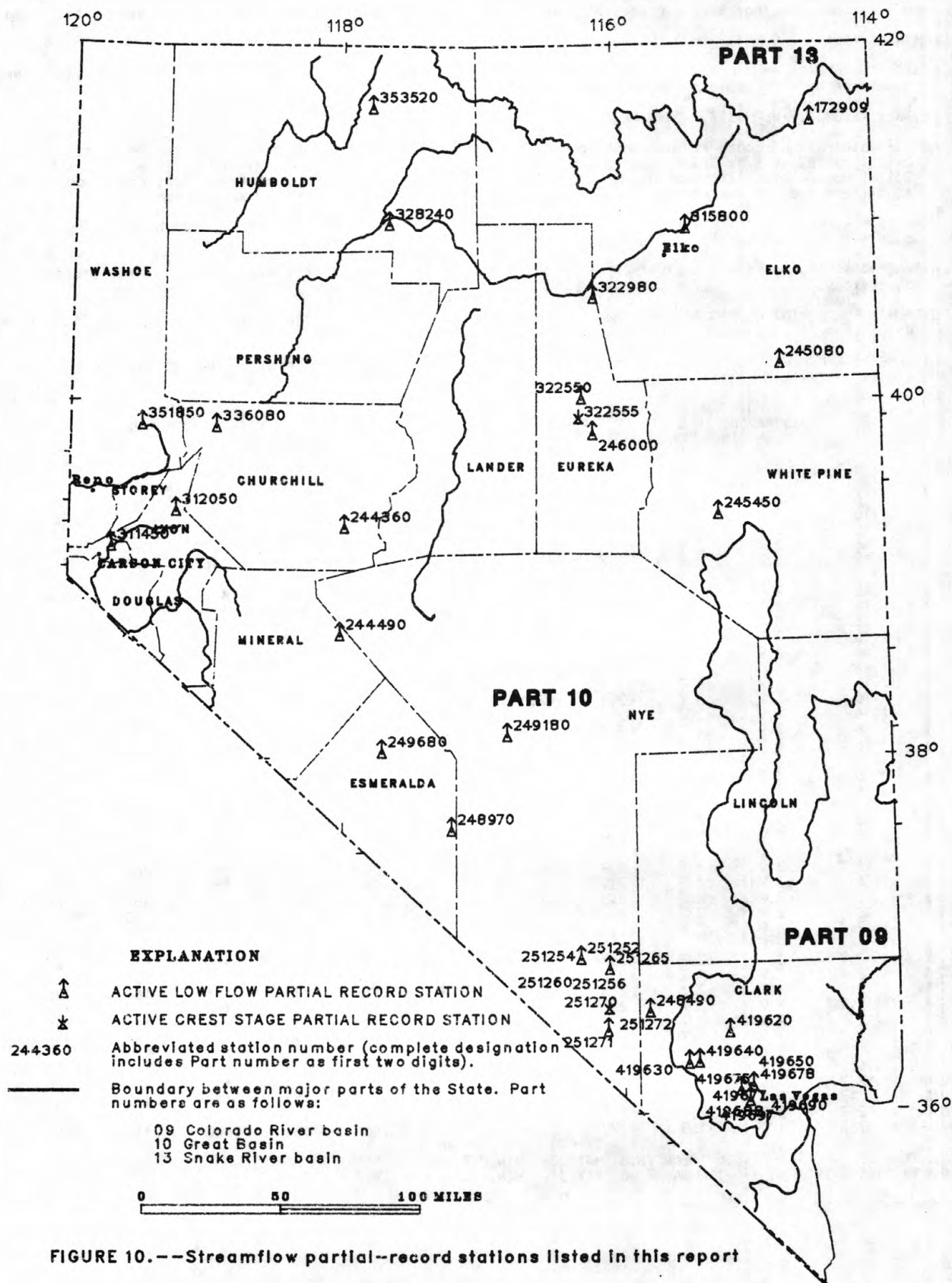


FIGURE 10.--Streamflow partial-record stations listed in this report

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

211

Because the number of sites for which streamflow information would be useful far exceeds the number of stream-gaging stations that can feasibly be operated at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited data are collected systematically at a site over a period of years for use in hydrologic analysis, the site is called a partial-record station. Data collected at these stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. Discharge measurements also are made at additional locations, termed miscellaneous sites, that are not included in the partial-record program.

Data collected at partial-record stations are presented in two tables. The first lists discharge measurements at low-flow partial-record stations, and the second tabulates annual maximum stages and discharges at crest-stage partial-record stations. Discharge measurements made at miscellaneous sites are given in a third table.

Low-Flow Partial-Record Stations

The following table contains streamflow data for partial-record stations during water year 1986. Normally, these measurements are made during periods of base flow when streamflow is primarily from ground-water storage. Such measurements, when correlated with the data for a nearby stream where continuous records are available, give a picture of the low-flow potential of a stream. For Nevada, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained. The column labeled "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Discharge (ft ³ /s)
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE1/4 sec.20, T.25 N., R.51 E., Eureka County, 1.5 miles upstream from Pete Hanson Creek, 11 miles from mouth, and 42 miles south of Palisade.	150	1972-86	10-18-85 1-09-86 6-05-86 9-16-86	0 0 0 0
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 miles upstream from mouth and 33 miles northwest of Eureka.	5.0	1972-86	10-18-85 1-09-86 4-17-86 6-05-86 9-16-86	0.37 0.29 1.16 3.50 0.44

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges at crest-stage stations during water year 1986. 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)	Dis-charge (ft ³ /s)
Las Vegas Valley							
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in 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	1962-86	1986	--	0
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	1962-86	1986	--	0
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	1961-86	1986	--	0
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, 1986	7-20-86	--	<1
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, Las Vegas.	E720	1963-78, 1983-86	2-86	--	E40
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	1961-86	7-20-86	--	<1

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)	Dis-charge (ft ³ /s)
Las Vegas Valley--Continued							
09419663	Las Vegas Wash tribu- tary 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, 1983-86	7-20-86	--	<1
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 north- west of Blue Diamond.	8.09	1962-86	11-29-85	--	E ₁₅
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.	A ₈₆	1966-81, 1985-86	2-86	--	E ₁₀
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 cul- verts on Maryland Parkway, between Flamingo Road and Twain Avenue in Las Vegas.	A ₁₀₆	1969-86	5-31-86	--	E ₂₀
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 up- stream from culvert on U.S. Highway 93, 95 and 466, 3.2 miles southeast of Las Vegas Post Office.	A ₁₁₇	1969-86	2-86	--	E ₁₀₀
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	1961-86	7-20-86	--	<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. Highway 93, 95, and 466, 0.7 mile southeast of Whitney.	239	1961-81, 1984-86	7-86	--	<1
09419697	Las Vegas Wash tribu- tary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE1/4SE1/4 sec.15, T.22 S., R.62 E. Clark County, at culvert on State Highway 41, 2.5 miles west of downtown Henderson.	1.17	1967-81, 1984-86	7-86	--	<1

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)	Dis-charge (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 and 40 miles northeast of Wells.	10.5	1969-78, 1981-86	10-85	2.52	E _{0.1}
Dixie Valley basin							
10244360	Dixie Valley tributary near Eastgate, 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.	A ₁₁	1961-86	2-86	--	E _{0.5}
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 and about 12 miles south of Gabbs.	207	1974-78, 1981-86	9-86	--	0
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.	A _{0.7}	1961-86	8-86	--	E _{0.1}
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 and 10.5 miles northeast of Hamilton.	5.47	1962-86	2-19-86	4.48	E ₆₀
Monitor Valley-Diamond Valley system							
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, at culvert on State Highway 278, 24 miles northwest of Eureka.	2.12	1962-86	2-19-86	--	E _{1.0}

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)
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.	A ₂₉	1964-82, 1984-86	1986	--	0
Amargosa Desert							
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, 1984-86	7-24-86	--	E ₆₀
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 1984-85	1986	--	0
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, 1984-86	1986	--	0
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 and 2.5 miles east of New Empire.	12.7	1966-78, 1980-86	2-19-86	--	E ₁₈₀
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, 1981-86	1986	--	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.	A ₃	1966-79, 1981-86	2-86	5.76	E ₄₅

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)	Dis-charge (ft ³ /s)
Humboldt River basin--Continued							
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, 1982-86	3-86	2.99	E _{2.0}
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	1986	--	<0.5
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 and 5 miles northeast of Winnemucca.	A _{1.9}	1968-78, 1980-86	1-86	--	0.5
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, 1981-86	2-19-86	3.87	E ₉₅₀
Black Rock Desert basin							
10353520	Eagle Creek near Orovalda, 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 Orovalda.	3.44	1962-78, 1980-86	1986	--	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 and 7.5 miles west of Gerlach.	3.50	1968-82, 1986	2-19-86	1.51	E ₁₀₀

A APPROXIMATE.

E ESTIMATED.

Miscellaneous Sites

The following table lists measurements of peak flows at miscellaneous sites during water year 1986.

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Carson River basin						
Ascaqua Creek	Carson River	Lat 39°04'28", long 119°49'12", in NW1/4SW1/4 sec.14, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, and 3.4 miles of Highway 395.	--	--	2-19-86	300
El Dorado Creek	Carson River	Lat 39°13'10", long 119°34'07", in NE1/4SE1/4 sec.25, T.16 N., R.21 E., Lyon County, 1.5 mi southeast of Dayton High School.	--	--	2-19-86	1,800
El Dorado Creek	Carson River	Lat 39°11'00", long 119°35'26", in NE1/4NW1/4 sec.7, T.15 N., R.22 E., on Lyon and Carson City line, Hydrologic Unit 16050201, and 3.9 miles southeast of Dayton.	--	--	2-19-86	2,100
Gold Canyon Creek	Carson River	Lat 39°14'11", long 119°35'26", in NW1/4SE1/4 sec.23, T.16 N., R.21 E., Lyon County, Hydrologic Unit 16050201, west Dayton.	--	--	2-19-86	850
Goni Canyon Creek	Carson River	Lat 39°11'27", long 119°44'29", in NE1/4SW1/4 sec. 4, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, and at intersection of Lompoc and Airport Roads.	--	--	2-19-86	55
Goni Canyon Creek	Kings Canyon Creek	Lat 39°12'24", long 119°44'13", in NW1/4SE1/4 sec.33, T.16 N., R.20 E., Carson City, Hydrologic Unit 16050201, and 0.3 miles north of Conestoga Drive.	--	--	2-19-86	E ₄₀
Goni Canyon Creek	Kings Canyon Creek	Lat 39°11'38", long 119°46'29", in SW1/4NE1/4 sec.6, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, culvert 10 feet west of Highway 395, and 0.3 mile south of Arrowhead Drive.	--	--	2-19-86	33
Goni Canyon Creek	Kings Canyon Creek	Lat 39°10'27", long 119°44'24", in SW1/4SE1/4 sec.9, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, and 20 feet south of Highway 50.	--	--	2-19-86	270
Indian Creek	East Fork Carson River	Lat 38°50'30", long 119°42'56", in NE1/4SE1/4 sec.3, T.11 N., R.21 E., Douglas County, Hydrologic Unit 16050201, 2 miles northeast of California/Nevada State line, and 0.7 miles east of Mud Lake (Mt. Siegel).	--	--	2-19-86	2,100
Rhoades Canyon Creek	Kings Canyon	Lat 39°08'46", long 119°46'33", in NW1/4SE1/4 sec.19, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, and 0.4 mile west of Curry Street.	--	--	2-19-86	E ₉₀
Six Mile Canyon Creek	Carson River	Lat 39°17'21", long 119°32'16", in SE1/4SW1/4 sec.32, T.17 N., R.22 E., Lyon County, Hydrologic Unit 16050202, 4.8 miles northeast of Dayton, and 10 feet north of Highway 50.	--	--	2-19-86	500

^E ESTIMATED.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Carson River basin--Continued						
Unnamed Wash	Carson River	Lat 39°24'20", long 119°15'19", in SW1/4SE1/4 sec. 23, T.18 N., R.23 E., Lyon County, Hydrologic Unit 16050202, 1,000 feet east of Ruby Avenue, and 500 feet north of Highway 50.	--	--	2-19-86	450
Unnamed Tributary	Golf Course Creek	Lat 39°12'15", long 119°43'09", in SW1/4SE1/4 sec.34, T.16 N., R.20 E., Carson City, Hydrologic Unit 16050201, 1.0 mile north of east end of airport runway.	--	--	2-19-86	<10
Unnamed Tributary	Goni Canyon Creek	Lat 39°12'45", long 119°44'14", in SW1/4SE1/4 sec.28, T.16 N., R.20 E., Carson City, Hydrologic Unit 16050201, and 0.3 mile east of Goni Road.	--	--	2-19-86	E ₃₀
Vicee Canyon Creek	Ash Canyon Creek	Lat 39°37'03", long 119°49'11", in NW1/4SW1/4 sec.2, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, and 0.95 mile southeast of of the "The Tanks".	--	--	2-19-86	E ₄₀
Vicee Canyon Creek	Ash Canyon Creek	Lat 39°11'02", long 119°48'18", in NW1/4NW1/4 sec.12 T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201.	--	--	2-19-86	95
Voltaire Canyon Creek	Kings Canyon Creek	Lat 39°07'29", long 119°47'21", in NE1/4NE1/4 sec.36, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, and 1.2 miles west of of Highway 395.	--	--	2-19-86	E ₇₅
North Lahontan basin						
Long Valley Creek	Honey Lake	Lat 39°44'27", long 120°03'28", in SE1/4SE1/4 sec.22, T.22 N., R.17 E., Lassen County, 1 mile west of Highway 395, and 300 feet west of railroad.	--	--	2-19-86	3,300
Truckee River basin						
Baily Canyon Creek	Steamboat Creek	Lat 39°22'11", long 119°42'12", in SW1/4NE1/4 sec.2, T.17 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 150 feet south of Toll Road.	--	--	2-19-86	930
Browns Creek	Washoe Lake	Lat 39°20'26", long 119°48'54", in SW1/4NE1/4 sec.14, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, and 1.3 miles upstream of Highway 395.	--	--	2-19-86	E ₃₆₀
Dry Creek	Steamboat Creek	Lat 39°27'22", long 119°46'58", in SE1/4NW1/4 sec.6, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 200 feet east of Huffaker Lane, and 0.3 mile west of Huffaker School.	--	--	2-19-86	620

E ESTIMATED.

Miscellaneous Sites--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Truckee River basin--Continued						
Evans Creek	Steamboat Creek	Lat 39°28'10", long 119°46'32", in SW1/4SE1/4 sec.31, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 20 feet south of Del Lucchi Lane, and 1 mile west of Rattlesnake Mountain.	--	--	2-19-86	620
Franktown Creek	Washoe Lake	Lat 39°16'26", long 119°50'25", in SW1/4SW1/4 sec.3, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, and 10 feet west of Franktown Road.	A14.0	--	2-19-86	380
Jumbo Wash	Washoe Lake	Lat 39°16'58", long 119°43'51", in SW1/4NW1/4 sec.3, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, and 1.15 miles east of Drake Way.	--	--	7-22-86	1,230
Jumbo Wash	Washoe Lake	Lat 39°16'56", long 119°44'47", in SW1/4NW1/4 sec.4, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 50 feet north of Jumbo Grade, and 0.25 feet east of Drake Way.	--	--	2-19-86 7-22-86	410 820
Unnamed Tributary	Lemmon Valley	Lat 39°36'06", long 119°51'32", in SW1/4NW1/4 sec.16 T.20 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.5 mile southwest of Black Springs, and 400 ft southwest of Western Pacific Railroad.	--	--	2-19-86	90
Unnamed Tributary	Lemmon Valley	Lat 39°37'03", long 119°50'38", in SW1/4NW1/4 sec.10, T.20 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1,000 feet east of Lemmon Drive, and 0.55 miles northeast of Highway 395.	--	--	2-19-86	610
Long Valley Canyon Creek	Truckee River	Lat 39°30'04", long 119°38'42", in NW1/4NW1/4 sec. 21, T.19 N., R.21 E., Storey County, Hydrologic Unit 16050103, and 0.75 mile south on U.S. Interstate 80.	--	--	2-19-86	5,400
Mullen Creek	Pyramid Lake	Lat 39°52'36", long 119°37'18", in SE1/4NE1/4 sec.9, T.23 N., R.21 E., Washoe County, Hydrologic Unit 16050103, 600 feet north of Muller Road, and 1.4 miles southwest of Indian Reservoir Boundary.	--	--	2-19-86	1,250
Mullen Creek	Pyramid Lake	Lat 39°54'14", long 119°33'43", in NE1/4SE1/4 sec.36 T.24 N., R.21 E., Washoe County, Hydrologic Unit 16050103, 3.8 miles southeast of Sutcliffe, and 800 feet east of Mullen Pass Road at falls.	--	--	2-19-86	1,400
Spanish Springs Creek	Truckee River	Lat 39°33'58", long 119°43'40", in SE1/4NW1/4 sec.27, T.20 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 30 feet west of Spanish Springs Road, 1 mile north of Reed High School.	--	--	2-19-86	1,850

A APPROXIMATE.
E ESTIMATED.

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)
Truckee River basin--Continued						
Thomas Canyon Creek	Steamboat Creek	Lat 39°23'32", long 119°50'08, in SE1/4SW1/4 sec.27, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1 mile north of Mt. Rose Highway, and 4.5 miles southwest of Highway 395.	--	--	2-19-86	E ₄₆₀
Unnamed Wash	Truckee River	Lat 39°34'06", long 119°31'19", in NE1/4SW1/4 sec.28, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, 3 miles east of Patrick, and 0.45 miles north of Tracy Power Plant.	--	--	2-19-86	700
Unnamed Tributary	Washoe Lake	Lat 39°17'08", long 119°45'04", in NE1/4NE1/4 sec.5, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 100 feet east of Drake Way, and 1 mile southeast of New Washoe City.	--	--	2-19-86 7-22-86	120 700
Unnamed Tributary	Pyramid Lake	Lat 39°53'46", long 119°31'15", in NW1/4NW1/4 sec.4, T.23 N., R.22 E., Washoe County, Hydrologic Unit 16050103, 1.0 miles southeast of Indian Head Rock, and 2.8 miles southeast of intersection on Highways 445 and 446.	--	--	2-19-86	E ₄₅₀
Unnamed Tributary	Washoe Lake	Lat 39°17'41", long 119°45'53", in NE1/4SW1/4 sec.32, T.17 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 0.4 mile northeast of East Lake Boulevard.	--	--	2-19-86	110

E ESTIMATED.

						DISCHARGE			
		SITE				LAND SURFACE ELEVATION (FEET)	MEASURE- MENT		
SPRING NAME	IDENTIFICATION	SPRING NAME	OWNER	USE ¹			DATE	FT ³ /S	METHOD ²
153 N24 E52 23DAC 1	395628116042801	SHIPLEY HOT SPRING	SADLER RANCH	I	5812	11/04/85	5.38	C	
						02/05/86	5.49	C	
173B N08 E55 14BCBB1	383256115453301	HAY CORRAL	FISH CREEK RANCH	I	4770	02/02/86	0.95	C	
173B N08 E55 15AAAA1	383323115454401	NORTH SPRING	FISH CREEK RANCH	I	4805	02/02/86	0.46	C	
173B N08 E55 15ACBD1	383311115461501	BIG SPRING	FISH CREEK RANCH	I	4820	02/02/86	1.09	C	
173B N08 E55 15ADDB1	383259115460301	REYNOLDS SPRINGS	FISH CREEK RANCH	I	4770	02/02/86	0.67	C	
173B N08 E57 110DB 1	383346115313801	BLUE EAGLE SPRINGS	HOWARD SHARP	I	4765	02/02/86	4.68	C	
173B N08 E57 27DACC1	383103115325301	BUTTERFIELD SPRING	CARL HANKS	I	4750	02/02/86	1.21	C	
173B N12 E56 05ABCB1	385552115421001	LITTLE WARM SPRING		I	5590	02/03/86	3.21	C	
173B N13 E56 32BACD1	385650115421301	BIG WARM SPRINGS		I	5605	02/03/86	15.1	C	
179 N16 E63 29AAAA1	391345114535501	MURRY SPRINGS	CITY OF ELY	P	6600	01/31/86	8.88	C	
179 N18 E64 21BDDC1	392502114464901	MCGILL SPRINGS	KENNECOTT COPPER	I	6100	11/02/85	13.1	C	
						02/04/86	12.0	C	
179 N19 E63 05CDC 1	393108114562301	CAMBELLS EMBAYMENT	WILLIAM G DAVIDSON	I	6100	02/04/86	8.62	C	
183 N10 E65 19CBCC1	384422114424001	NORTH CREEK SPRING		I	8235	01/31/86	0.87	C	
183 N10 E65 34CDAD1	383953114005801	GEYSER SPRING		I	6480	01/31/86	0.95	C	
207 N06 E60 25BDAD1	382105115104801	MOON RIVER SPRINGS	DON HUTCHINGS	I	5220	02/03/86	4.13	C	
207 N06 E61 18AADA1	382259115090801	HOT CREEK SPRING	WHIPPLE BROS	I	5225	02/03/86	9.23	C	
207 N07 E62 28ABDC1	382624115004001	BUTTERFIELD SPRINGS	WHIPPLE BROS	I	5320	02/04/86	3.29	C	
207 N07 E62 33BCAB1	382526115011401	FLAG SPRING 1		I	5290	02/04/86	1.91	C	
207 N07 E62 33BCCB1	382522115012001	FLAG SPRING 2		I	5280	02/04/86	2.68	C	
207 N07 E62 33BCCC1	382517115012001	FLAG SPRING 3		I	5290	02/04/86	1.69	C	
207 N09 E62 19DB 1	383726115025101	EMIGRANT SPRINGS		I	5480	02/01/86	3.11	C	
207 N11 E62 04AABA1	385158115000401	LUND SPRINGS	LUND IRRIG CO	I	5500	02/01/86	5.51	C	
207 N12 E61 02DBCB1	385542115045801	INDIAN RANCH SPRING		I	5720	02/01/86	0.52	C	
207 N12 E61 12BDAD1	385507114574801	COLD SPRINGS	LUND IRRIG CO	I	6020	02/01/86	1.11	C	
207 N12 E61 12DBDD1	385530115044601	NICHOLAS SPRINGS	LUND IRRIG CO	I	5700	02/01/86	2.42	C	
207 N12 E61 12DCAD1	385439115033701	UNKNOWN		I	5620	02/01/86	0.06	C	
207 N12 E61 12DCCD1	385539115045702	ARNOLDSON SPRING	PRESTON IRRIG	I	5700	02/01/86	3.52	C	
209 S04 E60 14DBAB1	373554115125201	HIKO SPRING		I	3875	01/28/86	6.08	C	
209 S05 E60 10ADBB1	373155115135801	CRYSTAL SPRINGS		I	3810	01/27/86	11.0	C	
209 S06 E61 068BBB1	372749115113401	ASH SPRINGS		I	3615	01/27/86	19.8	C	
215 S18 E67 12DDAD1	362239114263501	ROGERS SPRING		R	1590	01/28/86	1.27	C	
219 S14 E65 16AB 1	364329114431101	MUDDY RIVER MAIN	LDS FARM	I	1791	01/28/86	4.98	C	
219 S14 E65 16ABDD1	364319114425501	MUDDY SPRING	LDS FARM	I	1770	01/28/86	7.54	C	
219 S14 E65 16BD 1	364316114431901	MUDDY RIVER WEST	LDS FARM	I	1794	01/28/86	3.27	C	
219 S14 E65 21AAAA1	364236114424301	WARM SPRINGS EAST	WARM SPRNGS LEISURE PK	R	1790	01/28/86	2.19	C	
219 S14 E65 21AAB1	364234114425201	WARM SPRINGS WEST	U S FISH & WILDLIFE	I	1790	10/15/85	3.24	C	
						12/11/85	3.42	C	
						01/28/86	3.61	C	
230 S17 E50 15ABDA1	362835116192101	ROGERS SPRING	CALVADA CORP	I	2280	01/28/86	1.44	C	
230 S17 E50 22ABAA1	362751116192701	LONGSTREET SPRING	CALVADA CORP	I	2310	01/28/86	1.73	C	
230 S18 E50 03ADBA1	362502116192301	CRYSTAL POOL	CALVADA CORP	I	2200	01/28/86	5.54	C	

¹Uses: I, irrigation; P, public supply; R, recreation.²Measurement method: C, current meter.

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 to give better areal coverage in a river basin are referred to as miscellaneous sites.

BIG SMOKY VALLEY (NORTHERN PART)

10249295 NORTH TWIN RIVER NEAR ROUND MOUNTAIN, NV

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

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)
MAY 29...	1130	14	74	8.00	28.0	11.5	2.8	8.4	94	<4
AUG 29...	1215	1.6	90	7.80	25.5	15.0	0.90	8.0	98	--

DATE	STREP- TOCOC1 FECAL KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE IT-FLD AS HCO3)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CaCO3)
MAY 29...	K22	25	8.2	1.1	4.7	0.4	0.80	37	30
AUG 29...	--	37	12	1.6	5.8	0.4	1.0	51	42

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAY 29...	3.4	1.0	0.10	20	57	59	0.08	<0.010	<0.100
AUG 29...	4.9	1.5	0.10	22	82	74	0.11	<0.010	<0.100

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,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)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 29...	0.040	0.010	0.26	0.30	0.030	0.030	<0.010	20	0.77
AUG 29...	0.040	0.010	--	<0.20	0.020	--	0.020	2	0.01

STATE OF NEVADA -- HYDROGRAPHIC AREAS

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Enidio 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) Or Nevada Subarea
- (B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek --
- Tennile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpnickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
- (A) Oreauna Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment

84. Warm Springs V.
85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
- (A) 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.

8-CARSON RIVER BASIN

101. Carson Desert
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
- (A) Schurz Subarea
- (B) Lake Subarea
- (C) Whisky Flat --
- Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral)
- (A) Northern Part
- (B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
- (A) Eastern Part
- (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
- (A) Tonopah Flat
- (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
- (A) Northern Part
- (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
- (A) Northern Part
- (B) Central 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. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.

- (A) Northern Part
- (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
- (A) Southern Part
- (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
- (A) Northern Part (Round V.)
- (B) Southern Part

179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippet V.
186. Antelope V. (White Pine & Elko)
- (A) Southern Part
- (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
- (A) Herrell Siding--Brush Creek Area
- (B) Toana--Rock Spring Area
- (C) Rocky Butte Area
- (D) Montello--Crittenden Creek Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahrnagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Grasewood Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
- (A) Jackass Flats
- (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

*Noncontributing part of the Colorado River Basin

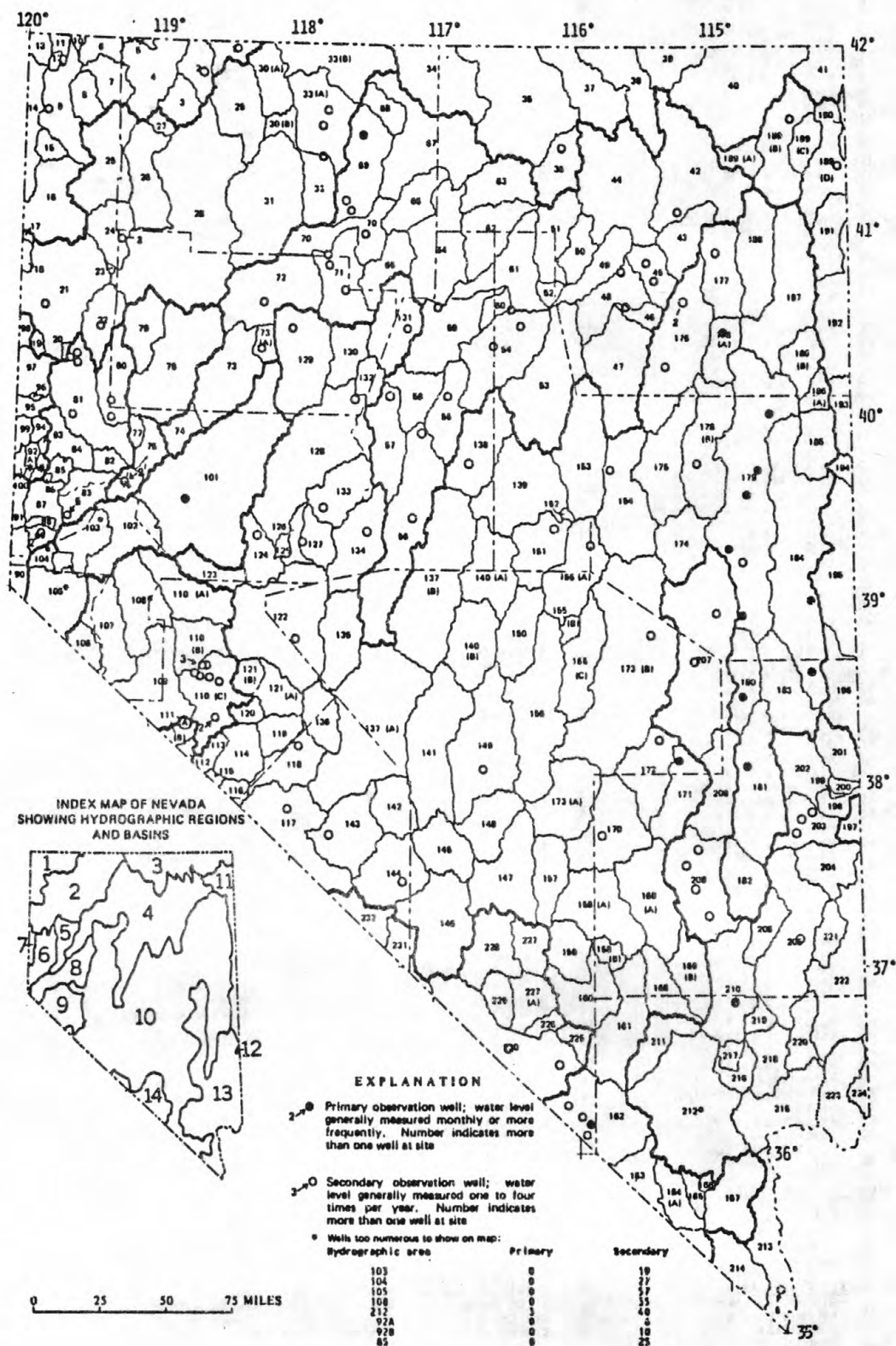


FIGURE 11.—Observation wells listed in this report.

BUTTE VALLEY

402555114591801. Local number, 178A N30 E62 33CAC1.

LOCATION.--Lat 40°25'55", long 114°59'18", Hydrologic Unit 16060007, in Elko County.

Owner: U.S. Bureau of Land Management.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in. depth 89 ft, cased to 89 ft.

DATUM.--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 current year.

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 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	34.85	34.69	34.55	34.43	34.32	34.24	34.15	34.07	34.07	34.40	34.76	35.06
10	34.82	34.65	34.52	34.42	34.31	34.20	34.13	34.06	34.11	34.47	34.82	35.09
15	34.81	34.65	34.50	34.40	34.28	34.19	34.11	34.06	34.14	34.52	34.88	35.12
20	34.77	34.61	34.49	34.38	34.28	34.21	34.11	34.05	34.20	34.60	34.94	35.13
25	34.75	34.59	34.47	34.38	34.27	34.19	34.08	34.05	34.26	34.66	34.98	35.12
EOM	34.72	34.58	34.45	34.34	34.26	34.17	34.08	34.05	34.33	34.71	35.03	35.10

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, 44.23 ft below land-surface datum, Aug. 19, 1986.

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	JUNE	JULY	AUG	SEPT
5	42.95	42.38	41.94	41.68	41.54	41.47	41.83	42.13	42.96	43.62	44.06	44.20
10	42.74	42.27	41.91	41.68	41.49	41.46	41.79	42.19	43.06	43.70	44.11	44.10
15	42.60	42.25	42.08	41.60	41.43	41.49	41.84	42.39	43.17	43.79	44.21	43.32
20	42.52	42.14	42.01	41.58	41.43	41.60	41.97	42.52	43.33	43.89	44.21	43.88
25	42.49	42.03	41.90	41.66	41.44	41.65	42.05	42.58	43.42	43.88	44.16	43.71
EOM	42.42	41.94	41.76	41.55	41.42	41.76	42.13	42.78	43.49	43.96	44.20	43.53

CAVE VALLEY

382807114521001. Local number, 180 N07 E63 14BADD1.

LOCATION.--Lat 38°28'07", long 114°52'10", Hydrologic Unit 16060009, in Lincoln County.

Owner: U.S. Air Force.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 17 in., depth 460 ft, cased to 460 ft, perforated 210 to 250 ft, 375 to 435 ft.

DATUM.--Elevation of land-surface datum is 6,008 ft. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--In Cave Valley.

PERIOD OF RECORD.--1983 to Apr. 29, 1986 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 224.12 ft below land-surface datum, Apr. 12, 1986; lowest measured, 226.9 ft below land-surface datum, Oct. 24, 1983.

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	JUNE	JULY	AUG	SEPT
5	225.19	224.87	224.86	224.75	224.60	224.58	224.56	---	---	---	---	---
10	225.28	224.73	224.74	224.77	224.64	224.42	224.46	---	---	---	---	---
15	225.17	225.01	224.87	224.61	224.47	224.57	224.46	---	---	---	---	---
20	224.96	224.80	224.79	224.54	224.72	224.80	224.59	---	---	---	---	---
25	224.96	224.75	224.77	224.85	224.67	224.59	224.40	---	---	---	---	---
EOM	224.81	224.92	224.76	224.61	224.58	224.51	---	---	---	---	---	---

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

COYOTE SPRING VALLEY

364743114533101. Local number, 210 513 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 September 1986.

EXTREME FOR PERIOD OF RECORD.--Highest water level recorded, 351.5 ft, July 16, 1986. Lowest water level recorded, 351.9 ft, Sept. 11, 1986.

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	---	---	---	---	---	---	---	---	---	---	351.7	351.8
10	---	---	---	---	---	---	---	---	---	---	351.7	351.8
15	---	---	---	---	---	---	---	---	---	351.6	351.7	351.8
20	---	---	---	---	---	---	---	---	---	351.7	351.7	---
25	---	---	---	---	---	---	---	---	---	351.7	351.7	---
EOM	---	---	---	---	---	---	---	---	---	351.7	351.7	---

DRY LAKE VALLEY

3805311143534201. Local Number, 181 N03 E63 28DA1.

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, 850.9 ft below land-surface datum, July 4, 1986; lowest recorded, 852.0 ft below land-surface datum, Oct. 25, 1983.

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	JUNE	JULY	AUG	SEPT
5	---	---	---	---	---	---	---	851.1	---	851.1	851.1	---
10	---	---	---	---	---	---	---	---	851.4	---	851.2	---
15	---	---	---	---	---	---	---	---	851.2	851.2	---	---
20	---	---	---	---	---	---	---	---	851.2	851.3	---	---
25	---	---	---	---	---	---	---	---	851.2	851.2	851.1	---
EOM	---	---	---	---	---	---	851.4	---	851.2	851.2	851.1	---

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 1985 TO SEPTEMBER 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	155.18	---	---	---	---	150.91	151.78	---	---	154.28	---	158.10
10	---	---	---	---	149.80	151.21	151.00	---	---	154.48	156.10	157.96
15	---	---	---	---	149.45	150.48	152.09	---	153.09	---	157.06	157.84
20	---	---	---	---	149.50	150.40	152.28	---	153.71	---	157.09	157.84
25	---	---	---	---	150.74	151.22	152.20	---	153.73	---	157.42	157.18
EOM	---	---	---	---	150.60	151.94	152.46	---	154.00	---	157.48	156.36

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

227

LAS VEGAS VALLEY--Continued

36161115151301. 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, 91.56 ft below land-surface datum, Sept. 8, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 7	85.35	Nov. 4	81.65	Dec. 9	76.80	Jan. 6	74.17	Feb. 3	75.04	Mar. 4	75.68
14	83.90	12	80.30	12	75.35	7	74.63	10	73.98	10	75.50
21	83.34	19	79.64	24	75.60	13	76.01	18	73.68	13	74.53
28	82.42	25	81.31	30	75.87	21	74.81	25	73.57	17	74.96
						27	74.18			24	75.24
										31	77.50
Apr. 7	77.25	May 5	80.10	June 2	84.69	July 11	88.92	Aug. 4	90.30	Sept. 2	90.86
14	79.46	12	82.00	9	83.15	21	87.39	11	89.55	8	91.56
21	80.46	19	81.18	16	85.30			18	90.71	15	91.52
28	79.40	27	82.25	23	88.67			25	89.40	22	88.90
				25	78.15					29	87.78
				30	86.12						

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 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 7	162.39	Nov. 4	162.18	Dec. 3	161.14	Jan. 6	159.43	Feb. 2	160.40	Mar. 4	160.91
14	162.36	12	161.73	9	160.88	13	159.43	10	159.50	10	159.15
21	162.16	19	161.73	16	161.13	21	159.50	18	159.68	24	160.97
28	162.12	25	160.34	23	159.24	27	159.50	24	159.33		
				30	159.56			26	162.38		
Apr. 2	160.85	May 5	163.42	June 2	163.29	July 21	163.44	Aug. 4	168.03	Sept. 2	163.03
7	160.40	12	161.45	9	162.52			11	163.50	8	163.02
14	160.31	19	161.08	17	162.30			18	164.66	11	164.27
21	160.34	27	161.02	23	163.87					15	164.85
28	161.91			24	169.30					22	163.05
				30	163.75						

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

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	---	99.59	95.14	93.98	90.02	---	95.45	---	98.50	99.95	101.30	102.80
10	104.39	98.71	94.59	91.61	97.69	94.52	97.90	98.27	101.44	99.95	101.21	102.15
15	102.80	98.16	94.38	91.16	---	---	96.92	98.39	100.36	100.04	101.70	102.16
20	101.94	97.40	93.15	91.01	---	---	94.61	98.78	100.36	100.55	101.86	102.16
25	101.77	96.76	93.64	91.40	---	---	---	98.83	100.36	100.75	101.97	101.15
EQM	99.96	---	93.94	90.23	---	95.06	---	98.32	100.36	100.40	100.90	102.29

PARADISE VALLEY

412910117321001DCP. Local number, 69 N42 E39 25C1.

LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.

Owner: U.S. Bureau of Land Management.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft, depth 17.4 ft, cased with iron.

DATUM.--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.

REVISIONS.--Revised figures of water levels for water years 1984-85, superseding those published in the reports for 1984-85, are given below.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 14	5.93	Jan. 26	3.64	Apr. 26	1.47	July 27	4.45
Nov. 17	6.00	Feb. 28	2.36	May 23	1.19	Aug. 29	5.46
Dec. 28	2.78	Mar. 29	1.22	June 13	2.52	Sept. 18	5.70

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 14	5.93	Jan. 26	3.64	Apr. 26	1.47	July 27	4.45
Nov. 17	6.00	Feb. 28	2.36	May 23	1.19	Aug. 29	5.46
Dec. 28	2.78	Mar. 29	1.22	June 13	2.52	Sept. 18	5.70

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 28	8.02	Jan. 28	7.41	Apr. 30	1.05	July 29	5.38
Nov. 20	7.99	Feb. 27	4.13	May 29	2.13	Aug. 28	7.05
Dec. 19	7.89	Mar. 25	3.82	June 25	3.97	Sept. 30	7.86

SPRING VALLEY

383704114225001. Local number, 184 N09 E68 30AA1.

LOCATION.--Lat 38°37'04", long 114°22'50", Hydrologic Unit 16060008, in White Pine County.

Owner: U.S. Geological Survey.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 699 ft, cased to 681.5 ft.

DATUM.--Elevation of land-surface datum is 5,990 ft. Measuring point: Top of casing, 0.75 ft above land-surface datum.

REMARKS.--In Spring Valley.

PERIOD OF RECORD.--1983 to June 19, 1986 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 226.42 ft below land-surface datum, Apr. 12, 1986; lowest measured, 227.24 ft below land-surface datum, Apr. 22, 1985.

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	JUNE	JULY	AUG	SEPT
5	226.76	226.80	226.77	226.76	226.68	226.71	226.73	226.61	226.63	---	---	---
10	226.86	226.71	226.77	226.78	226.72	226.63	226.65	226.61	226.73	---	---	---
15	226.82	226.82	226.82	226.74	226.64	226.71	226.63	226.67	226.63	---	---	---
20	226.74	226.70	226.79	226.71	226.82	226.80	226.70	226.59	---	---	---	---
25	226.77	226.75	226.79	226.83	226.74	226.78	226.64	226.68	---	---	---	---
EOM	226.78	226.92	226.79	226.74	226.70	226.71	226.73	226.64	---	---	---	---

385715114254501. Local number, 184 N13 E67 34AAA1.

LOCATION.--Lat 38°57'15", long 114°25'45", Hydrologic Unit 16060008, in White Pine County.

Owner: L. Larson.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 16 in., depth 916 ft, cased to 874 ft.

DATUM.--Elevation of land-surface datum is 5,805 ft. Measuring point: Top of casing, 1.90 ft above land-surface datum.

REMARKS.--In Spring Valley.

PERIOD OF RECORD.--1983 to June 19, 1986 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 0.70 ft above land-surface datum, May 12-20, 1986; lowest measured, 2.54 ft below land-surface datum, April 19, 1983.

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	JUNE	JULY	AUG	SEPT
5	0.12	0.03	-0.05	-0.20	-0.35	-0.47	-0.59	-0.67	-0.63	---	---	---
10	.11	.02	-.06	-.22	-.36	-.49	-.62	-.69	-.59	---	---	---
15	.10	.00	-.08	-.25	-.39	-.52	-.63	-.70	-.57	---	---	---
20	.08	-.01	-.11	-.27	-.41	-.54	-.65	-.70	---	---	---	---
25	.05	-.02	-.13	-.29	-.44	-.55	-.66	-.69	---	---	---	---
EOM	.04	-.04	-.17	-.33	-.45	-.57	-.67	-.66	---	---	---	---

(Values above land surface indicated by "-".)

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.

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	JUNE	JULY	AUG	SEPT
5	---	412.2	412.6	412.8	412.9	412.9	412.7	411.3	409.0	408.9	409.6	410.1
10	---	412.1	412.5	412.9	412.9	412.9	412.5	410.9	409.1	409.7	409.7	410.1
15	---	412.4	412.7	412.9	412.9	412.9	412.3	410.4	408.8	409.2	409.8	410.2
20	---	412.3	412.8	412.9	412.9	412.9	412.2	410.0	408.8	409.4	409.9	410.2
25	---	412.3	412.8	412.9	412.9	412.8	411.8	409.7	408.8	409.5	409.9	410.2
EOM	---	412.3	412.8	412.9	412.9	412.8	411.7	409.3	408.8	409.6	410.0	410.3

391634114484901. Local number, 179 N16 E64 06CBDC1.

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.

DATE.--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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	227.0	228.8	230.1	231.0	231.4	231.7	230.9	229.1	---	227.4	227.6	228.8
10	227.4	228.8	230.3	231.1	231.5	231.5	230.6	228.9	---	227.4	227.8	229.1
15	227.6	229.3	230.5	231.1	231.5	231.5	230.2	228.7	---	227.3	227.9	229.3
20	227.8	229.4	230.7	231.2	231.7	231.7	230.1	---	---	227.4	228.2	229.5
25	228.1	229.7	230.8	231.4	231.8	231.4	229.7	---	227.5	227.4	228.4	229.8
EOM	228.5	230.0	230.9	231.4	231.7	231.1	229.5	---	227.4	227.5	228.6	230.0

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, 6.66 ft below land-surface datum, Apr. 28, 29, and May 3-6; lowest measured, 17.87 ft below land-surface datum, Dec. 17, 1964.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	8.78	8.31	7.96	7.68	7.37	7.06	6.82	6.68	7.21	8.17	8.79	8.88
10	8.70	8.23	7.89	7.64	7.32	6.99	6.79	6.68	7.36	8.30	8.85	8.87
15	8.61	8.20	7.85	7.58	7.28	6.96	6.76	6.73	7.50	8.42	8.91	8.83
20	8.51	8.13	7.81	7.54	7.22	6.96	6.75	6.79	7.69	8.52	8.95	8.77
25	8.45	8.08	7.77	7.51	7.14	6.90	6.68	6.90	7.84	8.60	8.89	8.68
EOM	8.36	8.04	7.72	7.43	7.09	6.85	6.68	7.06	8.02	8.71	8.86	8.57

LOCATION.--Lat 39°41'01", long 114°45'51", Hydrologic Unit 16060008, in White Pine County.

Owner: Glen Tree.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 16 in., depth 300 ft, cased to 300 ft, perforated 60 to 300 ft.

DATUM.--Elevation of land-surface datum is 6,027 ft. Measuring point: Top of casing 1.4 ft above land-surface datum.

REMARKS.--In Steptoe Valley.

PERIOD OF RECORD.--1983 to Mar. 25, 1986 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.84 ft below land-surface datum, May 9-10, 1985; lowest water level measured, 61.0 ft below land-surface datum, Aug. 5, 1983.

[illegible]

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

231

STEPTOE VALLEY--Continued

400016114401601. Local number, 179 N25 E65 318BDD1.

LOCATION.--Lat 40°00'16", long 114°40'16", Hydrologic Unit 16060008, in White Pine County.

Owner: J. Parsons.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 235 ft, cased to 235 ft, perforated 155 to 235 ft.

DATUM.--Elevation of land-surface datum is 5,971 ft. Measuring point: Top of casing, 2.3 ft above land-surface datum.

REMARKS.--In Steptoe Valley.

PERIOD OF RECORD.--1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 104.36 ft below land-surface datum, Sept. 23, 24, 1985; lowest measured, 106.1 ft below land-surface datum, Nov. 14, 1983.

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	JUNE	JULY	AUG	SEPT
5	104.78	104.79	104.77	104.71	104.64	104.64	104.60	104.53	104.51	104.52	104.46	104.46
10	104.80	104.71	104.75	104.74	104.65	104.55	104.58	104.54	104.54	104.50	104.48	104.50
15	104.80	104.79	104.79	104.71	104.62	104.58	104.56	104.56	104.49	104.47	104.46	104.46
20	104.75	104.72	104.78	104.70	104.68	104.65	104.62	104.51	104.50	104.48	104.48	104.47
25	104.78	104.75	104.74	104.73	104.67	104.64	104.57	104.54	104.48	104.48	104.48	104.47
EOM	104.78	104.82	104.72	104.67	104.63	104.60	104.59	104.52	104.50	104.48	104.47	104.45

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: C, commercial; F, fire; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.

Geologic-unit codes: 110LSVG, Quaternary Las Vegas Formation; 110VLFL, Quaternary valley fill, undifferentiated; 111FLDP, Holocene flood-plain deposits; 121KTPK, Pliocene Kate Peak Formation; 121MDCK, 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.
42 N37 E59 25BCBC1	410400115164001	MARBLE RANCH	7	H	110VLFL	W	14.
45 N33 E58 19ADD1	404350115281001	H CONRAD	7	H	110VLFL	W	16.
45 N34 E57 24CDD1	404822115300801	BALBOA	7	H	110VLFL	A	97.
46 N31 E56 16ADDA1	403400115400001		7	S	110VLFL	U	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	BEOWAVE 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	15	I	110VLFL	U	264.
69 N37 E39 15CBC 1	410448117344901	USGS	13	U	110VLFL	W	30.
69 N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
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 N34 E37 22ACAA1	404940117475001	J BALLARD	27	U	110VLFL	U	50.
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.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

Depths, diameter, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and altitude are rounded to nearest foot. Well diameter is rounded to nearest inch. 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.

DIAM- ETER (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	40.67	03/11/86
8.		4230.	1968-	3.49	03/11/86	13.76	03/22/77	3.49	03/11/86
6.		5200.	1968-	10.22	03/13/72	14.66	04/10/79	10.65	06/12/86
6.		4000.	1966-	37.91	09/15/66	54.97	04/17/79	53.75	04/24/86
6.		4013.	1966-	45.20	04/09/69	52.30	03/31/86	52.30	03/31/86
2.		4031.	1967-	3.77	04/16/73	15.02	06/13/86	15.02	06/13/86
2.		4031.	1967-	-2.25	06/14/67	12.80	06/13/86	12.80	06/13/86
16.	150.- 250.	4200.	1971-	46.06	04/10/85	78.11	04/29/71	53.39	03/12/86
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	107.06	03/12/86
16.	175.- 545.	4280.	1972-	105.69	04/06/78	144.57	04/06/82	128.90	03/12/86
2.		5700.	1970-	45.25	04/16/86	47.78	04/16/81	45.25	04/16/86
48.		5350.	1938-	0.32	04/28/64	20.80	02/26/45	2.31	04/04/86
48.		5950.	1934-	0.09	04/28/46	18.00	11/01/40	11.51	04/02/86
8.		5550.	1944-	-1.48	02/26/53	7.10	12/26/52	-0.60	04/02/86
6.		5650.	1964-	70.78	04/02/86	90.92	03/17/70	70.78	04/02/86
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	6.41	04/02/86
8.		4740.	1973-	-1.11	03/19/86	0.66	03/25/85	-1.11	03/19/86
14.		4800.	1958-	54.66	04/10/78	69.28	09/28/66	54.72	03/19/86
48.		4698.	1948-	4.46	04/26/84	8.33	09/22/54	7.25	03/19/86
10.		5100.	1965-	4.47	05/06/85	6.99	03/23/70	5.69	03/19/86
16.	44.- 204.	5730.	1959-	4.54	03/26/85	8.88	03/20/68	5.71	03/24/86
12.		5220.	1961-	-1.83	03/26/85	2.78	03/20/68	-0.99	03/26/86
2.	65.- 67.	4948.	1964-	38.83	04/15/70	58.54	08/05/64	50.96	03/26/86
12.		4609.	1947-	5.25	04/30/69	6.91	03/29/82	5.95	03/20/86
1.	28.- 30.	4326.	1968-	22.77	04/18/72	29.18	11/03/81	25.40	03/12/86
8.		4414.	1970-	0.69	04/23/71	9.01	11/12/81	1.57	03/12/86
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	31.39	03/13/86
6.		4432.	1939-	28.40	07/24/46	39.46	03/28/79	28.87	03/12/86
6.		4329.	1946-	9.10	03/12/86	14.16	04/12/82	9.10	03/12/86
10.		4301.	1946-	17.68	05/16/46	29.00	03/28/79	21.67	03/12/86
14.		4150.	1954-	26.39	04/11/85	45.85	03/25/70	26.40	03/12/86
12.	100.- 395.	4300.	1968-	119.10	04/23/69	126.15	04/06/83	120.76	03/12/86
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	7.82	03/31/86
10.		4135.	1953-	3.33	09/02/53	24.45	03/31/86	24.45	03/31/86
6.		3845.	1969-	20.39	04/03/85	27.14	07/14/70	23.85	03/25/86
48.		3800.	1968-	2.47	04/18/73	4.30	03/31/86	4.30	03/31/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
81 N24 E22 31CCC 2	395357119333401	USBIA	31	U	110VLFL	U	226.
81 N27 E21 09BDA 1	401352119380201	USGS	31	U	110VLFL	U	47.
81 N27 E21 16ABD 1	401245119374401	USGS	31	U	110VLFL	U	44.
81 N28 E21 33CCD 1	401443119381201	USGS	31	U	110VLFL	U	60.
83 N17 E21 06ADCA1	392212119394101	CARLSBURG DEVEL CORP	29	U	122ALTA	U	290.
83 N18 E21 32ABCD1	392313119384201	JOHN CHOATE	29	H	122ALTA	U	300.
83 N18 E21 32CBBD1	392254119392001	MICHAEL DEVANY	29	H	122ALTA	U	180.
83 N18 E21 33BABC1	392320119375301	CARLSBURG DEVEL CORP	29	U	121KTPK	U	300.
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.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		3988.	1970-	10.25	03/09/72	24.28	03/12/84	15.53	03/31/86
2.	45.- 47.	3845.	1967-	5.90	07/28/67	11.35	04/21/83	10.63	04/02/86
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	17.95	04/02/86
2.	58.- 60.	3865.	1967-	15.31	07/28/67	19.61	04/21/83	18.50	04/02/86
6.	60.- 290.	6355.	1977-	69.84	03/26/86	74.93	04/09/82	69.84	03/26/86
6.	265.- 295.	5980.	1977-	63.65	05/01/84	91.59	04/04/79	68.98	03/11/86
6.	160.- 180.	6242.	1977-	75.60	03/11/86	98.67	04/04/79	75.60	03/11/86
8.	83.- 300.	5785.	1977-	9.10	05/01/84	23.20	12/06/77	14.03	03/11/86
9.	80.- 200.	5785.	1980-	10.47	05/01/84	20.11	03/11/81	12.32	03/11/86
6.	101.- 130.	4490.	1979-	7.99	03/13/86	12.10	04/21/81	7.99 9.97	03/13/86 07/02/86
6.	105.- 125.	4504.	1979-	11.74	03/13/86	22.84	07/18/80	11.74 12.11	03/13/86 07/02/86
8.		4642.	1964-	67.67	04/20/83	103.06	07/11/79	83.82 73.74 73.52 72.60	03/13/86 07/02/86 08/04/86 09/10/86
16.	238.- 813.	4520.	1964-	54.90	01/18/80	61.58	06/23/81	55.24 55.37 55.57 55.58	03/26/86 07/02/86 08/04/86 09/10/86
8.	59.- 105.	4497.	1979-	25.19	09/20/80	30.10	04/04/85	29.45 29.55	03/12/86 07/02/86
12.	100.- 300.	4485.	1979-	18.64	07/10/79	32.70	04/20/83	21.92 22.64 25.44	03/12/86 07/02/86 09/10/86
10.	50.- 250.	4485.	1979-	19.36	07/10/79	23.73	04/04/85	22.63 23.16	03/12/86 07/02/86
6.	80.- 160.	4463.	1964-	0.64	03/13/86	5.27	08/31/64	0.64 2.35	03/13/86 07/02/86
12.	152.- 194.	4497.	1979-	90.80	01/19/81	104.21	07/02/86	97.83 104.21	03/13/86 07/02/86
8.		4540.	1979-	89.54	01/19/81	103.31	09/10/86	95.79 101.26 102.42 103.31	03/12/86 07/02/86 08/04/86 09/10/86
6.		4503.	1979-	26.49	07/03/86	28.82	07/24/79	27.26 26.49 27.16 26.70	03/26/86 07/03/86 08/04/86 09/10/86
8.	100.- 350.	4490.	1979-	4.70	04/04/85	5.91	07/18/80	5.06 5.34 5.30 5.28	03/26/86 07/03/86 08/04/86 09/10/86
11.		4514.	1979-	25.89	10/17/80	28.51	06/23/81	26.08 26.50 26.49 26.50	03/14/86 07/03/86 08/04/86 09/10/86
9.	86.- 126.	4528.	1979-	31.96	08/04/86	36.99	07/23/79	35.01 32.18 31.96 32.08	03/14/86 07/03/86 08/04/86 09/10/86
10.	93.- 121.	4531.	1979-	47.02	04/04/85	51.58	07/03/86	50.86 51.58	03/14/86 07/03/86
		4530.	1980-	39.61	04/04/85	45.18	05/02/84	41.81 40.47	03/14/86 07/03/86
8.		4538.	1979-	40.03	05/15/84	44.73	07/23/79	44.59 43.82 43.49	03/14/86 07/03/86 08/04/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
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.
85 N21 E20 35CCCC1	393812119425701	JIM PATERSON	31	H		U	300.
85 N21 E21 20BBDC1	394038119392601	CHARLES WILTSIE	31	H		U	480.
85 N21 E21 31CACA1	393828119401601	BUD MAY	31	H		U	421.
89 N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	31	U	110VLFL	U	94.
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 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	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4538.	1979-	40.03	05/15/84	44.73	07/23/79	43.39	09/10/86
6.	310.- 494.	4875.	1979-	340.36	07/03/79	344.72	03/13/86	344.72 341.29 342.60 342.70	03/13/86 07/02/86 08/04/86 09/10/86
6.	223.- 303.	4672.	1979-	168.90	05/02/84	198.60	04/21/81	197.00 190.00	03/14/86 07/02/86
12.	137.- 217.	4569.	1979-	95.18	04/20/83	100.17	04/04/85	95.20 97.36 97.86 97.23	03/13/86 07/02/86 08/04/86 09/10/86
10.	37.- 787.	4550.	1964-	63.09	03/18/81	69.06	04/21/81	64.15 64.19 64.18 64.39	03/13/86 07/02/86 08/04/86 09/10/86
12.	70.- 170.	4544.	1979-	50.89	04/14/82	59.47	03/18/81	52.55 53.70	03/26/86 08/04/86
10.	58.- 288.	4496.	1980-	23.30	06/11/80	32.31	07/02/86	26.11 32.31	03/26/86 07/02/86
6.	330.- 480.	4918.	1979-	228.83	07/16/79	253.32	03/13/86	253.32	03/13/86
8.	141.- 291.	4668.	1979-	132.27	03/14/86	135.94	10/17/80	132.27 132.67	03/14/86 07/02/86
12.		5065.	1968-	5.03	03/11/86	7.20	04/25/84	5.03	03/11/86
6.	73.- 138.	5120.	1960-	6.79	03/11/86	22.00	08/07/81	6.79	03/11/86
7.	100.- 170.	5222.	1963-	19.16	03/10/83	44.08	06/23/81	35.08 27.59 27.16	11/22/85 08/19/86 09/30/86
10.	280.- 570.	5130.	1972-	80.00	05/02/72	165.32	09/30/86	158.02 152.63 163.41 165.32	11/22/85 04/01/86 08/19/86 09/30/86
12.		5040.	1971-	82.32	03/14/72	107.41	06/23/81	96.27 88.86 96.88 99.15	11/22/85 04/01/86 08/19/86 09/30/86
2.	65.- 67.	5025.	1971-	52.07	12/09/80	59.64	06/27/80	52.92 52.63 52.50 52.44	11/22/85 04/01/86 08/19/86 09/30/86
2.	85.- 87.	5040.	1971-	55.28	09/30/86	67.54	01/06/80	55.74 55.65 55.39 55.28	11/22/85 04/01/86 08/19/86 09/30/86
2.	20.- 22.	4970.	1971-	1.75	04/01/86	11.31	02/12/80	8.53 1.75 6.56 7.05	11/22/85 04/01/86 08/19/86 09/30/86
8.		5020.	1966-	27.11	04/01/86	57.10	06/14/77	35.96 27.11 31.62 32.00	11/22/85 04/01/86 08/19/86 09/30/86
		5170.	1974-	10.42	04/17/75	18.32	10/14/77	12.60 13.29 12.98	11/22/85 08/19/86 09/30/86
6.		5070.	1971-	35.00	11/05/71	88.70	05/26/83	79.32 74.51 72.26 76.22	11/22/85 04/01/86 08/19/86 09/30/86
6.	131.- 151.	5170.	1959-	39.43	04/01/86	119.00	11/27/59	45.57 39.43 40.73 40.94	11/22/85 04/01/86 08/19/86 09/30/86
6.		5025.	1971-	133.28	06/13/72	163.33	08/19/86	153.65	04/01/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
92B N21 E19 15BACD1	394126119502101		31	U		U	
92B N21 E19 22DBAA1	394017119500201	USGS	31	U		U	150.
92B N21 E19 26CCDB1	393907119493101	USGS	31	U		U	62.
92B N21 E19 28AAAB1	393952119505401	USGS	31	U		U	50.
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.
103 N17 E23 10BABD1	392132119232501	TERRY WEATHERMAN	19	I		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 N18 E23 35CBDD1	392246119222901	CARL MCHENRY	19	H		U	215.
103 N18 E23 35DCDC1	392235119215601	STAGECOACH UTILITIES 4	19	H		U	268.
104 N15 E19 01DCDC1	391113119474201	GREENE	510	H		U	282.
104 N15 E19 12ABCC1	391057119474101	USGS	510	U		U	99.
104 N15 E19 12ABCC3	391057119474002	USGS	510	U		U	210.
104 N15 E19 12ACAB1	391055119473301	USGS	510	U		U	273.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.		5025.	1971-	133.28	06/13/72	163.33	08/19/86	163.33	08/19/86
2.	148.- 150.	4919.	1971-	17.36	04/20/72	41.74	08/19/86	37.04 35.64 41.74 40.17	11/22/85 04/01/86 08/19/86 09/30/86
2.	60.- 62.	4919.	1971-	12.80	03/16/72	34.99	08/19/86	30.14 34.99 34.06	11/22/85 08/19/86 09/30/86
2.	48.- 50.	4920.	1971-	21.70	06/13/73	36.92	08/20/82	34.16	11/22/85
2.	51.- 53.	4930.	1971-	9.91	04/01/86	17.00	09/15/77	13.15 9.91 12.19 12.64	11/22/85 04/01/86 08/19/86 09/30/86
2.	82.- 84.	5035.	1971-	38.54	06/23/81	53.11	06/27/80	42.40 43.39 43.47 43.34	11/22/85 04/01/86 08/19/86 09/30/86
2.	66.- 86.	4335.	1977-	60.56	04/01/83	77.37	09/21/77	60.98	03/11/86
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	53.87	03/11/86
2.		4339.	1977-	50.35	05/01/84	54.30	09/22/77	51.49	03/11/86
8.		4378.	1970-	145.70	06/03/70	176.86	03/11/86	176.86	03/11/86
8.	240.- 276.	4455.	1972-	224.19	07/14/72	230.46	03/11/86	230.46	03/11/86
10.	196.- 296.	4324.	1971-	79.05	07/01/72	105.16	03/11/86	105.16	03/11/86
2.	83.- 86.	4286.	1977-	50.00	07/20/77	65.54	04/11/83	62.98	03/11/86
12.	287.- 395.	4322.	1977-	90.12	04/11/78	96.06	12/20/79	92.29	03/11/86
12.	12.-	4324.	1970-	73.98	08/05/70	87.01	10/16/80	86.91	03/11/86
2.	52.- 82.	4271.	1977-	25.76	09/21/77	40.32	03/11/86	40.32	03/11/86
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	56.84	03/11/86
2.		4277.	1977-	48.51	04/11/78	58.09	03/11/86	58.09	03/11/86
12.	234.- 300.	4286.	1969-	48.00	04/01/69	64.09	08/20/80	62.10	03/11/86
8.		4288.	1981-	59.54	04/17/81	62.31	03/11/86	62.31	03/11/86
17.	137.- 265.	4286.	1970-	34.84	08/05/70	46.36	09/10/80	43.53	03/11/86
10.	175.- 255.	4279.	1980-	30.76	05/02/80	33.11	03/11/86	33.11	03/11/86
10.	160.- 247.	4279.	1980-	33.44	12/12/80	35.07	03/11/86	35.07	03/11/86
8.	191.- 211.	4400.	1977-	160.00	09/19/77	178.11	03/12/86	178.11	03/12/86
13.	218.- 263.	4385.	1973-	165.10	03/11/86	169.00	06/28/73	165.10	03/11/86
		5019.	1984-	233.61	10/23/84	241.33	11/22/85	240.75 241.33	10/29/85 11/22/85
2.	94.- 99.	4963.	1983-	68.70	12/15/83	86.60	10/05/84	85.90 86.20 86.00 85.70 85.50 86.00 86.50	10/08/85 10/11/85 10/15/85 10/18/85 10/23/85 10/30/85 11/22/85
2.	192.- 210.	4958.	1984-	180.90	03/02/84	190.60	11/22/85	190.10 189.90 189.90 190.00 190.10 190.20 190.60	10/08/85 10/11/85 10/15/85 10/18/85 10/23/85 10/30/85 11/22/85
4.	137.- 273.	4927.	1984-	202.99	05/07/84	228.40	10/08/85	228.40 227.44 226.21 225.29	10/08/85 10/11/85 10/15/85 10/18/85

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E19 12ACAB1	391055119473301	USGS	510	U		U	273.
104 N15 E19 12ACBB3	391055119473403	USGS	510	U		U	248.
104 N15 E19 12ACBB4	391055119473404	USGS	510	U		U	279.
104 N15 E19 12ADAA1	391057119471901	CITY OF CARSON	510	P		U	500.
104 N15 E19 12DAAD1	391041119471601	DR WILLIAM R KING	510	H		U	142.
104 N15 E19 12DADD2	391035119471501	CITY OF CARSON	510	P		U	470.
104 N15 E20 04DBDC1	391126119441901	NEVADA-DWR	510	U		U	89.
104 N15 E20 04DBDC2	391126119441902	USGS	510	U		U	33.
104 N15 E20 05B8CA1	391155119460401	NEVADA-DWR	510	U		U	102.
104 N15 E20 05B8CA2	391155119460402	USGS	510	U		U	62.
104 N15 E20 07BBAB1	391110119470501	NEVADA-DWR	510	U		U	150.
104 N15 E20 07CAAA1	391044119464501	H C HEITMILLER	510	I		U	96.
104 N15 E20 07CBAA1	391044119470201	JAMES HARKENRIDER	510	H		U	105.
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 17AADC3	391009119450602	USGS	510	U		U	292.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	137.- 273.	4927.	1984-	202.99	05/07/84	228.40	10/08/85	224.24 223.43 221.09	10/23/85 10/29/85 11/22/85
2.	230.- 248.	4928.	1984-	206.00	03/07/84	230.20	10/08/85	230.20 227.40 226.30 225.70 225.70 224.60 222.80	10/08/85 10/11/85 10/15/85 10/18/85 10/23/85 10/30/85 11/22/85
2.	261.- 279.	4928.	1984-	205.60	03/08/84	230.30	10/08/85	230.30 227.40 226.30 225.80 225.60 224.60 222.80	10/08/85 10/11/85 10/15/85 10/18/85 10/23/85 10/30/85 11/22/85
16.	295.- 300.	4860.	1972-	94.00	07/08/72	164.53	09/07/82	154.30	10/29/85
8.	80.- 150.	4825.	1960-	50.00	01/19/60	107.80	01/05/84	102.15 102.15	10/29/85 11/22/85
12.	136.- 285.	4805.	1961-	33.09	08/05/64	92.97	09/15/81	83.90 82.85	10/29/85 11/23/85
2.	68.- 88.	4682.	1975-	17.10	07/14/86	24.87	01/06/75	17.59 17.10 17.20	03/21/86 07/14/86 08/15/86
2.	30.- 32.	4682.	1977-	16.90	07/14/86	30.01	07/25/77	17.43 16.90 17.00	03/21/86 07/14/86 08/15/86
2.	82.- 102.	4737.	1975-	12.38	02/12/75	51.37	06/24/81	30.62 40.30 38.68	03/21/86 07/14/86 08/15/86
2.		4737.	1977-	24.97	02/17/78	45.25	08/15/86	30.40 45.25	03/21/86 08/15/86
2.		4800.	1975-	44.74	04/21/75	62.38	08/15/86	61.99 62.03 62.18 62.30 62.38	10/29/85 11/22/85 03/21/86 07/14/86 08/15/86
8.		4797.	1984-	45.76	04/23/85	51.52	08/29/85	50.23 50.24	10/29/85 11/22/85
8.	85.- 105.	4802.	1972-	32.00	11/20/72	88.05	07/29/82	80.02 79.60	10/29/85 11/22/85
2.	85.- 105.	4620.	1975-	6.36	03/21/86	13.99	05/16/75	6.36 7.00 7.05	03/21/86 07/14/86 08/15/86
2.	18.- 20.	4620.	1977-	4.05	03/21/86	10.78	07/25/77	4.05 4.10 4.10	03/21/86 07/14/86 08/15/86
2.	82.- 102.	4641.	1975-	0.76	03/23/83	12.20	07/24/79	3.53 11.50 11.90	03/21/86 07/14/86 08/15/86
4.		4650.	1985-	10.50	03/18/85	26.92	05/29/86	26.16 26.77 26.80 26.92	05/15/86 05/27/86 05/28/86 05/29/86
2.	82.- 102.	4680.	1961-	16.90	04/11/83	27.45	07/24/79	17.52 20.50 21.10	03/21/86 07/14/86 08/15/86
18.		4662.	1946-	1.84	03/13/52	23.80	09/17/64	7.26	03/26/86
2.	82.- 102.	4738.	1975-	2.34	01/06/75	18.96	09/17/81	12.00 15.00 15.46	03/21/86 07/14/86 08/15/86
48.		4685.	1962-	19.81	03/26/86	28.63	03/24/82	19.81	03/26/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
104 N15 E20 29DAAB1	390807119450901	NEVADA-DWR	510	U		U	105.
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 01BCCD1	385557119475701	USGS	5	U		U	19.
105 N12 E19 02BDD1	385559119485701	JOHN C FEIL	5	S		U	262.
105 N12 E19 02CBAA1	385556119491501	USGS	5	U		U	22.
105 N12 E19 11CDD1	385439119490901	BLANKENSHIP	5	S		U	60.
105 N12 E19 12CDD1	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.
105 N12 E20 13DDBB1	385413119405001	BARBARA LEE	5	H		U	250.
105 N12 E20 14BABC1	385430119422401	USGS	5	U	110VLFL	U	21.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	80.- 100.	4698.	1975-	27.70	03/12/75	51.14	08/15/86	41.14 50.30 51.14	03/21/86 07/14/86 08/15/86
2.	82.- 102.	4720.	1975-	32.03	02/12/75	45.11	09/07/82	36.60 43.60 42.60	03/21/86 07/14/86 08/15/86
2.	94.- 118.	4732.	1975-	42.10	03/21/86	49.24	09/17/81	42.10 44.30 44.30	03/21/86 07/14/86 08/15/86
2.	13.- 16.	4845.	1977-	0.58	05/06/78	6.01	09/28/77	3.09 2.43 1.90 1.83	12/11/85 03/12/86 06/04/86 08/19/86
1.		4700.	1982-	4.72	07/20/82	7.09	08/22/85	6.22 6.46 5.30 6.54	12/11/85 03/12/86 06/05/86 08/19/86
3.		4696.	1981-	-13.80	12/21/83	-5.20	07/23/81	-12.50 -10.20	06/05/86 08/19/86
		4705.	1982-	5.42	02/09/85	14.20	03/09/82	6.83 6.07 5.87 6.08	12/11/85 03/12/86 06/05/86 08/19/86
4.		4714.	1981-	-19.50	03/30/83	-10.90	08/19/86	-17.50 -16.50 -10.90	03/14/86 06/05/86 08/19/86
1.		4711.	1982-	1.64	06/09/83	6.56	04/06/82	5.84 3.12 3.49 4.34	12/11/85 03/12/86 06/05/86 08/19/86
2.		4795.	1982-	0.05	03/11/86	5.46	02/14/82	3.13 0.05 1.01 2.81	12/10/85 03/11/86 06/04/86 08/18/86
10.		4731.	1981-	-16.10	01/28/83	-12.70	12/11/85	-12.70 -14.50 -15.50 -15.00	12/11/85 03/12/86 06/05/86 08/19/86
12.		4794.	1981-	0.56	08/16/83	4.91	09/18/81	3.19 2.50 0.92 1.29	12/10/85 03/11/86 06/04/86 08/18/86
2.	11.- 21.	4759.	1977-	4.33	06/06/78	9.07	03/28/79	6.22 6.57 4.71 5.08	12/11/85 03/12/86 06/05/86 08/19/86
2.	18.- 21.	4716.	1977-	1.74	06/05/86	6.21	10/11/77	3.88 2.18 1.74 4.80	12/11/85 03/12/86 06/05/86 08/19/86
2.	13.- 15.	4718.	1977-	0.70	03/11/86	3.52	10/11/77	1.53 0.70 1.79 1.94	12/10/85 03/11/86 06/04/86 08/18/86
16.		4769.	1981-	12.45	06/18/81	22.43	04/20/82	20.62 20.10 13.33 13.89	12/11/85 03/11/86 06/04/86 08/18/86
16.		4821.	1981-	23.76	10/11/83	35.91	08/22/85	28.90 27.87 30.47 29.34	12/10/85 03/11/86 06/04/86 08/18/86
6.		5005.	1980-	144.46	03/19/81	147.05	08/18/86	146.88 146.32 147.05	12/10/85 03/11/86 08/18/86
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	6.30	12/10/85

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N12 E20 14BABC1	385430119422401	USGS	5	U	110VLFL	U	21.
105 N12 E20 19ABBB1	385343119464101	USGS	5	U		U	17.
105 N12 E21 05BDCC1	385558119391401	DOUGLAS FIRE DEPT	5	U		U	54.
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.
105 N13 E20 12BCAD1	390025119412701	ALHARA	5	I		U	280.
105 N13 E20 14ADAA1	385944119414501	TOM & SAM NEVIS	5	U		U	301.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	6.31 4.48 3.98	03/12/86 06/05/86 08/19/86
1.		4735.	1982-	1.66	05/19/83	5.65	02/09/82	3.42 2.87 2.60 2.98	12/11/85 03/12/86 06/04/86 08/19/86
8.		5097.	1981-	8.93	03/11/86	15.65	09/22/82	12.59 8.93 10.48	12/10/85 03/11/86 06/04/86
8.	156.- 176.	4810.	1968-	103.01	03/13/86	126.00	12/03/68	122.73 117.35 103.01 104.93 116.23	11/25/85 02/06/86 03/13/86 06/04/86 08/18/86
9.	79.- 159.	4776.	1978-	19.51	05/19/83	51.95	10/21/81	22.18	06/05/86
1.		4673.	1982-	2.53	02/16/82	8.04	08/22/85	8.03 3.99 4.07 7.47	12/11/85 03/12/86 06/04/86 08/19/86
1.		4673.	1982-	1.46	02/16/82	8.65	08/22/85	8.59 4.88 4.43 8.32	12/11/85 03/12/86 06/04/86 08/19/86
4.		4667.	1981-	-18.30	04/23/81	8.69	08/18/81	-12.80 -15.70 -15.00 -6.60	12/11/85 03/12/86 06/04/86 08/19/86
12.	69.- 169.	4760.	1977-	46.82	06/04/86	71.74	10/21/81	58.29 53.37 46.82	12/10/85 03/11/86 06/04/86
2.		4677.	1982-	3.30	02/19/82	6.08	08/22/85	5.87 4.44 4.88 5.97	12/11/85 03/12/86 06/05/86 08/19/86
1.		4677.	1982-	3.05	02/19/82	5.57	08/22/85	5.42 3.83 4.32 5.31	12/11/85 03/12/86 06/05/86 08/19/86
2.	18.- 21.	4681.	1977-	0.79	06/22/82	5.03	09/20/81	3.32 0.96 1.84 3.77	12/11/85 03/12/86 06/05/86 08/19/86
		4685.	1981-	-15.40	06/23/82	-3.80	09/20/81	-13.40 -14.80 -13.60 -9.80	12/11/85 03/12/86 06/04/86 08/19/86
8.		4755.	1981-	16.51	03/11/86	27.39	09/20/81	23.24 16.51 18.72 22.49	12/10/85 03/11/86 06/04/86 08/18/86
		4756.	1981-	31.87	03/21/81	32.95	03/11/86	32.18 32.95 32.02 32.38	12/10/85 03/11/86 06/04/86 08/18/86
2.		4692.	1982-	0.83	03/12/86	18.75	03/23/82	6.05 0.83 2.45 2.98	12/11/85 03/12/86 06/04/86 08/19/86
8.	172.- 182.	4952.	1964-	158.58	11/19/81	173.33	06/04/86	159.79 167.15 173.33 161.70	12/10/85 03/11/86 06/04/86 08/18/86
12.		4990.	1985-	92.08	12/11/85	92.79	06/04/86	92.08 92.59 92.79 92.35	12/11/85 03/11/86 06/04/86 08/18/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
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 23DD 1	385815119413101	TOM & SAM NEVIS	5	I		U	392.
105 N13 E20 26ABBB1	385801119421501	EARL MAY	5	I		U	130.
105 N13 E20 26DDAD1	385729119414501	LISSE	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

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
105 N14 E19 26ABBC1	390315119485001	HARVEY GROSS	5	I		U	
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.
108 N11 E25 10DBCD1	384942119100801	LOUIS G SCAETENA	19	I		U	597.
108 N12 E25 23DCC 1	385255119090501	NAT LOMMORI	19	I		U	325.
108 N13 E25 01DBDD1	390100119075201	BILL BARTELS	19	I		U	505.
108 N13 E25 10CDB 1	390004119103001	W J LAGOMARSINO	19	I		U	328.
108 N13 E25 13CCCD1	385904119083001	LUIGI LOMMORI	19	I		U	306.
108 N13 E25 14CCAA1	385912119092601	CITY OF YERINGTON	19	I		U	330.
108 N13 E25 36DCCA1	385633119074201	R H HOLBROOK	19	I		U	255.
108 N13 E26 02BBCC1	390127119030001	CARROL HASKINS	19	I		U	203.
108 N13 E26 06DBDC1	390059119064301	LANDOLT	16	I		U	241.
108 N13 E26 08CACA1	390011119060201	BARBARA DILLIARD	19	I		U	130.
108 N13 E26 09DBCC1	390006119043901	H H THURSTON	19	I		U	166.
108 N13 E26 31DDCD1	385628119063301	TIBBELS	19	I		U	172.
108 N14 E25 03DDDC1	390558119094701	VINCE DYE	19	I		U	85.
108 N14 E25 04DACC1	390611119110301	LARRY MASINI	19	I		U	451.
108 N14 E25 08ADDC1	390531119115901	JIM CHICO	19	I		U	523.
108 N14 E25 08DCCC1	390507119122801	LARRY MASINI	19	I		U	348.
108 N14 E25 10CCDA1	390509119103401	LARRY MASINI	19	I		U	460.
108 N14 E25 11BDAC1	390538119091301	HERB PENROSE	19	S		U	60.
108 N14 E25 15CDCC1	390416119102901	S BARBER	19	I		U	286.
108 N14 E25 17BBBB1	390501119130001	LARRY MASINI	19			U	
108 N14 E25 18DCCA1	390415119132801		19	U		U	73.
108 N14 E25 27ACCD1	390225119100801	TWOMBLEY POLI RANCH	19	I		U	320.
108 N14 E25 29DCBC1	390233119122401	C J SIMMONS	19	H		U	150.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4776.	1981-	19.23	02/24/83	24.56	08/18/82	19.86	08/18/86
13.	48.- 248.	4740.	1973-	36.10	09/05/86	46.00	11/30/73	36.10	09/05/86
		4835.	1981-	91.79	05/01/81	111.25	08/17/82	103.49 103.14 104.64 104.65	12/10/85 03/11/86 06/04/86 08/18/86
9.	270.- 332.	4900.	1985-	232.01	06/04/86	238.00	05/24/85	232.42 232.28 232.07 232.01 232.41	12/09/85 02/10/86 03/11/86 06/04/86 08/18/86
8.	151.- 301.	4760.	1981-	30.00	07/31/81	129.25	12/19/85	129.25 124.06 120.78	12/19/85 01/31/86 03/17/86
1.		4657.	1982-	2.49	02/24/83	11.66	03/25/82	7.58 3.54 4.85 6.85	12/10/85 03/11/86 06/04/86 08/18/86
2.	11.- 21.	4654.	1977-	2.09	03/11/86	6.43	10/11/77	4.77 2.09 3.36 4.99	12/10/85 03/11/86 06/04/86 08/18/86
2.	11.- 21.	4679.	1977-	1.59	03/12/86	9.54	10/02/77	4.24 1.59 2.74 4.69	12/11/85 03/12/86 06/04/86 08/19/86
13.		4683.	1981-	-1.03	06/04/86	3.52	09/18/81	0.92 -1.03 0.06	12/10/85 06/04/86 08/18/86
16.	183.- 575.	4568.	1961-	68.87	10/26/65	80.77	11/06/84	75.46	03/26/86
16.	104.- 325.	4460.	1965-	7.05	10/20/65	10.87	12/28/81	10.69	03/26/86
16.	240.- 303.	4364.	1977-	6.26	03/10/80	11.14	03/24/82	8.89	03/28/86
14.	94.- 328.	4375.	1960-	6.23	04/03/84	35.00	07/08/60	6.50	03/28/86
16.	103.- 306.	4380.	1961-	1.54	10/14/80	14.00	05/27/61	5.43	03/26/86
16.	140.- 290.	4382.	1963-	5.00	04/03/63	7.88	01/20/83	6.87	03/27/86
14.	40.- 255.	4434.	1965-	10.22	10/28/65	22.12	12/29/81	19.97	03/27/86
12.	64.- 203.	4408.	1961-	65.00	11/04/61	77.65	11/07/84	76.34	03/28/86
14.	95.- 241.	4358.	1961-	5.01	11/07/84	8.00	05/18/61	6.15	03/28/86
13.	50.- 120.	4350.	1973-	11.69	04/03/84	15.00	11/29/77	12.30	03/28/86
12.	60.- 160.	4380.	1956-	43.00	12/15/56	57.96	03/28/86	57.96	03/28/86
13.	90.- 172.	4460.	1960-	37.00	08/04/60	94.00	03/08/79	44.25	03/27/86
16.	91.- 258.	4323.	1977-	7.35	01/20/83	16.40	11/29/77	9.73	03/28/86
16.	97.- 451.	4320.	1981-	4.98	02/01/83	9.99	03/28/86	9.99	03/28/86
16.	89.- 523.	4320.	1981-	6.48	04/02/84	9.54	11/16/81	8.71	03/28/86
16.	107.- 348.	4410.	1976-	6.22	11/07/84	20.00	08/18/76	9.16	03/28/86
16.	448.- 460.	4332.	1974-	8.76	11/07/84	12.67	03/28/86	12.67	03/28/86
6.		4330.	1965-	6.02	10/27/65	11.20	12/23/81	9.45	03/28/86
14.	96.- 286.	4325.	1977-	8.70	10/14/80	18.30	11/29/77	11.60	03/28/86
		4323.	1983-	6.46	11/07/84	8.08	03/28/86	8.08	03/28/86
10.		4345.	1965-	19.70	10/27/65	26.61	12/23/81	23.63	03/28/86
16.	91.- 320.	4351.	1960-	8.90	03/08/77	12.24	03/27/62	11.03	03/28/86
10.	110.- 150.	4390.	1960-	45.00	12/06/60	52.22	04/07/65	48.82	03/28/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
108 N14 E25 34CB 1	390154119104001	ANTONE FARIAS	19	I		U	358.
108 N14 E26 03DCBC1	390606119032901	GENE BINGHAM	19	I		U	160.
108 N14 E26 03DCDD1	390601119031701	GENE BINGHAM	19	I		U	160.
108 N14 E26 26DBAA1	390255119021101	GLENN	19	I		U	157.
108 N14 E26 31DCCC1	390137119065401	JOHN RITTER	19	I		U	239.
108 N14 E26 31DCCC2	390137119065402	JOHN RITTER	19	I		U	400.
108 N14 E26 32ADCA1	390204119052801	LANDOLT	19	I		U	308.
108 N14 E26 32BCCC1	390201119062001	O D GABLE	19	I		U	120.
108 N14 E26 32BCCC2	390201119062002	O D GABLE	19	I		U	249.
108 N14 E26 32BDDD1	390203119055101	JOSEPH MANHA	19	S		U	104.
108 N15 E25 33BCBB1	390727119115301	ALFRED PALMER	19	I		U	428.
108 N15 E25 34ACDD1	390715119095901	LARRY MASINI	19	I		U	370.
110C N06 E31 33BAB 1	382031118315901	SWEETWATER RANCH CO	21	U	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.
118 N03 E36 02BCB 1	380854117565601		9	U	110VLFL	U	145.
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.
127 N17 E35 36AD 1	391749117585101	ANGUS DANGBERG	1	U	110VLFL	U	502.
128 N26 E39 30BBAB1	400600117380001	LITTLE MCCOY RANCH	27	S	110VLFL	U	114.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
131 N30 E42 24CCAD1	402710117124001	USBLM	15	S	110VLFL	U	54.
133 N19 E37 28BCC 1	392903117495001	CHERRY CREEK RANCH	1	S	110VLFL	U	260.
134 N17 E40 08CBA 1	392100117310001	SMITH CREEK RANCH	15	S	110VLFL	W	55.
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RANCH	15	H	110VLFL	W	185.
143 S03 E39 16CA 1	374036117392901		9	S	110VLFL	U	60.
144 S06 E43 05CAD 1	372700117110001		9	S	110VLFL	U	
149 N03 E48 32B 1	380400116380001	JOHN J CASEY	23	S	110VLFL	U	150.
151 N18 E51 34D 1	392310116125001	BARTHOLEMAE CORP	11	S	110VLFL	U	134.
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 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.	103.- 358.	4360.	1961-	10.00	03/30/61	18.29	01/20/83	16.00	03/28/86
12.	87.- 123.	4330.	1959-	1.80	04/02/84	7.80	11/29/77	2.31	03/28/86
12.	87.- 123.	4333.	1983-	4.83	04/02/84	7.43	03/28/86	7.43	03/28/86
12.	80.- 157.	4400.	1980-	78.83	02/16/84	84.75	04/02/84	81.28	03/28/86
16.	87.- 239.	4349.	1977-	6.34	11/07/84	11.20	11/29/77	7.22	03/28/86
16.	120.- 400.	4342.	1981-	7.44	01/23/83	17.00	10/13/81	8.19	03/28/86
14.	100.- 308.	4350.	1961-	5.07	10/28/65	9.98	12/29/81	8.96	03/28/86
12.	40.- 120.	4345.	1960-	4.00	07/03/60	13.25	11/29/77	6.45	03/28/86
14.	47.- 247.	4345.	1977-	5.31	01/19/83	21.00	08/01/77	6.32	03/28/86
6.	94.- 103.	4350.	1949-	4.00	07/16/49	8.99	11/19/81	7.81	03/28/86
16.	114.- 428.	4304.	1981-	1.38	04/02/84	5.32	11/16/81	4.27	03/28/86
16.	123.- 169.	4310.	1976-	1.71	04/02/84	10.40	11/29/77	4.90	03/28/86
6.		5566.	1948-	34.79	05/11/48	60.61	03/19/86	60.61	03/19/86
10.	32.- 132.	5566.	1966-	36.43	02/15/66	61.27	03/19/86	61.27	03/19/86
18.	441.- 696.	4125.	1954-	33.30	03/19/86	117.86	09/27/65	33.30	03/19/86
2.	60.- 62.	4056.	1968-	31.69	03/18/68	35.72	03/19/86	35.72	03/19/86
18.	328.- 345.	4140.	1952-	95.10	11/21/52	109.10	04/28/83	107.61	03/19/86
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	213.19	03/19/86
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	280.12	03/19/86
18.	264.- 436.	4372.	1952-	242.60	11/21/52	264.47	03/19/86	264.47	03/19/86
2.	16.- 18.	4010.	1968-	8.54	04/23/73	10.05	03/19/86	10.05	03/19/86
2.	39.- 41.	4039.	1968-	18.75	03/18/68	22.15	03/19/86	22.15	03/19/86
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	34.35	04/16/86
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	41.44	03/21/86
10.		4570.	1961-	36.68	12/13/61	40.08	05/03/83	39.92	03/20/86
8.		4160.	1955-	216.68	01/13/55	224.94	03/23/64	218.49	03/24/86
8.		5250.	1950-	27.00	02/00/50	127.50	05/08/75	108.63	03/24/86
6.		3730.	1968-	76.25	03/20/68	96.54	05/02/78	91.69	04/07/86
16.		4240.	1963-	12.64	03/12/86	21.57	03/21/65	12.64	03/12/86
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	11.21	03/20/86
6.		5360.	1974-	161.46	04/21/86	176.56	03/16/74	161.46	04/21/86
6.		6054.	1966-	6.96	03/21/77	13.36	12/02/81	7.03	03/24/86
48.		6000.	1968-	21.74	06/20/84	36.92	03/19/68	22.67	03/24/86
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69	47.26	04/17/86
8.		4622.	1967-	283.74	03/07/79	292.75	03/19/69	289.01	04/17/86
6.		5500.	1962-	107.56	03/20/86	113.42	05/04/72	107.56	03/20/86
6.		6330.	1951-	93.69	03/16/66	96.11	04/19/71	94.42	03/27/86
36.		5930.	1946-	33.19	09/15/54	43.96	09/11/63	36.35	04/14/86
48.		5987.	1962-	50.12	03/19/81	62.82	09/11/63	53.31	04/14/86
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58	46.22	04/15/86
14.	30.- 168.	2558.	1952-	15.43	02/02/59	29.94	03/06/81	29.42	04/15/86
10.		2684.	1947-	32.20	05/28/53	48.06	04/15/86	48.06	04/15/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
170 S03 E55 05BDD 1	374256115485501		17	S	110VLFL	W	20.
172 N04 E58 36A 1	381000115240001	USBLM	23	S	110VLFL	U	27.
173B N11 E57 09CD 1	384920115343001	USBLM	23	S	110VLFL	U	354.
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.
189D N40 E69 13D 1	412100114060001	GAMBLE RANCH	7	S	110VLFL	U	
203 S01 E68 33B 1	374910114231001	LAVON PHILLIPS	17	I	110VLFL	U	120.
203 S02 E68 08B 5	374750114242001	USGS	17	U	110VLFL	U	110.
203 S03 E67 02A 1	374317114265801	GRANT LEE	17	I	110VLFL	U	225.
205 S09 E67 14BDBA2	371012114280302		17	I		U	55.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.
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 E61 31ADDC1	361515115112301	BILL KNECHT	3	U		U	100.
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.
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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		5080.	1968-	18.73	01/18/77	22.92	04/15/86	22.92	04/15/86
10.		5260.	1963-	24.04	03/12/85	26.62	04/22/71	24.20	04/15/86
6.		5072.	1948-	163.10	03/20/86	177.61	09/16/49	163.10	03/20/86
48.		6150.	1948-	14.61	04/24/73	42.11	04/03/81	36.56	04/16/86
6.		6000.	1949-	0.35	04/22/83	3.85	03/07/77	0.61	04/16/86
2.		6000.	1960-	0.75	03/31/70	7.48	09/21/61	1.92	04/16/86
6.		5650.	1941-	5.45	04/20/83	11.07	05/03/55	5.47	04/16/86
6.		6160.	1950-	59.85	04/21/69	66.18	08/07/84	65.15	04/15/86
16.		6520.	1951-	30.25	06/12/84	41.83	03/10/61	31.75	03/20/86
60.		5250.	1950-	7.07	04/25/85	15.21	02/28/68	8.28	04/22/86
6.		4800.	1968-	5.69	03/13/74	9.30	03/28/68	7.62	04/23/86
10.	60.- 80.	4850.	1946-	30.32	04/25/86	41.63	03/11/81	37.79	03/26/86
8.		4720.	1949-	10.72	03/20/50	22.82	08/27/64	17.06	03/26/86
10.		4605.	1962-	20.74	02/24/62	24.73	03/26/86	24.73	03/26/86
16.		2670.	1977-	25.04	03/13/84	33.00	01/21/77	32.13	03/17/86
48.		5400.	1965-	30.00	03/12/68	31.83	03/24/65	30.56	04/15/86
6.		5600.	1962-	44.21	03/27/85	53.51	04/13/78	46.96	04/15/86
12.		4200.	1973-	88.60	03/23/73	198.87	03/26/86	198.87	03/26/86
10.		4000.	1955-	60.39	09/15/55	72.73	02/22/65	62.96	03/18/86
6.		3550.	1960-	5.85	02/23/63	11.76	01/18/77	10.83	03/26/86
10.		3020.	1952-	14.82	04/13/83	28.06	02/24/76	19.69	03/26/86
9.	180.- 300.	2200.	1980-	123.74	02/24/81	143.85	09/16/86	133.98 134.46 141.49 143.85	01/07/86 03/12/86 06/26/86 09/16/86
		2185.	1971-	72.91	02/22/71	98.08	03/12/86	94.68 98.08	01/07/86 03/12/86
14.	370.-	1867.	1972-	97.38	09/15/86	139.05	02/24/72	100.87 99.01 98.23 97.38	01/09/86 04/11/86 06/25/86 09/15/86
8.		2224.	1971-	23.47	09/24/85	87.30	02/22/72	26.90 27.35 26.45 24.73	01/06/86 04/08/86 06/27/86 09/10/86
4.	80.- 84.	1919.	1979-	60.94	05/01/81	65.12	06/25/84	62.83 62.20 62.87 64.36	01/09/86 03/14/86 06/30/86 09/15/86
12.	150.- 900.	1973.	1974-	39.50	03/01/77	96.15	06/26/86	67.91 61.62 96.15 90.00	01/09/86 04/11/86 06/26/86 09/15/86
4.	58.- 62.	1920.	1979-	37.63	03/09/83	46.99	03/14/86	43.02 46.99 43.80 42.69	01/09/86 03/14/86 06/26/86 09/16/86
4.	43.- 46.	1910.	1981-	27.55	03/02/81	29.71	09/16/86	29.35 29.28 29.70 29.71	01/09/86 03/14/86 06/26/86 09/16/86
10.	300.- 500.	2208.	1978-	213.07	02/28/78	236.24	09/24/85	214.79 233.43 233.70 228.40	01/07/86 03/12/86 06/30/86 09/10/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S20 E61 22DACD 1	361120115080401	CITY NLV	3	P	110VLFL	U	1105.
212 S20 E61 27BDAA 1	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 08BABA 1	361337115042501	NEVADA DRIVE IN	3	C		U	200.
212 S20 E62 09CCC 1	361258115032101	NELLIS AFB	3	P		U	650.
212 S20 E62 29DCAB 1	361036115040401		3	U	110VLFL	W	98.
212 S21 E60 15BBDC 1	360739115152701	WELLS CARGO	3	N		U	680.
212 S21 E60 35ADAB 1	360444115132301	FRANK KIM	3	H	110VLFL	U	500.
212 S21 E61 01ACCC 1	360908115062901	USGS	3	U		U	24.
212 S21 E61 03AAAD 1	360924115081101	USGS	3	U	110VLFL	U	15.
212 S21 E61 04ABC 1	360921115093601	USGS	3	U		U	17.
212 S21 E61 14ACA 1	360728115072901		3	I		U	750.
212 S21 E61 16CA 3	360719115095903	SANDS HOTEL	3	P		U	840.
212 S21 E61 17BADD 1	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.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
30.	249.-1019.	1911.	1973-	17.35	02/22/80	51.70	09/25/85	20.57 19.40 21.56 25.20	01/09/86 03/14/86 06/30/86 09/16/86
4.	11.- 15.	2010.	1979-	9.35	04/25/81	13.06	06/14/85	10.95 12.23 12.23 11.54	01/09/86 03/14/86 06/26/86 09/16/86
4.	27.- 31.	2000.	1981-	8.04	09/10/86	11.92	03/02/81	9.88 10.17 8.48 8.04	01/07/86 03/12/86 06/30/86 09/10/86
4.	14.- 18.	2155.	1981-	8.17	09/10/86	13.21	03/02/81	9.35 9.62 9.22 8.17	01/07/86 03/13/86 06/25/86 09/10/86
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	58.20 55.75 65.44 67.80	01/10/86 03/10/86 06/25/86 09/10/86
4.	18.- 22.	2010.	1981-	5.64	03/26/85	8.77	07/20/83	6.45 6.75 7.55 7.17	01/10/86 03/19/86 06/26/86 09/16/86
8.		1860.	1973-	74.10	03/22/85	84.48	03/05/74	78.45	01/09/86
14.	290.- 630.	1827.	1973-	82.20	03/03/82	167.70	09/15/86	90.65 86.85 167.70 123.62	01/09/86 04/11/86 09/15/86 09/22/86
8.		1766.	1971-	39.78	09/25/85	75.06	10/12/77	40.23 40.04 39.96 40.08	01/09/86 03/13/86 06/30/86 09/11/86
10.	380.- 680.	2480.	1969-	362.30	09/13/84	467.97	01/07/86	467.97 432.00	01/07/86 09/12/86
8.	230.- 295.	2359.	1971-	257.88	03/04/71	338.23	09/13/84	308.82	04/11/86
4.	20.- 24.	1840.	1979-	7.02	02/26/80	8.00	11/04/82	7.68 7.59 7.60 7.75	01/09/86 03/13/86 06/25/86 09/15/86
4.	11.- 15.	1990.	1979-	6.96	06/20/85	8.67	06/27/84	7.50 7.41 7.50 7.60	01/10/86 03/14/86 06/26/86 09/10/86
4.	13.- 14.	2047.	1981-	8.78	09/13/84	10.02	09/10/86	9.32 9.16 9.66 10.02	01/10/86 03/14/86 06/25/86 09/10/86
16.	500.- 746.	1930.	1961-	23.53	01/09/86	60.92	04/12/85	23.53 26.44	01/09/86 03/14/86
13.	260.- 820.	2090.	1968-	95.46	03/03/82	171.50	09/19/86	117.75 125.83 171.50	01/10/86 03/20/86 09/19/86
4.	41.- 45.	2120.	1979-	17.18	09/16/86	26.69	02/26/80	21.96 21.80 20.02 17.18	01/07/86 03/18/86 06/25/86 09/16/86
6.		2072.	1940-	-35.60	01/24/43	93.72	07/10/78	54.94 51.97 84.70 84.02	01/10/86 03/14/86 06/26/86 09/12/86
4.	20.- 24.	1950.	1981-	11.18	09/13/84	14.30	03/02/81	12.26 13.86 13.62 13.10	01/08/86 03/14/86 06/25/86 09/12/86

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
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.
212 S22 E61 10CCD 1	360235115090301	LEWIS J DEATCH	3	H		U	300.
212 S22 E62 04CCCC1	360322115030801	CITY OF HENDERSON	3	U		U	780.
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

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
10.		2125.	1970-	34.00	02/01/70	40.06	03/11/74	35.42 35.53 35.53 35.00	01/10/86 03/14/86 06/26/86 09/12/86
8.		2140.	1970-	62.36	02/12/73	116.95	07/12/78	88.23 88.38 104.99 109.46	01/10/86 03/14/86 06/26/86 09/12/86
2.	23.- 26.	1948.	1977-	17.00	08/03/77	25.39	09/11/86	22.17 21.26 23.15 25.39	01/08/86 03/07/86 06/25/86 09/11/86
9.	50.- 200.	1731.	1971-	11.89	01/08/86	21.00	09/15/71	11.89 14.23 14.95 15.89	01/08/86 04/11/86 06/26/86 09/11/86
4.	7.- 11.	1730.	1981-	3.80	06/25/81	9.70	09/11/84	7.71 7.05 7.30 8.32	01/08/86 03/13/86 06/26/86 09/11/86
4.	23.- 27.	1665.	1981-	16.76	09/11/84	19.85	03/02/81	19.09 19.15 18.65 17.99	01/08/86 03/07/86 06/25/86 09/15/86
8.	610.- 710.	2810.	1963-	473.00	02/25/63	498.04	03/14/83	478.14 477.48 493.87 479.90	01/07/86 03/13/86 06/24/86 09/10/86
4.	51.- 55.	2032.	1981-	46.22	03/26/85	52.33	06/25/86	49.20 49.03 52.33	01/08/86 03/07/86 06/25/86
8.		2165.	1955-	40.00	07/01/55	104.17	12/14/83	94.58 97.11 95.04 95.52	01/07/86 03/13/86 06/26/86 09/12/86
8.	168.- 300.	2160.	1970-	90.00	06/13/70	126.00	09/11/86	114.67 106.90 125.65 126.00	01/08/86 04/08/86 06/27/86 09/11/86
8.	430.- 690.	1798.	1973-	-5.50	02/26/78	2.50	02/23/73	-2.80 -5.50 -5.50 -2.30	01/08/86 03/13/86 06/03/86 09/19/86
14.	460.- 630.	2030.	1971-	314.92	06/25/86	346.30	02/21/84	315.79 315.24 314.92 315.20	01/08/86 03/07/86 06/25/86 09/11/86
16.	69.- 111.	520.	1985-	20.25	05/21/86	25.90	12/04/85	25.90 23.86 20.25	12/04/85 03/04/86 05/21/86
11.	240.- 480.	727.	1970-	225.03	08/20/86	243.00	10/00/70	231.11 231.49 225.03	12/04/85 03/04/86 08/20/86
12.	70.- 102.	510.	1985-	12.43	08/19/86	14.82	12/04/85	14.82 14.63 12.43	12/04/85 03/04/86 08/19/86
6.		507.	1967-	17.02	07/11/85	26.42	11/27/67	19.20	12/04/85
7.	95.-	511.	1973-	15.40	12/04/85	25.67	04/07/76	15.40 16.15 19.37 15.75	12/04/85 03/04/86 05/21/86 08/19/86
12.		2375.	1955-	103.10	02/12/55	116.24	04/15/86	116.24	04/15/86
12.		2395.	1960-	33.24	02/16/65	37.75	03/24/83	35.64	04/15/86

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

STATION NUMBER	LOCAL WELL NO	STATION NAME	COUNTY	GEO-LOGIC UNIT	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	108.00	510
350723114364201	213 S32 E66 33AAA 1	B. LAUGHLIN (KNIGHT) WELL	003	111FLDP	50.00	507
350726114375501	213 S32 E66 33BBB 1	CROMER WELL	003	111FLDP	96.00	511
350910114344001	213 S32 E66 24BBA 1	SUNDANCE SHORES WELL	003	110VLFL	480.00	727
350931114341601	213 S32 E66 13DB 1	BIG BEND WELL 1 AREA 1	003	111FLDP	111.00	520

STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH, FIELD (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS NONCARB WH WAT TOT FLD (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
350721114380301	12-04-85	1030	14.80	1400	7.90	18.0	23.0	410	210	110
	03-04-86	1330	14.63	1450	7.60	32.0	--	420	200	110
	05-21-86	0900	--	1370	7.70	30.0	23.0	440	210	120
	08-19-86	0800	12.43	1250	7.80	33.0	23.0	410	180	110
350723114364201	12-04-85	1145	19.20	1100	7.70	19.0	18.0	320	160	87
	08-19-86	1330	--	1000	7.60	42.0	18.5	310	150	84
350726114375501	12-04-85	1115	15.40	1380	7.80	18.0	21.0	460	180	120
	03-04-86	1045	16.15	1370	7.50	28.0	21.0	430	130	110
	05-21-86	0947	19.37	1350	7.60	32.0	20.5	470	140	120
	08-19-86	1520	15.75	1300	7.50	44.0	21.0	460	160	120
350910114344001	12-04-85	1245	231.10	1330	7.60	19.5	27.5	280	150	81
	03-04-86	1158	231.49	1350	7.30	32.0	27.5	290	160	83
	05-21-86	0830	--	1300	7.60	29.0	28.0	310	180	88
	08-20-86	0930	226.82	1220	7.50	38.0	27.5	290	160	84
350931114341601	12-04-85	0945	25.90	1130	8.00	17.0	16.0	340	200	95
	03-04-86	1245	23.86	1150	7.70	33.0	17.0	340	180	97
	05-21-86	0715	20.25	1120	7.90	--	--	340	180	95
	08-19-86	0945	35.44	1050	7.50	36.0	16.5	310	160	87

STATION NUMBER	DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
350721114380301	12-04-85	34	130	3	4.6	205	370	120	0.40	20
	03-04-86	35	130	3	5.1	214	350	110	0.40	20
	05-21-86	35	130	3	4.9	231	330	100	0.30	20
	08-19-86	32	120	3	4.5	226	300	99	0.40	20
350723114364201	12-04-85	26	100	3	3.5	168	270	92	0.40	16
	08-19-86	25	100	3	3.8	161	280	85	0.30	17
350726114375501	12-04-85	38	110	2	3.5	280	300	110	0.30	18
	03-04-86	38	110	2	3.6	299	270	100	0.30	18
	05-21-86	41	120	2	3.7	324	230	95	0.20	20
	08-19-86	39	120	3	3.6	297	200	90	0.30	19
350910114344001	12-04-85	20	150	4	3.4	132	210	210	0.90	29
	03-04-86	20	140	4	3.7	133	200	200	0.90	29
	05-21-86	21	150	4	3.7	126	200	190	0.90	31
	08-20-86	20	140	4	3.5	135	200	200	0.80	30
350931114341601	12-04-85	24	100	2	3.8	132	300	91	0.30	16
	03-04-86	24	100	2	4.1	159	280	84	0.30	16
	05-21-86	24	110	3	4.0	155	260	86	0.30	16
	08-19-86	22	97	2	3.7	151	280	82	0.30	15

QUALITY OF GROUND-WATER--Continued

259

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

STATION NUMBER	DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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	12-04-85	932	910	<0.100	3.1	4	--	150	--	--
	03-04-86	933	890	<0.100	4.6	4	--	170	--	--
	05-21-86	902	880	<0.100	2.6	4	85	160	<1	<10
	08-19-86	855	820	<0.100	4.3	4	--	160	--	--
350723114364201	12-04-85	718	700	<0.100	2.2	4	--	140	--	--
	08-19-86	703	690	<0.100	2.2	4	--	140	--	--
350726114375501	12-04-85	862	870	<0.100	2.9	3	--	150	--	--
	03-04-86	863	830	<0.100	3.5	4	--	150	--	--
	05-21-86	868	830	<0.100	2.7	4	37	200	<1	<10
	08-19-86	799	770	<0.100	3.5	4	--	190	--	--
350910114344001	12-04-85	779	780	1.40	0.4	<1	--	140	--	--
	03-04-86	783	760	1.40	--	<1	--	130	--	--
	05-21-86	787	760	1.40	0.1	<1	36	150	<1	<10
	08-20-86	769	760	1.30	--	<1	--	140	--	--
350931114341601	12-04-85	732	710	<0.100	1.3	4	--	130	--	--
	03-04-86	740	700	<0.100	1.3	4	--	120	--	--
	05-21-86	721	690	<0.100	1.3	5	61	130	<1	<10
	08-19-86	688	680	<0.100	1.8	3	--	130	--	--

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	12-04-85	--	52	--	840	--	--	--	--
	03-04-86	--	14	--	860	--	--	--	--
	05-21-86	<1	<3	1	830	<0.1	<1	<1	6
	08-19-86	--	5	--	760	--	--	--	--
350723114364201	12-04-85	--	70	--	590	--	--	--	--
	08-19-86	--	20	--	540	--	--	--	--
350726114375501	12-04-85	--	210	--	460	--	--	--	--
	03-04-86	--	190	--	450	--	--	--	--
	05-21-86	1	230	3	490	<0.1	<1	<1	8
	08-19-86	--	48	--	460	--	--	--	--
350910114344001	12-04-85	--	34	--	8	--	--	--	--
	03-04-86	--	27	--	5	--	--	--	--
	05-21-86	3	21	2	5	<0.1	1	<1	22
	08-20-86	--	15	--	1	--	--	--	--
350931114341601	12-04-85	--	54	--	250	--	--	--	--
	03-04-86	--	85	--	250	--	--	--	--
	05-21-86	<1	40	<1	260	<0.1	<1	<1	13
	08-19-86	--	54	--	230	--	--	--	--

NEVADA HIGH-ALTITUDE PRECIPITATION NETWORK

STATION NAME	SITE ID	LATITUDE	LONGITUDE	ALTITUDE IN FEET	PERIOD OF COLLECTION	INCHES OF PRECIPITATION
CAVE MOUNTAIN	390946114364901	390946	1143649	10,650	10/01/85 TO 05/28/86 05/28/86 TO 10/22/86	10.32 7.92
NW OF MT. MORIAH	391913114143101	391913	1141431	9,300	10/01/85 TO 05/28/86 05/28/86 TO 11/04/86	18.36 6.48
MT. WILSON	381438114233301	381438	1142333	9,200	10/01/85 TO 05/28/86 05/28/86 TO 11/11/86	16.56 9.96
MT. WASHINGTON	385409114185401	385409	1141854	10,400	10/01/85 TO 05/22/86 05/22/86 TO 11/04/86	24.00 7.32
BECKY PEAK	395819114355301	395819	1143553	9,950	10/01/85 TO 05/28/86 05/28/86 TO 11/04/86	14.28 5.76
WARD MOUNTAIN	390457114542501	390457	1145425	10,300	10/01/85 TO 05/28/86 05/28/86 TO 11/04/86	48.72 6.72
MT. HAMILTON	391436115323901	391436	1153239	10,600	10/01/85 TO 05/28/86 05/28/86 TO 11/04/86	19.20 5.52
CHERRY CREEK RANGE	400726114524701	400726	1145247	9,700	10/01/85 TO 05/28/86 05/28/86 TO 11/04/86	13.68 5.28
ALPHA PEAK	393235115502601	393235	1155026	8,500	10/01/85 TO 11/05/86	20.04
LAMOILLE OVERLOOK	403551115234201	403235	1155026	10,200	10/01/85 TO 06/06/86	63.96
LEE CANYON	361822115402501	361822	1154025	8,510	07/25/85 TO 10/15/85 10/15/85 TO 05/23/86 05/23/86 TO 11/12/86	2.12 18.60 7.15
KYLE CANYON	361457115373301	361457	1153733	7,760	07/25/85 TO 10/15/85 10/15/85 TO 05/23/86 05/23/86 TO 11/12/86	1.87 25.00 3.63
TROUGH SPRING	362240115462101	362240	1154621	8,240	07/25/85 TO 10/16/85 10/16/85 TO 11/10/86	2.87 21.77
SHEEP PEAK	363500115144301	363500	1151443	9,600	07/17/85 TO 10/21/85 10/21/85 TO 05/28/86	12.11 7.50
HAYFORD PEAK	363929115115801	363929	1151158	9,840	07/17/85 TO 10/21/85 10/21/85 TO 05/28/86 05/28/86 TO 11/11/86	14.93 16.25 4.00
POTOSI PEAK	355641115294601	365641	1152946	8,080	07/18/85 TO 10/21/85 10/21/85 TO 05/28/86	0.15 17.75

	Page		Page
Accuracy of records	14	Colorado River, below Davis Dam, AZ-NV	89-92
Acre-foot, definition of	20	below Hoover Dam, AZ-NV	80-87
Access to WATSTORE data	19	Comus, Humboldt River at	155
Adenosine triphosphate, definition of	20	Contents, definition of	21
Algae, definition of	20	Control, definition of	21
Algal growth potential, definition of	20	Control structure, definition of	21
Amargosa Desert, crest-stage partial-record stations in	215	Conversion factors, U.S. customary units to International System (SI) units	Back cover
Aquifer, definition of	20	Cooperation	1
Artesian, definition of	20	Corn Creek Spring at National Fish & Wildlife Headquarters	60, 61
Artificial substrate, definition of	25	Crest-stage partial-record stations, discharge at	212-216
Ash Canyon Creek near Carson City	137	Crystal Bay, Third Creek near	165
Ash mass, definition of	20	Crystal Spring near Hiko	45, 46
Austin, Kingston Creek below Cougar Canyon near	110	Cubic foot per second, definition of	21
Stoneberger Creek near	106	Cubic-foot-per-second day, definition of	21
Bacteria, definition of	20	Cubic foot per second per square mile, definition of	21
Battle Mountain, Rock Creek near	154	Current, Little Current Creek near	107
Bed load, definition of	24	Davis Dam, AZ-NV, Colorado River below at Lake Mohave	88
Bed load discharge, definition of	24	Deeth, Marys River near	146
Bed material, definition of	20	Definition of terms	20-26
Belmont, Pine Creek near	104	Diatoms, definitions of	23
Mosquito Creek near	105	Discharge, definition of	21
Big Smoky Valley (Northern Part), gaging-station records in	110-113	Discharge at partial-record stations and miscellaneous sites	217-220
North Twin River near Round Mountain	222	Dissolved, definition of	21
Biochemical oxygen demand, definition of	20	Dissolved-solids concentration, definition of	21
Biomass, definition of	20	Dixie Valley Basin, crest-stage partial-record stations in	214
Black Rock Desert basin, crest-stage partial-record stations in	216	Downstream order system	10
gaging station records in	203, 204	Drainage area, definition of	21
Blue-green algae, definition of	23	Drainage basin, definition of	21
Bottom material, definition of	20	Dry mass, definition of	20
Boulder City, Las Vegas Wash near	75-77	Duck Creek near Cherry Creek	100
Bridgeport, CA, Bridgeport Reservoir near	118	Eagle Valley Creek at Carson City	138
East Walker River near	119	East Fork Carson River near Gardnerville below Markleeville Creek, near Markleeville	131
Little Walker River near	121	East Las Vegas, Las Vegas Wasteway near	62-66
Lower Twin Lake near	117	East Walker River, above Strosnider ditch, near Mason	120
Upper Twin Lake near	116	near Bridgeport, CA	119
Bridgeport Reservoir near Bridgeport, CA	118	Edgewood Creek near Stateline	134-177
Bruneau River at Rowland	207	Elko, Humboldt River near	149
Bruneau River basin, gaging-station records in	207	Ely, Cleve Creek near	96
Buckeye Creek near Minden	133	Steptoe Creek near	97-99
Caliente, Meadow Valley Wash near	52	Explanation of records	10
Carlin, Humboldt River near	150-152	Carson River below Lahontan Reservoir near	144
Carson City, Ash Canyon Creek near	137	Lahontan Reservoir near	143
Carson River at Tarzyn Road near Fallon	145	Fallon, Carson River at Tarzyn Road	145
Carson River near	135	Farad, CA, Truckee River at	180
Eagle Valley Creek at	138	Fecal coliform bacteria, definition of	20
Franktown Creek near	183	Fecal streptococcal bacteria, definition of	20
Kings Canyon Creek near	136	Fort Churchill, Carson River near	139-142
Marlette Creek near	167	Franktown Creek near Carson City	183
Marlette Lake near	166	Gabbs Valley, crest-stage partial-record stations in	214
Washoe Lake near	184	Gage height, definition of	21
Carson River near Carson City	135	Gaging station, definition of	21
below Lahontan Reservoir near Fallon	144	Gaging-station records	37-209
East Fork near Gardnerville	131	Gaging stations, in downstream order, for which records are published	31, 32
East Fork below Markleeville Creek near Markleeville, CA	130	Galena Creek at Galena Creek State Park	186
near Carson City	135	near Steamboat	187
near Fort Churchill	139-142	Gance Creek near Tuscarora	148
West Fork at Woodfords, CA	134	Gardnerville, East Fork Carson River near	131
Carson River Basin, crest-stage partial-record stations in	215	Pine Nut Creek near	132
gaging-station records in	130-145	Gerlach, South Willow Creek near	205
Cells/volume, definition of	21	Glenbrook, Logan House Creek near	168-172
Charleston Park, Lee Canyon near	59	Glendale, Muddy River near	53
Charleston Peak, Peak Spring Canyon Creek near	114	Gold Creek, Owyhee River near	209
Chemical oxygen demand, definition of	21	Wild Horse Reservoir near	208
Cherry Creek, Goshute Creek near	101	Goshute Creek near Cherry Creek	101
near Duck Creek	100	Great Basin, gaging-station records in	93-205
Chlorophyll, definition of	21	Great Salt Lake Desert, crest-stage partial-record stations in	214
Clark, Truckee River at	191-194	Great Salt Lake Desert, gaging station records in	93-95
Cleve Creek near Ely	96	Green algae, definition of	23
Coleville, CA, West Walker River below Little Walker River near	122	Ground-water levels	17, 18
West Walker River near	123	Ground-water quality	18, 19
Color unit, definition of	21		
Colorado River basin, gaging-station records in	37-92		
Colorado River main stem, gaging-station records in	78-92		

	Page		Page
Ground-water records	226-257	Lower Twin Lake near Bridgeport, CA	117
Ground-water levels,		Markleeville, CA, East Fork Carson River below	130
Primary observation wells	226-231	Markleeville Creek near	167
Secondary observation wells	232-257	Marlette Creek near Carson City	166
Ground-water quality, data on	258, 259	Marlette Lake near Carson City	157
Hamilton, Illipah Creek near	102	Martin Creek near Paradise Valley	146
Newark Valley tributary near	103	Marys River above Hot Springs Creek	
Hardness, definition of	21	near Deeth	120
Hawthorne, Walker Lake near	115	Mason, East Walker River above	203
Hazen, Truckee Canal near	196	Strosnider Ditch near	52
Henderson, Las Vegas Wash near	67-71	McDermitt, McDermitt Creek near	24
at Powerline Crossing below	72-74	Meadow Valley Wash near Caliente	21
Hiko, Crystal Spring near	45, 46	Mean concentration, definition of	22
Hoover Dam, AZ-NV, Colorado River below	80-87	Mean discharge, definition of	22
Lake Mead at	78, 79	Measuring point, definition of	22
Hot Creek and Northern Railroad Valleys,		Metamorphic stage, definition	22
gaging station records in	107, 108	Methylene blue active substances, definition of	22
Hualapai Flat, gaging-station records in	205	Micrograms per gram, definition of	22
Hudson, West Walker River near	126	Micrograms per liter, definition of	22
Humboldt River, at Comus	155	Milligrams of carbon per area or volume per unit	
at Palisade	153	time [mg C/(m ² .time)] for periphyton and	23
near Carlin	150-152	macrophytes and [mg C/m ³ .time)] for	
near Elko	149	phytoplankton	23
near Imlay	158, 159	Milligrams of oxygen per area or volume per	
near Kye Patch	161	unit time (mgO / (m ² .time)] for periphyton	23
Humboldt River basin, crest-stage		and macrophytes and [mgO / m ³ .time)] for	23
partial-record stations in	215, 216	phytoplankton	23
gaging-station records in	146-163	Milligrams per liter, definition of	23
low-flow partial-record stations in	211	Minden, Buckeye Creek near	133
Hydrographic areas, list of	223	Miscellaneous sites, discharge at	217-220
Hydrologic Bench-Mark Network	21	Moapa, Muddy River near	51
Hydrologic unit, definition of	22	near Warm Springs West	49, 50
Hydrologic conditions during current year	2-9	at L.D.S. Farm	47, 48
Illipah Creek near Hamilton	102	Monitor Valley-Diamond Valley system,	
Imlay, Humboldt River near	158, 159	gaging station records in	104-106
Indian Springs Valley, crest-stage partial-		Monitor Valley-Diamond Valley system, crest-stage	
record stations in	215	partial-record stations in	214
Instantaneous discharge, definition of	21	Montello, Thousand Springs Creek near	95
Introduction	1	Mosquito Creek near Belmont	105
Jakes Valley, crest-stage partial-record		Muddy River, above Lake Mead near Overton	54-56
stations in	214	near Glendale	53
gaging-station records in	102	near Moapa	51
Kings Canyon Creek near Carson City	136	at L.D.S. Farm near Moapa	47, 48
Kings River near Orovada	204	National Fish & Wildlife Headquarters,	
Kingston Creek below Cougar Canyon		Corn Creek Spring at	60, 61
near Austin	110	National Geodetic Vertical Datum, definition of	22
Lahontan Reservoir near Fallon	143	National Stream-Quality Accounting Network	22
Lake Mead, at Hoover Dam, AZ-NV	78, 79	National Trends Network, definition of	22
Lake Mohave at Davis Dam, AZ-NV	88	Newark Valley tributary near Hamilton	103
Lake Tahoe at Tahoe City, CA	178	Nixon, Pyramid Lake near	164
Lakes and reservoirs:		Truckee River near	199-202
Bridgeport Reservoir near Bridgeport, CA	118	Numbers, station identification	10, 11
Lahontan Reservoir near Fallon	143	Organic mass, definition of	20
Lake Mead, at Hoover Dam, AZ-NV	78, 79	Organism, definition of	22
Little Washoe Lake near Steamboat	185	Organism count/volume, definition of	22
Lower Twin Lake near Bridgeport, CA	117	Orovada, Kings River near	204
Marlette Lake near Carson City	166	Other records available on surface-water	
Pyramid Lake near Nixon	164	quantity	14
Rye Patch Reservoir near Rye Patch	160	Overton, Muddy River above Lake Mead near	54-56
Topaz Lake near Topaz, CA	124	Overton Beach, Rogers Spring near	57, 58
Upper Twin Lake near Bridgeport, CA	116	Owyhee River, near Gold Creek	209
Walker Lake near Hawthorne	115	gaging-station records in	208, 209
Washoe Lake near Carson City	184	Palisade, Humboldt River at	153
Wild Horse Reservoir near Gold Creek	208	Paradise Valley, Little Humboldt River near	156
Lamoille Creek near Lamoille	147	Martin Creek near	157
Land-surface datum, definition of	22	Parameter code, definition of	22
Las Vegas Valley, crest-stage partial-record		Partial-record stations, definition of	22
stations in	212, 213	Particle size, definition of	22
gaging-station records in	59-77	Particle size classification, definition of	23
Las Vegas Wash, near Boulder City	75-77	Peak Spring Canyon Creek near Charleston Peak	114
near Henderson	67-71	Percent composition, definition of	23
at Powerline Crossing below Henderson	72	Periphyton, definition of	23
Las Vegas Wasteway near East Las Vegas	62-66	Pesticides, definition of	23
Latitude-Longitude system	11	Phytoplankton, definition of	23
Lee Canyon near Charleston Park	59	Picocurie, definition of	23
Littlefield, AZ, Virgin River at	37-41	Pine Creek near Belmont	104
Little Humboldt River near Paradise Valley	156	Pine Nut Creek near Gardnerville	132
Little Smoky (northern part) and Newark Valley	103	Plankton, definition of	23
Little Walker River near Bridgeport, CA	121	Precipitation network, high altitude	260
Little Washoe Lake near Steamboat	185	Preston, Water Canyon Creek near	44
Local site numbers	11	Primary productivity, definition of	23
Logan House Creek near Glenbrook	168-172	Publications, water-related reports for Nevada	26
Low-flow partial-record stations, discharge at	211	techniques of water-resources	29, 30
Lower Twin Lake near Bridgeport, CA	117		

Page	Page
Pyramid Lake near Nixon	164
Pyramid and Winnemucca Lakes basin, crest-stage partial-record stations in	216
gaging-station records in	164-202
Radiochemical program, definition of	23
Records of ground-water levels	17, 18
Records of ground-water quality	18, 19
Records of stage and water discharge	11-14
Records of surface-water quality	14-17
Recoverable from bottom material, definition of	24
Reno, Truckee River at	181
Reservoirs. See Lakes and reservoirs	
Return period, definition of	24
Riverside, Virgin River above Halfway Wash near	42, 43
Rock Creek near Battle Mountain	154
Rogers Spring, Overton Beach near	57, 58
Round Mountain, North Twin River near	222
South Twin River near	111-113
Rowland, Bruneau River at	207
Runoff, in inches, definition of	24
Rye Patch, Humboldt River near	161-163
Rye Patch Reservoir near Rye Patch	160
Salmon Falls Creek near San Jacinto	206
Salmon Falls Creek basin, gaging-station records in	206
San Jacinto, Salmon Falls Creek near	206
Sediment	16
Sediment, definition of	24
Seven-day 10-year low flow, definition of	24
Shores, Thousand Springs Creek near	94
Sixmile Creek near Warm Springs	108
Snake River basin, gaging station records in	206-209
Sodium-adsorption-ratio, definition of	24
Solute, definition of	24
South Twin River near Round Mountain	111-113
South Willow Creek near Gerlach	205
Sparks, Truckee River near	182
Special networks and programs	10
Specific conductance, definition of	24
Spring discharge	221
Spring Valley, gaging station records in	96
Stage and water discharge data, explanation of	11-14
Stage-discharge relation, definition of	24
Stateline, Edgewood Creek near	173-177
Station identification numbers	10, 11
Steamboat, Galena Creek near	187
Little Washoe Lake near	185
Steamboat Creek at	188
Steptoe Creek near Ely	97-99
Steptoe Valley, gaging-station records in	97-101
Steptoe and Goshute Valleys, crest-stage partial record stations in	214
Stoneberger Creek near Austin	106
Stone Cabin Valley, gaging-station records in	109
Streamflow, definition of	24
Substrate, definition of	24
Surface area, definition of	25
Surficial bed material, definition of	25
Suspended, definition of	25
Suspended, recoverable, definition of	25
Suspended sediment, definition of	24
Suspended-sediment concentration, definition of	24
Suspended-sediment discharge, definition of	24
Suspended-sediment load, definition of	24
Suspended, total, definition of	25
Tahoe City, CA, Lake Tahoe at	178
Truckee River at	179
Taxonomy, definition of	25
Terms, definition of	20-26
Thermograph, definition of	25
Third Creek near Crystal Bay	165
Thousand Springs Creek near	
near Montello	95
near Shores	94
near Wilkins	93
Time-weighted average, definition of	25
Tons per acre-foot, definition of	25
Tons per day, definition of	25
Topaz Lake near Topaz, CA	124
Total, definition of	25
Total coliform bacteria, definition of	20
Total discharge, definition of	26
Total organism count, definition of	22
Total, recoverable, definition of	26
Total-sediment discharge, definition of	24
Total-sediment load, definition of	24
Tracy, Truckee River below	190
Tritium network	26
Truckee Canal, near Hazen	196
near Wadsworth	195
Truckee River at Clark	191-194
at Farad, CA	180
at Reno	181
at Tahoe City	179
at Vista	189
at Wadsworth	198
below Derby Dam near Wadsworth	197
below Tracy	190
near Nixon	199-202
near Sparks	182
Tuscarora, Gance Creek near	148
Upper Twin Lake near Bridgeport, CA	116
Virgin River, at Littlefield, AZ	37-41
above Halfway Wash near Riverside	42, 43
Virgin River basin, gaging station records in	37-56
Vista, Truckee River at	189
WATSTORE data, access to	19
WDR, definition of	26
WSP, definition of	26
Wabuska, Walker River near	127-129
Wadsworth, Truckee Canal near	195
Truckee River at	198
Truckee River below Derby Dam near	197
Walker Lake near Hawthorne	115
Walker Lake Basin, gaging-station records in	115-129
Walker River near Wabuska	127-129
Warm Springs West, Moapa near	49
Sixmile Creek near	108
Willow Creek near	109
Washoe Lake near Carson City	184
Water Canyon Creek near Preston	44
Water quality, ground water	258, 259
Water-quality data, explanation of	15
Water-quality partial-record stations, analysis of samples	222
Water-related reports for Nevada completed by the Geological Survey during calendar year 1986	26-28
Water temperature	15
Water year, definition of	26
Weighted average, definition of	26
Wellington, West Walker River at Hoye bridge near	125
West Fork Carson River at Woodsfords	134
West Walker River at Hoye bridge near Wellington	125
below Little Walker River near	
Coleville, CA	122
near Coleville, CA	123
near Hudson	126
Wet mass, definition of	20
White River Valley, gaging station records in	44
Wild Horse Reservoir near Gold Creek	208
Wilkins, Thousand Springs Creek near	93
Willow Creek near Warm Springs	109
Winnemucca Lake basin. See Pyramid and Winnemucca Lakes basin.	
Woodsfords, CA, West Fork Carson River at	134
Zooplankton, definition of	23

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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