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Water Resources Data for Nevada

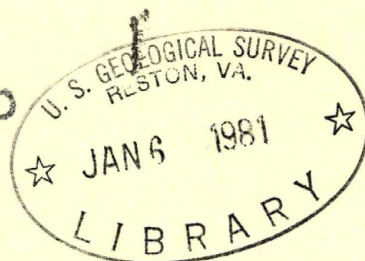
Part 1. Surface Water Records

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

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JANUARY

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JUNE

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JULY

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SEPTEMBER

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Water Resources Data for Nevada

Part 1. Surface Water Records

Part 2. Water Quality Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Nevada
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Prepared in cooperation with

Nevada Department of Conservation and Natural Resources
Nevada Department of Highways
California Department of Water Resources
Corps of Engineers, U.S. Army
Bureau of Reclamation, U.S. Department of the Interior
Fish and Wildlife Service, U.S. Department of the Interior
Forest Service, U.S. Department of Agriculture

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Room 229, Federal Building
705 North Plaza Street
Carson City, Nevada 89701

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FOR WHICH RECORDS ARE PUBLISHED

[Letters after station name designate type of data:
(c), chemical; (b), biological;
(t), water temperature; (s), sediment]

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WATER RESOURCES DATA FOR NEVADA, 1973

PART 1. Surface-Water Records

PART 2. Water-Quality Records

INTRODUCTION

Water-resources data for the 1973 water year for Nevada, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical, physical, and biological characteristics of surface water, are given in this report. For Part 1, locations of gaging stations are shown in figures 2 and 3, and partial-record stations in figure 4. In Part 2, data on the quality of surface water (chemical, biologic, temperature, and sediment) were collected from designated sampling sites at predetermined intervals, such as once daily, weekly, monthly, or less frequently. Locations of the water-quality stations are shown in figure 5. A few pertinent stations in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of G. F. Worts, Jr., district chief. Nevada District personnel who contributed significantly to the collection and preparation of data included in this report were Jack L. Arnold, Charles J. Bartholet, Leo A. Bohner, Robert E. Bostic, Donald C. Clendenon, Louise E. Davis, Kerry T. Garcia, Patrick A. Glancy, Lynn Harmsen, Joseph P. Johns, Orvil C. Kamm, Terrance L. Katzer, David L. Kresch, Jerry D. Larson, Gregory L. Pope, Carroll V. Schroer, Sheri D. Skidmore, Thomas B. Tucker, and A. S. Van Denburgh. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the later heading, "Publications."

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 supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Nevada Department of Conservation and Natural Resources,
Elmo J. DeRicco, director. Office of Nevada State Engineer,
Roland D. Westergard.

Nevada Department of Highways, Grant Bastian, P. E., State Highway Engineer.

California Department of Water Resources, William R. Gianelli,
director (succeeded by John R. Teerink).

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, the Bureau of Reclamation, the Fish and Wildlife Service, U.S. Department of the Interior, and the Forest Service, U.S. Department of Agriculture.

The following organizations aided in collecting records:

Clark County Flood Control District; Walker River Irrigation District; Carson-Truckee Water Conservancy District; Truckee-Carson Irrigation District; City of Las Vegas; Pershing County Water Conservation District; Nevada Department of Fish and Game; U.S. Board of Water Commissioners (Walker River).

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

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

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.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-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, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Coliform and streptococcal organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of bacteria colonies per 100 milliliters is determined by the immediate incubation membrane filter method.

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.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved-solids content of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents determined in a comprehensive chemical analysis. During the analytical determination of dissolved solids, half the bicarbonate (generally a major dissolved component of water) is converted to carbonate, and the rest is lost as carbon dioxide plus water vapor. Therefore, in the mathematical calculation of dissolved-solids content, the bicarbonate value, in mg/l, is multiplied by 0.492 to reflect the loss and to thereby make calculated and "residue-on-evaporation" values comparable.

Drainage area of a stream at a 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 noted.

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Micrograms per liter ($\mu\text{g/l}$, UG/L) is a unit for expressing very small concentrations of chemical constituents as the weight (micrograms) of the constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents. Milligrams per liter represents the weight of the constituent per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in milligrams per liter, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations that are expressed in parts per million may be converted to milligrams per liter by using the factors in table 2, page 5.

Miscellaneous site is a location other than a continuous- or partial-record station where random samples are collected to give better areal coverage of water-quality conditions in a river basin.

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

Table 1.--Factors for conversion of concentrations from milligrams or micrograms per liter to milliequivalents per liter

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})*.....	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})....	.01639	Lithium (Li^{+1})*.....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2}).....	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*....	.03640
Carbonate (CO_3^{-2}).....	.03333	Nickel (Ni^{+2})*.....	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1}).....	.01613
Chromium (Cr^{+6})*.....	.11539	Nitrite (NO_2^{-1}).....	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3})....	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1}).....	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*....	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2}).....	.02082
Hydroxide (OH^{-1}).....	.05880	Zinc (Zn^{+2}).....	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material 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) (Guy, 1969).

Particle-size classification, used in this report, agrees closely with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology (Lane and others, 1947, p. 937). 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 of the silt and clay. Chemical dispersion is not used for native-water analysis (Guy, 1969).

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.

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 discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

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.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

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

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tapes.

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

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

Irrigation network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual water-supply paper series, "Quality of Surface Water for Irrigation, Western States."

National Stream-Quality Accounting Network: A national stream-quality accounting network has been designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides includes insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

DOWNSTREAM ORDER AND STATION NUMBERS

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report, the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality 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 continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. 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 whose boundaries coincide with certain natural drainage lines. Records in this report are 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 to include all records in the basin.

PART 1. SURFACE WATER RECORDS

Collection and Computation of Data

The basic data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement basic data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations,

book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage 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.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily stage or contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents), and the maximum gage height, the minimum discharge, if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the

data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of water-quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow 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 is also expressed in acre-feet (line headed "AC-FT").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

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

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are given in a special table following the tables of discharge at partial-record stations and miscellaneous sites.

Accuracy of Data

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s (if zeros only are used in the hundredths place, it may be for uniformity and should not be considered accurate to the nearest hundredth); to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules may apply to discharge figures 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. 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.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Nevada for the period October 1960 to September 1965 are in Water-Supply Papers 1926, 1927, and 1934.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Nevada are compiled in Water-Supply Papers 1313, 1314, and 1317 through September 1950, and in 1733, 1734, and 1737 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Nevada at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22090, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

PART 2. WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton and bottom organisms. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for total and suspended-sediment discharges and concentrations, and for particle-size distribution of suspended sediment, bed material, and total sediment.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Fahrenheit to degrees Celsius, see table 3 below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 4, and table for converting English Units to SI Units, p. 22).

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	46	17.5	64	27.5	82	37.5	100	47.5	118
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). 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 across the channel to determine accurately the solute load. 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 is possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the 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.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures usually are taken about the same time each day when the sample is collected. Large streams have a small diurnal temperature change, whereas small, 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 continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day, and monthly averages.

Sediment

This report lists data for sediment samples collected at several stations. During periods of high or rapidly changing flow, samples are collected twice or more often throughout the day at several of the stations. Although the data may represent conditions only at the time of observations, they are useful in establishing general relations between sediment movement and streamflow. In some instances the data are adequate to allow a reasonable estimate of sediment-transport quantity for a particular runoff event or for the water year. The data are also useful in predicting long-term sediment-discharge characteristics of a stream.

Sediment concentrations are determined from samples collected using the depth-integrated technique, usually at several verticals in the cross section. Suspended-sediment samples are collected when physical characteristics of the sampling site prohibit sampling of the instantaneous total-sediment load. At other stations, conditions permit collection of total-load samples.

This report also includes analyses of sediment particle-size distribution.

Publications

Water-supply papers that contain annual information on quality of surface waters in Nevada are listed below:

<u>Water</u> <u>year</u>	<u>WSP</u> <u>No.</u>	<u>Water</u> <u>year</u>	<u>WSP</u> <u>No.</u>	<u>Water</u> <u>year</u>	<u>WSP</u> <u>No.</u>
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098
1949	1163	1959	1645	1969	a 2148
1950	1189	1960	1745	1970	a 2158

a In press.

HYDROLOGIC CONDITIONS

Streamflows for the 1973 water year were very near average in the Truckee, Carson, Walker, and Muddy River basins, with the Snake River drainage slightly below, Quinn River and Meadow Valley Wash a little above, Humboldt River basin well above, and Virgin River and Las Vegas Wash (below Las Vegas) about 200 percent of average.

Storage in reservoirs was near average at the beginning and ending of the water year, reaching near capacity by the end of the snowmelt period in June.

Thundershower activity was near normal with one event near Oreana being the maximum runoff per square mile ever recorded for Nevada.

Figure 1 on page 25, for which two long-term gaging stations are used, shows a comparison of the monthly and yearly mean discharges for the 1973 water year with the median discharge for the reference period 1931-60.

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Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
<i>Area</i>		
acres	4047	square meters (m ²)
	.4047	*hectares (ha)
	.4047	square hectometer (hm ²)
	.004047	square kilometers (km ²)
square miles (mi ²)	2.590	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm ³)
	3.785x10 ⁻³	cubic meters (m ³)
million gallons (10 ⁶ gal)	3785	cubic meters (m ³)
	3.785x10 ⁻³	cubic hectometers (hm ³)
cubic feet (ft ³)	28.32	cubic decimeters (dm ³)
	.02832	cubic meters (m ³)
cfs-day (ft ³ /s-day)	2447	cubic meters (m ³)
	2.447x10 ⁻³	cubic hectometers (hm ³)
acre-feet (acre-ft)	1233	cubic meters (m ³)
	1.233x10 ⁻³	cubic hectometers (hm ³)
	1.233x10 ⁻⁶	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm ³ /s)
	.02832	cubic meters per second (m ³ /s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic meters per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm ³ /s)
	.04381	cubic meters per second (m ³ /s)
<i>Mass</i>		
ton (short)	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

PART 1. SURFACE WATER RECORDS

HYDROLOGIC CONDITIONS

25

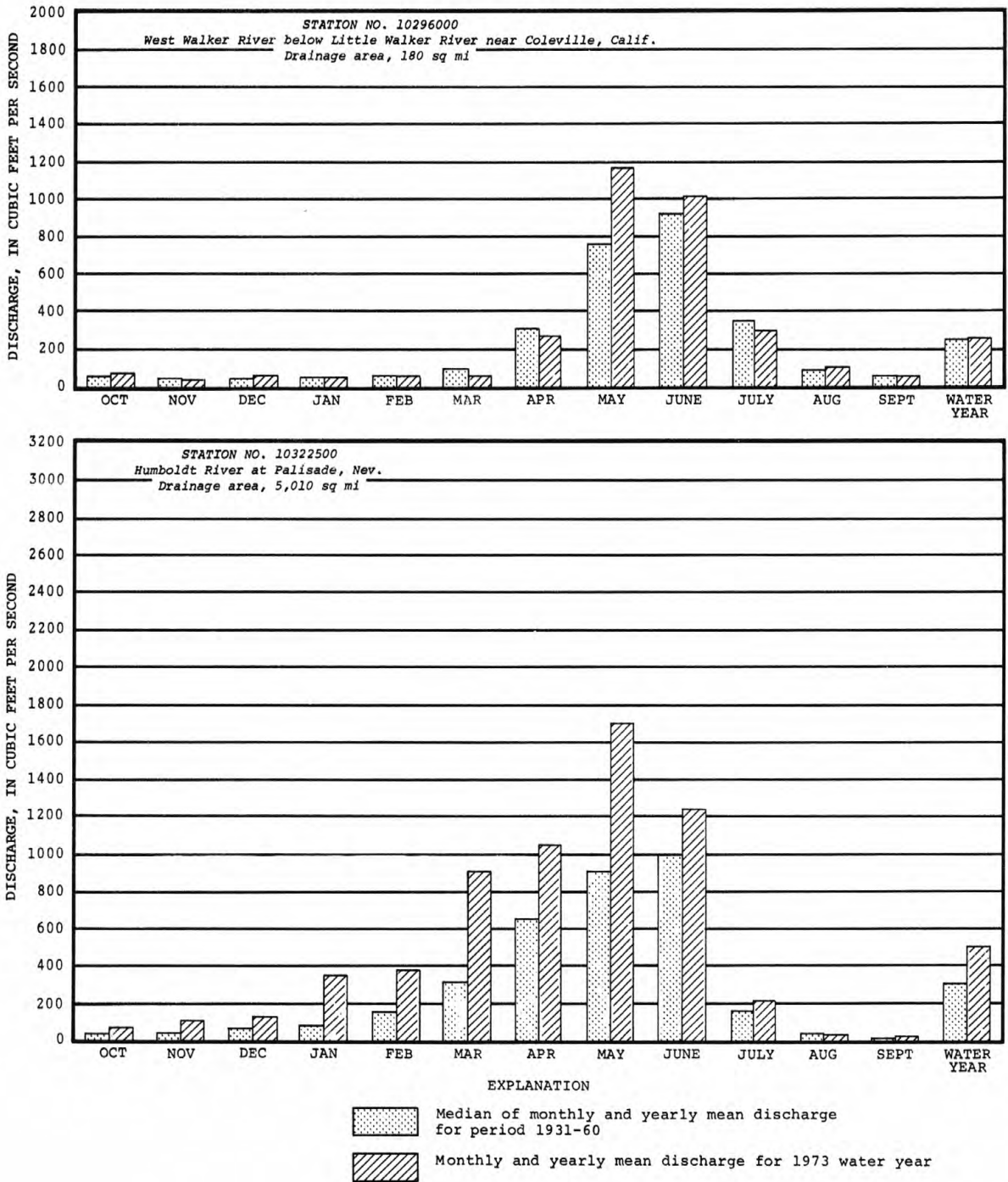


FIGURE 1 - COMPARISON OF DISCHARGE AT TWO LONG-TERM REPRESENTATIVE GAGING STATIONS DURING 1973 WATER YEAR WITH MEDIAN DISCHARGE FOR PERIOD 1931-60.

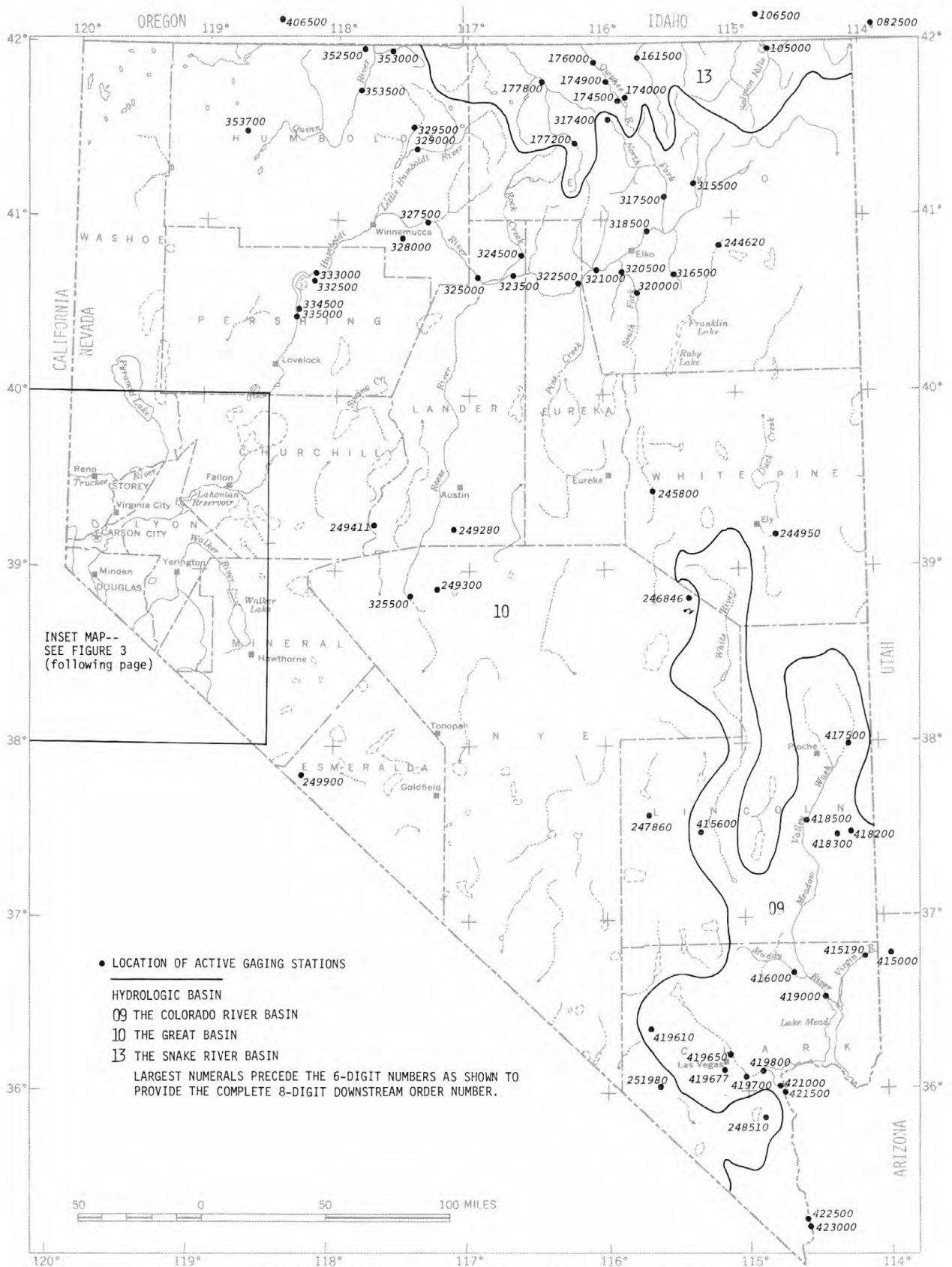


FIGURE 2.--MAP OF NEVADA SHOWING LOCATION OF ACTIVE GAGING STATIONS

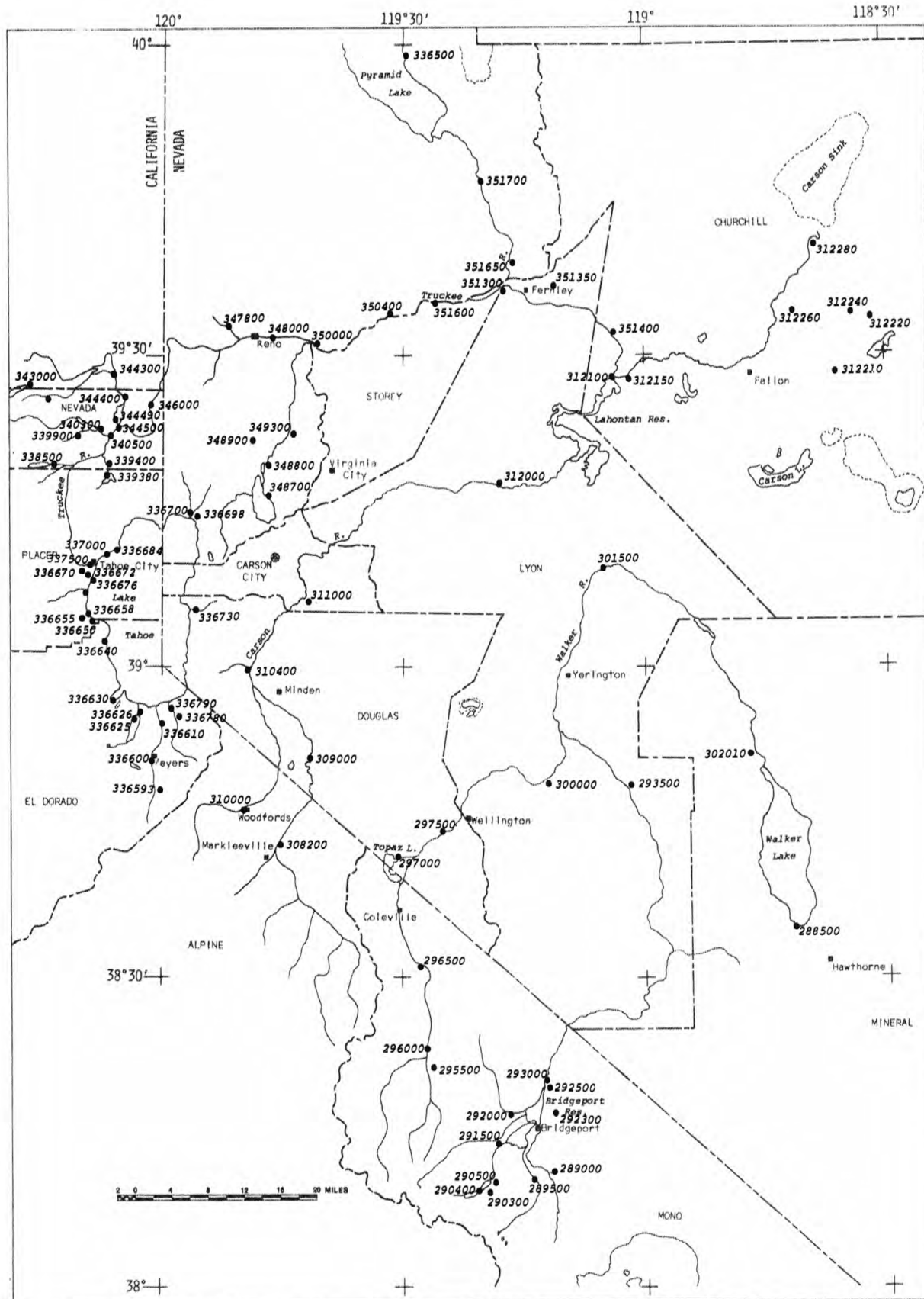


FIGURE 3 --INSET MAP (See fig. 2) SHOWING LOCATION OF ACTIVE GAGING STATIONS.

VIRGIN RIVER BASIN

31

09415000 Virgin River at Littlefield, Ariz.

LOCATION.--Lat 36°53'30", long 113°55'25", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.40 N., R.15 W., Mohave County, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from water line of Lake Mead at elevation 1,221 ft (372.2 m) above mean sea level.

DRAINAGE AREA.--5,090 mi² (13,180 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) above mean sea level, datum of 1929. Prior to May 28, 1933, nonrecording gage at same site and May 28, 1933, to Nov. 7, 1939, at site 300 ft (90 m) downstream, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at site 300 ft (90 m) downstream at datum 2.00 ft (0.610 m) higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at site 300 ft (90 m) downstream at same datum.

AVERAGE DISCHARGE.--4 years, 228 ft³/s (6.457 m³/s), 165,200 acre-ft/yr (204 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,740 ft³/s (106 m³/s) May 11, gage-height, 8.90 ft (2.713 m); minimum daily, 48 ft³/s (1.36 m³/s) Aug. 30, 31.

Period of record: Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 39 ft³/s (1.10 m³/s) Aug. 4, 6, 9, 1966.

REMARKS.--Records poor. Diversion above station for irrigation of about 23,200 acres (93.9 km²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	129	151	154	206	761	950	1,840	894	110	58	50
2	83	131	148	143	206	640	868	1,940	950	115	60	52
3	80	129	140	166	212	500	690	2,100	862	102	60	52
4	450	118	137	189	220	330	600	2,410	838	85	64	56
5	300	124	247	176	223	350	585	2,670	640	80	66	64
6	230	121	248	157	230	450	664	2,480	580	82	68	70
7	160	108	194	154	340	560	775	2,120	565	78	60	59
8	210	103	216	148	452	610	816	2,160	485	68	58	54
9	160	103	223	166	300	490	826	2,300	435	66	58	56
10	305	108	195	212	240	470	860	2,760	396	66	56	54
11	300	108	192	185	350	450	915	2,880	378	86	58	54
12	450	176	195	154	450	759	957	3,000	355	92	56	58
13	500	230	198	154	340	793	1,120	2,800	304	88	58	56
14	550	154	198	164	280	470	1,200	3,000	340	112	58	54
15	450	192	185	179	250	350	1,200	2,200	642	112	60	56
16	402	328	182	195	230	320	1,260	1,960	425	88	56	50
17	240	740	185	248	215	360	1,230	1,760	355	78	66	56
18	189	519	192	276	200	380	1,310	1,790	319	72	106	56
19	285	368	195	248	190	380	1,160	1,960	262	68	107	54
20	764	340	202	240	180	420	1,160	1,870	252	64	72	52
21	555	250	195	189	190	460	1,030	1,680	217	64	204	52
22	380	202	198	169	200	420	1,120	1,390	214	64	228	54
23	300	212	185	173	210	480	1,250	1,280	201	64	156	58
24	230	198	185	176	220	500	1,330	1,200	183	66	100	58
25	198	192	176	182	230	470	1,400	1,150	180	64	88	60
26	163	185	182	190	240	440	1,440	1,130	132	62	70	60
27	154	179	189	175	290	599	1,520	1,160	118	62	66	60
28	154	182	177	170	312	915	1,790	1,030	120	60	60	60
29	149	185	202	165	-----	978	1,970	978	110	60	52	56
30	189	160	179	189	-----	887	1,780	894	100	60	48	56
31	140	-----	157	179	-----	1,120	-----	868	-----	58	48	-----
TOTAL	8,804	6,314	5,848	5,665	7,206	17,112	33,776	58,760	11,852	2,396	2,425	1,687
MEAN	284	210	189	183	257	552	1,126	1,895	395	77.3	78.2	56.2
MAX	764	740	248	276	452	1,120	1,970	3,000	950	115	228	70
MIN	80	103	137	143	180	320	585	868	100	58	48	50
AC-FT	17,460	12,520	11,600	11,240	14,290	33,940	66,990	116,600	23,510	4,750	4,810	3,350

CAL YR 1972 TOTAL 64,721 MEAN 177 MAX 4,740 MIN 52 AC-FT 128,400
WTR YR 1973 TOTAL 161,845 MEAN 443 MAX 3,000 MIN 48 AC-FT 321,000

PEAK DISCHARGE (BASE, 1,600 CFS).--MAY 11 (0930) 3,740 cfs (8.90 ft).

NOTE.--NO GAGE-HEIGHT RECORD FOR MANY DAYS DURING THE YEAR.

VIRGIN RIVER BASIN

09415190 Virgin River at Riverside, Nev.

LOCATION.--Lat 36°44'07", long 114°13'10", in NW¼NW¼ sec.7, T.14 S., R.70 E., Clark County, on right bank about 600 ft (183 m) upstream from highway bridge at Riverside.

DRAINAGE AREA.--5,880 mi² (15,230 km²), approximately.

PERIOD OF RECORD.--December 1970, to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,415.02 ft (431.298 m) above mean sea level.

EXTREMES.--Current year: Maximum daily discharge, 3,700 ft³/s (105 m³/s) May 12, 14, gage height, unknown, from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of logarithmic extension; no flow July 8, 27, Aug. 2, 7, 14.

Period of record: Maximum discharge, 17,380 ft³/s (492 m³/s) Sept. 20, 1972, gage height, 8.37 ft (2.551 m); no flow on some days each year.

Peak flow of Dec. 6, 1966 was about 35,000 ft³/s (991 m³/s) based on indirect measurement made about 8 mi (13 km) upstream, gage height, 12.2 ft (3.72 m), from high water marks.

REMARKS.--Records poor. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	132	272	197	254	980	980	2,770	700	24	4.0	10
2	24	146	260	181	197	461	900	1,680	750	26	0	11
3	32	126	240	173	263	354	750	1,490	740	30	2.0	12
4	60	120	230	139	213	290	660	1,820	640	31	6.0	12
5	80	126	220	158	229	335	580	2,420	600	21	6.0	14
6	72	126	210	139	250	411	560	2,330	500	14	3.0	20
7	66	126	281	132	420	411	600	1,840	420	8.0	0	18
8	290	152	290	146	530	520	700	1,980	310	0	2.0	14
9	270	165	299	146	402	411	800	3,380	250	12	4.0	14
10	240	181	344	181	237	299	840	3,500	200	19	6.0	13
11	300	173	430	189	229	335	740	3,600	160	22	10	13
12	350	181	420	139	723	773	720	3,700	110	25	8.0	14
13	400	290	335	139	555	1,350	867	3,600	90	24	6.0	15
14	500	237	326	132	335	663	1,100	3,700	72	22	0	12
15	560	173	299	146	290	402	1,130	3,200	80	26	2.0	13
16	450	368	317	173	245	354	1,150	2,880	110	30	12	12
17	272	912	354	213	245	354	1,150	2,500	80	26	14	12
18	158	733	272	440	221	420	1,140	2,500	60	24	20	14
19	245	354	237	205	165	500	1,130	2,500	54	23	28	14
20	1,690	299	272	189	197	480	1,100	2,300	50	22	22	15
21	1,060	254	229	146	205	652	1,070	2,000	47	22	18	14
22	500	221	245	181	245	560	1,030	1,600	44	20	38	13
23	364	213	197	221	173	620	1,000	1,500	41	14	33	14
24	317	205	158	181	181	641	980	1,350	38	10	29	15
25	281	237	165	173	221	652	960	1,200	35	6.0	25	16
26	245	213	213	197	254	530	996	1,100	32	2.0	21	17
27	221	197	221	245	229	500	1,320	980	31	0	18	17
28	205	263	173	229	335	806	1,800	1,050	29	10	14	16
29	181	263	213	229	-----	1,020	2,510	900	26	16	12	15
30	237	281	213	245	-----	1,100	2,950	940	27	12	10	14
31	173	-----	173	299	-----	1,000	-----	840	-----	8.0	9.0	-----
TOTAL	9,885	7,467	8,108	5,903	8,043	18,184	32,213	67,150	6,326	549.0	382.0	423
MEAN	319	249	262	190	287	587	1,074	2,166	211	17.7	12.3	14.1
MAX	1,690	912	430	440	723	1,350	2,950	3,700	750	31	38	20
MIN	24	120	158	132	165	290	560	840	26	0	0	10
AC-FT	19,610	14,810	16,080	11,710	15,950	36,070	63,890	133,200	12,550	1,090	758	839
CAL YR 1972	TOTAL	64,634.80	MEAN	177	MAX	6,270	MIN	0	AC-FT	128,200		
WTR YR 1973	TOTAL	164,633.00	MEAN	451	MAX	3,700	MIN	0	AC-FT	326,500		

NOTE.--No gage-height record May 10 to Sept. 30.

VIRGIN RIVER BASIN

33

09415600 Pahranagat Valley tributary near Hiko, Nev.

LOCATION.--Lat 37°29'20", long 115°20'10", in NE¼ sec.27, T.5 S., R.59 E., Lincoln County, on left bank of left bank tributary on upstream side of culvert on State Highway 25, 10 mi (16 km) southwest of Hiko, and 47 mi (76 km) west of Caliente.

DRAINAGE AREA.--17 mi² (44 km²), approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 4,800 ft (1,463 m) from AMS map. Crest-stage gage only Oct. 1, 1963, to May 5, 1964, at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.002 ft³/s (0.0001 m³/s), 1.4 acre-ft/yr (1,730 m³/yr).

EXTREMES.--Current year: No flow for entire year.

Period of record: Maximum discharge, 162 ft³/s (4.59 m³/s) June 22, 1972, gage height, 9.99 ft (3.045 m), from slope-area measurement of peak flow; no flow most of time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
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10												
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24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1972	TOTAL 8.70	MEAN .024	MAX 8.6	MIN 0	AC-FT 17							
WTR YR 1973	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0							

VIRGIN RIVER BASIN

09416000 Muddy River near Moapa, Nev.

LOCATION.--Lat 36°42'40", long 114°41'40", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.14 S., R.65 E., Clark County, on left bank 0.1 mi (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash.

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

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

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 1,710 ft (521 m), from river-profile map. October 21, 1944, to September 30, 1948, water-stage recorder at datum 0.08 ft (0.024 m) higher.

AVERAGE DISCHARGE.--36 years (1913-15, 1916-18, 1928-31, 1944-73), 45.4 ft³/s (1.286 m³/s), 32,890 acre-ft/yr (40.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 803 ft³/s (22.7 m³/s) Oct. 9, 10, gage height, 5.51 ft (1.679 m); minimum, 34 ft³/s (0.96 m³/s) Oct. 3.

Period of record: Maximum discharge, 5,100 ft³/s (144 m³/s) Sept. 7, 1967, gage height, 12.35 ft (3.764 m); minimum, 27 ft³/s (0.76 m³/s) Nov. 26, 1967.

REMARKS.--Records good. Diversions for irrigation above station. Normal flow originates from springs in reach 0.9 to 2.5 mi (1.4 to 4.0 km) upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

REVISIONS (WATER YEARS).--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	42	48	46	45	44	58	44	39	39	39	39
2	39	43	49	47	46	43	52	44	38	38	40	39
3	37	43	50	48	46	42	44	44	39	39	40	40
4	35	44	49	50	45	42	44	44	41	39	40	40
5	235	43	48	50	45	43	44	44	50	39	41	39
6	51	44	48	50	50	44	45	43	41	39	40	38
7	47	44	47	50	62	44	44	45	41	39	39	38
8	36	44	46	50	45	45	44	44	41	40	39	38
9	318	45	45	50	45	45	44	44	41	40	39	38
10	147	44	45	50	46	45	44	43	38	40	39	38
11	39	44	46	50	52	47	46	42	38	40	39	38
12	39	44	45	49	49	73	45	43	38	40	39	38
13	39	45	46	48	52	56	45	42	45	39	40	39
14	39	44	46	47	51	47	45	41	40	39	39	38
15	94	44	47	47	50	47	44	41	39	39	39	38
16	42	44	48	47	49	47	45	41	38	39	39	38
17	42	45	50	48	50	47	45	41	36	40	39	38
18	42	47	50	47	50	47	45	41	37	41	39	38
19	44	49	47	48	48	51	45	42	36	39	39	39
20	45	53	49	47	45	61	47	42	35	39	39	39
21	45	50	52	47	45	61	46	42	39	41	38	39
22	44	47	51	47	45	60	46	42	39	40	39	39
23	44	46	46	46	48	56	47	41	39	39	39	39
24	44	47	45	46	48	56	49	39	39	39	38	39
25	43	47	45	47	44	58	47	38	40	38	39	39
26	44	47	45	46	42	59	46	38	40	39	39	39
27	44	47	47	46	44	65	44	39	39	39	38	39
28	44	48	48	47	44	61	44	38	39	39	39	40
29	45	47	47	45	-----	58	43	38	39	38	38	41
30	43	48	46	45	-----	55	44	38	39	39	38	41
31	42	-----	47	45	-----	56	-----	38	-----	39	38	-----
TOTAL	1,920	1,369	1,468	1,476	1,331	1,605	1,371	1,286	1,183	1,217	1,210	1,165
MEAN	61.9	45.6	47.4	47.6	47.5	51.8	45.7	41.5	39.4	39.3	39.0	38.8
MAX	318	53	52	50	62	73	58	45	50	41	41	41
MIN	35	42	45	45	42	42	43	38	35	38	38	38
AC-FT	5,810	2,720	2,910	2,930	2,640	3,180	2,720	2,550	2,350	2,410	2,400	2,310

CAL YR 1972 TOTAL 16,714 MEAN 45.7 MAX 318 MIN 34 AC-FT 33,150
 WTR YR 1973 TOTAL 16,601 MEAN 45.5 MAX 318 MIN 35 AC-FT 32,930

VIRGIN RIVER BASIN

35

09417500 Meadow Valley Wash at Eagle Canyon, near Ursine, Nev.
(Formerly published as Spring Valley Creek near Ursine)

LOCATION.--Lat 38°00'10", long 114°12'20", in SW¹/₄ sec.25, T.2 N., R.69 E., Lincoln County, on right bank in Eagle Canyon, 1.7 mi (2.7 km) upstream from Ursine, 14 mi (23 km) upstream from Patterson Wash, and 18 mi (29 km) east of Pioche.

DRAINAGE AREA.--293 mi² (759 km²).

PERIOD OF RECORD.--August 1962 to current year. Prior to October 1972, published as Spring Valley Creek near Ursine.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m), from topographic map.

AVERAGE DISCHARGE.--11 years, 7.07 ft³/s (0.200 m³/s), 5,120 acre-ft/yr (6.31 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 142 ft³/s (4.02 m³/s) Apr. 30, gage height, 2.24 ft (0.683 m); minimum, 0.49 ft³/s (0.014 m³/s) Sept. 28.

Period of record: Maximum discharge, 700 ft³/s (19.8 m³/s) Jan. 25, 1969, gage height, 4.07 ft (1.241 m), from rating curve extended above 70 ft³/s (1.98 m³/s) on basis of two slope-area measurements of peak flow; minimum, 0.40 ft³/s (0.011 m³/s) Oct. 22-25, Nov. 18-20, 1965.

REMARKS.--Records excellent except those for period of no gage-height record, which are poor. Several diversions for irrigation above station. Flow regulated by Eagle Valley and Hollinger Reservoirs, total capacity, 1,470 acre-ft (1.81 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.2	6.2	4.7	5.2	39	18	90	16	3.8	6.2	5.2
2	2.5	4.7	6.4	4.7	5.0	39	17	55	16	3.8	7.8	4.6
3	2.5	5.4	6.4	4.9	5.0	23	13	46	16	3.8	8.8	4.4
4	2.5	5.6	7.2	4.9	5.2	21	15	41	14	3.8	9.2	4.2
5	2.5	5.8	6.8	4.5	5.4	17	15	42	8.5	3.8	8.0	4.1
6	2.5	5.6	6.6	4.4	6.2	16	19	50	5.8	3.5	8.8	4.0
7	2.5	5.6	6.4	4.5	7.0	13	18	45	5.6	3.2	10	3.9
8	2.5	6.4	6.2	4.5	9.5	14	14	43	5.6	3.0	12	3.9
9	2.5	6.2	6.4	4.9	10	14	13	42	5.6	3.1	13	3.8
10	2.7	6.0	5.8	5.2	8.8	18	16	41	5.6	3.2	12	3.8
11	2.5	6.2	6.6	5.2	9.8	30	17	47	5.6	3.3	10	3.8
12	2.5	7.0	5.8	5.4	9.1	24	19	61	5.4	3.5	8.8	4.1
13	2.5	6.8	5.2	5.4	7.9	15	21	59	4.6	3.6	8.2	4.3
14	2.5	6.4	4.9	5.8	7.7	15	22	48	4.8	3.3	8.0	4.0
15	2.5	6.8	4.5	5.8	7.7	13	24	43	4.6	3.5	8.4	3.8
16	2.5	8.1	4.5	6.4	7.4	14	22	41	4.4	3.6	8.0	3.9
17	2.5	9.3	4.7	7.9	7.4	18	20	38	4.4	3.4	7.4	3.9
18	3.2	9.3	4.7	7.9	7.2	25	54	36	4.4	3.4	7.2	4.0
19	5.8	9.0	4.9	8.1	7.0	22	38	34	4.4	3.9	6.8	4.1
20	7.2	7.9	5.4	7.0	6.6	27	29	33	4.4	4.7	6.6	4.1
21	7.2	6.6	6.0	6.6	6.2	18	25	34	4.4	5.2	6.8	4.3
22	6.6	6.0	6.4	5.4	6.2	14	19	34	4.4	6.1	7.0	4.3
23	5.8	5.4	6.8	5.2	7.0	17	14	28	4.4	7.0	7.2	4.3
24	5.2	5.0	6.8	5.8	7.9	25	12	24	4.4	6.2	7.0	4.3
25	4.9	4.9	6.8	5.8	12	29	13	19	4.4	5.8	6.3	4.3
26	4.9	5.4	6.8	5.6	23	24	20	14	4.4	7.4	5.6	4.3
27	5.0	6.4	7.0	5.4	36	18	32	11	4.1	8.2	6.2	3.2
28	5.6	6.8	7.4	5.0	55	22	41	9.3	3.6	8.4	8.0	7.0
29	5.8	6.4	6.8	5.0	-----	16	56	8.3	3.6	7.2	7.7	7.0
30	5.4	6.4	6.0	5.2	-----	15	118	11	3.8	7.8	7.0	7.0
31	4.5	-----	5.4	5.2	-----	16	-----	15	-----	7.0	6.0	-----
TOTAL	119.8	191.6	187.8	172.3	297.4	631	774	1,142.6	187.2	147.5	250.0	113.00
MEAN	3.86	6.39	6.06	5.56	10.6	20.4	25.8	36.9	6.24	4.76	8.06	3.77
MAX	7.2	9.3	7.4	8.1	55	39	118	90	16	8.4	13	5.2
MIN	2.5	4.2	4.5	4.4	5.0	13	12	8.3	3.6	3.0	5.6	7.0
AC=FT	238	380	373	342	590	1,250	1,540	2,270	371	293	496	224

CAL YR 1972 TOTAL 1,813.20 MEAN 4.95 MAX 14 MIN 2.3 AC=FT 3,600
WTR YR 1973 TOTAL 4,214.20 MEAN 11.5 MAX 118 MIN .70 AC=FT 8,360

NOTE.--No gage-height record July 7 to Sept. 18.

VIRGIN RIVER BASIN

09418200 Mathews Canyon Wash near Caliente, Nev.

LOCATION.--Lat 37°29'55", long 114°13'20", in E $\frac{1}{2}$ sec.24, T.5 S., R.69 E., Lincoln County, on right bank at downstream end of stilling basin at outlet of conduit through flood-control dam, 2.5 mi (4.0 km) upstream from mouth, and 17 mi (27 km) southeast of Caliente.

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft (1,648.694 m) above mean sea level, datum of 1929 (levels by Corps of Engineers).

AVERAGE DISCHARGE.--15 years, 0.0538 ft³/s (0.0152 m³/s), 390 acre-ft/yr (481,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 108 ft³/s (3.06 m³/s) Apr. 12, gage height, 9.93 ft (3.027 m); no flow most of the year.
Period of record: Maximum discharge, 206 ft³/s (5.83 m³/s) Dec. 29, 1965, gage height, 11.85 ft (3.612 m) no flow most of the time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.5	0					
2					0	3.1	0					
3					0	1.3	0					
4					0	.60	0					
5					0	0	0					
6					0	0	19					
7					0	0	67					
8					0	0	18					
9					0	0	13					
10					0	0	48					
11					0	0	78					
12					0	0	91					
13					0	0	97					
14					0	0	83					
15					0	0	31					
16					0	0	9.0					
17					0	0	3.7					
18					0	0	5.6					
19					0	0	3.2					
20					0	0	1.6					
21					0	0	1.1					
22					0	0	.90					
23					0	0	.70					
24					0	0	.50					
25					0	0	0					
26					0	0	0					
27					0	0	0					
28					.20	0	0					
29					-----	0	0					
30					-----	0	0					
31		-----			-----	0	-----		-----			-----
TOTAL	0	0	0	0	.20	7.50	571.30	0	0	0	0	0
MEAN	0	0	0	0	.007	.24	19.0	0	0	0	0	0
MAX	0	0	0	0	.20	3.1	97	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	.4	15	1.130	0	0	0	0	0
CAL YR 1972	TOTAL	0.00	MEAN .00	MAX .0	MIN 0	AC-FT	0					
WTR YR 1973	TOTAL	579.00	MEAN 1.59	MAX 97	MIN 0	AC-FT	1.150					

VIRGIN RIVER BASIN

37

09418300 Pine Canyon Wash near Caliente, Nev.

LOCATION.--Lat 37°28'40", long 114°19'00", in sec.30, T.5 S., R.69 E., Lincoln County, on left bank 100 ft (30 m) downstream from outlet of flood-control dam, 4 mi (6 km) upstream from mouth, and 14 mi (23 km) southeast of Caliente.

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

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,595 ft (1,705.4 m) (by Corps of Engineers damsite topography).

AVERAGE DISCHARGE.--15 years, 1.31 ft³/s (0.037 m³/s), 949 acre-ft/yr (1.17 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) Apr. 13, gage height, 3.71 ft (1.131 m); no flow most of the year.

Period of record: Maximum discharge, 238 ft³/s (6.74 m³/s) Dec. 7, 1966, gage height, 3.92 ft (1.195 m); no flow most of the time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	54				
2							0	37				
3							0	34				
4							0	35				
5							0	38				
6							13	28				
7							71	23				
8							50	21				
9							46	21				
10							74	19				
11							104	14				
12							122	6.2				
13							148	2.4				
14							148	1.2				
15							86	.42				
16							71	.04				
17							80	0				
18							114	0				
19							74	0				
20							47	0				
21							26	0				
22							22	0				
23							35	0				
24							53	0				
25							85	0				
26							88	0				
27							88	0				
28							90	0				
29							97	0				
30							88	0				
31							0	0				
TOTAL	0	0	0	0	0	0	1,920	334.26	0	0	0	0
MEAN	0	0	0	0	0	0	64.0	10.8	0	0	0	0
MAX	0	0	0	0	0	0	148	54	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	3,810	663	0	0	0	0
CAL YR 1972	TOTAL	0.00	MEAN	.00	MAX	.0	MIN	0	AC-FT	0		
WTR YR 1973	TOTAL	2,254.26	MEAN	6.18	MAX	148	MIN	0	AC-FT	4,470		

VIRGIN RIVER BASIN

09418500 Meadow Valley Wash near Caliente, Nev.

LOCATION.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35, T.4 S., R.66 E., Lincoln County, on right bank 6 mi (10 km) downstream from Clover Creek, 0.5 mi (0.8 km) east of Etna, and 4.5 mi (7.2 km) southwest of Caliente.

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

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

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

AVERAGE DISCHARGE.--17 years (1951-60, 1965-73) 11.6 ft³/s (0.329 m³/s), 8,400 acre-ft/yr (10.4 hm³).

EXTREMES.--Current year: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Oct. 10, gage height, 6.14 ft (1.871 m); minimum, 1.1 ft³/s (0.031 m³/s) Oct. 1-3.

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) June 30, 1956, gage height, 8.0 ft (2.44 m), from floodmarks; no flow July 26-28, 1966.

REMARKS.--Records good except those above 10 ft³/s (0.28 m³/s), which are poor. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	12	4.7	4.1	8.2	63	12	94	4.1	2.9	2.5	1.5
2	1.1	12	4.7	3.5	9.0	34	10	38	5.0	2.9	2.0	1.5
3	1.3	10	5.1	3.8	9.7	21	9.4	16	5.0	2.9	2.0	1.6
4	1.4	5.7	6.4	4.1	11	16	8.6	12	4.7	2.9	2.2	1.6
5	1.3	5.2	5.1	3.8	15	15	8.2	11	4.4	2.9	2.5	1.5
6	1.4	4.8	3.5	3.5	15	12	9.7	14	4.1	2.9	2.5	1.5
7	1.4	4.3	3.8	3.0	17	11	4.6	14	4.1	2.7	2.2	1.6
8	1.5	3.6	4.7	3.0	63	11	4.8	18	3.8	2.7	2.0	1.6
9	5.9	3.4	5.1	3.0	100	10	2.6	18	3.6	2.9	1.6	1.6
10	179	3.0	3.8	3.8	125	9.7	34	14	3.3	2.9	1.6	1.8
11	12	3.5	4.7	6.1	93	9.7	61	12	3.1	2.9	1.8	1.6
12	6.9	4.4	4.1	7.1	59	19	8.6	13	2.9	2.7	1.6	1.5
13	5.2	5.8	4.1	8.2	31	21	120	13	3.1	3.1	1.8	1.6
14	4.2	4.7	2.5	9.4	21	13	140	16	3.1	2.7	1.8	1.6
15	4.7	3.8	1.9	10	20	9.0	112	17	3.1	2.2	1.8	1.6
16	4.8	3.8	2.7	11	16	8.6	85	15	3.1	1.8	1.8	1.6
17	5.2	15	2.1	17	13	8.6	71	14	2.9	1.8	1.8	1.6
18	6.1	17	2.1	16	13	8.2	116	12	2.9	1.9	1.8	1.5
19	7.8	12	2.1	16	12	8.2	97	10	2.7	1.9	1.8	1.5
20	9.8	9.4	4.4	10	11	9.0	62	7.2	2.7	1.9	1.8	1.5
21	12	9.0	4.7	8.2	11	13	44	6.8	2.5	1.8	1.9	1.5
22	11	9.4	6.1	7.1	13	19	40	6.4	2.5	1.8	1.9	1.5
23	10	8.2	7.1	6.7	11	41	35	5.7	2.2	1.9	1.8	1.4
24	11	7.8	7.4	6.7	11	25	37	5.3	2.2	2.5	1.8	1.4
25	11	7.1	8.2	6.7	53	15	66	5.3	2.2	2.5	1.8	1.4
26	12	7.1	8.6	7.1	61	13	84	5.3	2.2	2.2	1.9	1.4
27	12	7.1	8.6	7.1	51	11	89	5.0	2.3	1.9	2.0	1.4
28	12	5.5	9.0	7.1	70	13	92	4.7	2.5	2.3	2.0	1.4
29	13	4.4	7.4	7.4	-----	20	105	4.7	2.7	1.9	1.9	1.4
30	12	4.4	5.5	7.8	-----	16	119	4.4	2.7	2.0	1.6	1.4
31	12	-----	4.7	7.8	-----	13	-----	4.1	-----	2.3	1.5	-----
TOTAL	390.2	213.4	154.9	226.1	940.9	516.0	1,872.9	435.9	95.7	74.6	58.8	45.6
MEAN	12.6	7.11	5.00	7.29	33.6	16.6	62.4	14.1	3.19	2.41	1.90	1.52
MAX	179	17	9.0	17	125	63	140	94	5.0	3.1	2.5	1.8
MIN	1.1	3.0	1.9	3.0	8.2	8.2	8.2	4.1	2.2	1.8	1.5	1.4
AC-FT	774	423	307	448	1,870	1,020	3,710	865	190	148	117	90

CAL YR 1972 TOTAL 1,716.80 MEAN 4.69 MAX 179 MIN .40 AC-FT 3,410
 WTR YR 1973 TOTAL 5,025.00 MEAN 13.8 MAX 179 MIN 1.1 AC-FT 9,970

Peak discharge (base, 300 cfs) Oct. 10 (0530) 1,000 cfs (6.14 ft).

VIRGIN RIVER BASIN

39

09419000 Muddy River near Glendale, Nev.

LOCATION.--Lat 36°38'35", long 114°32'20", in SW $\frac{1}{4}$ sec.7, T.15 S., R.67 E., Clark County, on left bank at the Narrows, 150 ft (46 m) downstream from Weiser Wash, 2 mi (3 km) southwest of Glendale, 2.4 mi (3.9 km) downstream from Meadow Valley Wash, and 4.5 mi (7.2 km) northwest of Logandale.

DRAINAGE AREA.--6,780 mi² (17,600 km²), approximately, of which about 3,000 mi² (7,770 km²) contributes directly to surface runoff.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,460 ft (445 m), from river-profile map. Jan. 1, 1904, to Dec. 31, 1906, nonrecording gage just upstream at different datum. Apr. 22, 1910, to Feb. 21, 1914, nonrecording gage and rating flume at lower end of the Narrows, 1.2 mi (1.9 km) downstream at different datum.

AVERAGE DISCHARGE.--23 years (1950-73), 46.1 ft³/s (1.306 m³/s), 33,400 acre-ft/yr (41.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 616 ft³/s (17.4 m³/s) Oct. 10, gage height, 9.96 ft (3.036 m); minimum daily, 23 ft³/s (0.65 m³/s) Aug. 10.

Period of record: Maximum discharge, 7,380 ft³/s (209 m³/s) Nov. 6, 1960, gage height, 20.36 ft (6.206 m) from rating curve extended above 460 ft³/s (13.0 m³/s) on basis of slope-area measurements at gage heights, 8.42 and 20.36 ft (2.566 and 6.206 m) and logarithmic plotting; minimum, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964, result of temporary storage upstream. Maximum stage known, 30 ft (9.14 m) Mar. 26, 1906 (datum then in use), discharge not determined.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1243: 1906 (M). WSP 1733: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	48	51	45	48	76	53	52	29	31	29	30
2	36	46	47	50	49	91	56	61	30	32	26	28
3	34	43	46	52	48	72	54	48	29	29	25	28
4	33	45	43	53	47	53	44	39	30	29	27	28
5	47	42	44	48	48	52	42	38	32	28	25	27
6	60	43	44	50	45	50	41	43	33	30	26	26
7	37	46	43	50	64	52	43	42	33	29	25	26
8	35	43	42	48	46	54	43	37	34	27	25	26
9	92	42	41	49	47	58	59	37	35	29	25	26
10	241	41	44	49	63	47	56	37	32	28	23	27
11	202	43	46	49	95	47	47	34	31	29	24	27
12	94	45	45	48	109	75	52	34	31	29	24	26
13	40	47	47	48	108	79	79	33	32	31	24	25
14	39	48	44	47	74	71	116	32	31	31	25	25
15	128	46	42	47	60	61	152	35	31	29	25	26
16	41	50	43	50	53	54	125	35	29	29	25	26
17	26	70	44	50	51	53	56	37	29	30	25	27
18	29	55	46	51	50	53	37	37	29	31	27	27
19	34	54	46	53	49	54	63	36	29	29	28	28
20	63	63	44	52	48	57	93	35	29	27	28	31
21	72	58	45	52	48	58	55	35	29	27	27	33
22	46	46	47	52	51	61	41	33	29	29	28	32
23	42	46	46	50	48	58	39	33	30	29	27	34
24	44	46	43	48	55	59	40	33	31	26	27	32
25	47	45	42	47	50	84	38	32	30	27	29	32
26	49	45	43	48	49	79	39	31	27	27	27	35
27	49	43	44	49	61	67	42	30	29	26	27	35
28	50	44	46	51	77	70	48	27	28	25	28	36
29	51	45	46	50	-----	68	47	29	28	25	29	35
30	46	45	45	46	-----	55	49	29	29	29	29	38
31	48	-----	46	47	-----	54	-----	27	-----	28	29	-----
TOTAL	1,891	1,423	1,385	1,529	1,641	1,922	1,749	1,121	908	885	818	882
MEAN	61.0	47.4	44.7	49.3	58.6	62.0	58.3	36.2	30.3	28.5	26.4	29.4
MAX	241	70	51	53	109	91	152	61	35	32	29	38
MIN	26	41	41	45	45	47	37	27	27	25	23	25
AC=FT	3,750	2,820	2,750	3,030	3,250	3,810	3,470	2,220	1,800	1,760	1,620	1,750

CAL YR 1972 TOTAL 16,134 MEAN 44.1 MAX 660 MIN 26 AC=FT 32,000
WTR YR 1973 TOTAL 16,154 MEAN 44.3 MAX 241 MIN 23 AC=FT 32,040

Peak discharge (base, 210 cfs).--Oct. 10 (0645) 616 cfs (9.96 ft). NOTE.--No gage-height record Oct. 30 to Nov. 18, July 19 to Sept. 1.

LAS VEGAS WASH BASIN

09419610 Lee Canyon near Charleston Park, Nev.

LOCATION.--Lat 36°20'25", long 115°39'00", in NE $\frac{1}{4}$ sec.35, T.18 S., R.56 E., Clark County, on right bank 50 ft (15 m) above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi (8.8 km) north of Charleston Park.

DRAINAGE AREA.--9.20 mi² (23.83 km²)

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

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

AVERAGE DISCHARGE.--10 years, 0.041 ft³/s (0.0012 m³/s), 30 acre-ft/yr (37,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 25 ft³/s (0.71 m³/s) Aug. 4, gage height, 0.93 ft (0.283 m); no flow most of the year.
Period of record: Maximum discharge, 880 ft³/s (24.9 m³/s) July 28, 1969, gage height, 3.60 ft, (1.097 m) on basis of slope-area measurement of peak flow; no flow most of the time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											0	
2											0	
3											0	
4											1.2	
5											0	
6											0	
7											0	
8											0	
9											0	
10											0	
11											0	
12											0	
13											0	
14											0	
15											0	
16											0	
17											0	
18											0	
19											0	
20											0	
21											0	
22											0	
23											0	
24											0	
25											0	
26											0	
27											0	
28											0	
29											0	
30											0	
31											0	
TOTAL	0	0	0	0	0	0	0	0	0	0	1.2	0
MEAN	0	0	0	0	0	0	0	0	0	0	.039	0
MAX	0	0	0	0	0	0	0	0	0	0	1.2	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	2.4	0
CAL YR 1972	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0							
WTR YR 1973	TOTAL 1.20	MEAN .0030	MAX 1.2	MIN 0	AC-FT 2.4							

LAS VEGAS VALLEY

41

09419650 Las Vegas Wash at North Las Vegas, Nev.

LOCATION.--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 ft (30 m) upstream from U.S. Highway 91 and 3.5 mi (5.6 km) northeast of Fremont Street, Las Vegas.

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 0.26 ft³/s (0.0074 m³/s), 188 acre-ft/yr (232,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 1,640 ft³/s (46.4 m³/s) May 31 gage height, 4.05 ft (1.234 m); no flow most of year.
Period of record: Maximum discharge, 1,640 ft³/s (46.4 m³/s) May 31, 1973 gage height, 4.05 ft (1.234 m), from slope-area measurement of peak flow; no flow most of the time.

REMARKS.--Records of flow are fair. Flow occurs only at times of flash storms. No diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	1.7	1.2		0	0
2	0	0	0	0	0	0	0	0	0		0	0
3	0	0	0	0	0	0	0	0	0		0	0
4	.09	0	0	0	0	0	0	0	0		.16	0
5	.40	0	.19	0	0	0	0	0	0		.92	0
6	0	0	0	0	2.9	5.0	0	.12	0		.40	.31
7	.28	0	0	0	0	.95	0	0	0		0	.18
8	0	0	0	0	0	1.7	0	0	0		0	0
9	.36	0	0	.09	0	.70	0	0	0		0	0
10	.40	0	0	0	0	.78	0	0	0		0	0
11	0	0	0	0	.29	1.5	0	0	0		0	0
12	0	0	0	0	.33	9.3	0	0	0		0	0
13	0	0	0	0	.22	.16	0	0	0		0	0
14	.36	0	0	0	4.7	0	0	.06	0		0	0
15	0	0	0	0	.54	0	0	0	.07		0	0
16	0	2.4	0	0	0	0	0	0	0		0	0
17	0	8.8	0	0	0	0	0	0	0		0	0
18	0	.06	0	0	0	0	0	0	0		0	0
19	0	0	0	0	0	0	0	0	0		0	0
20	0	0	0	0	0	0	0	0	0		16	0
21	0	0	0	0	1.5	0	0	0	0		2.3	0
22	0	0	0	0	2.9	1.5	0	0	0		.56	0
23	0	0	0	0	.43	.01	0	0	0		0	0
24	0	0	0	0	0	0	0	0	0		0	0
25	0	0	0	0	0	0	0	0	0		0	0
26	0	0	0	0	0	.37	0	.13	0		0	0
27	0	0	0	0	0	1.0	0	.19	0		0	0
28	0	0	0	0	0	.39	0	0	0		0	0
29	0	0	0	0	-----	.10	0	0	0		0	0
30	0	0	0	0	-----	0	16	0	0		0	.05
31	0	-----	0	0	-----	0	-----	127	-----		0	-----
TOTAL	77.13	11.26	.19	.09	13.81	23.46	16	129.20	1.27	0	20.34	.54
MEAN	2.49	.38	.006	.003	.49	.76	.53	4.17	.042	0	.66	.018
MAX	40	8.8	.19	.09	4.7	9.3	16	127	1.2	0	16	.31
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	153	22	.4	.2	27	47	32	256	2.5	0	40	1.1

CAL YR 1972 TOTAL 124.01 MEAN .34 MAX 40 MIN 0 AC-FT 246
WTR YR 1973 TOTAL 293.29 MEAN .80 MAX 127 MIN 0 AC-FT 582

LAS VEGAS VALLEY

09419677 Flamingo Wash at Maryland Parkway, at Las Vegas, Nev.

LOCATION.--Lat 36°07'05", long 115°08'15", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.21 S., R.61 E., Clark County, on right bank 90 ft (27.4 m) upstream from two 10 x 12-ft box culverts under Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.

DRAINAGE AREA.--106 mi² (275 km²), approximately.

PERIOD OF RECORD.--Oct. 1, 1969, to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,976.6 ft (602.47 m), from Clark County Engineering Bench Mark.

EXTREMES.--Current year: Maximum discharge, 31 ft³/s (0.88 m³/s) Nov. 17, gage height, 2.36 ft (0.719 m); no flow most of the year.
Period of record: Maximum discharge, 218 ft³/s (6.17 m³/s) Aug. 14, 1971, gage height, 3.12 ft (0.951 m); no flow most of the time.

Flood of Sept. 12, 1969, reached a stage of 7.55 ft (2.301 m), from floodmarks, discharge, 1,500 ft³/s (42.5 m³/s) from computation of peak flow through culverts.

REMARKS.--Records poor. There is no flow at this station except following heavy rainstorms.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0		0	0	0	0	0	.58			
2		0		0	0	0	0	0	0			
3		0		0	0	0	0	0	0			
4		0		0	0	0	0	0	0			
5		0		0	0	0	0	0	0			
6		0		0	0	.67	0	0	0			
7		0		0	0	.34	0	0	0			
8		0		0	0	0	0	0	0			
9		0		.35	0	0	0	0	0			
10		0		0	0	0	0	0	0			
11		0		0	0	0	0	0	0			
12		0		0	0	8.0	0	0	0			
13		0		0	.13	0	0	0	0			
14		0		0	.36	0	0	0	0			
15		0		0	1.4	0	0	0	0			
16		1.7		.41	0	0	0	0	0			
17		4.7		0	0	0	0	0	0			
18		0		0	0	0	0	0	0			
19		0		0	0	0	0	0	0			
20		0		0	0	0	0	0	0			
21		0		0	0	0	0	0	0			
22		0		0	0	.59	0	0	0			
23		0		0	0	0	0	0	0			
24		0		0	0	.07	0	0	0			
25		0		0	0	0	0	0	0			
26		0		0	0	0	0	0	0			
27		0		0	0	0	0	0	0			
28		0		0	0	.77	0	0	0			
29		0		0	-----	.21	0	0	0			
30		0		0	-----	0	.58	0	0			
31		-----		0	-----	0	-----	.69	-----			-----
TOTAL	0	6.4	0	.76	1.89	10.65	.58	.69	.58	0	0	0
MEAN	0	.21	0	.025	.068	.34	.019	.022	.019	0	0	0
MAX	0	4.7	0	.41	1.4	8.0	.58	.69	.58	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	13	0	1.5	3.7	21	1.2	1.4	1.2	0	0	0
CAL YR 1972	TOTAL	20.50	MEAN	.056	MAX	10	MIN	0	AC-FT	41		
WTR YR 1973	TOTAL	21.55	MEAN	.059	MAX	8.0	MIN	0	AC-FT	43		

09419700 Las Vegas Wash near Henderson, Nev.

LOCATION.--Lat 36°05'20", long 114°59'05", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.21 S., R.63 E., Clark County, on right bank at upstream end of 4.5-ft (1.37 m) pipe culvert on private road, 3.5 mi (5.6 km) north of Henderson, and 6.0 mi (9.7 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m) above mean sea level.

DRAINAGE AREA.--2,125 mi² (5,504 km²), of which 1,518 mi² (3,932 km²) contribute directly to surface runoff. Prior to Apr. 4, 1961, 2,179 mi² (5,644 km²), of which 1,571 mi² (4,069 km²) contributed directly to surface runoff.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft (469 m), from topographic map. Prior to Apr. 4, 1961, at site 2.5 mi (4.0 km) downstream at various datums.

AVERAGE DISCHARGE.--16 years, 28.8 ft³/s (0.816 m³/s), 20,870 acre-ft/yr (25.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 357 ft³/s (10.1 m³/s) Oct. 4, gage height, 7.78 ft (2.371 m); minimum, 14 ft³/s (0.40 m³/s) July 1, 2.

Period of record: Maximum discharge, 1,400 ft³/s (39.6 m³/s) Aug. 21, 1957, gage height, 4.70 ft (1.433 m), site and datum then in use, from rating curve extended above 95 ft³/s (2.69 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 4.8 ft³/s (0.14 m³/s) Aug. 17, 1960.

REMARKS.--Records fair except for periods of no gage-height record, which are poor. In closed basin above station, 2,150 acres (8.70 km²) are irrigated, mostly by pumping from ground water. Discharge includes waste water from industrial plants and sewage effluent. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1926: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	52	55	60	44	53	49	85	99	19	43	53
2	48	54	53	60	43	48	47	55	46	24	42	50
3	47	57	56	59	54	47	44	47	37	26	43	52
4	48	56	57	58	57	45	42	45	36	30	44	53
5	65	57	59	58	56	43	41	43	35	29	45	53
6	58	55	58	57	64	45	47	43	40	34	44	52
7	55	58	58	59	81	75	46	47	37	37	43	53
8	54	54	58	61	62	52	45	52	41	35	44	53
9	52	54	58	67	54	54	47	40	37	37	44	52
10	73	54	58	63	54	46	52	42	34	38	45	53
11	61	57	58	59	57	47	54	53	37	36	42	52
12	54	58	59	60	60	77	43	49	40	34	44	52
13	46	58	59	60	62	93	44	46	39	36	47	52
14	46	60	59	60	60	55	51	51	38	36	50	53
15	78	49	58	59	69	53	51	49	45	35	52	52
16	67	58	57	58	74	59	51	46	45	41	54	51
17	57	110	58	65	61	58	49	47	42	45	54	53
18	55	105	58	58	60	58	44	48	44	44	54	52
19	56	65	58	57	56	58	42	40	45	45	52	52
20	56	60	58	54	59	58	43	38	43	45	57	51
21	56	60	58	58	60	56	39	41	35	48	56	52
22	57	58	54	56	74	58	38	45	30	42	53	52
23	54	58	58	56	64	65	32	43	30	37	54	51
24	58	57	59	54	56	56	43	42	31	38	54	52
25	56	60	56	53	58	54	41	46	30	31	53	51
26	56	61	51	56	57	54	40	44	37	32	52	46
27	57	61	59	47	57	56	43	43	36	33	53	43
28	53	60	61	48	57	60	43	37	30	34	52	37
29	54	54	58	48	-----	59	43	41	27	36	53	39
30	50	56	62	45	-----	49	52	41	26	36	52	46
31	52	-----	61	45	-----	48	-----	32	-----	44	53	-----
TOTAL	1,768	1,816	1,789	1,758	1,670	1,739	1,346	1,421	1,172	1,117	1,528	1,513
MEAN	57.0	60.5	57.7	56.7	59.6	56.1	44.9	45.8	39.1	36.0	49.3	50.4
MAX	88	110	62	67	81	93	54	85	99	48	57	53
MIN	46	49	51	45	43	43	32	32	26	19	42	37
AC-FT	3,510	3,600	3,550	3,490	3,310	3,450	2,670	2,820	2,220	2,220	3,030	3,000

CAL YR 1972 TOTAL 16,899 MEAN 46.2 MAX 114 MIN 20 AC-FT 33,520
WTR YR 1973 TOTAL 18,637 MEAN 51.1 MAX 110 MIN 19 AC-FT 36,970

NOTE.--Partial or no gage-height record Nov. 29 to Dec. 20, Aug. 1 to Sept. 24.

LAS VEGAS VALLEY

09419800 Las Vegas Wash near Boulder City, Nev.

LOCATION.--Lat 36°07'20", long 114°54'15", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.21 S., R.63 E., Clark County, on left bank near mouth, on upstream side of lake shore highway, and 11 mi (18 km) north-northwest of Boulder City.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 177 ft³/s (5.01 m³/s) Nov. 18, gage height, 4.82 ft (1.469 m); maximum gage height, 4.91 ft (1.497 m) Feb. 7; minimum daily discharge, 30 ft³/s (0.85 m³/s) July 2.

Period of record: Maximum discharge, 485 ft³/s (13.7 m³/s) Aug. 14, 1972, gage height, 5.65 ft (1.722 m); minimum, 14 ft³/s (0.40 m³/s) July 7, 8, 1971.

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

REMARKS.--Records poor. In closed basin above station, 2,150 acres (8.70 km²) are irrigated, mostly by pumping from ground water. Discharge includes sewage effluent. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	69	76	78	63	71	62	71	62	31	49	52
2	58	69	76	76	62	69	59	81	95	30	52	54
3	60	71	72	74	65	64	58	59	45	33	54	55
4	74	73	76	72	75	62	53	51	38	36	55	53
5	118	71	79	72	76	60	53	52	42	38	59	54
6	80	72	82	71	76	55	57	55	41	40	55	55
7	76	73	79	72	113	60	59	54	42	43	55	56
8	71	76	78	74	95	75	58	61	42	43	55	54
9	69	71	79	80	78	72	58	57	38	46	56	54
10	69	73	79	88	72	59	62	57	40	47	58	56
11	85	75	80	82	72	65	65	60	41	46	56	54
12	72	75	80	76	73	79	67	69	41	43	56	56
13	68	76	82	74	75	106	59	62	40	45	58	55
14	63	79	82	74	78	72	62	57	46	46	58	54
15	66	78	80	73	78	69	69	62	46	46	60	56
16	91	80	82	73	91	73	67	60	46	49	60	58
17	80	99	80	74	88	73	68	60	45	55	62	56
18	75	128	82	78	76	73	60	61	46	57	57	54
19	75	106	80	80	73	72	57	59	46	56	51	58
20	73	88	80	76	71	73	53	58	45	56	59	56
21	73	81	79	70	73	69	52	57	39	55	80	55
22	72	75	75	70	78	71	46	60	34	59	57	54
23	72	75	78	70	86	77	41	59	34	49	52	56
24	71	75	76	69	80	72	47	47	36	47	46	57
25	73	75	76	69	72	68	51	48	37	44	50	54
26	73	76	73	68	72	67	58	47	41	41	52	55
27	73	76	76	68	71	70	57	47	44	42	53	57
28	73	75	80	67	71	72	60	41	41	41	52	62
29	71	75	78	68	-----	73	59	41	35	44	54	57
30	68	75	78	68	-----	69	59	42	34	43	52	54
31	66	-----	78	64	-----	62	-----	47	-----	51	53	-----
TOTAL	2,270	2,360	2,431	2,268	2,153	2,172	1,736	1,742	1,302	1,402	1,726	1,661
MEAN	73.2	78.7	78.4	73.2	76.9	70.1	57.9	56.2	43.4	45.2	55.7	55.4
MAX	118	128	82	88	113	106	69	81	95	59	80	62
MIN	58	69	72	64	62	55	41	41	34	30	46	52
AC-FT	4,500	4,680	4,820	4,500	4,270	4,310	3,440	3,460	2,580	2,780	3,420	3,290

CAL YR 1972 TOTAL 20,966 MEAN 57.3 MAX 185 MIN 24 AC-FT 41,590
 WTR YR 1973 TOTAL 23,223 MEAN 63.6 MAX 128 MIN 30 AC-FT 46,060

NOTE.--No gage-height record Jan. 3-26, May 31 to June 25, Aug. 24 to Sept. 27.

COLORADO RIVER MAIN STEM

45

09421000 Lake Mead at Hoover Dam, Ariz.-Nev.

LOCATION.--Lat 36°00'58", long 114° 44'13", in NE 1/4 SW 1/4 sec. 3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--167,800 mi² (434,600 km²), approximately.

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".

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.40 ft (0.122 m) above mean sea level, used locally as at mean sea level, powerhouse datum.

EXTREMES.--Current year: Maximum contents, 21,081,000 acre-ft (26,000 hm³) May 6, gage height, 1,186.98 ft (361.792 m); minimum, 17,464,000 acre-ft (21,500 hm³) Oct. 4, gage height, 1,158.60 ft (353.141 m).

Period of record: Maximum contents, 27,790,000 acre-ft (34,300 hm³) July 29, 30, 1941, gage height, 1,220.45 ft (371.993 m); minimum (since 1940), 10,695,000 acre-ft (13,200 hm³) Apr. 26, 1956, gage height, 1,083.21 ft (330.162 m).

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

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

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

REVISIONS (WATER YEARS).--WSP 899: 1935-39.

CONTENTS, IN THOUSANDS OF ACRE-Feet, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,471	17,810	18,104	18,674	19,209	19,464	20,021	21,004	20,937	21,006	20,772	20,443
2	17,475	17,819	18,121	18,684	19,217	19,471	20,048	21,047	20,940	21,004	20,742	20,434
3	17,473	17,829	18,142	18,691	19,235	19,482	20,077	21,070	20,952	20,992	20,741	20,430
4	17,464	17,844	18,156	18,709	19,252	19,496	20,108	21,071	20,936	20,999	20,741	20,420
5	17,467	17,859	18,164	18,719	19,252	19,504	20,144	21,073	20,914	20,997	20,749	20,398
6	17,470	17,865	18,164	18,742	19,251	19,513	20,170	21,081	20,905	20,978	20,743	20,378
7	17,480	17,866	18,172	18,774	19,237	19,523	20,211	21,075	20,912	20,982	20,731	20,363
8	17,510	17,860	18,190	18,794	19,238	19,536	20,247	21,060	20,926	20,992	20,714	20,355
9	17,531	17,869	18,210	18,806	19,248	19,533	20,274	21,053	20,941	20,993	20,692	20,347
10	17,542	17,878	18,218	18,836	19,265	19,541	20,296	21,047	20,966	20,984	20,678	20,339
11	17,550	17,896	18,233	18,864	19,281	19,554	20,323	21,038	20,978	20,974	20,678	20,320
12	17,560	17,909	18,245	18,882	19,280	19,554	20,360	21,049	20,977	20,971	20,682	20,311
13	17,561	17,915	18,267	18,913	19,278	19,546	20,384	21,060	20,992	20,969	20,665	20,296
14	17,580	17,921	18,292	18,945	19,280	19,548	20,429	21,053	20,982	20,978	20,647	20,284
15	17,594	17,920	18,321	18,960	19,286	19,562	20,479	21,040	20,978	20,985	20,631	20,276
16	17,601	17,948	18,352	18,954	19,293	19,588	20,518	21,030	20,988	20,986	20,620	20,280
17	17,605	17,968	18,380	18,962	19,315	19,612	20,561	21,017	20,993	20,967	20,606	20,272
18	17,602	17,994	18,401	18,970	19,333	19,641	20,598	21,000	20,988	20,963	20,596	20,259
19	17,616	18,017	18,418	18,984	19,344	19,658	20,629	20,997	20,963	20,952	20,580	20,245
20	17,652	18,018	18,437	19,014	19,335	19,647	20,662	21,008	20,952	20,940	20,564	20,223
21	17,707	18,021	18,459	19,038	19,330	19,655	20,699	21,010	20,951	20,937	20,557	20,211
22	17,733	18,026	18,483	19,060	19,362	19,676	20,742	20,999	20,951	20,939	20,545	20,211
23	17,758	18,042	18,516	19,065	19,388	19,695	20,770	20,991	20,961	20,926	20,534	20,210
24	17,774	18,065	18,547	19,089	19,415	19,725	20,793	20,984	20,971	20,905	20,532	20,204
25	17,792	18,077	18,562	19,113	19,434	19,768	20,815	20,980	20,967	20,886	20,536	20,189
26	17,811	18,081	18,571	19,130	19,444	19,796	20,834	20,982	20,962	20,865	20,537	20,172
27	17,822	18,084	18,567	19,146	19,446	19,814	20,857	20,986	20,965	20,842	20,530	20,165
28	17,828	18,086	18,568	19,173	19,453	19,854	20,895	20,977	20,971	20,845	20,514	20,160
29	17,837	18,083	18,588	19,193	-----	19,891	20,932	20,954	20,980	20,842	20,494	20,164
30	17,830	18,088	18,615	19,192	-----	19,933	20,966	20,937	20,993	20,818	20,469	20,176
31	17,819	-----	18,645	19,200	-----	19,980	-----	20,937	-----	20,796	20,445	-----
(*)	1,161.59	1,163.82	1,168.35	1,172.75	1,174.73	1,178.78	1,186.14	1,185.93	1,186.34	1,184.89	1,182.28	1,180.26
(†)	+368,000	+269,000	+557,000	+555,000	+253,000	+527,000	+986,000	-29,000	+56,000	-197,000	-351,000	-269,000
(‡)	5,850	4,350	4,660	4,540	4,000	4,640	6,060	6,890	8,520	10,150	9,540	8,080
(**)	7.3	5.8	6.8	4.5	2.2	3.3	4.3	5.7	8.1	11.1	10.5	10.0
(††)	72,200	58,300	69,600	47,300	23,500	35,700	48,000	64,800	92,000	126,100	119,200	112,200

CAL YR 1972..... † +1,000,000 ‡ 69,820 ** 77.9 †† 760,700
WTR YR 1973..... † +2,725,000 ‡ 77,280 ** 79.6 †† 868,900

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

† Change, in contents, in acre-feet.

‡ Diversions, in acre-feet.

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

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

NOTE.--Figures of gross evaporation are based on data obtained on Lake Mead by the Bureau of Reclamation and at Las Vegas by National Weather Service, and are computed by the Geological Survey using methods described in Geological Survey Professional Paper 298. "Gross" denotes the total evaporation from the lake without deductions for precipitation on the lake surface or for natural losses that would have occurred in the area now occupied by the lake.

COLORADO RIVER MAIN STEM

09421500 Colorado River below Hoover Dam, Ariz.-Nev.

LOCATION.--Lat 36°00'55", long 114°44'16", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--167,800 mi² (434,600 km²), approximately.

PERIOD OF RECORD.--October 1933 to current year. Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Totalizing flowmeters on each turbine in Hoover Dam powerhouse. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi (14 km) downstream at datum 594.8 ft (181.30 m) above mean sea level. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 600.35 ft (182.987 m) above mean sea level.

AVERAGE DISCHARGE.--39 years (1934-73), 13,460 ft³/s (381.2 m³/s), 9,752,000 acre-ft/yr (12,000 hm³/yr) unadjusted for storage in Lake Mead.

EXTREMES.--Current year: Maximum daily discharge, 22,200 ft³/s (629 m³/s) May 23; minimum daily, 2,970 ft³/s (84.1 m³/s) Dec. 24. Period of record: Maximum daily discharge, 36,000 ft³/s (1,020 m³/s) Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily discharge, 152 ft³/s (4.30 m³/s) Feb. 10, 1935.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935. Many diversions above station for irrigation, industrial, and municipal use. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,440	12,100	6,500	4,210	12,800	7,240	8,620	14,500	16,400	6,970	17,900	11,000
2	11,800	9,600	5,260	8,870	13,100	7,990	13,800	15,300	13,100	13,200	17,100	8,590
3	13,000	8,790	4,240	8,860	8,080	5,500	13,400	16,500	8,080	15,700	15,100	9,340
4	12,000	4,060	7,550	10,800	6,760	5,260	11,700	15,600	15,300	8,790	7,320	13,600
5	10,300	4,040	7,040	14,300	12,600	8,860	15,000	12,400	19,400	14,600	7,510	14,300
6	11,500	6,800	10,900	7,870	12,700	11,800	14,500	7,210	16,100	15,200	12,600	17,200
7	6,840	7,690	7,430	7,070	14,700	10,700	10,800	16,500	12,600	10,700	14,900	14,300
8	3,340	7,400	8,800	9,650	14,500	10,700	9,040	17,600	10,500	8,570	14,200	11,800
9	9,860	7,540	9,380	8,240	12,700	14,100	15,900	16,500	10,800	14,300	20,000	9,970
10	7,530	7,210	9,810	8,130	6,900	7,390	16,000	17,600	4,790	15,300	15,500	12,200
11	9,000	5,180	9,030	7,940	6,230	7,790	15,900	18,600	9,030	16,600	9,240	13,900
12	9,840	3,000	7,350	10,200	14,400	13,900	11,500	10,000	10,100	15,800	8,820	11,200
13	12,800	8,180	5,390	5,120	12,800	13,700	17,300	7,910	10,600	17,400	15,300	12,400
14	5,790	8,250	6,350	5,700	13,800	11,600	10,100	19,500	11,700	8,740	16,100	10,900
15	5,200	8,380	6,210	10,300	13,800	10,800	7,840	20,300	13,000	7,790	16,400	8,530
16	10,800	8,850	4,260	13,300	12,900	7,590	14,600	19,500	5,010	11,700	15,700	5,010
17	12,700	4,910	3,360	11,300	7,350	4,030	14,600	20,500	4,630	14,300	16,700	11,600
18	10,500	3,860	4,710	9,910	5,250	3,040	17,600	20,800	12,300	13,700	17,100	12,100
19	8,040	4,760	4,620	11,500	7,660	9,150	19,500	19,700	15,600	13,900	15,800	10,900
20	5,010	11,600	5,250	8,510	14,500	12,900	16,400	13,200	15,100	13,400	13,000	14,800
21	3,020	8,660	4,910	7,330	12,400	11,400	14,300	19,200	13,900	13,600	16,500	13,900
22	3,480	7,120	4,570	8,370	4,350	12,400	11,900	21,200	13,100	8,180	14,200	7,040
23	3,530	3,150	3,830	10,700	5,320	11,300	17,800	22,200	7,920	13,400	15,600	5,590
24	6,130	3,560	2,970	8,700	5,820	11,700	17,300	19,100	6,160	16,700	13,700	11,200
25	6,690	3,200	3,490	8,120	4,180	7,870	18,800	17,000	12,600	16,100	8,360	13,300
26	7,720	2,980	6,620	10,400	7,550	13,600	20,200	14,400	11,700	17,200	6,620	13,000
27	10,700	6,610	7,120	7,670	7,320	13,700	20,100	10,000	11,900	17,900	11,300	12,200
28	8,040	7,480	6,550	6,470	8,640	13,000	13,400	14,000	12,900	9,600	11,700	11,000
29	6,090	7,390	8,720	12,100	-----	10,400	12,300	19,900	13,200	8,090	14,400	6,910
30	10,800	7,850	5,290	15,500	-----	11,300	15,800	16,600	6,940	19,300	18,700	4,640
31	12,300	-----	3,230	15,800	-----	7,170	-----	16,300	-----	18,300	14,600	-----
TOTAL	260,810	200,200	191,140	292,940	279,110	307,880	436,000	509,620	344,460	415,030	431,970	332,420
MEAN	8,413	6,473	6,166	9,450	9,968	9,932	14,530	16,440	11,480	13,390	13,930	11,080
MAX	13,000	12,100	10,900	15,800	14,700	14,100	20,200	22,200	19,400	19,300	20,000	17,200
MIN	3,020	2,960	2,970	4,210	4,180	3,040	7,840	7,210	4,630	6,970	6,620	4,640
AC-FT	517,300	397,100	379,100	581,000	553,600	610,700	864,800	1,011M	683,200	823,200	856,800	659,400
CAL YR 1972	TOTAL 4,082,430		MEAN 11,160		MAX 27,400		MIN 2,970		AC-FT 8,099,000			
WTR YR 1973	TOTAL 4,001,580		MEAN 10,960		MAX 22,200		MIN 2,970		AC-FT 7,937,000			

COLORADO RIVER MAIN STEM

47

09422500 Lake Mohave at Davis Dam, Ariz.-Nev.

LOCATION.--Lat 35°11'50", long 114°34'07", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi (47 km) west of Kingman, Ariz., and 67 mi (108 km) downstream from Hoover Dam.

DRAINAGE AREA.--169,300 mi² (438,500 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current Year: Maximum contents, 1,800,000 acre-ft (2,220 hm³) June 8, elevation, 646.64 ft (197.096 m); minimum, 1,392,000 acre-ft (1,720 hm³) Oct. 2, elevation, 631.32 ft (192.426 m).
Period of record: Maximum contents, 1,811,000 acre-ft (2,230 hm³) May 24, 1958, May 29, 1963; maximum elevation, 647.04 ft (197.218 m) May 29, 1963; minimum contents (since 1952), 1,168,000 acre-ft (1,440 hm³) Sept. 8, 1953, elevation, 622.15 ft (189.631 m).

REMARKS.--Reservoir if formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft (2,230 hm³) between elevations 533.39 ft (162.577 m)--lowest point of penstock outlet--and 647.0 ft (197.21 m)--top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft (10.5 hm³) below elevation 533.39 ft (162.577 m). Lake is used for power development, re-regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

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

630	1,359,000
635	1,486,000
640	1,618,000
645	1,754,000
647	1,810,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,396	1,588	1,601	1,506	1,616	1,743	1,678	1,606	1,779	1,626	1,497	1,505
2	1,401	1,590	1,596	1,504	1,621	1,738	1,677	1,604	1,778	1,619	1,501	1,499
3	1,406	1,589	1,593	1,504	1,614	1,724	1,677	1,606	1,772	1,618	1,503	1,490
4	1,412	1,577	1,593	1,505	1,612	1,721	1,669	1,603	1,777	1,604	1,491	1,489
5	1,412	1,572	1,593	1,516	1,616	1,712	1,664	1,598	1,789	1,599	1,483	1,491
6	1,428	1,567	1,601	1,514	1,622	1,709	1,658	1,589	1,796	1,599	1,477	1,497
7	1,436	1,564	1,600	1,514	1,631	1,700	1,648	1,593	1,798	1,588	1,472	1,494
8	1,440	1,564	1,600	1,518	1,644	1,694	1,641	1,600	1,795	1,582	1,470	1,490
9	1,454	1,564	1,600	1,522	1,649	1,697	1,638	1,604	1,788	1,578	1,483	1,485
10	1,465	1,556	1,608	1,522	1,647	1,695	1,636	1,615	1,773	1,580	1,479	1,481
11	1,472	1,546	1,608	1,525	1,647	1,697	1,631	1,620	1,756	1,585	1,465	1,480
12	1,482	1,540	1,608	1,532	1,663	1,711	1,619	1,613	1,750	1,588	1,457	1,475
13	1,492	1,537	1,604	1,529	1,674	1,728	1,621	1,606	1,744	1,592	1,456	1,475
14	1,497	1,535	1,600	1,525	1,689	1,742	1,608	1,613	1,739	1,576	1,457	1,470
15	1,497	1,541	1,593	1,527	1,704	1,751	1,601	1,630	1,736	1,565	1,462	1,460
16	1,506	1,550	1,583	1,539	1,717	1,750	1,593	1,643	1,717	1,554	1,464	1,447
17	1,515	1,556	1,577	1,551	1,717	1,740	1,589	1,656	1,703	1,547	1,474	1,444
18	1,529	1,560	1,571	1,562	1,717	1,731	1,592	1,666	1,705	1,537	1,478	1,444
19	1,539	1,564	1,566	1,568	1,713	1,725	1,596	1,676	1,709	1,537	1,483	1,441
20	1,545	1,581	1,562	1,571	1,715	1,725	1,593	1,680	1,709	1,532	1,481	1,444
21	1,546	1,594	1,564	1,573	1,734	1,724	1,587	1,691	1,712	1,523	1,491	1,445
22	1,548	1,605	1,562	1,568	1,734	1,720	1,585	1,710	1,712	1,514	1,499	1,433
23	1,551	1,606	1,553	1,573	1,740	1,712	1,587	1,729	1,698	1,506	1,511	1,421
24	1,559	1,609	1,553	1,574	1,748	1,707	1,589	1,742	1,686	1,506	1,517	1,419
25	1,565	1,607	1,547	1,576	1,752	1,704	1,592	1,746	1,680	1,506	1,508	1,425
26	1,565	1,606	1,543	1,582	1,752	1,705	1,604	1,743	1,674	1,505	1,498	1,432
27	1,573	1,605	1,539	1,579	1,751	1,705	1,608	1,741	1,667	1,511	1,497	1,434
28	1,572	1,603	1,534	1,578	1,748	1,708	1,602	1,743	1,663	1,499	1,493	1,432
29	1,575	1,601	1,532	1,585	-----	1,698	1,603	1,759	1,657	1,490	1,494	1,421
30	1,580	1,600	1,524	1,596	-----	1,693	1,607	1,765	1,639	1,491	1,504	1,412
31	1,582	-----	1,520	1,607	-----	1,679	-----	1,773	-----	1,494	1,506	-----
MAX	1,582	1,609	1,608	1,607	1,752	1,751	1,678	1,773	1,798	1,626	1,517	1,505
MIN	1,396	1,535	1,520	1,504	1,612	1,679	1,585	1,589	1,639	1,490	1,456	1,412
(†)	638.68	639.36	636.32	639.60	644.78	642.28	639.60	645.68	640.80	635.30	635.80	632.13
(‡)	+178,000	+18,000	-80,000	+87,000	+141,000	-69,000	-72,000	+166,000	-134,000	-145,000	+12,000	-94,000
CAL YR 1972	MAX 1,751	MIN 1,390										
WTR YR 1973	MAX 1,798	MIN 1,396										

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

NOTE.--All figures of contents expressed in thousands.

COLORADO RIVER MAIN STEM

09423000 Colorado River below Davis Dam, Ariz.-Nev.

LOCATION.--Lat 35°11'30", long 114°34'17", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T. 32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

DRAINAGE AREA.--169,300 mi² (438,500 km²), approximately.

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 500.00 ft (152.40 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. 1905-7, nonrecording gage at site 4.8 mi (7.7 km) downstream at datum about 13.4 ft (4.1 m) lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi (0.8 km) downstream at present datum. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft (120 m) upstream at present datum.

AVERAGE DISCHARGE.--24 years (1949-73), 12,690 ft³/s (359.4 m³/s), 9,194,000 acre-ft/yr (11,300 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,500 ft³/s (750 m³/s) Aug. 10, elevation, 506.00 ft (154.229 m); minimum daily, 1,870 ft³/s (53.0 m³/s) Feb. 22-25.
1905-7: Maximum daily discharge, 116,000 ft³/s (3,290 m³/s) June 20, 1906; minimum daily, 2,850 ft³/s (80.7 m³/s) Jan. 5, 1906.
1949-73: Maximum discharge, 31,200 ft³/s (884 m³/s) Apr. 22, 1952, elevation, 513.91 ft (156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 3, 1950.

REMARKS.--Records excellent. 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. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,600	9,000	6,120	9,990	8,880	10,600	10,400	14,700	12,400	13,200	15,300	12,200
2	11,400	9,300	7,270	7,850	10,600	11,500	14,000	16,700	13,100	17,100	14,700	12,100
3	10,100	9,120	5,250	10,200	12,000	13,400	13,200	15,000	11,900	16,300	14,200	13,200
4	9,300	9,950	9,140	10,100	7,980	7,010	15,300	16,600	12,900	16,300	13,900	14,000
5	10,400	7,660	7,100	8,210	10,700	13,800	16,200	16,300	13,000	16,000	13,100	13,800
6	3,410	9,060	5,800	9,790	10,000	15,300	17,300	11,800	12,800	15,100	15,100	13,700
7	1,900	9,550	8,480	6,760	9,810	15,800	18,200	14,300	12,000	16,500	14,900	15,200
8	1,900	7,400	9,260	7,980	7,840	17,400	11,800	14,200	12,500	11,900	14,200	14,800
9	1,920	7,440	9,990	6,900	10,200	11,100	16,200	14,300	15,000	15,100	13,100	12,400
10	1,920	10,700	5,730	8,470	7,790	8,660	18,200	13,700	12,800	14,300	17,400	14,000
11	4,840	10,900	8,330	5,630	6,790	8,510	18,400	13,800	16,800	13,700	18,100	14,600
12	3,920	7,190	8,500	7,380	6,900	6,990	18,400	13,700	13,800	13,100	13,400	13,500
13	6,740	9,930	7,910	7,300	6,730	4,680	16,200	11,600	13,400	15,100	15,400	12,400
14	3,260	8,490	8,280	6,900	5,860	4,810	18,300	14,200	14,300	17,100	15,900	14,000
15	4,860	6,940	9,290	8,550	5,840	4,830	11,300	12,200	15,000	13,200	13,300	13,300
16	4,980	5,960	9,350	7,890	5,670	8,460	18,200	12,100	15,000	17,200	15,200	12,100
17	7,020	1,990	7,000	4,320	7,150	8,880	18,400	13,500	12,100	17,400	11,500	12,700
18	3,060	1,990	7,400	4,820	6,750	7,890	15,300	15,200	11,800	17,200	15,000	12,400
19	1,990	2,960	8,150	7,800	9,600	13,200	17,200	14,900	12,000	14,200	12,400	12,600
20	1,990	2,020	7,550	7,280	12,600	12,800	18,000	11,700	14,100	16,800	15,300	12,800
21	1,990	1,990	3,990	6,940	3,520	13,000	18,100	12,400	12,100	17,300	11,100	13,600
22	2,000	2,000	5,790	10,800	1,870	15,600	12,200	9,960	13,300	13,200	9,800	13,100
23	2,000	2,000	8,750	8,190	1,870	15,300	16,100	11,600	15,200	17,200	8,680	12,700
24	2,000	2,000	4,980	7,510	1,870	15,200	16,300	11,600	13,200	16,300	10,600	11,700
25	2,000	4,230	5,910	7,470	1,870	9,650	17,800	15,000	15,300	15,900	12,600	10,500
26	6,850	2,740	7,470	7,330	7,780	13,400	13,700	15,600	15,200	17,100	11,600	8,780
27	7,150	7,230	8,550	9,310	8,410	13,200	17,800	11,700	15,300	15,000	11,900	10,400
28	7,680	8,080	10,500	6,520	11,000	11,800	17,000	12,900	14,500	15,700	13,900	12,000
29	6,940	8,020	10,100	8,790	-----	16,300	11,900	11,900	15,400	13,100	13,300	12,500
30	7,730	8,190	10,000	9,380	-----	14,200	14,800	12,900	17,300	17,100	13,400	10,100
31	8,050	-----	8,020	9,910	-----	14,300	-----	11,600	-----	17,800	14,200	-----
TOTAL	159,900	194,030	239,960	246,270	207,880	357,570	476,200	417,660	413,500	482,500	422,480	381,180
MEAN	5,158	6,468	7,741	7,944	7,424	11,530	15,870	13,470	13,780	15,560	13,630	12,710
MAX	11,400	10,900	10,500	10,800	12,600	17,400	18,400	16,700	17,300	17,800	18,100	15,200
MIN	1,900	1,990	3,990	4,320	1,870	4,680	10,400	9,960	11,800	11,900	8,680	8,780
AC-FT	317,200	384,900	476,000	488,500	412,300	709,200	944,500	828,400	820,200	957,000	838,000	756,100
CAL YR 1972	TOTAL 4,169,170		MEAN 11,390		MAX 20,000		MIN 1,900		AC-FT 8,270,000			
WTR YR 1973	TOTAL 3,999,130		MEAN 10,960		MAX 18,400		MIN 1,870		AC-FT 7,932,000			

RUBY VALLEY

49

10244720 (revised) Franklin River near Arthur, Nev.

LOCATION.--Lat 40°49'25", long 115°08'10", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.34 N., R.61 E., Elko County, on right bank 1 mi (1.6 km) above Horse Creek and 3.5 mi (5.6 km) northeast of Arthur.

DRAINAGE AREA.--10.3 mi² (26.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft (2,001.713 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--9 years, 11.6 ft³/s (0.329 m³/s), 8,400 acre-ft/yr (10.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 140 ft³/s (3.96 m³/s) May 18, gage height, 2.54 ft (0.774 m); minimum, 1.2 ft³/s (0.034 m³/s) Oct. 29.

Period of record: Maximum discharge, 152 ft³/s (4.30 m³/s) June 20, 1967, gage height, 2.32 ft (0.707 m); maximum gage height, 2.54 ft (0.774 m) May 18, 1973; minimum daily discharge, 0.77 ft³/s (0.022 m³/s) Sept. 6-9, 1966.

REMARKS.--Records good except those for winter periods, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.9	2.3	2.0	1.8	2.2	5.8	22	67	22	4.0	2.6
2	2.3	3.0	2.3	2.0	1.9	2.2	6.1	23	57	20	3.8	2.4
3	2.2	3.0	2.3	2.0	2.0	2.1	5.5	27	49	18	4.4	2.3
4	3.3	3.1	2.3	2.0	2.3	2.0	6.4	30	45	17	4.8	2.1
5	4.3	2.9	2.1	2.0	2.3	2.0	7.6	31	47	17	4.1	2.0
6	2.9	2.7	2.2	2.0	2.5	2.0	9.7	30	50	16	3.7	2.0
7	2.8	2.7	2.3	2.0	2.5	2.1	8.5	30	53	14	3.3	2.0
8	2.7	2.7	2.2	2.0	2.5	2.2	8.4	35	56	13	3.2	2.1
9	2.7	2.5	2.1	2.0	2.5	2.2	8.9	40	58	12	3.1	2.0
10	4.0	2.5	2.1	2.0	2.6	2.2	11	45	56	12	2.9	1.8
11	3.2	2.4	2.1	2.2	2.7	2.3	11	50	50	12	2.8	1.8
12	3.0	2.4	2.1	2.6	2.7	2.2	12	61	45	13	2.7	1.7
13	3.0	2.4	2.0	3.2	2.6	2.1	13	74	42	15	2.5	1.6
14	3.0	2.6	2.0	2.7	2.3	2.3	11	84	53	12	2.4	1.6
15	2.9	2.7	2.0	2.6	2.2	2.4	11	87	37	10	2.5	1.6
16	3.1	2.6	2.0	2.5	2.1	2.6	11	96	32	8.9	2.3	1.6
17	3.0	2.6	2.1	2.6	2.1	2.7	12	98	30	8.2	2.3	1.6
18	3.3	2.6	2.2	2.6	2.1	2.8	10	118	25	7.6	2.2	1.6
19	4.9	2.6	2.3	2.4	2.0	2.9	9.3	119	25	7.4	2.1	1.5
20	4.4	2.6	2.4	2.3	1.9	3.2	8.9	104	26	9.3	2.1	1.5
21	4.2	2.5	2.5	2.3	1.8	4.6	8.2	85	28	7.4	2.3	1.7
22	3.8	2.4	2.4	2.1	1.7	5.3	9.3	78	30	6.9	2.4	1.7
23	3.5	2.4	2.3	2.0	1.9	5.3	12	79	30	6.6	2.2	2.0
24	3.3	2.5	2.3	2.0	2.2	5.2	15	79	30	6.2	2.0	2.1
25	3.2	2.7	2.2	1.9	2.0	5.4	20	82	30	5.8	2.0	2.5
26	3.2	2.7	2.3	1.9	2.0	5.6	24	63	31	5.3	2.0	2.2
27	3.0	2.6	2.3	1.9	2.0	5.2	28	53	30	5.1	2.0	2.0
28	3.0	2.6	2.2	1.9	2.2	5.1	29	53	30	4.8	2.0	1.9
29	2.8	2.4	2.2	1.9	-----	4.8	29	55	27	4.9	1.9	1.9
30	2.8	2.4	2.1	1.9	-----	4.8	24	61	24	4.7	2.0	1.8
31	2.8	-----	2.1	1.9	-----	5.1	-----	64	-----	4.2	2.1	-----
TOTAL	99.0	78.7	68.3	67.4	61.4	103.1	386.1	1,956	1,193	326.3	84.1	57.2
MEAN	3.19	2.62	2.20	2.17	2.19	3.33	12.9	63.1	39.8	10.5	2.71	1.91
MAX	4.9	3.1	2.5	3.2	2.7	5.6	29	119	67	22	4.8	2.6
MIN	2.2	2.4	2.0	1.9	1.7	2.0	5.5	22	24	4.2	1.9	1.5
AC-FT	146	156	135	134	122	204	766	3,880	2,370	647	167	113

CAL YR 1972 TOTAL 3,988.9 MEAN 10.9 MAX 61 MIN 1.7 AC-FT 7,910
 WTR YR 1973 TOTAL 4,480.6 MEAN 12.3 MAX 119 MIN 1.5 AC-FT 8,890

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-18	1800	2.54	140	6-09	1900	2.10	72
5-31	2000	2.15	79	6-14	0300	2.09	71

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¹/₄SW¹/₄ sec.32, T.16 N., R.65 E., White Pine County, on left bank 0.1 mi (0.2 km) downstream from Clear Creek, 0.8 mi (1.3 km) upstream from Cave Creek, and 11 mi (18 km) east-southeast of Ely.

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

AVERAGE DISCHARGE.--7 years, 7.35 ft³/s (0.208 m³/s), 5,330 acre-ft/yr (6.57 hm³/yr).

Period of record: Maximum discharge, 36 ft³/s (1.02 m³/s) May 20, 21, 1973, gage height, 2.70 ft (0.823 m); maximum gage height, 2.73 ft (0.832 m) June 19, 1967; minimum discharge, 2.0 ft³/s (0.057 m³/s) Dec. 22, 1966, Mar. 3, 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.8	3.8	3.2	2.8	2.8	2.8	13	30	19	11	7.1
2	3.8	3.8	3.8	3.2	2.8	2.6	2.4	12	30	19	10	7.0
3	3.6	3.8	3.8	3.2	2.8	2.4	2.8	13	29	18	10	6.9
4	3.8	3.8	3.6	3.0	2.8	2.8	2.8	15	29	18	11	6.8
5	3.8	3.8	3.4	3.0	2.8	2.8	3.4	16	28	17	10	6.8
6	3.8	3.6	3.4	3.0	2.8	2.6	4.0	16	27	17	9.8	6.7
7	3.8	3.8	3.6	3.0	2.8	2.8	3.8	15	28	17	9.8	6.6
8	3.8	3.8	3.6	3.0	2.8	2.8	3.6	16	28	17	9.8	6.7
9	3.8	3.8	3.4	3.0	2.8	2.8	4.2	17	29	16	9.5	6.8
10	3.8	3.8	3.4	2.8	2.8	2.8	4.4	20	29	16	9.5	6.6
11	3.8	3.8	3.6	2.8	3.0	2.8	5.0	22	28	16	9.3	6.5
12	4.0	3.8	3.6	2.8	3.0	2.8	5.6	27	28	15	9.3	6.4
13	3.8	3.8	3.4	2.8	3.0	3.0	6.2	28	28	15	9.3	6.1
14	4.0	3.8	3.4	2.8	2.8	2.6	6.4	32	28	15	9.3	6.0
15	3.8	3.6	3.4	2.8	2.8	2.8	6.0	33	27	14	9.0	5.9
16	3.8	3.6	3.4	3.0	2.8	2.8	6.0	33	26	14	8.8	5.9
17	3.8	3.6	3.4	3.0	2.8	3.0	6.4	34	25	14	8.8	5.8
18	3.8	3.4	3.4	3.0	2.8	3.0	6.4	34	25	14	8.5	5.7
19	4.0	3.4	3.4	2.6	2.6	2.8	6.2	33	24	14	8.5	5.7
20	4.0	3.4	3.4	2.6	2.8	3.0	5.8	34	23	13	8.5	5.7
21	4.0	3.4	3.2	2.8	2.8	2.8	5.6	35	23	13	8.5	5.6
22	3.8	3.6	3.2	2.8	2.8	3.0	5.8	33	22	13	8.2	5.6
23	3.8	3.6	3.2	3.0	2.8	2.8	5.8	33	22	12	8.0	5.6
24	3.8	3.6	3.2	3.2	2.8	2.8	6.6	32	21	12	8.1	5.6
25	3.8	3.6	3.2	3.0	2.8	3.0	7.8	32	21	12	8.1	5.6
26	3.8	4.0	3.2	3.0	3.0	3.0	9.5	32	20	12	7.9	5.6
27	3.8	3.8	3.2	3.0	3.0	3.0	12	30	20	12	7.8	5.5
28	3.8	3.8	3.2	3.0	2.8	3.0	13	28	20	11	7.6	5.4
29	3.6	3.6	3.0	3.0	-----	2.6	14	28	20	11	7.2	5.4
30	3.6	3.8	3.0	3.0	-----	2.8	14	29	19	11	7.1	5.4
31	3.6	-----	3.2	2.8	-----	2.8	-----	30	-----	11	7.1	-----
TOTAL	118.0	110.8	105.0	91.2	79.2	87.4	188.3	805	757	448	275.3	183.0
MEAN	3.81	3.69	3.39	2.94	2.83	2.82	6.28	26.0	25.2	14.5	8.88	6.10
MAX	4.0	4.0	3.8	3.2	3.0	3.0	14	35	30	19	11	7.1
MIN	3.6	3.4	3.0	2.6	2.6	2.4	2.4	12	19	11	7.1	5.4
AC=FT	234	220	208	181	157	173	373	1,600	1,500	889	546	363
CAL YR 1972	TOTAL 1,762.3		MEAN 4.82	MAX 9.0	MIN 3.0	AC=FT 3,500						
WTR YR 1973	TOTAL 3,248.2		MEAN 8.90	MAX 35	MIN 2.4	AC=FT 6,440						

LITTLE SMOKY (NORTHERN PART) AND NEWARK VALLEYS

51

10245800 Newark Valley tributary near Hamilton, Nev.

LOCATION.--Lat 39°25'00", long 115°37'52", in S½NE¼ sec.23, T.18 N., R.56 E., White Pine County, on left bank above culvert on U.S. Highway 50, 3.5 mi (5.6 km) east of Pancake Summit, 14 mi (23 km) northwest of Hamilton, and 19 mi (31 km) east of Eureka.

DRAINAGE AREA.--157 mi² (407 km²).

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

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

AVERAGE DISCHARGE.--11 years, 0.147 ft³/s (0.0042 m³/s), 107 acre-ft/yr (132,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 4.8 ft³/s (0.14 m³/s), Oct. 19, gage height, 0.51 ft (0.155 m); no flow most of the year. Period of record: Maximum discharge, 238 ft³/s (6.74 m³/s) July 31, 1968, by slope-area measurement of peak flow, gage height 4.55 ft (1.387 m); no flow most of the time.

REMARKS.--Records of flow fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	0	0		0				0	
2	0		0	0	0		0				0	
3	0		0	0	0		0				0	
4	.10		0	0	0		0				0	
5	0		0	0	0		0				0	
6	0		0	0	0		0				0	
7	0		0	0	0		0				0	
8	0		0	0	0		0				0	
9	0		0	0	.10		0				0	
10	0		0	0	.90		0				0	
11	0		0	0	.50		0				0	
12	0		0	0	0		0				0	
13	0		0	.10	0		0				0	
14	0		0	0	0		0				0	
15	0		0	0	0		0				0	
16	0		0	0	0		0				0	
17	0		0	0	0		0				.20	
18	0		0	0	0		0				.20	
19	1.1		.10	0	0		0				0	
20	.10		.60	0	0		0				0	
21	0		.30	0	0		0				0	
22	0		.20	0	0		0				0	
23	0		0	0	0		0				0	
24	0		0	0	0		0				0	
25	0		0	0	0		0				0	
26	0		0	0	0		0				0	
27	0		0	0	0		.40				0	
28	0		0	0	0		0				0	
29	0		0	0	-----		0				0	
30	0		0	0	-----		0				0	
31	0	-----	0	0	-----		-----		-----		0	-----
TOTAL	1.30	0	1.20	.10	1.50	0	.40	0	0	0	.40	0
MEAN	.042	0	.039	.003	.054	0	.013	0	0	0	.013	0
MAX	1.1	0	.60	.10	.90	0	.40	0	0	0	.20	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	2.6	0	2.4	.2	3.0	0	.8	0	0	0	.8	0
CAL YR 1972	TOTAL 5.61	MEAN .015	MAX 2.6	MIN 0	AC-FT 11							
WTR YR 1973	TOTAL 4.90	MEAN .013	MAX 1.1	MIN 0	AC-FT 9.7							

Peak discharge (base, 10 cfs).--No peak above base.

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10246846 Little Currant Creek near Currant, Nev.

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

DRAINAGE AREA.--12.9 mi² (33.4 km²).

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

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

AVERAGE DISCHARGE.--9 years, 3.22 ft³/s (0.0912 m³/s), 2,330 acre-ft/yr (2.87 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 34 ft³/s (0.96 m³/s) May 12, 13, 14, gage height, 1.95 ft (0.594 m); no flow for many days during winter months.

Period of record: Maximum discharge, 366 ft³/s (10.4 m³/s) Dec. 6, 1966, gage height, 4.1 ft (1.25 m), from floodmarks, from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of peak flow; no flow occurs most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.13	.04	0	0	.03	.68	24	18	5.6	1.7	.88
2	.07	.05	.04	.01	0	.04	.68	23	17	5.6	1.6	.90
3	.07	.04	.03	0	0	.04	.68	24	16	5.3	1.6	.86
4	.10	.06	.03	0	0	.04	.75	24	15	5.1	1.7	.83
5	.10	.07	.01	0	0	.03	.75	23	14	4.9	1.8	.88
6	.08	.07	0	0	0	.04	.92	22	14	4.9	1.8	.87
7	.08	.05	0	0	0	.04	1.2	21	13	4.9	1.6	.86
8	.08	.05	0	0	0	.05	1.7	22	13	4.6	1.5	.90
9	.11	.05	0	0	0	.08	2.3	22	13	4.6	1.6	.96
10	.11	.05	0	0	0	.11	4.0	25	13	4.2	1.5	.99
11	.11	.06	0	0	0	.14	9.4	27	13	4.2	1.5	.96
12	.11	.05	0	0	0	.14	13	30	12	4.2	1.4	.90
13	.11	.05	0	0	0	.14	16	29	11	4.0	1.4	.84
14	.08	.08	0	0	0	.14	14	28	11	3.5	1.4	.79
15	.08	.07	0	0	0	.14	13	28	11	3.3	1.4	.83
16	.08	.06	0	0	0	.18	15	28	10	3.3	1.3	.82
17	.08	.06	0	0	0	.18	19	28	9.2	3.3	1.3	.79
18	.14	.02	0	0	0	.22	17	28	8.6	3.1	1.2	.78
19	.34	.02	0	0	0	.26	16	29	8.2	3.0	1.2	.78
20	.29	.02	0	0	0	.26	15	28	7.7	2.8	1.2	.76
21	.25	.02	0	0	0	.30	14	25	7.2	2.6	1.4	.81
22	.23	.01	.02	0	0	.34	14	24	7.2	2.5	1.2	.83
23	.24	.01	.03	0	0	.39	16	22	7.2	2.3	1.0	.82
24	.25	0	.04	0	0	.39	14	22	6.9	2.2	1.0	.88
25	.25	0	.04	0	0	.39	15	22	6.9	2.2	.95	.89
26	.25	0	.05	0	0	.44	18	19	6.5	2.0	.94	.88
27	.23	0	.04	0	0	.44	22	17	6.5	2.0	.93	.86
28	.22	0	.05	0	.02	.44	27	17	6.2	1.9	.93	.84
29	.23	.01	.03	0	-----	.49	27	17	6.2	1.9	.90	.84
30	.09	.02	.02	0	-----	.49	27	17	5.8	1.9	.87	.84
31	.09	-----	.01	0	-----	.49	-----	17	-----	1.8	.86	-----
TOTAL	4.62	1.18	.48	.01	.02	6.90	355.06	732	314.3	107.7	40.68	25.67
MEAN	.15	.039	.016	.0003	.0007	.22	11.8	23.6	10.5	3.47	1.31	.86
MAX	.34	.13	.05	.01	.02	.49	.27	30	18	5.6	1.8	.99
MIN	.07	0	0	0	0	.03	.68	17	5.8	1.8	.86	.76
AC-FT	9.2	2.3	1.0	.02	.04	14	704	1,450	623	214	81	51

CAL YR 1972 TOTAL 323.12 MEAN .88 MAX 3.7 MIN 0 AC-FT 641
 WTR YR 1973 TOTAL 1,588.62 MEAN 4.35 MAX 30 MIN 0 AC-FT 3,150

PENoyer (SAND SPRING) VALLEY

53

10247860 Penoyer Valley tributary near Tempiute, Nev.

LOCATION.--Lat 37°35'07", long 115°40'48", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.4 S., R.56 E., Lincoln County, on left bank upstream side of culvert on State Highway 25, one mi (1.6 km) northwest of Coyote Summit, and 5.3 mi (8.5 km) south of Tempiute.

DRAINAGE AREA.--1.48 mi² (3.83 km²).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 5,480 ft (1,670 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (onright bank) and datum.

AVERAGE DISCHARGE.--8 years, 0.003 ft³/s (0.0001 m³/s), 2.2 acre-ft/yr (2,710 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 130 ft³/s (3.68 m³/s) Aug. 6, 1968, gage height, 6.36 ft (1.938 m) from floodmarks, from indirect measurement of peak flow; no flow most of the time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
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20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1972	TOTAL 3.90	MEAN .011	MAX 2.5	MIN 0	AC-FT 7.7							
WTR YR 1973	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0							

ELDORADO VALLEY

10248510 Eldorado Valley tributary near Nelson, Nev.

LOCATION.--Lat 35°48'35", long 114°53'05", in E $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.24 S., R.63 E., Clark County, on right bank upstream side of culvert on State Highway 60 and 8 mi (13 km) northwest of Nelson.

DRAINAGE AREA.--1.41 mi² (2.59 km²).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 2,470 ft (753 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on left bank) and datum.

AVERAGE DISCHARGE.--8 years, 0.011 ft³/s (0.0003 m³/s), 8.0 acre-ft/yr (9,860 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 530 ft³/s (15.0 m³/s) Aug. 4, 1970, gage height of pond, 9.00 ft (2.743m); no flow most of the time.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
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21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1972	TOTAL 4.60	MEAN .013	MAX 4.6	MIN 0	AC-FT 9.1							
WTR YR 1973	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0							

NOTE.--No gage-height record Feb. 9 to Sept. 30.

10249280 Kingston Creek below Cougar Canyon, near Austin, Nev.

LOCATION.--Lat 39°12'45", long 117°06'45", in NW¼ sec.35, T.16 N., R.43 E., Lander County, on left bank 1.1 mi (1.8 km) downstream from Cougar Canyon and 19 mi (31 km) southeast of Austin.

DRAINAGE AREA.--23.4 mi² (60.6 km²).

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

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

AVERAGE DISCHARGE.--7 years, 8.18 ft³/s (0.232 m³/s), 5,930 acre-ft/yr (7.31 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 150 ft³/s (4.25 m³/s) May 18, gage height, 3.58 ft (1.091 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Jan. 19, 20.

Period of record: Maximum discharge, 150 ft³/s (4.25 m³/s) May 18, 1973, gage height, 3.58 ft (1.091 m); minimum, 1.4 ft³/s Aug. 24, 1972.

REMARKS.--Records good. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-feet (234,000 m³) about 4 mi (6 km) upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.4	3.4	3.4	3.4	3.8	5.0	14	61	31	17	9.8
2	4.3	3.4	3.4	3.4	3.4	3.7	5.0	14	67	30	17	9.8
3	4.3	3.4	3.2	3.4	3.2	3.7	5.3	14	66	29	17	9.2
4	4.3	3.4	3.4	3.1	3.4	3.8	5.0	14	62	29	17	9.2
5	4.3	3.6	3.2	3.0	3.4	3.8	5.3	20	60	28	17	9.8
6	4.1	3.6	3.4	3.2	3.4	3.8	5.6	20	57	28	16	9.2
7	4.1	3.6	3.2	3.1	3.4	3.8	5.8	21	58	26	15	9.2
8	4.3	3.6	3.2	3.2	3.4	3.8	5.8	22	59	24	15	9.2
9	4.3	3.6	3.0	3.2	3.4	3.8	6.1	24	56	23	15	9.8
10	4.3	3.6	3.0	3.1	3.4	3.7	6.7	34	56	23	14	9.2
11	4.1	3.6	3.2	3.1	3.6	3.8	7.0	40	55	22	14	8.8
12	4.1	3.6	3.2	3.2	3.4	3.8	7.7	46	52	22	14	8.8
13	4.1	3.6	3.2	3.2	3.6	3.8	8.0	55	51	22	14	8.8
14	4.1	3.6	3.2	3.2	3.7	3.8	8.4	70	52	22	14	8.8
15	4.1	3.6	3.2	3.2	3.7	3.8	8.8	90	48	21	13	8.8
16	4.1	3.6	3.1	3.2	3.4	4.1	9.2	108	47	21	12	8.3
17	3.8	3.4	3.1	3.2	3.4	4.1	10	110	46	21	12	8.8
18	3.7	3.4	3.1	3.2	3.6	4.1	10	105	43	21	12	8.3
19	3.8	3.4	3.6	2.6	3.4	4.1	10	83	42	21	11	8.3
20	4.1	3.4	3.4	2.6	3.6	4.3	9.6	80	39	20	12	8.3
21	4.1	3.4	3.4	3.2	3.6	4.3	9.6	86	38	19	12	8.3
22	3.8	3.4	3.4	3.2	3.6	4.3	9.6	65	37	19	12	9.0
23	3.8	3.4	3.4	3.6	3.6	4.5	10	69	37	18	11	8.2
24	3.8	3.4	3.4	3.6	3.6	4.3	10	67	35	18	10	8.2
25	3.8	3.4	3.4	3.4	3.6	4.5	11	69	35	18	11	8.1
26	3.8	3.4	3.2	3.6	3.7	4.5	11	67	33	18	10	7.8
27	3.7	3.4	3.2	3.4	3.7	4.8	12	64	33	18	10	7.7
28	3.7	3.4	3.1	3.6	3.8	4.8	12	62	33	18	10	7.6
29	3.7	3.4	2.8	3.1	4.8	13	13	63	32	18	10	7.4
30	3.6	3.4	3.0	3.2	5.0	13	13	63	32	18	10	7.3
31	3.6	3.4	3.4	3.7	5.0			62		17	9.8	
TOTAL	123.8	104.4	100.4	100.4	98.4	128.2	255.5	1,721	1,422	683	403.8	260.0
MEAN	3.99	3.48	3.24	3.24	3.51	4.14	8.52	55.5	47.4	22.0	13.0	8.67
MAX	4.3	3.6	3.6	3.7	3.8	5.0	13	110	67	31	17	9.8
MIN	3.6	3.4	2.8	2.6	3.2	3.7	5.0	14	32	17	9.8	7.3
AC-FT	246	207	199	199	195	254	507	3,410	2,820	1,350	801	516

CAL YR 1972 TOTAL 1,887.8 MEAN 5.16 MAX 10 MIN 1.9 AC-FT 3,740
WTR YR 1973 TOTAL 5,400.9 MEAN 14.8 MAX 110 MIN 2.6 AC-FT 10,710

BIG SMOKY VALLEY (NORTHERN PART)

10249300 South Twin River near Round Mountain, Nev.
(Hydrologic bench-mark station)

LOCATION.--Lat 38°53'00", long 117°14'35", in SE $\frac{1}{4}$ sec.22, T.12 N., R.42 E., Nye County, on right bank 600 ft (183 m) upstream from diversion, 3 mi (5 km) west of State Highway 8A, and 15 mi (24 km) northwest of Round Mountain.

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

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

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

AVERAGE DISCHARGE.--8 years, 5.51 ft³/s (0.156 m³/s), 3,990 acre-ft/yr (4.92 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 83 ft³/s (2.35 m³/s) May 17, gage height, 3.28 ft (1.000 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Dec. 10.

Period of record: Maximum discharge, 105 ft³/s (2.97 m³/s) June 17, 1969, gage height, 3.21 ft (0.978 m); minimum, 0.11 ft³/s (0.003 m³/s) Sept. 4, 1972.

REMARKS.--Records good except those for winter months, which are fair. No diversions above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.8	1.8	1.8	1.9	2.7	5.1	23	35	7.8	2.7	2.0
2	1.5	1.8	1.8	1.8	1.9	2.8	4.9	21	33	7.5	2.6	2.1
3	1.5	1.7	1.8	1.8	1.9	2.7	4.6	22	29	7.2	2.8	2.0
4	2.5	1.7	1.8	1.6	1.9	2.8	4.4	26	26	6.7	3.0	1.9
5	2.2	1.7	1.2	1.7	1.8	2.7	5.0	24	24	6.4	3.0	1.8
6	2.0	1.6	1.0	1.8	1.8	2.7	7.0	20	22	6.2	3.1	1.7
7	2.0	1.7	1.1	1.8	1.7	2.7	9.2	18	22	6.0	2.9	1.7
8	2.0	1.7	1.1	1.8	1.6	2.7	8.7	22	22	5.8	2.6	1.8
9	1.9	1.7	1.0	1.8	1.6	2.9	9.5	28	21	5.4	2.4	1.9
10	2.2	1.7	.80	1.8	1.6	3.2	12	36	20	5.2	2.3	1.9
11	2.2	1.8	.90	1.7	1.7	3.7	14	49	20	5.1	2.2	1.9
12	2.0	1.8	1.0	1.5	1.7	3.6	16	59	19	4.9	2.1	1.8
13	1.9	1.7	1.0	1.4	1.7	3.5	18	64	18	5.0	2.0	1.7
14	1.9	1.8	1.0	1.5	1.7	3.2	15	65	17	4.9	2.1	1.7
15	1.9	1.8	1.0	1.5	1.7	3.0	13	68	16	4.6	2.2	1.7
16	1.8	1.9	1.1	1.6	1.7	3.7	11	71	15	4.6	2.1	1.7
17	1.8	1.9	1.4	1.6	1.7	4.4	10	66	14	4.6	2.1	1.7
18	1.8	1.7	1.4	1.7	1.7	4.7	10	42	13	4.8	2.0	1.7
19	2.1	1.9	1.4	1.7	1.7	5.2	9.7	57	13	4.4	1.9	1.7
20	2.7	1.9	1.6	1.6	1.7	5.1	8.8	39	12	4.3	1.9	1.7
21	2.8	1.4	1.6	1.5	1.7	5.0	8.2	40	11	4.1	1.9	1.7
22	2.9	1.3	1.7	1.5	2.0	4.9	7.7	37	11	4.0	2.1	1.7
23	2.7	1.3	1.7	1.5	2.1	4.6	9.1	39	10	3.8	2.0	1.8
24	2.5	1.4	1.7	1.5	2.2	4.5	12	41	9.4	3.4	2.0	1.8
25	2.4	1.5	1.7	1.6	2.2	5.5	16	45	9.8	3.0	2.1	2.0
26	2.4	2.0	1.7	1.5	2.2	6.5	22	41	11	2.9	2.1	1.9
27	2.4	2.0	1.7	1.5	2.2	6.5	28	36	10	3.0	2.2	1.9
28	2.2	1.9	1.7	1.6	2.5	6.1	40	34	8.8	2.9	2.2	1.8
29	2.1	1.8	1.6	1.7	-----	5.7	38	34	8.2	2.8	2.0	1.8
30	1.9	1.8	1.6	1.9	-----	5.4	29	37	7.9	2.8	2.0	1.7
31	1.7	-----	1.7	1.9	-----	5.2	-----	37	-----	2.6	1.9	-----
TOTAL	65.1	51.7	43.60	51.2	51.8	127.9	405.9	1,241	508.1	146.7	70.5	54.2
MEAN	2.10	1.72	1.41	1.65	1.85	4.13	13.5	40.0	16.9	4.73	2.27	1.81
MAX	2.9	2.0	1.8	1.9	2.5	6.5	40	71	35	7.8	3.1	2.1
MIN	1.4	1.3	.80	1.4	1.6	2.7	4.4	18	7.9	2.6	1.9	1.7
AC-FT	129	103	86	102	103	254	805	2,460	1,010	291	140	108

CAL YR 1972 TOTAL 1,186.37 MEAN 3.24 MAX 11 MIN .70 AC-FT 2,350
WTR YR 1973 TOTAL 2,817.70 MEAN 7.72 MAX 71 MIN .80 AC-FT 5,590

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-28	0100	2.81	42	5-17	0500	3.28	83
5-04	0600	2.56	26	5-25	0300	2.92	46

SMITH CREEK VALLEY

57

10249411 Campbell Creek tributary near Eastgate, Nev.

LOCATION.--Lat 39°15'58", long 117°41'56", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.9, T.16 N., R.38 E., Lander County, on left bank just upstream from culvert on State Highway 2, 1.5 mi (2.4 km) east of Lander County line, and 10 mi (16 km) east of Eastgate.

DRAINAGE AREA.--2.14 mi² (5.54 km²).

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

GAGE.--Water-stage recorder with rain-gage attachment, and crest-stage gage. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.052 ft³/s (0.0015 m³/s), 38 acre-ft/yr (46,900 m³/yr).

EXTREMES.--Current year: Maximum discharge, 1.4 ft³/s (0.040 m³/s) about Apr. 27, gage height, 1.28 ft (0.390 m); no flow most of the year.

Period of record: Maximum discharge, 179 ft³/s (5.07 m³/s) Aug. 24, 1961, gage height, 8.2 ft (2.50 m) from floodmarks, on basis of computation of flow through culvert; no flow most of the time.

REMARKS.--Records of flow poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	1.1	.60	.40	.20	
2							0	1.0	.60	.40	.30	
3							0	.90	.60	.40	.30	
4							0	1.0	.60	.40	.30	
5							0	1.1	.60	.40	.30	
6							0	1.0	.60	.40	.20	
7							0	.90	.60	.50	.30	
8							0	.90	.60	.50	.30	
9							0	.90	.60	.60	.30	
10							.20	.90	.60	.50	.30	
11							.50	.90	.60	.40	.30	
12							.70	.90	.60	.40	.30	
13							.50	.90	.60	.30	.30	
14							.40	.90	.60	.20	.30	
15							.40	.90	.60	.20	.20	
16							.40	.90	.50	.20	.20	
17							.40	.90	.40	.10	.10	
18							.40	.90	.40	.20	0	
19							.40	.90	.40	.20	0	
20							.40	.90	.40	.20	0	
21							.40	.90	.30	.20	0	
22							.40	.80	.20	.20	0	
23							.60	.80	.20	.20	0	
24							.80	.70	.20	.20	0	
25							.90	.60	.20	.20	0	
26							.90	.60	.20	.20	0	
27							1.0	.60	.20	.20	0	
28							1.1	.50	.20	.10	0	
29					-----		1.1	.50	.20	.10	0	
30					-----		1.2	.60	.20	.20	0	
31		-----			-----		-----	.60	-----	.20	0	-----
TOTAL	0	0	0	0	0	0	13.10	25.90	13.20	8.90	4.50	0
MEAN	0	0	0	0	0	0	.44	.84	.44	.29	.15	0
MAX	0	0	0	0	0	0	1.2	1.1	.60	.60	.30	0
MIN	0	0	0	0	0	0	0	.50	.20	.10	0	0
AC-FT	0	0	0	0	0	0	26	51	26	18	8.9	0

CAL YR 1972 TOTAL 3.40 MEAN .009 MAX .10 MIN 0 AC-FT 6
WTR YR 1973 TOTAL 65.60 MEAN .18 MAX 1.2 MIN 0 AC-FT 130

NOTE.--No gage-height record Jan. 26 to Apr. 5, Apr. 10-13, Apr. 24 to May 24.

FISH LAKE VALLEY AND COLUMBUS SALT MARSH

10249900 Chiatovich Creek near Dyer, Nev.

LOCATION.--Lat 37°50'00", long 118°12'10", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.1 S., R.34 E., Esmeralda County, on left bank 300 ft (90 m) downstream from Middle Creek, 5 mi (8 km) west of State Highway 3A, and 10 mi (16 km) northwest of Dyer.

DRAINAGE AREA.--37.3 mi² (96.6 km²).

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

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

AVERAGE DISCHARGE.--13 years, 8.91 ft³/s (0.252 m³/s), 6,460 acre-ft/yr (7.97 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16 ft³/s (0.45 m³/s) July 14; maximum gage height, 1.43 ft (0.436 m) June 9; minimum discharge, 3.3 ft³/s (0.093 m³/s) Mar. 15.

Period of record: Maximum discharge, 527 ft³/s (14.9 m³/s) July 31, 1965, gage height, about 5.0 ft (1.524 m), on basis of slope-area measurement of peak flow; minimum, 1.0 ft³/s (0.028 m³/s) Feb. 18, 1961, result of freezeup.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	6.5	6.5	6.0	5.3	6.0	6.4	6.0	11	14	12	9.4
2	6.6	6.6	6.2	6.6	5.1	5.9	6.4	5.9	11	14	12	9.4
3	6.2	6.6	6.2	6.0	5.2	5.7	6.3	6.1	11	14	13	9.3
4	7.5	6.8	6.1	5.6	5.4	5.8	6.5	6.0	11	14	13	9.1
5	6.5	6.6	6.0	5.6	5.4	5.6	7.3	5.8	11	14	12	9.1
6	6.2	6.6	6.5	5.6	5.4	6.0	7.9	5.8	11	14	12	9.0
7	6.2	6.6	6.4	5.6	5.5	6.1	7.1	6.1	12	14	12	8.9
8	6.2	6.8	6.2	5.8	5.4	6.1	6.9	6.6	14	14	11	9.1
9	6.1	7.0	5.9	6.0	5.3	6.1	7.5	6.9	14	14	11	9.2
10	6.0	7.0	5.6	6.0	5.4	6.2	7.6	7.2	14	15	10	9.4
11	6.3	7.2	5.6	6.0	5.4	6.2	7.5	8.0	14	15	10	9.1
12	6.3	7.2	5.4	6.2	5.3	6.0	7.6	8.3	14	15	10	9.0
13	6.3	7.0	6.0	6.2	5.5	5.8	7.3	8.4	14	15	10	9.2
14	6.2	7.4	5.6	6.2	5.5	6.2	6.6	8.5	14	15	10	9.2
15	6.2	7.3	5.6	6.2	5.5	6.0	6.5	8.5	14	15	10	9.3
16	6.2	7.3	6.0	6.0	5.5	6.2	6.8	8.4	14	15	9.9	9.2
17	6.2	7.5	6.0	6.0	5.6	6.5	7.0	8.6	14	15	9.6	9.2
18	6.3	7.2	6.0	6.0	5.6	6.4	6.6	8.8	14	15	9.5	9.1
19	6.6	7.2	6.4	5.4	5.5	6.6	6.3	8.9	13	14	9.1	9.4
20	7.0	7.0	7.0	5.4	5.5	6.4	6.2	9.0	13	14	9.3	9.4
21	7.0	7.0	7.0	5.4	5.5	6.4	6.3	9.2	12	14	9.4	9.5
22	7.0	7.0	6.8	5.4	5.6	6.3	6.8	9.1	12	14	9.2	9.5
23	6.9	7.0	6.6	5.5	5.6	6.4	7.4	9.1	12	13	9.2	9.4
24	6.8	6.6	6.6	5.7	5.8	6.5	7.7	9.3	12	13	9.4	9.5
25	6.7	7.0	6.6	5.8	5.8	6.7	7.8	9.2	12	13	9.8	9.9
26	6.9	7.0	6.4	5.4	5.9	6.8	8.2	9.3	12	13	10	9.9
27	6.8	7.0	6.4	5.0	5.9	6.6	8.4	9.2	13	13	9.9	9.8
28	6.7	7.0	6.6	5.4	6.1	6.4	7.5	9.3	14	13	9.6	9.6
29	6.6	6.8	6.5	5.4	-----	6.5	6.7	9.7	14	13	9.4	9.6
30	6.2	6.7	6.3	5.5	-----	6.4	6.4	10	14	13	9.3	9.6
31	6.6	-----	6.0	5.4	-----	6.6	-----	11	-----	12	9.4	-----
TOTAL	201.1	208.5	193.0	178.3	154.5	193.4	211.5	252.2	385	433	320.0	280.3
MEAN	6.49	6.95	6.23	5.75	5.52	6.24	7.05	8.14	12.8	14.0	10.3	9.34
MAX	7.5	7.5	7.0	6.6	6.1	6.8	8.4	11	14	15	13	9.9
MIN	5.8	6.5	5.4	5.0	5.1	5.6	6.2	5.8	11	12	9.1	8.9
AC-FT	599	614	583	354	306	384	420	500	764	859	635	556

CAL YR 1972 TOTAL 2,120.3 MEAN 5.79 MAX 7.7 MIN 4.0 AC-FT 4,210
 WTR YR 1973 TOTAL 3,010.8 MEAN 8.25 MAX 15 MIN 5.0 AC-FT 5,970

Peak discharge (base, 20 cfs).--No peak above base. NOTE.--No gage-height record Oct. 1-7, Oct. 29 to Nov. 11, Nov. 20 to Feb. 7.

PAHRUMP VALLEY

59

10251980 Lovell Wash near Blue Diamond, Nev.

LOCATION.--Lat 36°00'10", long 115°38'38", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.22 S., R.56 E., Clark County, on right bank 0.2 mi (0.3 km) downstream from county road, 13.7 mi (22.0 km) west of Blue Diamond, and 24 mi (39 km) southeast of Pahrump.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--Water years 1965-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,840 ft (1,170 m), approximately (from topographic map). October 1966 to Jan. 25, 1969, flood-hydrograph recorder at site 0.2 mi (0.3 km) upstream at culverts at different datum.

AVERAGE DISCHARGE.--7 years, 0.427 ft³/s (0.0121 m³/s), 309 acre-ft/yr (381,000 m³/yr).

EXTREMES.--Current year: No flow for the entire year.

Period of record: Maximum discharge, 4,150 ft³/s (118 m³/s) Jan. 25, 1969, from indirect measurement of peak flow; no flow most of the time.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
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25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1972	TOTAL 0.06	MEAN .0002	MAX .06	MIN 0	AC-FT .1							
WTR YR 1973	TOTAL 0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .00							

WALKER LAKE BASIN

10288500 Walker Lake near Hawthorne, Nev.

LOCATION.--Lat 38°35'05", long 118°42'15", in NE¹/₄NE¹/₄ sec.2, T.8 N., R.29 E., Mineral County, 5.5 mi (8.8 km) northwest of Hawthorne.

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

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (U.S. Coast & Geodetic Survey bench mark at U.S. Naval Depot).

EXTREMES.--Period of record: Maximum elevation observed, 4,051.8 ft (1,234.99 m) Mar. 13, 1928 (Indian Service); minimum observed, 3,969.5 ft (1,209.90 m) Sept. 10, 1973.

An elevation of 4,078.0 ft (1,242.97 m), adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey.

REMARKS.--Elevations determined from reference points referred to U.S.C. & G.S. bench mark.

Elevation, in feet, water year October 1972 to September 1973

Oct. 5	3,970.4	Mar. 5	3,969.8
Oct. 25	3,970.3	Apr. 18	3,969.8
Nov. 9	3,970.1	May 19	3,969.8
Dec. 7	3,969.8	June 21	3,970.3
Dec. 29	3,969.6	Aug. 9	3,969.6
Jan. 22	3,969.7	Sept. 10	3,969.5

Area table (elevation, in feet, and area, in thousands of acres)

4,080	67.8	4,020	50.7	3,960	36.1	3,900	25.1
4,075	66.4	4,015	49.2	3,955	35.2	3,895	23.7
4,070	65.0	4,010	47.8	3,950	34.3	3,890	22.2
4,065	63.6	4,005	46.4	3,945	33.4	3,885	20.7
4,060	62.3	4,000	45.2	3,940	32.7	3,880	19.1
4,055	60.9	3,995	43.8	3,935	31.9	3,875	17.3
4,050	59.5	3,990	42.5	3,930	31.0	3,870	15.3
4,045	58.1	3,985	41.3	3,925	30.2	3,865	12.6
4,040	56.6	3,980	40.2	3,920	29.2	3,860	9.2
4,035	55.1	3,975	39.2	3,915	28.2	3,855	2.5
4,030	53.6	3,970	38.1	3,910	27.2	3,850.2	0
4,025	52.1	3,965	37.1	3,905	26.2		

Volume table (elevation, in feet and volume, in thousands of acre-feet)

4,080	8,790	4,020	5,200	3,960	2,620	3,900	730
4,075	8,460	4,015	4,950	3,955	2,440	3,895	610
4,070	8,140	4,010	4,700	3,950	2,270	3,890	490
4,065	7,820	4,005	4,460	3,945	2,100	3,885	390
4,060	7,500	4,000	4,240	3,940	1,920	3,880	290
4,055	7,200	3,995	4,020	3,935	1,740	3,875	220
4,050	6,900	3,990	3,790	3,930	1,590	3,870	140
4,045	6,600	3,985	3,590	3,925	1,440	3,865	80
4,040	6,300	3,980	3,390	3,920	1,290	3,860	30
4,035	6,000	3,975	3,190	3,915	1,140	3,855	3
4,030	5,730	3,970	2,990	3,910	990	3,850.2	0
4,025	5,460	3,965	2,800	3,905	860		

NOTE.--Based on bathymetric survey, Hydrologic Atlas 415 (Rush, 1970).

WALKER LAKE BASIN

61

10289000 Virginia Creek near Bridgeport, Calif.

LOCATION.--Lat 38°11'30", long 119°12'30", near center of W $\frac{1}{2}$ sec. 22, T.4 N., R.25 E., Mono County, on right bank 1.2 mi (1.9 km) downstream from Clearwater Creek, 3 mi (5 km) upstream from mouth, and 4.2 mi (6.8 km) southeast of Bridgeport.

DRAINAGE AREA.--63.6 mi² (164.7 km²).

PERIOD OF RECORD.--October 1953 to current year.

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

AVERAGE DISCHARGE.--20 years, 17.7 ft³/s (0.501 m³/s), 11,880 acre-ft/yr (14.6 km³/yr).

EXTREMES.--Current year: Maximum discharge, 123 ft³/s (0.93 m³/s) June 1, gage height, 4.06 ft (1.237 m); minimum, 2.2 ft³/s (0.062 m³/s) Oct. 31.

Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s) Dec. 23, 1955, gage height, 8.40 ft (2.560 m), from rating curve extended above 170 ft³/s (4.81 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.0 ft³/s (0.028 m³/s) Aug. 18, 1960, July 28, 1961.

REMARKS.--Records good except those for winter periods, which are poor. Flow partly regulated by Virginia Lakes and other lakes near headwaters. Diversions for irrigation of about 3,000 acres (12.1 km²) above station.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.4	11	8.5	8.8	9.9	14	41	61	26	9.1	8.2
2	12	9.0	11	8.0	8.8	9.7	13	51	50	22	13	7.5
3	9.4	9.0	11	8.3	8.8	9.7	13	56	43	19	15	7.5
4	10	9.8	10	7.4	8.9	9.9	14	41	42	19	18	7.5
5	8.8	9.5	10	7.6	8.8	9.7	18	35	43	18	14	7.7
6	9.2	8.6	10	7.6	9.1	9.7	28	34	43	16	15	8.8
7	9.8	9.4	11	7.6	9.3	9.9	30	36	45	15	14	8.8
8	8.5	8.4	10	8.1	9.1	9.7	29	37	45	14	12	11
9	8.0	9.2	9.0	8.6	9.1	9.6	35	38	48	14	12	11
10	7.7	9.8	9.5	8.5	9.4	10	33	41	44	16	11	11
11	7.5	9.9	9.0	8.6	9.9	11	43	44	44	15	10	11
12	7.5	9.5	9.5	9.1	10	10	45	45	42	16	9.9	10
13	7.5	9.7	9.0	9.2	11	10	35	50	40	17	9.3	9.5
14	7.5	9.2	9.4	9.0	10	10	24	60	37	17	9.2	9.2
15	7.6	11	9.6	9.2	10	10	22	60	33	17	9.4	10
16	7.6	12	10	9.4	10	10	27	58	27	14	9.1	9.8
17	8.0	12	11	8.6	10	11	37	61	25	14	8.9	9.5
18	8.6	11	12	9.5	10	11	32	64	22	13	8.9	9.3
19	8.8	11	13	9.0	9.5	11	25	66	22	12	9.1	9.0
20	9.5	9.5	13	8.5	9.5	11	20	60	22	10	9.1	9.2
21	9.0	12	13	9.0	9.7	10	21	56	24	10	9.2	9.3
22	8.4	12	13	8.5	9.7	11	30	53	24	9.9	7.4	8.9
23	8.1	13	12	9.2	9.5	11	44	52	25	9.6	7.0	9.4
24	8.1	15	11	10	9.6	11	53	52	23	9.1	7.4	9.4
25	8.0	12	9.0	9.9	9.4	12	58	50	22	8.1	8.0	9.7
26	8.2	11	9.8	9.5	9.6	13	67	45	25	8.0	9.6	9.7
27	8.1	11	10	9.0	9.8	13	79	39	35	8.8	12	9.6
28	7.8	11	9.0	9.0	10	13	80	40	39	7.9	10	9.6
29	7.3	10	8.1	9.0	-----	12	68	49	31	8.1	9.2	9.3
30	6.4	9.8	9.7	9.0	-----	12	52	54	29	9.5	8.6	9.2
31	6.9	-----	9.0	9.1	-----	14	-----	60	-----	8.5	8.1	-----
TOTAL	257.0	312.7	321.6	271.5	267.3	334.8	1,089	1,528	1,055	421.5	322.5	279.6
MEAN	8.29	10.4	10.4	8.76	9.55	10.8	36.3	49.3	35.2	13.6	10.4	9.32
MAX	12	15	13	10	11	14	80	66	61	26	18	11
MIN	6.4	8.4	8.1	7.4	8.8	9.6	13	34	22	7.9	7.0	7.5
AC-FT	510	620	638	539	530	664	2,160	3,030	2,090	836	640	555

CAL YR 1972 TOTAL 4,082.0 MEAN 11.2 MAX 33 MIN 1.9 AC-FT 8,100
WTR YR 1973 TOTAL 6,460.5 MEAN 17.7 MAX 80 MIN 6.4 AC-FT 12,810

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-11	1900	3.67	79	5-18	2400	3.63	70
4-28	2000	4.06	123	6-01	1000	3.63	68

WALKER LAKE BASIN

10289500 Green Creek near Bridgeport, Calif.

LOCATION.--Lat 38°10'25", long 119°14'00", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.4 N., R.25 E., Mono County, on right bank 130 ft (39.6 m) downstream from county road bridge, 0.1 mi (0.2 km) upstream from diversion to Summers Creek, and 5.5 mi (8.8 km) south of Bridgeport.

DRAINAGE AREA.--19.5 mi² (50.5 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,850 ft (2,088 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 28.7 ft³/s (0.813 m³/s), 20,790 acre-ft/yr (25.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 182 ft³/s (5.154 m³/s) June 9, gage height, 2.75 ft (0.838 m); maximum gage height, 3.55 ft (1.082 m) Mar. 15 (backwater from ice); minimum discharge, 4.5 ft³/s (0.13 m³/s) Nov. 13, but may have been less during periods of ice effect.

Period of record: Maximum discharge, 351 ft³/s (9.94 m³/s) July 4, 1967, gage height, 3.26 ft (0.994 m); maximum gage height, 4.09 ft (1.247 m) Feb. 25, 1962 (backwater from ice); minimum discharge, 1.4 ft³/s (0.040 m³/s) Apr. 4, 1964.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by West, Green, East, Summit, and other lakes.

REVISIONS.--WSP 1972: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	7.5	6.0	5.2	5.8	7.2	9.0	39	156	96	26	15
2	7.6	6.7	6.6	5.2	5.6	7.1	9.2	39	143	78	32	15
3	8.0	6.7	6.8	5.2	6.0	6.2	9.4	47	140	69	30	14
4	8.9	7.0	5.5	5.2	6.0	6.6	9.6	46	138	64	34	13
5	9.1	7.2	5.0	5.2	6.0	6.6	10	38	139	64	32	13
6	9.6	6.4	5.4	5.2	6.3	6.9	12	34	140	69	30	12
7	9.3	7.3	6.0	5.2	6.6	6.7	12	38	148	64	29	11
8	8.9	6.7	5.6	5.6	6.9	6.7	13	49	152	60	29	11
9	8.2	8.4	5.4	6.0	6.9	7.7	13	59	166	60	27	11
10	8.0	7.4	5.8	5.6	7.0	7.8	14	65	159	58	26	11
11	7.7	7.2	5.0	6.5	7.7	7.9	15	77	151	58	25	10
12	7.5	6.8	5.5	7.9	7.9	7.9	17	83	148	58	24	10
13	7.4	7.0	6.0	8.2	8.1	8.0	17	87	145	55	22	11
14	7.2	6.3	5.5	8.7	8.3	7.8	15	97	139	53	22	10
15	7.2	6.0	6.0	8.7	8.2	7.0	14	116	116	48	21	10
16	7.2	6.4	6.4	8.4	7.7	7.5	15	122	91	44	23	9.4
17	7.2	7.0	7.0	7.5	7.0	8.5	17	131	82	44	42	9.0
18	7.4	6.5	7.4	7.2	7.0	9.5	17	143	75	43	41	8.7
19	7.5	6.0	8.4	7.0	6.6	9.1	16	144	76	40	39	8.3
20	7.8	5.8	8.9	5.4	6.6	8.9	15	147	80	38	36	8.0
21	8.0	6.0	9.0	6.0	6.8	8.6	15	133	82	36	35	8.0
22	7.8	6.0	8.4	5.6	6.5	8.6	17	127	86	34	33	7.7
23	7.7	6.0	7.0	5.6	6.4	9.3	23	124	88	33	30	7.5
24	7.7	6.0	6.5	6.0	6.5	8.8	28	122	80	31	28	7.5
25	7.5	6.0	6.2	6.4	6.4	9.3	34	120	78	29	26	7.5
26	7.5	6.2	5.8	6.0	6.5	9.3	40	111	94	29	26	7.5
27	7.2	6.4	6.1	5.5	6.6	9.5	50	98	113	29	24	7.2
28	7.1	6.6	5.6	6.0	6.8	9.7	57	106	118	28	22	7.2
29	6.1	6.6	5.4	6.0	-----	9.0	54	124	111	27	21	7.2
30	5.6	6.2	5.4	6.0	-----	9.4	49	136	111	27	18	7.2
31	5.5	-----	5.6	6.0	-----	9.2	-----	142	-----	26	17	-----
TOTAL	234.6	198.3	195.7	194.2	190.5	252.3	636.2	2,944	3,545	1,492	870	294.9
MEAN	7.57	6.61	6.31	6.26	6.80	8.14	21.2	95.0	118	48.1	28.1	9.83
MAX	9.6	8.4	9.0	8.7	8.3	9.7	57	147	166	96	42	15
MIN	5.2	5.8	5.0	5.2	5.6	6.2	9.0	34	75	26	17	7.2
AC=FT	465	393	388	385	378	500	1,260	5,840	7,030	2,960	1,730	585

CAL YR 1972 TOTAL 7,379.2 MEAN 20.2 MAX 106 MIN 4.4 AC=FT 14,640
 WTR YR 1973 TOTAL 11,047.7 MEAN 30.3 MAX 166 MIN 5.0 AC=FT 21,910

10290300 Upper Twin Lake near Bridgeport, Calif.

LOCATION.--Lat 38°09'15", long 119°20'58", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.3 N., R.24 E., Mono County, at outlet of upper lake dam on Robinson Creek and 10 mi (16 km) southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi² (76.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

EXTREMES.--Current year: Maximum contents, 2,720 acre-ft (3.35 hm³) May 31, elevation, 7,209.03 ft (2,197.312 m); minimum, 484 acre-ft (597,000 m³) Oct. 12.

Period of record: Maximum contents observed, 2,900 acre-ft (3.58 hm³) June 22, July 5, 6, 1967, elevation, 7,209.58 ft (2,197.480 m); minimum observed, 62 acre-ft (76,400 m³) Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft (2,194.627 m). No contents Oct. 17, 1961.

REMARKS.--Contents regulated by dam at outlet. Figures given herein represent usable contents. Usable contents, 2,070 acre-ft (2.55 hm³) between elevations 7,200 (2,194.6 m) natural rim, and 7,207 ft (2,196.7 m), spillway crest.

ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,201.83	512	
Oct. 31.	7,202.03	568	+56
Nov. 30.	7,204.28	1,220	+652
Dec. 31.	--	g 2,120	+900
Calendar year 1972	--	--	-59
Jan. 31.	--	g 2,120	0
Feb. 28.	--	g 2,140	+20
Mar. 31.	--	g 2,150	+10
Apr. 30.	--	g 2,290	+140
May 31.	7,209.02	2,720	+430
June 30.	7,208.50	2,550	-170
July 31.	7,207.71	2,300	-250
Aug. 31.	7,206.92	2,040	-260
Sept. 30.	7,202.15	602	-1,438
Water year 1972-73.	--	--	+90

g contents interpolated

10290400 Lower Twin Lake near Bridgeport, Calif.

LOCATION.--Lat 38°10'05", long 119°19'33", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.4 N., R.24 E., Mono County, at outlet of lower lake dam on Robinson Creek and 8 mi (13 km) southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi² (100.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

EXTREMES.--Current year: Maximum contents, 4,970 acre-ft (6.13 hm³) June 12, elevation, 7,202.24 ft (2,195.243 m); minimum observed, 620 acre-ft (764,000 m³) Nov. 9.

Period of record: Maximum contents, 5,490 acre-ft (6.77 hm³) June 6, 1969, elevation, 7,203.51 ft (2,195.630 m) no contents Nov. 17, 1966.

REMARKS.--Contents regulated by dam at outlet and by Upper Twin Lake. Figures given herein represent usable contents. Usable contents, 4,010 acre-ft (4.94 hm³) between elevations 7,190 ft (2,192 m) natural rim, and 7,200 ft (2,195 m), spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek.

ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	---	g 760	
Oct. 31.	---	g 628	-132
Nov. 30.	---	g 736	+108
Dec. 31.	7,192.51	1,000	+264
Calendar year 1972	---	---	-2,500
Jan. 31.	---	g 2,080	+1,080
Feb. 28.	---	g 3,020	+940
Mar. 31.	7,199.23	3,700	+680
Apr. 30.	7,199.13	3,650	-50
May 31.	7,202.07	4,890	+1,240
June 30.	7,201.85	4,800	-90
July 31.	7,199.70	3,890	-910
Aug. 31.	7,193.77	1,510	-2,380
Sept. 30.	7,192.35	940	-570
Water year 1972-73.	---	---	+180

g Contents interpolated.

LOCATION.--Lat 38°10'20", long 119°19'25", in SE₄SW₄ sec.28, T.4 N., R.24 E., Mono County, on left bank 0.2 mi (0.3 km) downstream from Twin Lakes and 8 mi (13 km) southwest of Bridgeport.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,050 ft (2,149 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 59.1 ft³/s (1.674 m³/s), 42,820 acre-ft/yr (52.8 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 316 ft³/s (8.949 m³/s) June 1, 2, gage height, 3.83 ft (1.167 m); minimum daily, 0.70 ft³/s (0.20 m³/s) Dec. 5-15.

Period of record: Maximum di

Period of record; Maximum discharge, 492 ft³/s (13.9 m³/s) June 20, 1963; maximum gage height, 4.62 ft (1.408 m) June 6, 1969; no flow for many days in some years.

Maximum discharge known, 660 ft³/s (1

Maximum discharge known, 660 ft³/s (18.7 m³/s) June 21, 1911, gage height, 5.2 ft (1.58 m), at site 2.5 mi (4.0 km) downstream.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Twin Lakes (see preceding page).

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	15	1.2	1.4	2.4	4.1	5.3	92	308	237	108	73
2	23	15	1.2	1.2	2.4	4.1	5.3	90	314	216	107	74
3	24	15	1.2	1.2	2.4	4.1	5.6	90	296	193	106	74
4	24	15	1.0	1.2	2.4	4.4	5.6	86	270	175	105	73
5	24	16	.70	1.2	2.6	4.4	5.6	84	266	165	103	73
6	24	15	.70	1.2	2.6	4.4	5.6	83	266	161	102	73
7	25	9.1	.70	1.2	2.6	4.4	5.6	82	274	160	101	73
8	24	5.3	.70	1.4	2.6	4.4	5.6	83	282	155	100	73
9	24	5.3	.70	1.4	2.6	4.4	5.9	90	292	153	99	72
10	23	4.3	.70	1.4	3.0	4.7	5.9	99	298	152	98	71
11	23	1.9	.70	1.4	3.2	4.7	5.9	99	300	152	96	70
12	27	1.9	.70	1.5	3.2	4.7	6.2	98	302	150	95	68
13	27	1.8	.70	1.6	3.2	4.7	6.2	101	300	138	94	67
14	24	1.9	.70	1.7	3.2	4.7	7.1	104	292	130	92	66
15	23	1.7	.70	1.7	3.2	4.7	24	108	270	127	95	65
16	23	1.8	.87	11	3.2	4.7	49	138	242	124	97	63
17	22	2.1	.94	16	3.2	4.7	49	182	214	120	105	62
18	22	1.8	.95	9.5	3.5	4.7	49	223	188	115	108	60
19	21	1.4	1.2	6.0	3.5	4.7	48	258	172	109	103	45
20	21	1.2	1.2	3.0	3.5	5.0	47	292	168	103	100	35
21	21	1.2	1.2	2.4	3.2	5.0	47	290	172	97	98	34
22	20	1.2	1.2	2.2	3.2	5.0	46	280	180	91	94	33
23	20	1.2	1.2	2.2	3.2	5.0	45	268	186	87	90	32
24	20	1.2	1.2	2.2	3.2	5.0	45	262	186	91	86	31
25	20	1.2	1.2	2.6	3.2	5.0	44	260	184	94	82	30
26	19	1.2	1.2	2.6	3.2	5.0	43	248	193	95	76	30
27	19	1.2	1.2	2.6	3.8	5.0	55	233	214	102	75	30
28	16	1.2	1.4	2.6	4.1	5.3	71	225	239	104	73	29
29	15	1.2	1.4	2.6	-----	5.3	78	235	246	99	73	29
30	15	1.2	1.4	2.6	-----	5.3	92	256	248	101	75	29
31	15	-----	1.4	2.4	-----	5.3	-----	286	-----	109	73	-----
TOTAL	670	144.5	31.46	93.2	85.6	146.9	913.4	5,325	7,362	4,105	2,909	1,637
MEAN	21.6	4.82	1.01	3.01	3.06	4.74	30.4	172	245	132	93.8	54.6
MAX	27	16	1.4	16	4.1	5.3	92	292	314	237	108	74
MIN	15	1.2	.70	1.2	2.4	4.1	5.3	82	168	87	73	29
AC=FT	1,330	287	62	185	170	291	1,810	10,560	14,600	8,140	5,770	3,250
CAL YR 1972	TOTAL	18,131.56	MEAN	49.5	MAX	195	MIN	.70	AC=FT	35,960		
WTR YR 1973	TOTAL	23,423.06	MEAN	64.2	MAX	314	MIN	.70	AC=FT	46,460		

WALKER LAKE BASIN

65

10291500 Buckeye Creek near Bridgeport, Calif.

LOCATION.--Lat 38°14'20", long 119°19'30", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.4 N., R.24 E., Mono County, on right bank at Buckeye Hot Springs, 0.6 mi (1.0 km) downstream from Eagle Creek, and 5.5 mi (8.8 km) southwest of Bridgeport.

DRAINAGE AREA.--44.1 mi² (114.2 km²).

PERIOD OF RECORD.--November 1910 to September 1914 (fragmentary), October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,103 m) from topographic map. November 1910 to September 1914, non-recording gage at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--21 years (1911-12, 1953-73), 59.1 ft³/s (1.674 m³/s), 42,820 acre-ft/yr (52.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 454 ft³/s (12.9 m³/s) May 31, gage height, 3.60 ft (1.097 m); minimum, 4.8 ft³/s (0.14 m³/s) Feb. 25, result of freeze-up.

Period of record: Maximum discharge, 947 ft³/s (26.8 m³/s) Feb. 1, 1963, gage height, 4.41 ft (1.344 m), from rating curve extended above 360 ft³/s (10.2 m³/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m) and logarithmic plotting; minimum, 3.3 ft³/s (0.094 m³/s) Dec. 12, 1959, result of freezeup.

Flood of June 21, 1911, reached an observed stage of 4.8 ft (1.463 m), discharge not determined, site and datum then in use.

REMARKS.--Records good except those for winter periods, which are poor. No regulation or diversion above station.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	17	17	13	16	16	79	286	145	59	29
2	30	19	18	17	13	16	16	85	243	134	56	29
3	30	18	23	17	13	15	15	99	211	125	61	28
4	25	21	18	16	15	16	16	92	215	122	61	28
5	22	19	16	17	13	16	18	78	221	124	56	27
6	22	17	16	17	14	16	23	72	236	124	53	27
7	21	19	16	15	16	16	26	84	247	115	54	26
8	22	20	15	17	16	16	26	113	255	109	49	26
9	21	23	14	19	14	16	30	140	284	109	48	26
10	21	19	15	17	16	16	30	159	266	108	45	26
11	22	19	14	18	15	16	32	183	263	106	44	26
12	21	18	16	20	16	16	38	199	260	101	43	25
13	20	18	16	19	16	16	34	207	247	97	42	24
14	20	18	15	18	16	15	29	217	216	90	43	24
15	20	18	17	18	16	13	28	250	183	87	42	24
16	20	20	20	15	16	15	28	252	173	87	41	24
17	20	19	25	17	16	16	29	265	165	85	40	24
18	22	18	30	16	16	15	29	272	174	82	38	23
19	23	19	30	15	15	14	28	282	186	77	36	23
20	25	18	27	13	14	14	28	249	187	76	36	23
21	24	18	24	15	14	14	28	231	194	72	35	23
22	24	18	24	14	14	14	33	243	190	68	34	23
23	23	18	22	13	14	16	44	233	178	65	33	24
24	23	18	21	16	16	16	57	228	164	62	32	23
25	21	18	21	16	16	16	71	206	176	60	32	23
26	21	18	21	15	16	17	90	187	191	60	32	23
27	20	19	21	14	16	17	115	192	219	60	33	23
28	19	19	20	15	16	16	127	231	197	57	31	23
29	17	19	18	15	-----	16	109	270	188	58	30	22
30	17	19	19	15	-----	16	93	276	170	56	30	21
31	17	-----	20	15	-----	16	-----	334	-----	56	29	-----
TOTAL	672	564	609	501	421	483	1,286	6,008	6,385	2,777	1,298	740
MEAN	21.7	18.8	19.6	16.2	15.0	15.6	42.9	194	213	89.6	41.9	24.7
MAX	30	23	30	20	16	17	127	334	286	145	61	29
MIN	17	17	14	13	13	13	15	72	164	56	29	21
AC-FT	1,330	1,120	1,210	994	835	958	2,550	11,920	12,660	5,510	2,570	1,470
CAL YR 1972	TOTAL 16,305 MEAN 44.5 MAX 224 MIN 12 AC-FT 32,340											
WTR YR 1973	TOTAL 21,744 MEAN 59.6 MAX 334 MIN 13 AC-FT 43,130											

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-27	2100	2.64	142	5-31	0300	3.60	454
5-19	0100	3.30	327	6-26	2400	2.95	230

WALKER LAKE BASIN

10292000 Swauger Creek near Bridgeport, Calif.

LOCATION.--Lat 38°17'00", long 119°17'50", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.5 N., R.24 E., Mono County, on right bank 0.8 mi (1.3 km) downstream from Yaney Canyon and 4 mi (6 km) northwest of Bridgeport.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--June 1911 to September 1915 (fragmentary), October 1953 to current year. Prior to Oct. 1, 1971, published as Swager Creek near Bridgeport.

GAGE.--Water-stage recorder. Altitude of gage is 6,620 ft (2,018 m) from topographic map. June 1911 to September 1915, nonrecording gages at approximately same site at different datums.

AVERAGE DISCHARGE.--21 years (1911-12, 1953-73), 12.5 ft³/s (0.354 m³/s), 9,060 acre-ft/yr (11.2 hm³/yr).

EXTREMES.-- Current year: Maximum discharge, 89 ft³/s (2.52 m³/s) Mar. 3, gage height, 2.94 ft (0.896 m); maximum gage height, 3.20 ft (0.975 m) Dec. 14 (backwater from ice); minimum discharge, 2.0 ft³/s (0.057 m³/s) Oct. 30.

Period of record: Maximum discharge, 585 ft³/s (16.6 m³/s) Dec. 23, 1955, gage height, 6.24 ft (1.902 m) from rating curve extended above 175 ft³/s (4.96 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 0.50 ft³/s (0.014 m³/s) Apr. 20, 1912, Feb. 28, 1969.

REMARKS.--Records excellent except those for winter periods, which are poor. Diversions for irrigation of about 1,000 acres (4.0 km²) above station.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	7.6	6.4	6.0	7.0	8.0	11	40	47	6.9	5.8	7.3
2	9.3	7.3	7.0	6.0	7.4	7.8	10	48	42	6.3	6.3	7.3
3	7.1	7.0	7.8	6.6	7.5	7.3	10	50	38	6.3	8.1	7.2
4	6.3	7.9	6.0	6.0	7.5	7.9	12	40	35	5.6	7.5	7.0
5	6.4	7.4	5.0	5.4	7.0	7.5	18	34	33	5.6	7.2	5.9
6	6.7	6.6	5.3	5.4	7.6	8.0	27	34	34	5.8	6.9	7.0
7	6.3	7.6	4.5	5.0	7.8	7.8	27	47	32	5.6	6.6	6.8
8	6.3	6.7	4.4	7.0	7.6	7.8	27	53	32	5.4	6.3	7.0
9	6.1	6.8	4.0	7.3	7.2	8.1	29	53	30	5.8	4.8	7.1
10	6.2	7.3	4.3	7.0	7.5	9.0	32	54	26	6.3	4.2	7.1
11	6.2	7.3	4.0	7.1	7.9	9.0	36	54	26	5.6	4.6	6.7
12	6.2	6.8	5.0	8.4	8.1	8.4	34	54	21	4.6	4.0	6.6
13	6.3	7.4	4.7	7.9	8.0	8.1	28	56	17	3.8	3.5	6.8
14	6.2	5.2	4.5	7.7	7.9	8.1	24	63	16	5.2	4.9	6.6
15	6.3	6.7	5.5	7.9	7.8	7.6	24	64	16	6.6	6.1	6.7
16	6.3	7.7	6.5	8.2	7.8	8.4	25	59	18	7.8	7.3	6.8
17	6.7	8.1	7.5	7.6	7.4	8.7	26	59	18	6.9	7.7	6.8
18	7.3	7.4	8.3	7.8	7.0	8.7	25	61	18	7.5	7.5	6.8
19	7.4	7.6	10	7.2	7.0	8.7	22	61	17	6.6	7.4	6.8
20	8.5	7.4	10	6.4	7.0	8.7	21	58	16	4.4	7.0	6.9
21	7.9	7.0	9.9	7.0	7.0	7.8	21	56	9.7	3.3	6.8	7.0
22	7.9	7.0	11	6.4	7.0	8.1	24	57	7.5	3.3	6.7	6.9
23	7.9	7.0	8.4	6.0	7.2	8.4	29	59	9.7	4.4	7.2	7.2
24	7.5	7.0	8.5	7.6	7.8	8.7	35	54	11	5.4	7.9	7.1
25	7.2	7.4	6.6	7.8	7.4	9.7	39	50	10	4.8	8.0	7.3
26	7.3	8.2	8.4	7.0	7.4	10	46	46	8.7	5.6	8.7	7.3
27	7.2	7.9	8.5	6.4	7.9	11	63	44	13	5.4	9.0	7.2
28	7.1	7.8	7.3	7.4	8.0	10	70	43	13	4.8	8.5	7.0
29	6.4	7.1	6.0	7.0	-----	9.4	62	43	11	5.8	8.0	6.9
30	4.7	6.8	6.5	7.0	-----	10	49	45	7.5	6.3	7.4	6.6
31	6.0	-----	6.9	7.5	-----	11	-----	50	-----	5.2	7.3	-----
TOTAL	211.3	217.0	208.7	215.0	209.7	267.7	906	1,589	633.1	172.9	209.2	207.7
MEAN	6.82	7.23	6.73	6.94	7.49	8.64	30.2	51.3	21.1	5.58	6.75	6.92
MAX	9.3	8.2	11	8.4	8.1	11	70	64	47	7.8	9.0	7.3
MIN	4.7	5.2	4.0	5.0	7.0	7.3	10	34	7.5	3.3	3.5	5.9
AC=FT	419	430	414	426	416	531	1,800	3,150	1,260	343	415	412
CAL YR 1972	TOTAL 3,557.0 MEAN 9.72 MAX 53 MIN 1.7 AC=FT 7,060											
WTR YR 1973	TOTAL 5,047.3 MEAN 13.8 MAX 70 MIN 3.3 AC=FT 10,010											

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.HT	DISCHARGE	DATE	TIME	G.HT	DISCHARGE
4-11	1800	2.73	68	5-14	2100	2.90	85
4-27	2200	2.94	89	5-30	2300	2.60	56

WALKER LAKE BASIN

67

10292300 Bridgeport Reservoir tributary near Bridgeport, Calif.

LOCATION.--Lat 38°17'15", long 119°12'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.16, T.5 N., R.25 E., Mono County, on left bank on upstream side of State Highway 22, 0.5 mi (0.8 km) upstream from Rock Springs Canyon, and 2.4 mi (3.9 km) north of Bridgeport.

DRAINAGE AREA.--0.79 mi² (2.05 km²).

PERIOD OF RECORD.--Water year 1963 (annual maximum), October 1963 to Sept. 30, 1973, (discontinued).

GAGE.--Water-stage recorder with rain-gage attachment and crest-stage gage. Altitude of gage is 6,500 ft (1,980 m) from topographic map. Oct. 1, 1962, to Sept. 30, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.078 ft³/s (0.0022 m³/s), 57 acre-ft/yr (70,300 m³/yr).

EXTREMES.--Current year: Maximum discharge, 12 ft³/s (0.34 m³/s) Mar. 27, gage height, 4.65 ft (1.417 m); no flow most of year.
Period of record: Maximum discharge, 98 ft³/s (2.78 m³/s) Mar. 16, 1967, gage height, 10.91 ft (3.325 m); no flow most of the time.

REMARKS.--Records of flow poor. No diversion above station. Mean daily flows of 0.01 ft³/s (<0.001 m³/s) or less occur at times and are considered to be below reportable stage and are given as no flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	1.5		0				
2				0	0	.10		0				
3				0	0	0		0				
4				0	0	0		0				
5				0	0	0		0				
6				0	0	0		0				
7				0	0	0		0				
8				0	0	0		0				
9				0	0	0		0				
10				0	0	.90		0				
11				0	0	.26		0				
12				0	0	0		0				
13				0	0	0		0				
14				0	0	0		.02				
15				0	0	0		0				
16				.04	0	0		0				
17				0	0	0		0				
18				0	0	0		0				
19				0	0	1.1		0				
20				0	0	1.6		0				
21				0	0	0		0				
22				0	0	0		0				
23				0	0	0		0				
24				0	0	0		0				
25				0	0	0		0				
26				0	0	5.9		0				
27				0	.10	8.6		0				
28				0	.10	7.5		0				
29				0	-----	4.2		0				
30				0	-----	.12		0				
31		-----		0	-----	0	-----	0	-----			-----
TOTAL	0	0	0	.04	.20	31.78	0	.02	0	0	0	0
MEAN	0	0	0	.001	.007	1.03	0	.0006	0	0	0	0
MAX	0	0	0	.04	.10	8.6	0	.02	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.08	.4	63	0	.04	0	0	0	0

CAL YR 1972 TOTAL 8.82 MEAN .024 MAX 2.5 MIN 0 AC-FT 17
WTR YR 1973 TOTAL 32.04 MEAN .088 MAX 8.6 MIN 0 AC-FT 64

NOTE.--No gage-height record Mar. 23 to Apr. 16.

WALKER LAKE BASIN

10292500 Bridgeport Reservoir near Bridgeport, Calif.

LOCATION.--Lat 38°19'30", long 119°12'40", in SECTION 34, T.6 N., R.25 E., Mono County, at Bridgeport Dam on East Walker River, 4.5 mi (7.2 km) north of Bridgeport.

DRAINAGE AREA.--358 mi² (927 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum).

EXTREMES.--Current year: Maximum contents, 44,430 acre-ft (54.8 hm³) June 9, elevation, 6,460.63 ft (1,969.200 m); minimum, 5,800 acre-ft (7.15 hm³) Oct. 1, elevation, 6,439.46 ft (1,962.747 m).

Period of record: Maximum contents, 44,580 acre-ft (55.0 hm³) June 12, 1938, June 25, 26, 1958, elevation, 6,460.7 ft (1,969.22 m); no contents during fall of 1929, 1930, 1960.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam. Storage began Dec. 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft (52.4 hm³) between elevations 6,415 (1955.3 m), approximate elevation of bottom of reservoir, and 6,461 ft (1,969.3 m), crest of spillway is at elevation 6,460.75 ft (1,969.237 m), however, there are four siphons that became operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft (1,954.4 m). No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

REVISIONS (WATER YEARS).--WSP 1180: 1949. WSP 1927: Drainage area.

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

6,439	5,440	6,447	13,990	6,456	31,570
6,441	7,120	6,450	18,780	6,461	45,490
6,444	10,200	6,453	24,660		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,800	9,760	13,580	18,010	21,890	25,320	30,360	33,090	43,520	43,980	31,700	19,330
2	5,840	9,870	13,720	18,090	21,890	25,430	30,610	32,970	43,820	43,980	31,570	18,960
3	6,000	9,980	13,850	18,180	22,090	25,540	30,850	32,840	44,130	43,820	31,450	18,520
4	6,080	10,140	13,990	18,260	22,090	25,760	31,090	32,710	44,130	43,820	31,450	18,180
5	6,160	10,260	14,060	18,260	22,190	25,870	31,570	32,590	43,980	43,670	31,450	17,830
6	6,280	10,380	14,210	18,350	22,380	25,980	32,460	32,590	43,980	43,220	31,330	17,490
7	6,370	10,500	14,290	18,440	22,480	26,090	32,970	32,460	43,980	42,920	31,450	17,060
8	6,460	10,550	14,360	18,610	22,580	26,200	33,480	32,460	44,130	42,460	31,450	16,740
9	6,540	10,670	14,430	18,690	22,680	26,310	33,980	32,460	44,130	42,170	31,450	16,420
10	6,640	10,850	14,580	18,780	22,890	26,530	34,380	32,460	44,130	41,580	31,330	16,110
11	6,810	10,970	14,660	18,870	23,200	26,640	34,510	32,590	44,130	41,150	31,090	15,870
12	6,940	11,080	14,730	19,060	23,310	26,750	34,770	32,710	44,130	40,710	30,850	15,710
13	7,080	11,260	14,880	19,240	23,410	26,860	34,770	33,090	44,130	40,120	30,610	15,320
14	7,220	11,440	14,950	19,420	23,520	26,980	34,640	33,600	43,980	39,690	30,360	15,100
15	7,360	11,570	15,100	19,610	23,620	27,090	34,510	34,110	43,980	39,260	29,880	14,730
16	7,500	11,760	15,170	19,880	23,720	27,320	34,640	34,640	44,130	38,840	29,160	14,430
17	7,700	11,880	15,320	20,160	23,830	27,440	34,240	35,300	44,130	38,430	28,360	14,060
18	7,840	12,070	15,470	20,340	23,930	27,550	34,380	35,960	44,130	38,150	27,550	13,790
19	7,980	12,190	15,790	20,440	24,040	27,780	34,110	36,900	44,130	37,730	26,640	13,650
20	8,180	12,260	15,950	20,620	24,140	27,900	33,980	37,870	44,130	37,180	25,870	13,310
21	8,340	12,380	16,260	20,720	24,240	27,900	33,730	38,710	44,130	36,760	24,880	13,170
22	8,490	12,570	16,660	20,820	24,350	28,120	33,730	39,260	43,980	36,230	24,040	12,970
23	8,640	12,630	16,900	20,920	24,560	28,240	33,480	39,980	43,820	35,570	23,100	12,830
24	8,790	12,770	17,060	21,010	24,660	28,360	33,350	40,420	43,820	35,040	22,480	12,630
25	8,900	12,830	17,230	21,210	24,770	28,580	33,350	40,850	43,670	34,380	21,890	12,500
26	9,050	13,040	17,400	21,210	24,990	28,820	33,220	41,150	43,520	33,860	21,500	12,380
27	9,160	13,110	17,580	21,400	25,100	29,040	33,220	41,580	43,670	33,350	21,110	12,260
28	9,320	13,240	17,660	21,400	25,210	29,280	33,220	41,880	43,980	32,840	20,820	12,130
29	9,380	13,380	17,660	21,500	-----	29,520	33,220	42,020	43,980	32,460	20,440	12,000
30	9,480	13,450	17,830	21,700	-----	29,760	33,090	42,460	43,980	32,200	20,070	11,940
31	9,600	-----	17,920	21,800	-----	30,000	-----	43,070	-----	31,820	19,700	-----
MAX	9,600	13,450	17,920	21,800	25,210	30,000	34,770	43,070	44,130	43,980	31,700	19,330
MIN	5,800	9,760	13,580	18,010	21,890	25,320	30,360	32,460	43,520	31,820	19,700	11,940
(†)	6,443.45	6,446.60	6,449.48	6,451.58	6,453.25	6,455.37	6,456.61	6,460.19	6,460.52	6,456.12	6,450.48	6,445.45
(‡)	+3,760	+3,850	+4,470	+3,880	+3,410	+4,790	+3,090	+9,980	+910	-12,160	-12,120	-7,760
CAL YR 1972	MAX 43,220	MIN 5,800	+12,690									
WTR YR 1973	MAX 44,130	MIN 5,800	+6,100									

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

WALKER LAKE BASIN

69

10293000 East Walker River near Bridgeport, Calif.

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¹/₄NE¹/₄ sec.34, T.6 N., R.25 E., Mono County, on right bank 1,500 ft (457 m) downstream from Bridgeport Reservoir, 5 mi (8 km) north of Bridgeport, and 10 mi (16 km) upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi² (930 km²).

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

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

AVERAGE DISCHARGE.--50 years (1922-24, 1925-73), 138 ft³/s (3,908 m³/s), 99,980 acre-ft/yr (123 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 668 ft³/s (18.9 m³/s) June 4, gage height, 3.22 ft (0.981 m); minimum daily, 11 ft³/s (0.312 m³/s) Oct. 11, 12, 18-21, Nov. 10-16.

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

REMARKS.--Records good. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	12	12	13	14	14	15	218	579	385	220	230
2	89	12	12	13	14	14	15	200	616	325	213	230
3	87	12	12	13	14	14	15	200	590	328	194	230
4	64	12	13	13	14	14	19	200	608	328	194	228
5	57	12	14	13	14	14	31	188	624	358	194	228
6	57	12	14	13	14	14	54	188	534	379	184	228
7	57	12	14	13	14	14	120	188	537	376	154	225
8	57	12	14	13	14	14	122	188	541	391	154	225
9	45	12	14	13	14	14	122	202	579	388	158	225
10	22	11	14	14	14	14	122	192	628	388	170	224
11	11	11	14	14	14	14	142	194	576	382	192	222
12	11	11	13	14	14	14	190	204	586	367	206	223
13	12	11	14	14	14	14	202	210	541	391	206	220
14	12	11	14	14	14	14	202	213	541	391	208	208
15	12	11	14	14	14	14	202	206	495	358	273	196
16	12	11	14	14	14	14	202	220	343	349	418	196
17	12	12	14	14	14	14	202	245	352	346	418	192
18	11	12	14	14	14	14	202	253	343	337	427	178
19	11	12	14	14	14	14	202	258	352	337	451	164
20	11	12	14	14	14	15	202	265	349	337	451	164
21	11	12	14	14	14	14	202	268	349	334	457	158
22	12	12	14	14	14	14	202	270	352	340	488	144
23	12	12	14	14	14	14	202	270	328	340	478	144
24	12	12	14	14	14	15	200	280	313	350	409	144
25	12	12	13	14	14	14	202	316	322	367	310	144
26	12	12	13	14	14	15	218	334	328	364	308	144
27	13	12	13	14	14	15	243	373	331	364	300	144
28	13	12	13	14	14	15	228	418	355	340	253	140
29	13	12	13	14	-----	15	228	499	391	268	233	130
30	12	12	13	14	-----	15	228	548	400	268	233	115
31	12	-----	13	14	-----	15	-----	569	-----	243	230	-----
TOTAL	873	353	419	425	392	442	4,736	8,377	13,783	10,819	8,784	5,643
MEAN	28.2	11.8	13.5	13.7	14.0	14.3	158	270	459	349	283	188
MAX	89	12	14	14	14	15	243	569	628	391	488	230
MIN	11	11	12	13	14	14	15	188	313	243	154	115
AC-FT	1,730	700	831	843	778	877	9,390	16,620	27,340	21,460	17,420	11,190

CAL YR 1972 TOTAL 40,008.10 MEAN 109 MAX 322 MIN .60 AC-FT 79,360
 WTR YR 1973 TOTAL 55,046.00 MEAN 151 MAX 628 MIN 11 AC-FT 109,200

NOTE.--No gage-height record Dec. 27 to Feb. 5.

WALKER LAKE BASIN

10293500 East Walker River above Strosnider ditch, near Mason, Nev.

LOCATION.--Lat 38°48'50", long 119°02'50", in NW¹/₄SW¹/₄ sec.14, T.11 N., R.26 E., Lyon County, on right bank 0.8 mi (1.3 km) upstream from head of Strosnider ditch, 12 mi (19 km) southeast of Mason, and 13.5 mi (21.7 km) southeast of Yerington.

DRAINAGE AREA.--1,100 mi² (2,849 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft (1,394.186 m) above mean sea level, datum of 1929. Prior to Oct. 24, 1957, at site 400 ft (120 m) upstream at datum 0.56 ft (0.171 m) higher.

AVERAGE DISCHARGE.--26 years, 145 ft³/s (4,106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 679 ft³/s (19.2 m³/s) June 6, gage height, 3.91 ft (1.192 m); minimum daily, 12 ft³/s (0.34 m³/s) Dec. 10, Jan. 5.

Period of record: Maximum discharge, 2,380 ft³/s (67.4 m³/s) Feb. 1, 1963, gage height, 7.60 ft (2.316 m); minimum, 3.1 ft³/s (0.088 m³/s) Mar. 21, 1948; minimum daily 3.4 ft³/s (0.096 m³/s) Mar. 21-24, 1948, Apr. 5, 1961.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	38	32	33	37	41	33	278	579	338	246	200
2	181	40	30	30	41	41	34	261	580	325	232	197
3	155	40	31	25	38	41	32	246	597	278	222	208
4	131	39	35	21	38	37	30	245	570	280	214	210
5	108	38	25	12	40	37	28	248	617	271	213	206
6	98	38	23	16	38	37	28	235	633	300	210	204
7	93	37	20	15	38	44	35	221	550	306	195	198
8	102	38	16	14	40	43	86	228	547	324	165	194
9	122	37	14	18	40	40	94	233	553	334	150	196
10	90	36	12	20	41	36	104	233	607	325	139	193
11	66	36	13	25	46	35	110	227	626	319	146	197
12	54	36	14	35	46	38	135	230	583	314	160	200
13	45	35	16	87	42	36	192	229	582	317	167	197
14	42	37	14	47	42	35	215	236	557	343	156	196
15	40	40	17	47	38	33	211	231	536	342	165	192
16	39	39	22	42	38	31	212	221	451	322	240	184
17	39	40	35	64	36	33	202	220	342	314	361	182
18	40	41	50	54	35	34	198	243	322	307	375	180
19	41	37	90	52	34	33	202	257	307	309	396	171
20	61	37	100	45	32	33	199	272	309	291	424	156
21	55	37	123	44	32	32	191	277	308	293	424	156
22	45	34	94	43	32	32	205	264	310	324	441	155
23	42	38	45	45	32	32	206	261	302	360	456	147
24	40	38	43	40	34	31	227	247	290	358	449	145
25	40	37	45	35	34	30	241	254	271	340	376	146
26	39	34	34	35	35	31	255	280	269	332	315	149
27	40	37	35	35	35	33	285	298	275	335	317	151
28	40	37	37	35	38	35	327	323	287	336	289	153
29	40	37	35	35	-----	37	313	372	302	319	240	155
30	39	35	35	37	-----	35	304	433	331	270	209	147
31	39	-----	35	40	-----	34	-----	518	-----	264	205	-----
TOTAL	2,113	1,123	1,170	1,126	1,052	1,100	4,934	8,321	13,393	9,790	8,297	5,365
MEAN	68.2	37.4	37.7	36.3	37.6	35.5	164	268	446	316	268	179
MAX	181	41	123	87	46	44	327	518	633	360	456	210
MIN	39	34	12	12	32	30	28	220	269	264	139	145
AC=FT	4,190	2,230	2,320	2,230	2,090	2,180	9,790	16,500	26,570	19,420	16,460	10,640
CAL YR 1972	TOTAL 39,182		MEAN 107	MAX 275	MIN 12	AC=FT 77,720						
WTR YR 1973	TOTAL 57,784		MEAN 158	MAX 633	MIN 12	AC=FT 114,600						

WALKER LAKE BASIN

71

10295500 Little Walker River near Bridgeport, Calif.

LOCATION.--Lat 38°21'30", long 119°26'30", in NW¼NW¼ sec.22, T.6 N., R.23 E., Mono County, on right bank 0.8 mi (1.3 km) north of Sonora Junction, 1.5 mi (2.4 km) upstream from mouth, and 14 mi (23 km) northwest of Bridgeport.

DRAINAGE AREA.--63.0 mi² (163.2 km²).

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

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

AVERAGE DISCHARGE.--29 years (1944-73) 50.9 ft³/s (1.442 m³/s), 36,880 acre-ft/yr (45.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 489 ft³/s (13.8 m³/s) May 30, gage height, 2.39 ft (0.728 m); minimum daily, 12 ft³/s (0.34 m³/s) Dec. 7-14, Jan. 23.
 period of record: Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 31, 1963, gage height, 3.22 ft (0.982 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 2.80 ft (0.853 m) and logarithmic plotting; maximum gage height recorded, 3.63 ft (1.106 m) Jan. 3, 1945, (backwater from ice); minimum discharge recorded, 4.9 ft³/s (0.139 m³/s) Nov. 17, 1948, but may have been less during periods of ice effect.

REMARKS.--Records good except those for winter periods, which are poor. Small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	18	16	17	19	17	88	303	123	47	18
2	27	17	20	16	17	18	17	94	247	113	45	18
3	23	17	22	16	18	16	16	102	229	106	49	19
4	19	21	16	15	18	16	18	93	220	102	50	19
5	17	18	14	14	16	16	22	80	217	102	44	20
6	17	16	13	16	20	16	29	78	225	98	41	21
7	16	17	12	14	20	16	32	87	238	91	39	21
8	16	21	12	15	18	16	34	102	257	90	36	21
9	16	25	12	18	19	16	45	119	277	89	33	21
10	16	22	12	16	18	17	52	135	259	88	32	21
11	17	18	12	17	18	18	58	147	255	85	30	21
12	17	17	12	18	18	18	63	162	236	82	29	20
13	17	19	12	20	17	17	53	166	220	81	28	19
14	17	19	12	19	16	16	43	186	188	78	28	19
15	17	17	14	16	17	15	42	223	157	79	26	19
16	17	18	15	16	16	16	48	245	143	76	25	18
17	18	18	16	16	15	17	58	268	133	77	23	18
18	19	17	16	16	15	17	51	291	131	74	23	18
19	20	18	23	15	14	17	44	297	134	67	22	18
20	24	17	26	14	14	16	40	262	133	63	22	18
21	20	16	25	16	14	18	42	241	144	59	21	18
22	20	16	27	14	15	20	52	239	144	56	21	18
23	20	16	23	12	15	16	70	248	136	54	20	18
24	19	16	19	16	18	17	82	249	128	51	20	18
25	18	17	18	18	17	17	91	223	134	48	20	18
26	18	16	18	16	16	17	106	193	147	44	21	18
27	18	20	18	12	16	18	123	198	177	43	21	18
28	16	20	18	18	18	17	133	219	171	43	20	18
29	15	20	16	17	-----	17	123	256	159	46	18	18
30	15	18	17	17	-----	16	107	310	141	47	18	17
31	14	-----	18	18	-----	16	-----	350	-----	45	18	-----
TOTAL	561	545	526	497	470	522	1,711	5,951	5,683	2,300	890	566
MEAN	18.1	18.2	17.0	16.0	16.8	16.8	57.0	192	189	74.2	28.7	18.9
MAX	27	25	27	20	20	20	133	350	303	123	50	21
MIN	14	16	12	12	14	15	16	78	128	43	18	17
AC-FT	1,110	1,080	1,040	986	932	1,040	3,390	11,800	11,270	4,560	1,770	1,120

CAL YR 1972 TOTAL 12,720 MEAN 34.8 MAX 202 MIN 10 AC-FT 25,230
 WTR YR 1973 TOTAL 20,222 MEAN 55.4 MAX 350 MIN 12 AC-FT 40,110

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-18	2200	2.12	346	6-08	2200	2.11	330
5-30	2300	2.39	489	6-27	2300	1.83	212

WALKER LAKE BASIN

10296000 West Walker River below Little Walker River, near Coleville, Calif.

LOCATION.--Lat 38°22'47", long 119°26'57", in NE¼SE¼ sec.9, T.6 N., R.23 E., Mono County, on right bank 150 ft (45.7 m) downstream from Little Walker River, 60 ft (18.3 m) upstream from bridge on U.S. Highway 395, and 13 mi (21 km) southeast of Coleville.

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork".

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft (2,009.056 m) above mean sea level, datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft (30 m) upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft (7.6 m) downstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 258 ft³/s (7.307 m³/s), 186,900 acre-ft/yr (230 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,400 ft³/s (68.0 m³/s) May 31, gage height, 5.32 ft (1.622 m); minimum daily, 28 ft³/s (0.79 m³/s) Dec. 9, 11.

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

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

REMARKS.--Records good except those for winter periods, which are poor. Station is above diversions except for a few small ranch ditches. Flow very slightly regulated by Poor Lake Reservoir (capacity, unknown) 7 mi (11 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	49	43	50	51	52	71	483	1,660	535	213	73
2	65	46	45	50	50	52	71	503	1,410	495	182	73
3	64	45	47	45	50	47	70	571	1,270	467	175	71
4	55	55	42	42	52	48	73	527	1,230	451	184	70
5	46	49	36	40	51	50	88	435	1,290	459	173	71
6	46	43	40	42	50	52	119	398	1,360	463	164	71
7	45	50	44	40	50	54	148	475	1,380	408	169	68
8	46	45	34	38	50	51	150	621	1,410	384	142	67
9	45	47	28	42	46	52	187	764	1,550	391	129	67
10	44	49	51	57	47	54	213	882	1,380	377	120	68
11	48	49	28	67	47	56	245	1,020	1,300	363	114	67
12	49	46	35	94	58	55	288	1,140	1,250	342	107	64
13	48	42	40	71	56	48	276	1,190	1,160	324	102	64
14	46	40	35	60	54	48	235	1,240	918	321	100	63
15	45	37	31	56	57	50	220	1,490	705	318	97	63
16	45	45	35	50	56	54	225	1,560	660	294	92	61
17	47	50	40	50	53	55	250	1,740	630	282	89	60
18	52	45	118	50	51	52	243	1,840	640	279	85	64
19	58	48	130	47	49	54	230	1,990	695	258	80	63
20	70	40	112	45	48	55	213	1,680	715	240	79	64
21	66	38	93	50	48	52	215	1,410	769	223	76	64
22	67	35	96	47	49	61	245	1,380	792	205	74	64
23	67	35	83	50	51	57	318	1,400	742	194	82	64
24	66	35	71	55	51	57	394	1,470	650	180	83	64
25	58	35	70	66	52	61	463	1,260	695	171	82	63
26	57	35	60	60	50	66	549	1,040	792	167	86	61
27	55	40	56	45	56	68	685	1,050	960	162	92	60
28	51	42	52	55	56	68	758	1,330	846	160	85	57
29	40	43	50	60	-----	66	690	1,640	775	169	79	56
30	32	40	50	55	-----	67	571	1,790	670	167	74	55
31	40	-----	50	55	-----	71	-----	1,980	-----	162	73	-----
TOTAL	1,603	1,298	1,725	1,634	1,439	1,733	8,503	36,299	30,304	9,411	3,482	1,940
MEAN	51.7	43.3	55.6	52.7	51.4	55.9	283	1,171	1,010	304	112	64.7
MAX	70	55	130	94	58	71	758	1,990	1,660	535	213	73
MIN	32	35	28	38	46	47	70	398	630	160	75	55
AC=FT	3,180	2,570	5,420	3,240	2,850	3,440	16,870	72,000	60,110	18,670	6,910	3,850

CAL YR 1972 TOTAL 72,449 MEAN 198 MAX 1,370 MIN 28 AC=FT 143,700

WTR YR 1973 TOTAL 99,371 MEAN 272 MAX 1,990 MIN 28 AC=FT 197,100

PEAK DISCHARGE (BASE, 1,120 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-18	2400	5.23	2,310	6-08	2400	4.75	1,830
5-31	0300	5.32	2,400				

WALKER LAKE BASIN

73

10296500 West Walker River near Coleville, Calif.

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

DRAINAGE AREA.--271 mi² (702 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft (1,682 m), from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 1, 1909, to Aug. 31, 1910, nonrecording gage, and June 18, 1915, to Aug. 15, 1919, water-stage recorder near present site at different datums. Aug. 16, 1919, to Mar. 31, 1938, water-stage recorder at site 1,000 ft (300 m) upstream at different datum. May 26, 1957, to Sept. 10, 1963, water-stage recorder at site 10 ft (3.0 m) downstream at datum 0.38 ft (0.116 m) lower.

AVERAGE DISCHARGE.--44 years (1902-7, 1909-10, 1915-37, 1957-73), 274 ft³/s (7.760 m³/s), 198,500 acre-ft/yr (245 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,200 ft³/s (62.3 m³/s) May 19, gage height, 3.93 ft (1.198 m); minimum daily, 27 ft³/s (0.76 m³/s) Dec. 11.

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

REMARKS.--Records good except those for winter periods, which are poor. Station is above diversions except for a few small ranch ditches. Flow very slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi (27 km) upstream.

REVISIONS (WATER YEARS).--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	64	43	42	48	65	79	473	1,730	565	229	97
2	83	61	40	42	49	60	79	481	1,540	517	212	99
3	83	58	45	41	50	54	77	559	1,370	489	195	97
4	75	71	41	37	50	58	81	520	1,330	474	213	95
5	63	66	37	35	54	60	88	431	1,370	479	200	95
6	63	57	43	37	62	74	111	384	1,430	488	189	94
7	59	65	39	37	60	76	138	440	1,450	437	198	92
8	61	56	36	35	58	73	146	596	1,470	408	172	91
9	61	57	28	39	57	67	171	783	1,650	414	156	91
10	59	62	30	48	64	73	192	906	1,550	402	148	90
11	61	64	27	55	56	77	215	1,050	1,480	389	139	87
12	66	60	41	80	66	75	261	1,180	1,400	374	131	86
13	66	59	34	78	72	66	265	1,290	1,330	349	125	82
14	59	50	30	62	69	66	225	1,330	1,060	345	123	80
15	59	49	35	56	73	60	209	1,540	786	344	121	78
16	59	54	40	53	68	72	209	1,610	721	319	116	78
17	61	60	67	52	66	73	232	1,750	672	306	110	75
18	68	50	95	52	62	70	232	1,810	681	302	106	77
19	73	53	115	52	60	72	222	1,890	749	289	103	75
20	90	44	118	45	56	74	209	1,750	775	267	101	73
21	85	39	103	47	56	63	205	1,520	831	249	98	73
22	85	36	113	44	56	68	225	1,470	863	233	96	72
23	88	35	84	45	56	71	288	1,470	826	220	104	72
24	85	34	86	48	60	70	357	1,530	690	208	107	71
25	78	34	65	50	63	74	415	1,330	740	199	106	71
26	75	35	58	59	64	80	512	1,130	844	191	109	69
27	73	39	50	47	67	83	666	1,120	1,060	187	118	68
28	68	42	46	49	65	84	797	1,370	927	184	111	66
29	61	43	42	52	-----	76	734	1,660	834	191	105	64
30	33	42	42	54	-----	74	587	1,780	722	193	100	63
31	35	-----	42	51	-----	77	-----	1,910	-----	184	97	-----
TOTAL	2,085	1,539	1,715	1,524	1,687	2,185	8,227	37,063	32,881	10,196	4,238	2,421
MEAN	67.3	51.3	55.3	49.2	60.3	70.5	274	1,196	1,096	329	137	80.7
MAX	90	71	118	80	73	84	797	1,910	1,730	565	229	99
MIN	33	34	27	35	48	54	77	384	672	184	96	63
AC-FT	4,140	3,050	3,400	3,020	3,350	4,330	16,320	73,510	65,220	20,220	8,410	4,800

CAL YR 1972 TOTAL 76,215 MEAN 208 MAX 1,430 MIN 27 AC-FT 151,200
WTR YR 1973 TOTAL 105,761 MEAN 290 MAX 1,910 MIN 27 AC-FT 209,800

PEAK DISCHARGE (BASE, 1,120 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
5-19	0200	3.93	2,200	6-09	0300	3.63	1,930
5-31	0200	3.89	2,160	6-28	0100	2.78	1,160

WALKER LAKE BASIN

10297000 Topaz Lake near Topaz, Calif.

LOCATION.--Lat 38°41'35", long 119°31'10", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.10 N., R.22 E., Douglas County, at outlet works of Topaz Lake on West Walker River, 5.5 mi (8.8 km) north of Topaz.

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

GAGE.--Float and staff gages read once daily. Datum of gage is at mean sea level (levels by Walker River Irrigation District).

EXTREMES.--Current year: Maximum contents, 59,850 acre-ft (73.8 hm³) June 22, elevation 5,004.51 ft (1,525.375 m); minimum, 9,420 acre-ft (11.6 hm³) Oct. 1, elevation, 4,978.32 ft (1,517.392 m).

Period of record: Maximum contents, 60,240 acre-ft (74.3 hm³) June 30, 1941, elevation, 5,005.35 ft (1,525.631 m); no contents Oct. 31, 1924, Sept. 22, 24-30, Oct. 1-15, 1960.

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 cannal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft (73.3 hm³) between elevations 4,972.3 ft (1,515.56 m) lowest practical elevation for diversion through tunnel, bottom of outlet tunnel at elevation, 4,970 ft (1,515 m) and 5,005 ft (1,526 m), 3 ft (0.9 m) below top of levee. Usable capacity of reservoir increased from about 45,000 (55.5 hm³) to 59,440 acre-ft (73.3 hm³) in October 1937 by an earth-fill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-feet (80.1 hm³) of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

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

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

4,978	8,910	4,995	38,100
4,980	12,130	5,000	48,350
4,985	20,390	5,006	61,750
4,990	28,970		

CONTENTS, IN ACRE-FeET, AT 0000, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,420	11,690	15,890	21,100	27,180	32,980	39,410	37,630	59,050	59,760	40,080	19,840
2	9,460	11,810	16,060	21,240		33,180	39,570	37,340	59,000	59,510	39,650	19,150
3	9,500	11,890	16,210			33,360	39,770	37,000	58,640	59,030	39,090	18,570
4	9,520	12,050	16,390			33,560	39,950	36,770	58,270	58,480	38,780	18,030
5	9,550	12,160	16,550			33,650	40,120	36,420	58,300	57,770	38,350	17,470
6	9,580	12,290	16,670			33,890	40,360	36,010	58,460	57,180	37,860	16,900
7	9,630	12,410	16,870			34,110	40,400	34,930	58,320	56,620	37,480	16,400
8	9,730	12,470	16,970		39,590	34,310	40,320	34,540	58,820	55,960	36,900	15,890
9	9,820	12,580	17,080		28,660	34,530	40,220	34,310	59,320	55,200	36,420	15,410
10	9,890	12,670	17,180		28,850	34,730	40,160	34,290	59,550	54,510	35,970	15,040
11	9,950	12,760	17,270	22,440	29,200	34,980	40,140	34,530	59,550	53,770	35,450	14,710
12	10,020	12,880	17,350		29,370	35,190	40,160	35,020	59,480	53,040	34,860	14,430
13	10,070	13,010	17,470		29,580	35,390	40,160	35,750	59,460	52,450	34,160	14,130
14	10,160	13,150	17,550		29,800	35,580	40,100	36,880	59,320	51,480	33,330	13,770
15	10,210	13,320	17,680		29,990	35,800	39,970	38,000	59,160	50,670	32,320	13,580
16	10,270	13,450	17,810		30,180	36,030	39,770	39,370	59,120	49,890	31,350	13,380
17	10,340	13,640	17,960		30,390	36,390	39,230	41,090	59,140	49,140	30,710	13,220
18	10,420	13,840	18,130		30,610	36,580	39,000	43,020	59,120	48,280	30,080	13,060
19	10,520	14,000	18,450	24,760	30,800	36,770	38,820	45,300	59,050	47,470	29,370	12,880
20	10,730	14,180	18,800	24,920	30,980	36,920	38,470	47,860	59,120	47,010	28,670	12,710
21	10,820	14,330	19,100	25,120	31,210	37,070	38,170	50,020	59,190	46,160	27,990	12,550
22	10,920	14,510	19,440	25,330	31,390	37,260	37,610	51,390	59,280	45,530	27,300	12,420
23	11,010	14,680	19,650	25,480	31,580	37,480	37,420	52,560	59,350	45,090	26,610	12,290
24	11,130	14,810	19,870	25,670	31,810	37,670	37,030	53,750	59,420	44,430	25,900	12,150
25	11,220	14,950	20,060	25,900	32,030	37,860	36,840	54,800	59,370	43,780	25,090	12,110
26	11,320	15,120	20,220	26,090	32,210	38,040	36,840	55,510	59,350	43,270	24,180	12,070
27	11,390	15,280	20,410		32,460	38,330	36,800	55,990	59,440	42,550	23,500	12,050
28	11,450	15,450	20,560		32,730	38,600	37,150	56,500	59,780	42,040	22,750	11,990
29	11,500	15,610	20,710		-----	38,840	37,530	57,180	59,850	41,510	22,010	11,900
30	11,550	15,760	20,850	26,830	-----	39,030	37,730	57,910	59,850	41,190	21,270	11,770
31	11,630	-----	20,980	-----	-----	39,210	-----	58,590	-----	40,630	20,530	-----
MAX	11,630	15,760	20,980			39,210	40,400	58,590	59,850	59,760	40,080	19,840
MIN	9,420	11,690	15,890			32,980	36,800	34,290	58,270	40,630	20,530	11,770
(+)	4,979.69	4,982.22	4,985.35	4,988.77	4,992.12	4,995.57	4,994.81	5,004.63	5,005.18	4,996.28	4,985.08	4,979.74
(*)	+2,110	+4,130	+5,220	+5,850	+5,900	+6,480	-1,480	+20,860	+1,260	-19,220	-20,100	-8,820

CAL YR 1972 MAX 58,320 MIN 9,420 +/-9,960

WTR YR 1973 MAX 59,850 MIN 9,420 +/-2,190

(+) ELEVATION, IN FEET, AT END OF MONTH.

(*) CHANGE IN CONTENTS, IN ACRE-FeET

WALKER LAKE BASIN

75

10297500 West Walker River at Hoyo Bridge, near Wellington, Nev.

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, on left bank 20 ft (6.1 m) upstream from Hoyo Bridge, 2 mi (3 km) upstream from head of Saroni Canal, and 4 mi (6 km) southwest of Wellington.

DRAINAGE AREA.--533 mi² (1,380 km²).

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

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

AVERAGE DISCHARGE.--26 years (1920-23, 1925-32, 1957-73), 232 ft³/s (6.570 m³/s), 168,100 acre-ft/yr (207 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,720 ft³/s (48.7 m³/s) June 1, gage height, 8.04 ft (2.451 m); minimum daily, 16 ft³/s (0.45 m³/s) Dec. 10, 11.
Period of record: Maximum discharge, 2,180 ft³/s (61.7 m³/s) June 6, 1922; minimum observed, 4.8 ft³/s (0.14 m³/s) Jan. 5, 1961.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres (42.5 km²) above station. Records include releases from Topaz Lake and all return flow from Antelope Valley.

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	38	22	20	25	25	25	568	1,700	602	349	366
2	91	37	21	20	25	25	25	557	1,670	593	339	339
3	67	37	22	20	26	24	25	571	1,560	587	370	329
4	65	38	22	20	27	23	25	571	1,350	582	343	312
5	52	36	20	20	26	23	27	582	1,170	565	351	312
6	51	38	22	20	27	24	64	582	1,170	587	337	302
7	50	38	21	20	27	24	129	599	1,120	608	335	271
8	50	39	23	20	27	24	161	625	1,020	608	339	256
9	50	39	20	20	27	24	164	648	1,140	599	343	248
10	50	39	16	21	30	24	165	674	1,280	576	385	225
11	46	40	16	21	32	25	168	701	1,240	576	379	195
12	45	40	20	23	30	26	182	707	1,190	593	385	191
13	44	40	22	24	31	25	226	750	1,130	602	400	185
14	43	41	20	24	31	25	234	732	1,030	599	513	165
15	43	41	20	24	30	25	260	763	781	602	483	148
16	43	38	21	28	31	24	263	766	602	571	411	133
17	44	24	22	36	27	24	287	763	576	554	337	120
18	45	22	23	33	25	24	288	766	565	548	358	124
19	45	22	26	29	25	24	287	769	557	498	368	121
20	45	22	25	23	25	24	275	738	554	466	366	111
21	46	21	24	28	25	24	277	695	562	466	362	103
22	46	21	22	24	27	24	290	769	582	416	368	96
23	46	21	22	24	26	24	298	775	585	374	364	93
24	46	21	22	26	25	25	360	830	582	370	372	82
25	44	21	22	25	25	25	347	789	585	368	448	79
26	44	21	22	25	25	25	387	798	622	366	443	80
27	56	21	22	24	25	26	459	775	622	345	411	80
28	56	21	22	25	25	26	476	836	671	329	405	91
29	56	21	20	25	-----	25	532	994	660	327	402	89
30	38	21	20	25	-----	25	557	1,180	610	329	400	87
31	38	-----	20	25	-----	25	-----	1,440	-----	341	362	-----
TOTAL	1,577	919	662	142	757	760	7,263	23,513	27,486	15,547	11,828	5,333
MEAN	50.9	30.6	21.4	23.9	27.0	24.5	242	752	916	502	382	178
MAX	92	41	26	36	32	26	557	1,440	1,700	608	513	366
MIN	38	21	16	20	25	23	25	557	554	327	335	79
AC-FT	3,130	1,820	1,310	1,470	1,500	1,510	14,410	46,240	54,520	30,840	23,460	10,580

CAL YR 1972 TOTAL 71,801 MEAN 196 MAX 628 MIN 16 AC-FT 142,400
WTR YR 1973 TOTAL 96,187 MEAN 264 MAX 1,700 MIN 16 AC-FT 190,800

NOTE.--No gage-height record May 15 to June 6.

WALKER LAKE BASIN

10300000 West Walker River near Hudson, Nev.

LOCATION.--Lat 38°48'35", long 119°13'35", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.11 N., R.25 E., Lyon County, on left bank 0.5 mi (0.8 km) upstream from Wilson Canyon and 3 mi (5 km) southeast of Hudson.

DRAINAGE AREA.--964 mi² (2,497 km²).

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year. August 1914 to May 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m), from topographic map. Prior to May 1921, nonrecording gage at site 2.5 (4.0 km) upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

AVERAGE DISCHARGE.--36 years (1914-24, 1947-73), 193 ft³/s (5.466 m³/s), 139,800 acre-ft/yr (172 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 1, 2, gage height, 4.88 ft (1.487 m); minimum daily, 32 ft³/s (0.91 m³/s) Jan. 8.

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

REMARKS.--Records excellent except those for winter periods, which are fair. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	46	39	36	45	46	51	361	1,340	351	170	253
2	127	46	39	36	45	46	52	358	1,440	344	170	226
3	106	46	39	41	45	45	52	365	1,370	344	173	212
4	83	46	39	40	45	44	52	351	1,160	333	173	189
5	75	46	38	40	45	48	49	351	904	323	176	186
6	67	45	39	40	45	51	45	354	932	330	186	173
7	83	45	42	34	45	52	71	358	892	316	189	176
8	73	46	45	32	45	52	113	372	743	312	199	164
9	71	46	38	33	45	52	132	379	753	312	192	161
10	69	48	33	35	48	52	124	389	964	302	202	158
11	69	48	33	41	54	59	120	393	956	305	205	135
12	66	49	37	45	54	55	116	410	928	316	216	118
13	62	49	39	46	54	55	143	452	860	319	222	116
14	61	51	36	44	54	54	155	473	824	326	295	111
15	57	51	37	44	52	52	170	456	613	326	284	101
16	59	51	38	48	52	52	180	480	424	323	267	99
17	59	51	39	64	48	52	192	463	375	319	167	94
18	61	45	42	59	46	52	199	501	365	330	152	83
19	61	42	45	50	45	52	205	484	347	333	158	81
20	64	42	44	40	44	52	196	512	330	351	164	79
21	61	41	41	44	44	52	196	456	323	344	164	79
22	57	41	44	42	42	52	205	487	354	309	164	75
23	57	39	42	42	41	52	212	487	354	246	155	75
24	55	41	42	42	41	51	246	533	330	229	152	79
25	52	44	44	46	41	51	236	543	330	216	222	77
26	49	42	45	46	42	52	239	557	330	199	263	71
27	49	41	45	45	45	54	270	529	326	176	267	71
28	46	41	45	45	45	54	281	543	361	149	270	67
29	48	41	39	45	-----	54	305	662	386	152	277	69
30	51	39	37	45	-----	52	351	824	354	146	295	69
31	48	-----	39	45	-----	52	-----	1,010	-----	155	270	-----
TOTAL	2,035	1,349	1,244	1,335	1,297	1,599	4,958	14,893	19,968	8,836	6,459	3,647
MEAN	65.6	45.0	40.1	43.1	46.3	51.6	165	480	666	285	208	122
MAX	127	51	45	64	54	59	351	1,010	1,440	351	295	253
MIN	46	39	33	32	41	44	45	351	323	146	152	67
AC=FT	4,040	2,680	2,470	2,650	2,570	3,170	9,830	29,540	39,610	17,530	12,810	7,230

CAL YR 1972 TOTAL 50,890 MEAN 139 MAX 412 MIN 33 AC=FT 100,900
WTR YR 1973 TOTAL 67,620 MEAN 185 MAX 1,440 MIN 32 AC=FT 134,100

NOTE.--No gage-height record May 20 to June 4.

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LOCATION.--Lat 39°09'10", long 119°05'50", in SE¼ sec.20, T.15 N., R.26 E., Lyon County, on left bank 600 ft (183 m) upstream from timber bridge at Julian Ranch, 1.8 mi (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 mi (7.4 km) east of Wabaska, and 16 mi (26 km) upstream from Weber Dam.

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.

AVERAGE DISCHARGE, --48 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-73), 158 ft³/s (4.475 m³/s), 114,500 acre-ft/yr (141 hm³/yr).

Period of record: Maximum discharge observed, 3,280 ft³/s (92.9 m³/s) July 10, 11, 1906, gage height, 5.90 ft (1.798 m),
date and datum then in use; no flow at times in 1924, 1925, 1931.

REVISIONS (WATER YEARS).--WSP 1314: 1923 (M). WSP 1634: 1904.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	62	73	68	100	108	108	92	1,020	108	124	81
2	32	71	73	63	99	111	102	92	1,350	94	120	62
3	80	62	73	62	98	103	90	76	1,460	90	107	58
4	130	62	70	56	99	100	80	46	1,450	109	117	75
5	100	65	65	56	100	96	90	49	1,240	102	84	62
6	93	64	70	52	99	103	76	61	1,060	100	79	66
7	87	65	70	50	96	106	52	63	1,070	96	74	60
8	95	58	54	48	100	116	40	65	947	88	79	73
9	90	52	35	55	100	120	109	68	823	87	75	70
10	100	52	35	75	109	117	123	62	922	86	66	75
11	90	57	35	90	130	116	77	80	1,110	85	65	72
12	84	65	45	100	136	128	65	72	1,110	85	36	80
13	80	69	45	109	125	131	41	103	1,030	103	30	70
14	66	75	43	111	116	126	84	170	984	97	34	64
15	52	76	42	106	114	120	130	217	884	115	85	66
16	50	76	45	105	112	96	152	193	709	123	59	67
17	45	76	50	117	108	96	133	189	472	131	56	60
18	45	75	60	126	102	99	133	197	400	144	42	87
19	47	70	136	123	98	105	122	221	343	172	45	123
20	57	70	152	106	96	116	122	201	240	198	48	86
21	63	70	145	96	93	114	82	207	199	151	80	85
22	68	70	141	90	92	108	71	170	177	143	83	86
23	65	68	108	84	92	108	99	141	188	129	122	87
24	54	70	96	86	90	112	92	149	135	131	110	81
25	64	75	82	86	92	112	112	228	124	125	124	77
26	60	75	81	84	96	112	81	279	95	117	194	79
27	48	75	85	85	99	109	92	276	92	108	207	76
28	43	74	88	86	109	111	120	263	106	99	177	57
29	42	74	82	92	-----	116	86	314	135	88	218	34
30	48	74	71	95	-----	116	108	544	131	85	180	30
31	54	-----	72	96	-----	116	-----	728	-----	111	155	-----
TOTAL	2,053	2,047	2,322	2,658	2,900	3,447	2,872	5,616	20,006	3,500	3,075	2,149
MEAN	66.2	68.2	74.9	85.7	104	111	95.7	181	667	113	99.2	71.6
MAX	130	76	152	126	136	131	152	728	1,460	198	218	123
MIN	21	52	35	48	90	96	40	46	92	85	30	30
AC=FT	4,070	4,060	4,610	5,270	5,750	6,840	5,700	11,140	39,680	6,940	6,100	4,260
CAL YR 1972	TOTAL 29,918			MEAN 81.7	MAX 287	MIN 15	AC=FT 59,340					
WTR YR 1973	TOTAL 52,645			MEAN 144	MAX 1,460	MIN 21	AC=FT 104,400					

WALKER LAKE BASIN

10302010 Reese River Canyon near Schurz, Nev.

LOCATION.--Lat 38°51'00", long 118°46'55", in NE $\frac{1}{4}$ sec.6, T.11 N., R.29 E., Mineral County, on left bank at abandoned culvert on former U.S. Highway 95 and 6 mi (10 km) south of Schurz.

DRAINAGE AREA.--14 mi² (36 km²), approximately.

PERIOD OF RECORD.--Water years 1963-66 (annual maximum), October 1966 to current year.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 4,080 ft (1,244 m), from topographic map. October 1962 to September 1966, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 0.022 ft³/s (0.001 m³/s), 16 acre-feet/yr (19,700 m³/yr).

EXTREMES.--Current year: Maximum discharge, 108 ft³/s (3.06 m³/s) Jan. 18, gage height, 4.98 ft (1.518 m); no flow most of the year.

Period of record: Maximum discharge, 1,870 ft³/s (53.0 m³/s) July 31, 1965, gage height, 9.25 ft (2.819 m), from high-water marks, based on indirect measurement; no flow most of the time.

REMARKS.--Records poor. No regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0			0	0							
2	0			0	0							
3	0			0	0							
4	0			0	0							
5	0			0	0							
6	0			0	0							
7	0			0	0							
8	0			0	0							
9	0			0	0							
10	0			0	0							
11	0			0	.10							
12	0			0	0							
13	0			0	0							
14	0			0	0							
15	0			0	0							
16	0			0	0							
17	0			0	0							
18	0			20	0							
19	0			0	0							
20	4.6			0	0							
21	0			0	0							
22	0			0	0							
23	0			0	0							
24	0			0	0							
25	0			0	0							
26	0			0	0							
27	0			0	0							
28	0			0	0							
29	0			0	-----							
30	0			0	-----							
31	0	-----		0	-----		-----		-----		-----	
TOTAL	4.6	0	0	20	.10	0	0	0	0	0	0	0
MEAN	.15	0	0	.65	.004	0	0	0	0	0	0	0
MAX	4.6	0	0	20	.10	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	9.1	0	0	40	.2	0	0	0	0	0	0	0

CAL YR 1972 TOTAL 8.30 MEAN .023 MAX 4.6 MIN 0 AC-FT 16
WTR YR 1973 TOTAL 24.70 MEAN .068 MAX 20 MIN 0 AC-FT 49

NOTE.--No gage-height record for entire year. Discharge estimated.

CARSON RIVER BASIN

79

10308200 East Fork Carson River below Markleeville Creek, near Markleeville, Calif.

LOCATION.--Lat 38°42'50", long 119°45'50", in SW¼NE¼ sec.15, T.10 N., R.20 E., Alpine County, on right bank 0.5 mi (0.8 km) downstream from Markleeville Creek and 1.5 mi (2.4 km) north-northeast of Markleeville.

DRAINAGE AREA.--276 mi² (715 km²).

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

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

AVERAGE DISCHARGE.--13 years, 363 ft³/s (10.28 m³/s), 263,000 acre-ft/yr (324 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,200 ft³/s (90.6 m³/s) May 18, gage height, 6.00 ft (1.829 m); minimum, 36 ft³/s (1.02 m³/s) Oct. 31.

Period of record: Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 31, 1963, gage height, 10.21 ft (3.112 m), present datum; minimum, 16 ft³/s (0.45 m³/s) Nov. 17, 1961.

REMARKS.--Records excellent except those for winter months, 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 (6.16 hm³). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	73	78	120	115	172	199	864	1,670	405	144	104
2	171	69	93	120	117	166	183	966	1,470	366	141	107
3	104	65	92	115	114	161	184	1,110	1,400	334	134	110
4	80	131	90	100	115	159	204	1,030	1,350	319	150	118
5	74	95	66	86	107	148	259	788	1,370	305	157	121
6	72	75	70	90	115	151	366	695	1,410	290	134	118
7	70	83	64	85	118	149	422	853	1,410	276	124	134
8	79	76	62	80	114	145	391	1,100	1,440	267	115	131
9	71	70	60	90	112	141	464	1,260	1,490	253	101	118
10	68	76	64	100	116	169	509	1,500	1,360	240	98	112
11	70	83	60	150	115	183	573	1,800	1,280	223	104	110
12	68	74	72	287	115	164	638	1,970	1,170	202	107	110
13	66	75	85	202	119	157	595	1,950	1,100	198	101	107
14	62	88	80	172	119	150	474	1,970	959	215	101	101
15	60	80	90	188	118	141	428	2,060	804	227	141	104
16	63	84	100	412	120	155	413	2,270	728	215	144	98
17	73	88	105	227	119	158	457	2,360	670	215	137	95
18	100	75	120	203	128	151	472	2,430	635	210	134	93
19	92	84	158	155	122	160	450	2,740	621	198	137	83
20	114	70	140	130	126	159	406	2,240	614	176	137	68
21	100	69	119	120	129	149	385	1,950	621	161	134	68
22	94	86	129	110	128	141	428	1,850	628	154	137	68
23	87	64	128	110	130	147	559	1,890	607	150	134	80
24	82	86	114	115	143	153	746	1,860	552	137	150	75
25	72	90	123	120	136	182	864	1,690	539	137	150	75
26	74	87	122	119	146	208	1,040	1,430	565	137	161	73
27	71	85	130	110	156	223	1,290	1,410	635	141	179	68
28	68	84	125	115	168	211	1,460	1,600	559	141	157	66
29	58	85	120	120	-----	186	1,250	1,830	520	147	150	64
30	53	73	120	123	-----	185	990	1,910	463	144	118	62
31	50	-----	120	113	-----	200	-----	1,750	-----	137	101	-----
TOTAL	2,436	2,423	3,099	4,387	3,480	5,124	17,099	51,126	28,640	6,720	4,112	2,841
MEAN	78.6	80.8	100	142	124	165	570	1,649	955	217	133	94.7
MAX	171	131	158	412	168	223	1,460	2,740	1,670	405	179	134
MIN	50	64	60	80	107	141	183	695	463	137	98	62
AC-FT	4,830	4,810	6,150	8,700	6,900	10,160	33,920	101,400	56,810	13,330	8,160	5,640
CAL YR 1972	TOTAL	99,845	MEAN	273	MAX	1,470	MIN	44	AC-FT	198,000		
WTR YR 1973	TOTAL	131,487	MEAN	360	MAX	2,740	MIN	50	AC-FT	260,800		

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-27	2400	4.88	1,830	5-30	0100	5.23	2,130
5-18	2400	6.00	3,200	6-09	0100	4.86	1,700

CARSON RIVER BASIN

10309000 East Fork Carson River near Gardnerville, Nev.

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

DRAINAGE AREA.--341 mi² (883 km²).

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July to December 1905), 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.

GAGE.--Water-stage recorder and, since July 1, 1955, thermograph attachment (thermograph removed Sept. 25, 1972). Datum of gage is 4,985.11 ft (1519.462 m) above mean sea level (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi (3 km) of present site at various datums.

AVERAGE DISCHARGE.--47 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-73), 390 ft³/s (11.05 m³/s), 282,600 acre-ft/yr (348 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,980 ft³/s (84.4 m³/s) May 19, gage-height, 4.80 ft (1.463 m); minimum, 53 ft³/s (1.50 m³/s) Oct. 31.

Period of record: Maximum discharge 17,600 ft³/s (498 m³/s) Dec. 23, 1955, gage height, 11.88 ft (3.621 m), from rating curve extended above 6,000 ft³/s (170 m³/s), on basis of slope-area measurements at gage heights 9.66 (2.944 m) and 11.88 ft (3.621 m); minimum observed, 8 ft³/s (0.23 m³/s) Dec. 4-10, 19-23, 1904.

REMARKS.--Records good. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³).

REVISIONS (WATER YEARS).--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	76	79	128	127	200	221	893	1,650	409	155	97
2	158	78	90	131	134	192	198	974	1,470	371	151	102
3	124	74	94	125	132	178	192	1,130	1,390	339	147	104
4	90	123	95	110	132	177	211	1,080	1,350	320	150	113
5	81	110	71	102	127	164	267	838	1,350	308	178	117
6	79	86	73	105	132	167	390	721	1,390	296	147	116
7	77	88	70	100	135	162	466	873	1,400	279	134	125
8	88	86	66	94	132	158	420	1,100	1,400	273	129	126
9	83	79	64	110	127	151	500	1,250	1,470	260	114	117
10	79	83	70	145	146	171	549	1,450	1,360	246	109	110
11	81	90	65	174	141	214	618	1,740	1,290	231	113	106
12	79	84	80	303	134	182	689	1,900	1,170	208	118	107
13	77	80	90	267	138	174	633	1,900	1,120	201	112	105
14	75	94	85	200	137	164	506	2,000	979	225	104	102
15	75	85	95	182	139	149	452	2,100	815	230	140	101
16	79	96	110	473	136	166	436	2,160	733	218	147	100
17	83	95	200	317	133	170	483	2,180	674	222	144	94
18	119	86	300	269	148	163	495	2,230	635	227	138	91
19	109	91	510	208	138	170	469	2,590	621	207	140	89
20	126	80	401	169	142	173	423	2,190	607	185	142	68
21	116	72	303	140	148	159	407	1,900	617	170	134	68
22	106	98	344	130	146	151	464	1,820	626	162	135	68
23	99	72	259	120	148	158	641	1,810	613	160	132	76
24	94	70	224	130	158	158	800	1,850	548	147	147	77
25	88	90	182	130	152	186	897	1,660	542	144	150	74
26	84	93	176	130	159	219	1,050	1,450	542	143	154	73
27	81	93	177	120	181	244	1,260	1,400	637	148	186	70
28	79	91	161	125	194	240	1,420	1,540	562	147	198	68
29	74	94	136	130	-----	204	1,290	1,760	516	154	154	66
30	63	80	138	142	-----	195	1,040	1,850	467	151	122	64
31	59	-----	135	137	-----	208	-----	1,730	-----	149	101	-----
TOTAL	2,770	2,617	4,943	5,146	3,996	5,567	17,887	50,069	28,544	6,930	4,285	2,794
MEAN	89.4	87.2	159	166	143	180	596	1,615	951	224	138	93.1
MAX	158	123	510	473	194	244	1,420	2,590	1,650	409	186	126
MIN	59	70	64	94	127	149	192	721	467	143	101	64
AC-FT	5,490	5,190	9,800	10,210	7,930	11,040	35,480	99,310	56,620	13,750	8,500	5,540

CAL YR 1972 TOTAL 102,243 MEAN 279 MAX 1,330 MIN 51 AC-FT 202,800
WTR YR 1973 TOTAL 135,548 MEAN 371 MAX 2,590 MIN 59 AC-FT 268,900

PEAK DISCHARGE (BASE 1,300 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-28	0100	3.59	1,640	5-30	0400	3.97	2,020
5-19	0300	4.80	2,980	6-09	0300	3.59	1,640

CARSON RIVER BASIN

81

10310000 West Fork Carson River at Woodfords, Calif.

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, on left bank 0.3 mi (0.5 km) downstream from bridge on State Highway 88-89, 0.6 mi (1.0 km) southwest of Woodfords, and 3.8 mi (6.1 km) downstream from Willow Creek.

DRAINAGE AREA.--65.6 mi² (169.9 km²).

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 portions of 1910-11), at site 0.7 mi (1.1 km) downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,756 m), from river-profile map. Prior to Oct. 1, 1938, nonrecording gage at about the same site at different datum. Oct. 1, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft (0.311 m) lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft (45.7 m) downstream at datum 3.06 ft (0.933 m) lower.

AVERAGE DISCHARGE.--42 years (1900-1907, 1938-73), 114 ft³/s (3.228 m³/s), 82,590 acre-ft/yr (102 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 837 ft³/s (23.7 m³/s) May 15, gage height, 3.78 ft (1.152 m); minimum, 16 ft³/s (0.45 m³/s) Nov. 20, 23, 30, but may have been less during period of ice effect.

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

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

REMARKS.--Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft (1.85 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	26	44	41	43	49	295	432	93	77	56
2	57	25	30	45	40	43	50	300	370	93	77	32
3	44	24	30	45	40	41	50	310	342	91	80	25
4	33	44	24	43	39	43	52	320	320	88	54	24
5	26	39	21	40	38	40	63	335	317	87	36	23
6	25	31	26	39	39	43	88	350	320	85	31	27
7	25	32	25	37	39	42	107	362	317	97	28	30
8	28	30	23	36	39	42	109	401	307	78	27	28
9	25	29	20	36	39	40	133	432	307	63	25	25
10	24	30	21	35	33	43	145	478	292	61	25	31
11	26	31	19	44	39	44	163	530	268	56	24	49
12	26	28	30	106	40	44	184	558	253	54	23	50
13	25	28	30	112	40	43	184	562	235	56	25	48
14	25	29	29	84	40	43	145	570	206	60	63	45
15	25	31	29	70	39	41	141	612	180	61	65	42
16	26	31	29	52	39	43	141	656	170	65	63	28
17	32	31	52	56	39	44	158	665	156	107	60	23
18	38	29	99	48	40	41	160	655	147	104	52	22
19	40	31	165	46	40	43	154	625	143	90	44	22
20	53	24	152	40	41	44	139	570	139	85	25	21
21	43	29	118	42	41	45	145	502	139	58	23	21
22	38	31	107	40	40	41	184	482	141	42	28	21
23	36	24	83	42	40	43	241	466	135	38	33	22
24	34	30	77	45	41	44	296	466	123	35	34	22
25	31	31	65	47	36	50	326	432	121	33	33	42
26	30	31	62	45	39	52	368	376	121	32	37	42
27	28	31	60	44	41	53	428	362	131	33	60	36
28	25	29	55	44	42	53	467	380	121	31	53	30
29	23	29	50	42	-----	49	398	418	112	34	49	27
30	22	26	51	43	-----	50	324	432	102	40	54	25
31	23	-----	50	43	-----	50	-----	415	-----	60	55	-----
TOTAL	966	893	1,658	1,535	1,104	1,380	5,592	14,317	6,467	2,010	1,363	939
MEAN	31.2	29.8	53.5	49.5	39.4	44.5	186	462	216	64.8	44.0	31.3
MAX	57	44	165	112	42	53	467	665	432	107	80	56
MIN	22	24	19	35	33	40	49	295	102	31	23	21
AC-FT	1,920	1,770	3,290	3,040	2,190	2,740	11,090	28,400	12,830	3,990	2,700	1,860
CAL YR 1972	TOTAL 30,742 MEAN 84.0 MAX 324 MIN 16 AC-FT 60,980											
WTR YR 1973	TOTAL 38,224 MEAN 105 MAX 665 MIN 19 AC-FT 75,820											

Peak discharge (base, 500 cfs).--Apr. 28 (2000) 578 cfs (3.29 ft); May 15 (2230) 837 cfs (3.78 ft).

CARSON RIVER BASIN

10310400 Daggett Creek near Genoa, Nev.

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

DRAINAGE AREA.--3.82 mi² (9.89 km²).

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

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

AVERAGE DISCHARGE.--8 years, 2.28 ft³/s (0.0646 m³/s), 1,650 acre-ft/yr (2.03 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14 ft³/s (0.40 m³/s) July 6, gage height, 0.74 ft (0.226 m); minimum, 0.50 ft³/s (0.014 m³/s) July 6.

Period of record: Maximum discharge, 63 ft³/s (1.78 m³/s) Aug. 5, 1971, gage height, 2.78 ft (0.847 m), from floodmarks, from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.50 ft³/s (0.014 m³/s) July 6, 1973.

REMARKS.--Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, was discontinued on Nov. 30, 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.2	1.1	1.3	1.6	2.0	1.9	2.6	3.0	1.2	.87	.85
2	1.6	1.2	1.1	1.3	1.7	1.9	1.8	2.9	2.5	1.1	.88	.80
3	1.2	1.2	1.4	1.3	1.7	1.9	1.8	3.1	2.3	1.1	.98	.80
4	1.1	2.7	1.2	1.3	1.8	1.9	1.8	3.0	2.2	1.0	.95	.80
5	1.2	2.2	1.1	1.3	1.7	1.9	1.9	2.7	2.0	1.0	.87	.80
6	1.2	2.6	1.1	1.3	1.8	1.9	2.1	2.7	1.9	1.0	.84	.80
7	1.2	3.0	1.1	1.3	1.8	2.3	2.2	3.0	1.9	1.1	.86	.85
8	1.2	2.1	1.1	1.6	1.8	2.3	2.1	3.2	1.9	1.0	.85	.89
9	1.2	2.2	1.1	1.5	1.8	2.3	2.2	3.3	1.8	1.0	.89	.92
10	1.4	2.5	1.1	1.5	1.8	2.6	2.3	3.4	1.8	1.1	.90	.92
11	1.4	2.9	1.0	2.4	1.8	2.5	2.4	3.6	1.8	1.1	.86	1.0
12	1.4	3.2	1.1	5.2	1.8	2.1	2.5	3.4	1.7	1.1	.85	1.0
13	1.4	3.9	1.2	2.2	1.7	2.1	2.3	3.5	1.9	1.1	.84	.98
14	1.4	3.0	1.2	2.0	1.6	2.1	2.4	3.6	1.9	1.1	.85	.99
15	1.4	1.7	1.3	1.9	1.6	2.1	2.5	3.8	1.8	1.1	.83	1.0
16	1.5	1.5	1.4	4.3	1.6	2.2	2.6	4.2	1.8	1.1	.83	.98
17	1.6	1.5	2.6	2.7	1.7	2.1	2.7	4.4	1.7	1.1	.82	.97
18	1.4	1.5	4.2	2.4	1.6	2.1	2.4	4.1	1.7	1.0	.84	.96
19	1.4	1.5	2.4	2.1	1.6	2.1	2.3	3.7	1.7	.93	.85	.97
20	1.5	1.5	1.7	1.9	1.6	2.1	2.2	3.6	1.6	.91	.87	.97
21	1.3	1.3	1.6	1.9	2.0	2.0	2.3	3.7	1.6	.87	.88	1.1
22	1.3	1.3	2.5	1.8	2.0	1.9	2.4	3.5	1.5	.87	.88	1.1
23	1.3	1.2	1.6	1.8	2.0	1.9	2.5	3.5	1.5	.81	.89	1.1
24	1.3	1.2	1.5	1.8	2.0	2.0	2.5	3.1	1.5	.79	.91	1.1
25	1.3	1.2	1.5	1.8	2.0	2.2	2.7	3.2	1.4	.77	1.1	1.2
26	1.3	1.3	1.3	1.6	2.3	2.3	3.0	2.9	1.4	.77	1.5	1.2
27	1.3	1.2	1.5	1.6	2.3	2.7	3.4	2.8	1.2	.77	1.3	1.1
28	1.3	1.2	1.5	1.6	2.1	2.2	3.5	2.6	1.1	.77	1.1	1.1
29	1.3	1.1	1.5	1.6	-----	1.9	3.1	2.4	1.1	.77	.95	1.1
30	1.3	1.1	1.5	1.6	-----	1.9	2.8	3.0	1.1	.76	.90	1.1
31	1.2	-----	1.5	1.6	-----	1.8	-----	4.0	-----	.79	.85	-----
TOTAL	41.7	55.2	47.0	59.5	50.8	65.3	72.6	102.5	52.3	29.88	28.59	29.45
MEAN	1.35	1.84	1.52	1.92	1.81	2.11	2.42	3.31	1.74	.96	.92	.98
MAX	1.8	3.9	4.2	5.2	2.3	2.7	3.5	4.4	3.0	1.2	1.5	1.2
MIN	1.1	1.1	1.0	1.3	1.6	1.8	1.8	2.4	1.1	.76	.82	.80
AC=FT	83	109	93	118	101	130	144	203	104	59	57	58

CAL YR 1972 TOTAL 601.15 MEAN 1.64 MAX 4.2 MIN .89 AC=FT 1,190
 WTR YR 1973 TOTAL 634.82 MEAN 1.74 MAX 5.2 MIN .76 AC=FT 1,260

CARSON RIVER BASIN

83

10311000 Carson River near Carson City, Nev.

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

DRAINAGE AREA.--876 mi² (2,269 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft (1,408.322 m) above mean sea level, datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft (0.305 m) higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft (0.305 m) higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft (0.305 m) higher.

AVERAGE DISCHARGE.--34 years, 402 ft³/s (11.38 m³/s), 291,200 acre-ft/yr (359 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,330 ft³/s (94.3 m³/s) May 19, gage height, 6.34 ft (1.932 m); maximum gage height, 6.85 ft (2.088 m) backwater from ice jam; minimum, 8.8 ft³/s (0.25 m³/s) Aug. 23, Sept. 9.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) Dec. 24, 1955 (gage height, 16.0 ft (4.88 m)), present datum, from floodmarks; from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 16.0 ft (4.88 m), computation of flow over dam at gage height, 12.40 ft (3.780 m), and float measurement at gage height 10.60 ft (3.231 m), all at present datum; minimum, 2.6 ft³/s (0.074 m³/s) Aug. 7, 1961.

REMARKS.--Records good except those for winter months, which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	108	134	220	303	413	330	943	1,950	209	43	18
2	65	118	130	222	290	388	334	883	1,930	190	42	23
3	111	122	146	220	291	355	312	1,040	1,690	168	37	31
4	155	133	150	210	290	342	312	1,130	1,540	107	53	31
5	140	168	100	210	289	332	347	940	1,360	94	61	18
6	140	166	93	220	284	320	447	784	1,300	94	83	19
7	128	141	90	210	344	325	611	789	1,340	86	74	18
8	114	125	84	200	363	318	587	874	1,270	72	54	12
9	118	124	80	220	321	304	595	1,010	1,260	80	47	13
10	114	117	80	250	355	304	613	1,160	1,230	68	38	15
11	114	125	80	280	478	370	634	1,490	1,120	54	30	18
12	111	136	80	500	443	377	740	1,710	1,020	50	27	16
13	108	137	80	938	410	350	740	1,850	938	59	24	15
14	92	144	80	600	396	337	637	1,960	865	55	19	16
15	87	175	80	455	373	321	543	1,990	774	54	18	19
16	87	165	80	472	400	313	499	2,080	669	57	15	24
17	86	163	120	1,120	403	320	450	2,390	600	56	15	33
18	115	160	200	669	384	319	486	2,570	540	50	15	32
19	153	148	400	630	378	326	454	2,960	455	45	20	27
20	149	145	700	400	357	327	430	3,140	406	42	20	20
21	168	143	622	355	354	313	409	2,590	390	45	12	23
22	159	137	575	330	346	299	374	2,150	370	54	9.9	22
23	146	132	582	300	336	289	483	1,950	400	59	9.9	22
24	136	128	438	315	333	290	655	2,000	400	56	13	21
25	130	125	385	361	335	301	755	1,860	390	49	14	22
26	121	145	336	345	317	329	824	1,660	337	49	16	27
27	119	151	328	314	358	363	1,050	1,490	365	44	26	32
28	112	153	314	304	412	381	1,300	1,430	350	39	32	39
29	112	151	250	307	-----	373	1,390	1,580	328	36	27	42
30	115	149	220	301	-----	334	1,210	1,670	289	48	15	41
31	108	-----	220	304	-----	326	-----	1,810	-----	53	21	-----
TOTAL	3,664	4,234	7,257	11,782	9,943	10,359	18,551	51,883	25,876	2,222	930.8	709
MEAN	118	141	234	380	355	334	618	1,674	863	71.7	30.0	23.6
MAX	168	175	700	1,120	478	413	1,390	3,140	1,950	209	83	42
MIN	51	108	80	200	284	289	312	784	289	36	9.9	12
AC-FT	7,270	8,400	14,390	23,370	19,720	20,550	36,800	102,900	51,330	4,410	1,850	1,410

CAL YR 1972 TOTAL 105,044.3 MEAN 287 MAX 1,210 MIN 8.0 AC-FT 208,400
WTR YR 1973 TOTAL 147,410.8 MEAN 404 MAX 3,140 MIN 9.9 AC-FT 292,400

Peak discharge (base, 1,600 cfs).--May 19 (2000) 3,330 cfs (6.34 ft); June 1 (1100) 2,030 cfs (5.12 ft).

CARSON RIVER BASIN

10312000 Carson River near Fort Churchill, Nev.

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

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately.

PERIOD OF RECORD.--April 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,214.70 ft (1,284.641 m) above mean sea level. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 miles (12.6 km) upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 miles (13 km) upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft (0.414 m) higher (levels by Truckee-Carson Irrigation District).

AVERAGE DISCHARGE.--62 years, 365 ft³/s (10.34 m³/s), 264,400 acre-ft/yr (326 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,870 ft³/s (3.54 hm³/s) May 20, gage height, 5.50 ft (1.676 m); minimum, 0.49 ft³/s (0.014 m³/s) Oct. 1.

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

REMARKS.--Records good. Many diversions for irrigation above station, including diversions for irrigation of 720 acres (2.91 km) between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft (122 m) upstream for irrigation below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1514: 1917.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,0	90	139	269	304	425	317	1,050	1,780	222	3,7	3,4
2	8,8	92	131	244	299	403	331	835	1,900	183	4,0	2,5
3	18	94	125	220	294	392	331	858	1,750	134	4,3	2,1
4	35	105	139	200	294	346	308	1,030	1,530	103	4,6	1,9
5	81	109	102	190	294	341	308	1,050	1,360	73	4,6	1,7
6	89	134	97	190	294	326	346	858	1,220	52	4,3	1,6
7	82	136	90	190	294	326	454	739	1,230	40	4,0	1,4
8	82	123	80	185	326	326	620	798	1,190	34	4,3	1,3
9	75	118	72	210	350	322	581	950	1,150	28	4,9	1,4
10	77	118	72	265	341	308	607	1,110	1,140	22	4,6	1,3
11	76	112	70	286	402	313	588	1,350	1,090	23	4,6	1,2
12	73	114	70	312	490	370	627	1,670	974	21	4,6	1,3
13	73	118	70	837	454	365	725	1,840	888	17	4,6	1,4
14	73	126	70	820	430	346	718	1,980	828	14	4,9	2,2
15	65	128	72	574	414	341	594	2,050	760	14	4,9	2,3
16	60	147	75	472	392	326	529	2,070	662	13	4,9	2,2
17	63	145	80	874	397	326	478	2,250	588	13	4,9	4,7
18	67	139	230	942	397	326	442	2,330	536	12	4,6	4,2
19	82	139	300	697	392	326	460	2,440	472	11	4,3	1,5
20	112	136	842	574	386	331	430	2,770	408	12	4,3	1,4
21	112	136	749	442	370	331	403	2,650	355	11	4,0	1,6
22	116	136	568	414	355	322	386	2,210	341	10	4,0	1,6
23	121	131	588	370	341	308	355	1,940	313	10	4,3	1,5
24	112	143	496	341	331	299	442	1,840	331	9,0	4,3	1,5
25	107	139	414	331	326	299	614	1,890	317	7,2	4,3	1,7
26	102	121	370	341	336	313	718	1,710	313	5,6	4,3	1,8
27	96	132	336	331	326	341	835	1,470	290	4,3	4,3	1,6
28	90	137	322	308	386	351	1,120	1,360	308	3,7	4,0	1,5
29	80	136	304	308	-----	370	1,310	1,310	281	3,4	3,7	1,5
30	80	138	277	308	-----	360	1,290	1,460	256	3,7	3,7	1,5
31	88	-----	256	308	-----	331	-----	1,580	-----	3,7	3,8	-----
TOTAL	2,396,8	3,772	7,606	12,353	10,015	10,510	17,267	49,448	24,561	1,112,6	134,6	56,8
MEAN	77,3	126	245	398	358	339	576	1,595	819	35,9	4,34	1,89
MAX	121	147	842	942	490	425	1,310	2,770	1,900	222	4,9	4,7
MIN	1,0	90	70	185	294	299	308	739	256	3,4	3,7	1,2
AC-FT	4,750	7,480	15,090	24,500	19,860	20,850	34,250	98,080	48,720	2,210	267	113
CAL YR 1972	TOTAL	93,218,87	MEAN	255	MAX	1,200	MIN	.32	AC-FT	184,900		
WTR YR 1973	TOTAL	139,232,80	MEAN	381	MAX	2,770	MIN	1,0	AC-FT	276,200		

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-29	0400	4.37	1,420	6-02	0400	4.83	1,950
5-20	1400	5.50	2,870				

10312100 Lahontan Reservoir near Fallon, Nev.

LOCATION.--Lat 39°27'45", long 119°04'00", in SW¼SE¼ sec.33, T.19 N., R.26 E., Churchill County, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi (29 km) west of Fallon.

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734..

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is at mean sea level, Bureau of Reclamation datum, which is 3.73 ft (1.137 m) lower than datum of 1929, supplementary adjustment of 1956, according to levels by Bureau of Reclamation during 1966 .

EXTREMES.--Current year: Maximum contents observed, 300,600 acre-ft (371 hm³) June 16, elevation, 4,162.44 (1,268.712 m); minimum observed, 126,700 acre-ft (156 hm³) Sept. 30, elevation, 4,139.79 ft (1,261.808 m).
Period of record: Maximum contents observed (20-inch flashboard on weir), *328,600 acre-ft (405 hm³) June 16, 1942, elevation, 4,164.43 ft (1,269.318 m); minimum observed, *91 acre-ft (112,000 m³) Sept. 7-9, 1929, elevation, 4,070.0 ft (1,240.54 m).

REMARKS.--Reservoir is formed by earth- and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft (364 hm³) between elevations, 4,060.0 (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m³) of dead storage below elevation 4,070.0 ft (1,240.54 m). Surface area at spillway elevation, 12,120 acres (490 km²). Water is used for irrigation of 87,500 acres (354 km²) in Newlands Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

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

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

4,139	122,700	4,160	272,600
4,140	127,800	4,164	322,100
4,150	187,200		

CONTENTS IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133,400	152,000	175,500	196,700	227,000	245,600	262,800	256,500	289,400	279,300	218,200	159,800
2	133,600	152,500	176,800	197,200	227,500	246,200	263,200	256,800	291,000	277,400	216,300	158,500
3	134,400	153,000	177,700	197,600	228,200	246,900	263,800	256,400	292,400	275,700	214,300	157,000
4	135,200	153,600	178,800	198,300	228,800	247,500	264,500	255,800	293,900	273,600	212,500	155,900
5	135,900	154,100	180,000	199,200	229,200	248,100	264,500	256,100	294,500	271,600	210,600	154,400
6	136,500	155,100	181,100	200,400	229,800	248,800	264,000	256,100	295,700	269,400	208,700	152,700
7	137,000	155,900	182,200	201,400	230,300	249,700	263,800	256,000	295,900	266,900	206,900	151,300
8	137,400	156,600	183,400	202,400	230,800	250,100	263,700	255,900	296,200	264,600	205,000	149,400
9	138,000	157,300	183,400	203,200	231,500	250,900	263,900	255,700	296,700	262,100	203,000	147,900
10	138,800	158,100	183,600	204,200	232,300	251,400	263,700	255,600	296,900	260,000	200,900	146,400
11	139,400	158,800	183,700	205,400	233,500	251,700	263,600	256,000	298,000	257,600	199,200	145,100
12	140,000	159,600	184,000	206,600	234,200	252,300	263,700	256,700	298,700	255,000	197,000	143,900
13	140,800	160,100	184,100	208,300	235,100	253,200	264,000	257,400	299,200	253,200	195,300	142,900
14	141,400	160,700	184,400	209,500	235,900	253,400	264,300	258,700	300,100	250,900	193,300	141,700
15	142,200	161,500	184,600	211,200	236,700	254,200	264,300	260,200	300,400	248,700	191,200	140,500
16	142,900	162,800	185,000	212,800	237,600	254,600	264,300	262,000	300,600	247,000	189,000	139,300
17	143,500	164,000	185,100	213,700	238,300	255,100	263,600	263,400	299,900	245,100	186,900	138,300
18	144,200	165,300	185,600	214,900	238,900	255,700	263,200	265,100	299,200	243,400	184,900	137,300
19	144,800	166,300	185,800	216,800	239,700	256,200	262,900	267,300	298,500	241,400	182,800	136,100
20	145,400	166,900	186,200	218,300	240,200	256,900	262,200	270,200	297,300	239,400	180,800	135,100
21	146,300	167,200	187,000	219,400	240,900	257,700	261,600	273,200	295,800	237,500	178,800	133,900
22	146,900	167,400	188,700	220,300	241,600	257,700	261,300	276,700	293,900	235,700	177,000	132,700
23	147,600	167,700	190,300	221,200	242,100	258,100	260,500	279,300	292,200	233,400	175,000	132,000
24	148,100	168,100	191,400	221,900	242,700	258,800	259,700	280,900	290,900	231,900	172,900	130,700
25	148,800	169,100	192,400	222,700	243,300	259,300	259,000	282,400	289,200	230,100	171,100	129,700
26	149,400	170,200	193,200	223,400	243,700	259,600	258,200	284,100	287,900	228,200	169,400	128,900
27	149,800	170,900	193,900	224,000	244,300	260,200	257,300	285,500	286,300	226,300	167,800	128,100
28	150,200	171,900	194,500	224,700	245,200	260,700	256,500	286,400	284,700	224,500	166,300	127,500
29	151,600	173,300	195,200	225,300	-----	261,300	256,200	287,200	283,300	223,700	164,700	127,000
30	151,000	174,400	195,700	225,900	-----	261,900	256,000	287,600	281,100	222,100	163,200	126,700
31	151,500	-----	196,100	226,400	-----	262,300	-----	288,700	-----	220,300	161,400	-----
MAX	151,600	174,400	196,100	226,400	245,200	262,300	264,500	288,700	300,600	279,300	218,200	159,800
MIN	133,400	152,000	175,500	196,700	227,000	245,600	256,000	255,600	281,100	220,300	161,400	126,700
(†)	4,144.33	4,148.10	4,151.25	4,155.09	4,157.22	4,159.01	4,158.37	4,161.45	4,160.79	4,154.37	4,146.00	4,139.79
(‡)	+17,800	+22,900	+21,700	+30,300	+18,800	+17,100	-6,300	+32,700	-7,600	-60,800	-58,900	-34,700

CAL YR 1972 Max 310,100 Min 133,400 ±39,600

WTR YR 1973 Max 300,600 Min 126,700 ±7,000

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

* Computed on basis of capacity table dated 1972.

Outfall from Newlands Project into Stillwater National Wildlife Refuge, near Fallon, Nev.

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

10312210 Stillwater Diversion Canal near Fallon, Nev.--Lat 39°28'25", long 118°35'50", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.19 N., R.30 E., on right bank 0.2 mi (0.6 km) downstream from a channel to Stillwater Slough and 10 mi (16 km) east of Fallon.

10312220 Stillwater Slough Cutoff Drain near Stillwater, Nev.--Lat 39°33'05", long 118°31'40", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.20 N., R.31 E., on left bank 0.9 mi (1.4 km) downstream from Stillwater Slough and 2.3 mi (3.7 km) north-northeast of Stillwater.

10312240 Paiute Diversion Drain near Stillwater, Nev.--Lat 39°33'30", long 118°34'20", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.20 N., R.30 E., on right bank 0.1 mi (0.2 km) downstream from diversion out of Paiute Drain and 3 mi (5 km) northwest of Stillwater.

10312260 Indian Lakes Canal near Fallon, Nev.--Lat 39°34'30", long 118°41'30", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.20 N., R.29 E., on right bank between 2 lakes 8 mi (13 km) northeast of Fallon.

Records of monthly discharge of these canals, published as a group, are available from October 1966 to current year

Outfall, in acre-feet, water year October 1972 to September 1973

Month	Stillwater Diversion Canal	Stillwater Slough Cutoff Drain	Paiute Diversion Drain	Indian Lakes Canal	Total
October . . .	1,690	1,830	320	731	4,570
November. . .	1,100	1,770	31	1,040	3,940
December. . .	622	258	78	557	1,520
Calendar year 1972	28,160	22,670	6,390	12,890	70,110
January . . .	682	413	58	17	1,170
February. . .	701	404	81	41	1,230
March	571	293	83	385	1,330
April	1,600	1,210	341	941	4,090
May	3,670	3,070	963	1,060	8,760
June.	4,050	3,110	1,880	1,120	10,160
July.	4,640	2,630	1,100	942	9,310
August. . . .	4,280	3,190	826	776	9,070
September . .	3,180	3,140	668	1,300	8,290
Water year 1972-73	26,800	21,320	6,440	8,900	63,460

CARSON RIVER BASIN

10312280 Carson River below Fallon, Nev.

LOCATION.--Lat 39°40'10", long 118°39'20", in SE¼SW¼ sec.19, T.21 N., R.30 E., Churchill County, on right bank 15 mi (24 km) north-northeast of Fallon.

PERIOD OF RECORD.--October 1966 to June 1967 (monthly discharge only), July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,880 ft (1,183 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 60.7 ft³/s (1.719 m³/s), 43,980 acre-ft/yr (54.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 105 ft³/s (2.97 m³/s) Dec. 25, gage height, 2.46 ft (0.750 m); minimum, no flow July 20-23, July 28 to Aug. 4.

Period of record: Maximum discharge, 1,030 ft³/s (29.2 m³/s) July 9, 1967, gage height, 6.60 ft (2.012 m); no flow for many days in some years.

REMARKS.--Records poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity, 295,100 acre ft (364 hm³). Records for this station together with the canals on preceding page represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.66	.20	30	35	24	2.4	3.4	2.0	.67	0	8.5
2	2.9	.63	.20	28	35	22	2.4	3.2	1.1	.55	0	4.2
3	1.6	.42	.20	26	33	21	2.3	3.2	.67	1.8	0	2.3
4	1.1	.38	.20	25	32	21	2.1	5.7	.38	1.4	0	1.4
5	.80	.38	.20	24	31	21	2.3	7.6	1.6	.80	2.2	11
6	.55	.33	.20	23	34	20	1.9	7.3	4.0	.55	14	4.4
7	.38	.32	.15	23	34	20	1.2	6.6	2.9	1.6	14	8.2
8	.80	.32	.15	23	34	22	1.3	6.9	5.2	.27	5.2	6.5
9	.80	.28	.10	23	30	22	1.5	6.0	2.3	1.8	2.3	5.2
10	.37	.27	.10	24	31	19	3.7	5.2	.67	2.7	3.1	4.0
11	.32	.27	.10	25	37	21	4.3	4.4	4.4	.45	5.7	2.9
12	.30	.27	.10	26	43	19	2.3	4.9	10	.02	2.3	2.3
13	.39	.24	.15	30	42	10	1.3	3.8	3.3	0	.45	1.8
14	.32	.23	.15	38	37	7.4	1.1	3.1	3.5	1.2	9.7	1.2
15	.29	.27	.20	37	36	6.4	1.3	1.7	4.0	2.5	13	4.5
16	.27	.32	.20	38	33	5.3	1.0	2.3	4.9	1.6	11	3.3
17	.27	.32	.20	38	31	4.7	.86	6.0	2.7	.95	4.7	3.5
18	.22	.35	.20	36	29	4.4	.71	5.4	1.7	.32	1.7	9.9
19	.43	.38	30	36	28	4.0	.63	2.5	4.4	.07	1.4	5.2
20	2.9	.38	35	35	27	4.2	.63	4.0	4.4	0	1.4	4.0
21	2.0	.37	40	34	26	4.1	.61	1.8	4.9	0	6.2	3.3
22	1.4	.32	63	32	25	3.7	.64	1.8	6.2	0	3.8	2.5
23	1.1	.32	58	30	24	3.2	.63	1.6	5.2	0	1.6	2.7
24	.65	.28	62	30	24	2.9	.75	1.6	3.5	.08	1.2	2.5
25	.55	.27	83	29	24	2.8	1.3	2.0	1.4	.32	1.8	1.7
26	.45	.28	66	29	23	2.7	.83	3.8	.45	.27	3.1	1.6
27	.45	.25	56	29	24	2.4	.62	4.9	4.2	.03	6.0	2.0
28	.37	.20	51	29	23	2.4	.77	1.8	3.8	0	9.9	4.2
29	.29	.20	40	30	-----	2.4	1.0	1.4	2.0	0	4.4	2.3
30	.27	.20	35	33	-----	2.5	1.1	2.0	.55	0	4.4	1.4
31	.23	-----	32	35	-----	2.5	-----	6.0	-----	0	14	-----
TOTAL	24.77	9.71	654.00	928	865	330.0	43.48	121.9	96.32	19.95	148.55	118.5
MEAN	.80	.32	21.1	29.9	30.9	10.6	1.45	3.93	3.21	.64	4.79	3.95
MAX	2.9	.66	83	38	43	24	4.3	7.6	10	2.7	14	11
MIN	.22	.20	.10	23	23	2.4	.61	1.4	.38	0	0	1.2
AC-FT	49	19	1,300	1,840	1,720	655	86	242	191	40	295	239

CAL YR 1972 TOTAL 2,222.49 MEAN 6.07 MAX 83 MIN .10 AC-FT 4,410
 WTR YR 1973 TOTAL 3,360.18 MEAN 9.21 MAX 83 MIN 0 AC-FT 6,660

HUMBOLDT RIVER BASIN

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10315500 Marys River above Hot Springs Creek, near Deeth, Nev.

LOCATION.--Lat 41°15'10", long 115°15'20", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.39 N., R.59 E., Elko County, on right bank 1 mi (1.6 km) upstream from Hot Springs Creek, 7 mi (11 km) north of Cross Ranch, and 13 mi (21 km) north of Deeth.

DRAINAGE AREA.--415 mi² (1,075 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi (1.9 km) downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--30 years, 61.0 ft³/s (1.728 m³/s), 44,190 acre-ft/yr (54.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 370 ft³/s (10.5 m³/s) May 20, gage height, 4.34 ft (1.323 m); minimum, 1.1 ft³/s (0.031 m³/s) Aug. 24.

Period of record: Maximum discharge, 4,210 ft³/s (119 m³/s) Feb. 12, 1962, gage height, 7.63 ft (2.326 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

REMARKS.--Records excellent. Several diversions for irrigation of 7,150 acres (28.9 km²), Humboldt Decree, above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	17	25	18	22	126	86	215	144	31	6.4	1.4
2	5.8	18	23	19	21	144	87	198	171	28	5.8	1.4
3	5.5	19	26	19	21	111	81	187	173	26	5.5	1.4
4	5.5	22	24	17	20	96	80	181	153	24	5.8	1.4
5	6.7	23	22	16	21	84	84	201	130	21	5.5	1.4
6	7.4	23	23	15	23	78	98	216	107	19	5.5	1.3
7	7.4	23	20	13	24	67	126	218	96	18	5.8	1.3
8	7.8	22	18	13	25	64	134	183	83	16	5.3	1.4
9	9.6	22	17	13	25	65	127	164	80	15	4.3	1.5
10	12	22	16	13	26	72	127	162	81	14	3.8	1.5
11	12	22	15	13	25	90	143	171	84	13	3.1	1.4
12	13	23	15	16	26	87	166	180	76	14	2.9	1.4
13	13	24	16	65	26	71	187	193	73	14	2.6	1.4
14	13	24	17	85	27	64	205	220	86	18	2.2	1.4
15	13	25	17	84	29	59	216	253	113	16	2.1	1.5
16	13	26	18	82	30	60	203	281	104	15	1.9	1.5
17	15	27	18	67	29	68	207	294	90	15	1.8	1.7
18	15	27	18	56	30	74	196	303	81	13	1.7	1.5
19	18	26	20	48	28	71	178	324	73	13	1.5	1.5
20	25	25	22	48	26	70	163	357	62	12	1.5	1.5
21	36	24	26	36	26	79	149	357	54	12	1.5	1.7
22	35	22	30	31	27	76	143	324	51	18	1.7	1.7
23	27	21	31	33	30	69	132	290	50	18	1.8	1.8
24	23	22	32	28	47	67	138	248	48	16	1.3	1.8
25	20	18	30	26	83	73	156	226	41	14	1.4	1.8
26	19	21	26	27	106	88	167	221	37	13	1.4	1.9
27	18	23	27	24	96	103	186	210	38	11	1.4	1.9
28	18	23	28	22	96	110	202	189	47	9.6	1.4	1.9
29	18	27	25	22	-----	94	221	164	41	8.2	1.5	1.9
30	18	27	26	23	-----	86	231	140	36	7.8	1.4	1.9
31	18	-----	22	24	-----	65	-----	132	-----	7.0	1.4	-----
TOTAL	473.8	688	693	1,016	1,015	2,551	4,626	7,002	2,503	489.6	91.2	47.1
MEAN	15.3	22.9	22.4	32.8	36.3	82.3	154	226	83.4	15.8	2.94	1.57
MAX	36	27	32	85	106	144	231	357	173	31	6.4	1.9
MIN	5.5	17	15	13	20	59	80	132	36	7.0	1.3	1.3
AC=FT	940	1,360	1,570	2,020	2,010	5,060	9,180	13,890	4,960	971	181	93

CAL YR 1972 TOTAL 36,411.1 MEAN 99.5 MAX 442 MIN 2.1 AC=FT 72,220

WTR YR 1973 TOTAL 21,195.7 MEAN 58.1 MAX 357 MIN 1.3 AC=FT 42,040

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-15	0700	3.53	221	5-20	2300	4.34	370
4-30	1400	3.63	237				

HUMBOLDT RIVER BASIN

10316500 Lamoille Creek near Lamoille, Nev.

LOCATION.--Lat 40°41'30", long 115°28'30", in NE $\frac{1}{4}$ sec.6, T.32 N., R.58 E., Elko County, on left bank at Lamoille Creek bridge at mouth of canyon, 300 ft (91 m) downstream from Elko-Lamoille powerplant, and 3 mi (5 km) south of Lamoille.

DRAINAGE AREA.--25 mi² (65 km²), approximately.

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

GAGE.--Water-stage recorder. Concrete control since Oct. 30, 1950. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums.

AVERAGE DISCHARGE.--37 years (1915-22, 1943-73), 43.8 ft³/s (1.240 m³/s), 31,730 acre-ft/yr (39.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 660 ft³/s (18.7 m³/s) May 19, gage height, 3.85 ft (1.174 m); minimum, 1.7 ft³/s (0.048 m³/s) Sept. 18.

Period of record: Maximum discharge recorded, 794 ft³/s (22.5 m³/s) June 4, 1957, caused by failure of diversion dam 200 ft (61 m) upstream, but may have been exceeded in June 1917 when gage washed out; minimum, 0.10 ft³/s (0.003 m³/s) Feb. 24, 1969.

REMARKS.--Records good except those for winter periods, which are poor. Records include flow of McDermott ditch, which diverts about 200 ft (60 m) upstream from station. Elko-Lamoille powerplant diverts about 6 mi (10 km) upstream, but flow is returned to channel at powerplant 300 ft (90 m) upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	10	7.1	6.0	4.2	5.3	8.9	43	306	111	18	8.0
2	6.5	11	7.0	5.8	4.2	5.3	8.5	44	265	100	18	6.8
3	6.7	10	6.7	5.6	4.2	6.6	8.9	49	225	96	19	6.3
4	10	10	6.5	5.5	4.2	5.8	8.9	52	196	91	20	5.9
5	13	10	6.0	5.5	3.8	5.8	9.9	54	201	89	18	5.5
6	11	9.4	6.3	5.5	3.8	5.8	11	52	227	84	17	5.2
7	10	9.5	6.0	5.6	3.8	5.8	11	56	260	76	16	5.2
8	10	9.6	5.7	5.7	3.8	6.2	11	67	294	71	15	5.6
9	10	9.2	5.5	5.7	3.8	6.2	12	77	297	67	14	5.6
10	14	9.1	5.0	5.7	3.8	6.2	13	92	306	67	13	5.2
11	13	9.3	5.0	6.0	3.8	6.6	14	116	280	71	13	5.0
12	12	9.0	5.3	6.8	3.8	6.6	16	159	262	70	12	4.7
13	12	8.8	5.7	6.3	4.2	6.6	18	208	227	70	11	4.5
14	12	9.0	5.8	6.0	4.2	6.6	17	241	291	66	11	4.3
15	11	9.2	6.0	6.0	4.2	7.1	17	275	180	56	10	4.2
16	11	9.0	6.7	6.3	4.2	6.6	18	324	150	48	10	4.3
17	11	8.6	7.9	6.0	4.0	7.1	19	368	137	45	9.4	4.1
18	10	8.6	7.7	6.2	4.0	7.1	19	445	119	42	8.9	4.4
19	11	8.7	7.8	5.8	4.0	7.1	18	542	116	38	8.6	5.2
20	12	8.5	7.3	5.4	4.1	7.1	18	457	126	38	8.4	5.4
21	13	8.0	7.3	5.7	4.0	7.5	18	377	130	36	8.2	5.7
22	12	7.5	7.4	5.6	4.2	7.1	18	345	153	33	8.0	5.5
23	12	7.5	7.1	5.3	4.2	7.1	20	340	153	31	7.6	6.1
24	12	7.7	7.1	5.0	4.2	7.5	21	339	153	28	7.1	6.2
25	11	8.0	7.0	5.0	4.6	8.0	23	353	157	28	7.1	6.6
26	11	8.2	6.8	4.6	4.6	8.5	26	264	165	26	6.5	5.7
27	11	8.0	6.6	4.3	5.0	8.9	34	214	166	24	6.4	5.6
28	10	8.3	6.7	4.5	5.0	8.9	40	206	160	23	6.4	5.3
29	10	7.1	6.3	4.6	-----	8.9	47	222	147	21	6.1	5.1
30	9.5	8.0	6.1	4.6	-----	8.9	44	241	130	20	5.8	4.7
31	9.5	-----	6.0	4.6	-----	8.9	-----	290	-----	19	6.8	-----
TOTAL	334.0	264.8	201.4	171.2	115.9	217.7	568.1	6,912	5,979	1,685	346.3	161.9
MEAN	10.8	8.83	6.50	5.52	4.14	7.02	18.9	223	199	54.4	11.2	5.40
MAX	14	11	7.9	6.8	5.0	8.9	47	542	306	111	20	8.0
MIN	6.5	7.1	5.0	4.3	3.8	5.3	8.5	43	116	19	5.8	4.1
AC-FT	662	525	399	340	230	432	1,130	13,710	11,860	3,340	687	321

CAL YR 1972 TOTAL 15,758.5 MEAN 43.1 MAX 448 MIN 3.7 AC-FT 31,260

WTR YR 1973 TOTAL 16,957.3 MEAN 46.5 MAX 542 MIN 3.8 AC-FT 33,630

PEAK DISCHARGE (BASE, 310 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
5-19	2030	3.85	660	6-08	2100	3.28	374
5-31	2000	3.20	345	6-14	0200	3.30	402

HUMBOLDT RIVER BASIN

91

10317400 North Fork Humboldt River near North Fork, Nev.

LOCATION.--Lat 41°34'30", long 115°54'40", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.43 N., R.54 E., Elko County, on right bank above all diversions, 0.7 mi (1.1 km) downstream from Fry Canyon, 1 mi (2 km) upstream from Doheny Ranch, and 9 mi (14 km) northwest of North Fork.

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

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1965, August 1965 to current year.

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

AVERAGE DISCHARGE.--8 years, 11.2 ft³/s (0.317 m³/s), 8,110 acre-ft/yr (10.0 km³/yr).

EXTREMES.--Current year: Maximum discharge, 92 ft³/s (2.61 m³/s) May 14, gage height, 3.37 ft (1.027 m); minimum, 0.25 ft³/s (0.007 m³/s) Sept. 13, 14.

Period of record: Maximum discharge, 151 ft³/s (4.28 m³/s) Jan. 18, 1971, gage height, 3.93 ft (1.193 m); minimum, 0.25 ft³/s (0.007 m³/s) Sept. 13, 14, 1973.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	1.4	2.1	2.0	2.5	5.5	36	30	5.7	1.3	.81
2	1.2	1.6	1.5	2.0	1.9	2.5	5.2	35	28	5.4	1.3	.75
3	1.1	1.6	1.5	1.9	1.9	2.7	5.0	37	24	4.8	1.3	.69
4	1.5	2.0	1.3	1.8	1.8	2.7	5.6	36	21	4.5	1.3	.59
5	1.4	2.3	1.4	1.8	1.8	2.5	9.6	35	19	4.3	1.1	.54
6	1.3	1.9	1.4	1.8	1.8	2.4	16	34	19	4.2	.95	.50
7	1.2	2.1	1.4	1.8	1.8	2.3	16	37	21	3.9	.87	.54
8	1.2	2.0	1.4	1.9	1.7	2.3	14	47	23	3.7	.87	.64
9	1.2	1.7	1.3	2.0	1.7	2.6	14	56	23	3.5	.81	.59
10	1.7	1.7	1.3	2.2	1.7	3.2	17	62	23	3.3	.81	.54
11	1.3	1.7	1.3	2.3	1.8	3.1	25	63	20	3.3	.81	.54
12	1.2	1.6	1.4	3.2	1.7	2.9	33	67	18	3.3	.75	.50
13	1.2	1.5	1.4	6.1	1.7	2.7	34	78	16	3.3	.75	.46
14	1.1	1.5	1.4	6.5	1.7	2.5	28	82	22	3.9	.69	.40
15	1.1	1.5	1.4	5.7	1.7	3.1	23	77	16	3.2	.69	.46
16	1.1	1.5	1.5	4.9	1.8	3.7	22	71	13	2.9	.69	.54
17	1.1	1.3	1.7	4.6	1.8	4.3	21	73	13	2.7	.64	.64
18	1.1	1.2	2.7	4.2	1.8	3.9	19	77	11	2.7	.59	.64
19	1.6	1.2	3.6	3.3	1.8	4.2	16	76	9.4	2.5	.64	.64
20	1.6	1.1	3.5	3.1	1.9	4.6	14	69	8.8	2.5	.59	.70
21	1.7	1.1	3.5	3.0	2.0	4.0	13	56	8.6	2.4	.59	.68
22	1.5	1.1	4.0	2.8	2.0	3.6	14	46	8.8	2.4	.64	.68
23	1.5	1.0	4.0	2.8	2.0	3.3	20	42	8.8	2.1	.59	.72
24	1.4	1.0	3.7	2.8	2.1	3.8	25	42	8.4	2.0	.59	.74
25	1.3	1.1	3.5	2.8	2.2	5.3	30	43	7.9	1.9	.64	.74
26	1.3	1.2	3.3	2.5	2.4	7.3	38	35	7.7	1.8	.64	.70
27	1.2	1.1	3.7	2.3	2.3	8.5	48	29	7.4	1.6	.69	.70
28	1.2	1.0	3.4	2.3	2.4	7.2	61	26	7.1	1.6	.75	.65
29	1.2	1.1	2.8	2.2	-----	6.0	55	25	6.6	1.5	.59	.61
30	1.2	1.3	2.4	2.2	-----	5.5	43	27	6.1	1.5	.54	.61
31	1.3	-----	2.2	2.1	-----	5.5	-----	29	-----	1.3	.81	-----
TOTAL	40.2	43.4	70.3	91.0	53.2	120.7	689.9	1,548	455.6	93.7	24.52	18.54
MEAN	1.30	1.45	2.27	2.94	1.90	3.89	23.0	49.9	15.2	3.02	.79	.62
MAX	1.7	2.3	4.0	6.5	2.4	8.5	61	82	30	5.7	1.3	.81
MIN	1.1	1.0	1.3	1.8	1.7	2.3	5.0	25	6.1	1.3	.54	.40
AC=FT	80	86	139	180	106	239	1,370	3,070	904	186	49	37
CAL YR 1972	TOTAL 5,022.25 MEAN 13.7 MAX 90 MIN .95 AC=FT 9,960											
WTR YR 1973	TOTAL 3,249.06 MEAN 8.90 MAX 82 MIN .40 AC=FT 6,440											

PEAK DISCHARGE (BASE, 65 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-28	1700	3.19	74	5-18	1600	3.33	84
5-14	1920	3.37	92				

HUMBOLDT RIVER BASIN

10317500 North Fork Humboldt River at Devils Gate, near Halleck, Nev.

LOCATION.--Lat 41°11'00", long 115°29'00", in SE $\frac{1}{4}$ sec.13, T.38 N., R.57 E., Elko County, on right bank 500 ft (150 m) downstream from Devils Gate Canyon, 16 mi (26 km) north of Halleck, and 26 mi (42 km) upstream from mouth.

DRAINAGE AREA.--830 mi² (2,150 km²), approximately.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,368 ft (1,636.2 m) above mean sea level (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.2 mi (0.3 km) upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 250 ft (76 m) downstream at same datum.

AVERAGE DISCHARGE.--38 years, 73.4 ft³/s (2.078 m³/s), 53,180 acre-ft/yr (65.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 668 ft³/s (18.9 m³/s) Mar. 1, gage height, 7.39 ft (2.252 m); minimum 3.9 ft³/s (0.11 m³/s) Aug. 18.

Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) Feb. 11, 1962, gage height, 16.12 ft (4.913 m), from high-water mark in well, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) July 26, 1960.

REMARKS.--Records good except those for winter months, which are poor. Many diversions for irrigation of 16,600 acres (67.2 km²), Humboldt Decree, above station.

REVISIONS (WATER YEARS).--WSP 1314: 1913 (M), 1946.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	23	17	22	352	144	172	104	16	6.6	7.2
2	16	23	24	18	22	396	134	157	134	17	6.6	8.4
3	16	24	29	18	21	215	118	140	125	16	7.2	7.8
4	18	26	27	16	20	150	132	137	108	14	7.8	7.2
5	22	27	22	14	20	157	174	155	99	13	6.6	6.0
6	18	26	23	14	23	130	242	196	83	11	7.2	6.6
7	19	25	18	13	24	114	257	182	76	11	7.8	6.6
8	18	24	16	12	26	125	199	164	67	10	7.2	6.6
9	21	24	14	12	28	179	181	148	59	9.6	6.6	6.6
10	22	24	13	12	29	258	198	143	50	9.6	5.7	7.2
11	22	24	12	18	29	382	225	141	46	10	5.0	7.2
12	21	25	13	35	30	186	228	136	45	10	5.7	6.6
13	19	25	14	60	34	141	246	137	46	17	5.4	6.6
14	19	26	15	75	40	105	239	137	59	28	5.1	6.0
15	19	28	16	80	45	95	210	143	94	18	4.8	6.0
16	19	29	16	70	37	132	195	151	126	14	4.8	6.0
17	19	28	17	60	34	207	192	154	105	13	4.8	6.0
18	18	25	18	50	34	214	188	158	90	13	4.5	7.2
19	22	24	20	45	34	172	176	175	81	14	4.5	7.8
20	29	26	22	40	31	199	162	193	74	14	4.8	7.8
21	41	21	26	35	31	199	154	206	62	16	4.8	9.0
22	36	20	29	31	30	150	155	202	53	16	4.8	8.4
23	29	19	31	33	34	113	153	193	44	16	5.1	8.4
24	24	20	30	28	59	133	154	175	36	16	4.8	8.4
25	23	22	27	26	178	195	151	164	31	15	4.5	9.0
26	22	24	25	27	202	255	148	175	27	14	4.8	9.0
27	21	22	26	24	169	278	148	181	24	13	5.1	8.4
28	21	24	25	22	210	204	151	160	24	12	5.1	8.4
29	21	25	23	22	-----	153	167	137	21	12	4.8	8.4
30	21	25	24	23	-----	137	175	117	18	11	5.4	8.4
31	23	-----	20	24	-----	134	-----	101	-----	9.0	5.1	-----
TOTAL	675	728	658	974	1,496	5,860	5,396	4,930	2,011	424.2	173.4	223.2
MEAN	21.8	24.3	21.2	31.4	53.4	189	180	159	67.0	13.7	5.59	7.44
MAX	41	29	31	80	210	396	257	206	134	26	7.8	9.0
MIN	16	19	12	12	20	95	118	101	18	9.0	4.5	6.0
AC=FT	1,340	1,440	1,310	1,930	2,970	11,620	10,700	9,780	3,990	841	344	443
CAL YR 1972	TOTAL 42,226.0	MEAN 115	MAX 1,320	MIN 7.2	AC=FT 83,760							
WTR YR 1973	TOTAL 23,548.8	MEAN 64.5	MAX 396	MIN 4.5	AC=FT 46,710							

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
3-01	2300	7.39	668	3-27	0500	5.95	309
3-10	2300	7.33	647	4-07	0600	6.06	325
3-18	0200	5.60	230	5-21	1900	5.49	212

HUMBOLDT RIVER BASIN

93

10318500 Humboldt River near Elko, Nev.

LOCATION.--Lat 40°56'00", long 115°38'00", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T.35 N., R.56 E., Elko County, on right bank 1 mi (1.6 km) southwest of Ryndon, 1.5 mi (2.4 km) upstream from Jackson Creek, 5 mi (8 km) downstream from North Fork, and 10 mi (16 km) northeast of Elko.

DRAINAGE AREA.--2,800 mi² (7,252 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft (1,567.379 m) above mean sea level, datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi (18 km) downstream at different datum.

AVERAGE DISCHARGE.--36 years, 237 ft³/s (6.712 m³/s), 171,710 acre-ft/yr (212 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,550 ft³/s (43.9 m³/s) May 22, gage height, 6.94 ft (2.115 m); maximum gage height, 8.36 ft (2.548 m) Jan. 19 (backwater from ice); minimum, 0.60 ft³/s (0.017 m³/s) Aug. 28, 29.

Period of record: Maximum discharge, 7,070 ft³/s (200 m³/s) Feb. 13, 1962, gage height, 12.3 ft (3.75 m); no flow for many days in August and September 1948.

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of 95,800 acres (388 km²), Humboldt Decree, above station.

REVISIONS.--WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	36	82	150	170	728	578	776	976	250	50	1.7
2	7.8	42	82	120	165	1,080	592	736	1,000	205	26	1.9
3	8.8	42	85	115	155	1,240	557	652	1,160	179	25	2.2
4	12	45	90	110	150	1,050	529	599	1,160	159	23	5.6
5	21	48	65	102	145	940	536	652	1,040	141	23	5.6
6	12	49	55	95	140	744	578	772	904	125	22	5.0
7	11	51	43	97	148	571	632	884	816	107	20	4.0
8	12	51	44	100	153	491	632	872	756	94	18	5.0
9	12	49	45	94	165	484	571	788	732	84	17	5.6
10	12	52	42	92	185	515	554	692	728	76	15	5.6
11	13	55	40	95	195	648	589	648	736	66	14	6.3
12	12	55	47	183	190	732	632	644	736	61	13	6.3
13	14	58	51	335	185	578	680	628	740	60	11	6.3
14	16	63	55	622	180	519	764	624	772	67	10	5.6
15	17	65	60	720	165	450	796	640	880	81	7.0	5.6
16	18	73	62	600	160	411	776	712	1,120	75	4.5	5.6
17	16	75	65	580	155	435	760	768	1,170	63	3.1	5.6
18	16	81	70	640	150	487	744	844	956	62	2.4	5.6
19	20	88	74	590	154	468	736	976	784	62	1.9	6.3
20	24	88	80	450	157	438	696	1,180	640	62	1.7	6.3
21	34	77	95	350	139	477	660	1,380	508	63	1.7	7.0
22	54	71	102	280	145	453	644	1,520	411	65	1.3	7.6
23	52	68	110	230	185	384	624	1,530	360	65	1.3	8.9
24	45	60	130	240	230	360	606	1,460	315	61	1.1	8.9
25	42	65	150	220	336	426	582	1,390	294	52	.90	9.6
26	41	73	165	190	477	550	557	1,400	315	47	.90	9.6
27	38	77	172	170	550	684	550	1,510	291	43	.90	10
28	37	80	175	150	545	768	547	1,490	273	41	.75	10
29	36	81	162	150	-----	704	582	1,290	270	39	.75	10
30	34	81	140	155	-----	624	700	1,110	258	36	1.3	9.6
31	34	-----	143	160	-----	585	-----	996	-----	33	1.7	-----
TOTAL	729.4	1,899	2,781	8,165	5,870	19,024	18,984	30,163	21,101	2,604	300.20	192.9
MEAN	23.5	63.3	89.7	263	210	614	633	973	703	84.0	9.68	6.43
MAX	54	88	175	720	550	1,240	796	1,530	1,170	230	30	10
MIN	7.8	36	40	92	139	360	529	599	258	53	.75	1.7

CAL YR 1972 TOTAL 96,398.20 MEAN 263 MAX 1,640 MIN 4.9
WTR YR 1973 TOTAL 111,813.50 MEAN 306 MAX 1,530 MIN .75

HUMBOLDT RIVER BASIN

10320000 South Fork Humboldt River above Dixie Creek, near Elko, Nev.

LOCATION.--Lat 40°41'05", long 115°48'45", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.32 N., R.55 E., Elko County, on left bank 1.5 mi (2.4 km) upstream from Dixie Creek and 10.5 mi (16.9 km) south of Elko.

DRAINAGE AREA.--1,150 mi² (2,978 km²), approximately.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft (1,567 m), from topographic map.

AVERAGE DISCHARGE.--25 years, 115 ft³/s (3,257 m³/s), 83,320 acre-ft/yr (103 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft³/s (37.7 m³/s) May 20, gage height, 4.90 ft (1.494 m); maximum gage height, 7.59 ft (2.313 m) Jan. 13 (backwater from ice); minimum discharge, 6.1 ft³/s (0.17 m³/s) Sept. 20.

Period of record: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Feb. 11, 1962, gage height, 7.2 ft (2.19 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 9, 1959.

REMARKS.--Records excellent except those for winter months, which are poor. Diversions for irrigation of 36,200 acres (147 km²), Humboldt Decree, above station.

REVISIONS (WATER YEARS).--WSP 1284: 1952 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	29	40	24	18	460	165	516	868	194	26	7.6
2	17	30	42	22	18	320	169	452	904	159	26	7.8
3	16	30	35	18	25	190	166	425	810	141	27	7.8
4	16	30	38	16	40	149	165	433	708	131	29	7.4
5	25	33	31	16	50	133	178	489	649	117	30	7.0
6	25	34	30	16	60	116	209	527	615	107	26	6.6
7	24	32	25	16	70	108	237	519	621	100	23	6.7
8	23	34	20	16	85	98	221	490	647	89	20	7.4
9	24	34	11	16	100	94	210	470	676	86	19	8.2
10	26	34	10	21	125	91	215	465	692	79	17	8.5
11	29	35	10	25	100	111	233	509	670	72	16	8.5
12	27	34	12	37	85	103	281	578	636	68	15	7.5
13	28	33	13	56	78	108	345	691	588	63	14	7.1
14	27	35	15	80	70	96	371	780	691	69	11	7.6
15	26	42	16	130	65	86	365	862	678	67	10	7.7
16	25	45	18	140	55	86	323	904	587	64	10	8.1
17	25	45	20	135	46	94	310	979	474	68	9.7	8.3
18	24	41	26	125	54	96	300	1,030	380	67	10	7.3
19	27	41	37	110	43	89	291	1,130	319	63	11	6.5
20	31	40	44	55	40	96	277	1,270	288	54	10	6.4
21	36	41	48	25	43	101	264	1,230	274	56	9.5	6.8
22	33	39	53	23	47	98	248	1,130	262	57	9.9	7.6
23	30	38	50	20	54	103	243	1,040	270	48	9.8	8.9
24	29	39	48	18	218	122	251	1,000	265	45	9.3	9.9
25	28	40	45	24	526	139	261	1,000	254	41	9.3	10
26	28	42	38	22	587	158	286	1,040	250	39	9.6	10
27	27	45	40	20	510	196	325	947	259	34	9.2	9.7
28	27	41	37	22	540	192	385	803	258	33	9.0	9.3
29	27	41	33	22	-----	179	476	727	240	33	8.8	9.7
30	26	41	29	22	-----	158	548	691	230	31	8.3	9.6
31	27	-----	30	22	-----	151	-----	701	-----	31	7.2	-----
TOTAL	800	1,118	944	1,314	3,752	4,321	8,318	23,828	15,063	2,306	459.6	241.5
MEAN	25.8	37.3	30.5	42.4	134	139	277	769	502	74.4	14.8	8.05
MAX	36	45	53	140	587	460	548	1,270	904	194	30	10
MIN	16	29	10	16	18	86	165	425	230	31	7.2	6.4
AC-FT	1,590	2,220	1,870	2,610	7,440	8,570	16,500	47,260	29,880	4,570	912	479

CAL YR 1972 TOTAL 35,339.5 MEAN 96.6 MAX 745 MIN 4.7 AC-FT 70,100

WTR YR 1973 TOTAL 62,465.1 MEAN 171 MAX 1,270 MIN 6.4 AC-FT 123,900

Peak discharge (base, 400 cfs).--Feb. 26 (0400) 709 cfs (4.26 ft); May 20 (1600) 1,330 cfs (4.90 ft).

NOTE.--No gage-height record Jan. 19 to Feb. 28.

HUMBOLDT RIVER BASIN

95

10320500 South Fork Humboldt River near Elko, Nev.

LOCATION.--Lat 40°43'25", long 115°49'45", in NE $\frac{1}{4}$ sec. 30, T.33 N., R.55 E., Elko County, on right bank 0.1 mi (0.2 km) upstream from head of canyon, 1.7 mi (2.7 km) downstream from highway bridge, 8.8 mi (14.2 km) upstream from mouth, and 10 mi (16 km) southwest of Elko.

DRAINAGE AREA.--1,310 mi² (3,393 km²), approximately.

PERIOD OF RECORD.--August 1896 to December 1909, September 1910 to September 1918, April to November 1919, May 1920 to September 1922, October 1923 to September 1932, October 1936 to Sept. 30, 1973 (discontinued). Monthly discharge only for some periods, published in WSP 1314. Published as "at Mason's Ranch", 1896-1902.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m), from topographic map. Prior to November 1913, nonrecording gages at several sites about 1 mi (2 km) upstream at various datums. November 1913 to February 1927, water-stage recorder near present site at different datum. March 1927 to September 1932, non-recording gage at site 1 mi (2 km) upstream at different datum. October 1932 to Oct. 12, 1955, water-stage recorder at site 900 ft (274 m) upstream at datum 1.97 ft (0.600 m) higher.

AVERAGE DISCHARGE.--69 years, 126 ft³/s (3,568 m³/s), 91,290 acre-ft/yr (113 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,460 ft³/s (41.3 m³/s) May 20, gage height, 5.72 ft (1.744 m); maximum gage height, 6.31 ft (1.923 m) Jan. 12 (backwater from ice); minimum discharge, 3.8 ft³/s (0.11 m³/s) Sept. 21.

Period of record: Maximum discharge, 2,830 ft³/s (80.1 m³/s) Feb. 11, 1962, gage height, 8.00 ft (2.438 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; maximum gage height observed, 12.0 ft (3.66 m) Jan. 26, 1914, site and datum then in use (ice jam); no flow at times in many years.

REMARKS.--Records good except those for winter periods, which are poor. Many diversions for irrigation of 37,200 acres (151 km²), Humboldt Decree, above station. Station is below all diversions except those of Hunter & Banks ranch 3 mi (5 km) downstream.

REVISIONS (WATER YEARS).--WSP 1090: 1932. WSP 1314: 1903. WSP 1514: 1906, 1927-29. WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	26	34	28	20	597	182	544	993	197	17	5.7
2	13	26	32	23	22	574	165	473	1,050	163	16	5.4
3	12	26	30	20	25	206	165	442	897	143	17	5.4
4	11	26	28	18	35	187	172	459	750	153	20	5.1
5	17	28	25	16	45	151	189	512	559	116	20	5.1
6	19	30	23	17	60	133	236	516	615	105	18	4.8
7	19	28	20	17	64	127	264	520	622	95	15	4.8
8	19	29	15	17	81	114	236	492	659	83	14	5.1
9	19	30	11	17	97	110	228	476	706	81	12	5.1
10	19	29	10	20	121	108	259	473	730	78	12	5.1
11	25	30	10	22	107	137	264	516	692	74	11	5.3
12	23	30	11	35	91	123	314	622	645	58	10	5.0
13	24	29	13	45	87	123	396	740	591	52	9.4	5.0
14	23	30	13	50	86	108	406	843	701	57	7.4	5.1
15	21	37	15	70	82	99	389	925	711	57	6.4	5.2
16	18	40	16	100	80	97	348	976	596	53	6.4	5.8
17	20	41	20	150	80	108	348	1,040	457	50	5.7	6.0
18	17	36	30	115	80	110	339	1,120	368	57	6.4	6.0
19	23	36	35	95	78	103	323	1,230	311	52	6.4	6.0
20	28	35	40	60	77	112	502	1,400	284	45	7.1	6.0
21	34	33	45	50	80	117	284	1,350	273	43	6.7	6.5
22	30	28	50	24	85	108	267	1,250	259	47	6.7	7.0
23	27	25	52	22	117	114	264	1,140	267	37	6.4	7.0
24	26	25	50	20	406	131	281	1,100	264	34	6.4	7.0
25	25	30	46	25	637	155	290	1,110	256	30	6.4	7.5
26	25	33	40	23	682	182	323	1,180	245	27	6.0	8.0
27	24	35	42	21	597	218	368	1,060	256	24	6.0	8.0
28	23	35	38	22	616	213	428	865	259	22	6.0	8.0
29	23	35	34	22	-----	195	532	755	242	23	5.7	8.5
30	23	35	31	24	-----	170	596	697	228	20	5.7	8.5
31	24	-----	33	22	-----	163	-----	730	-----	20	5.7	-----
TOTAL	667	936	892	1,170	4,658	4,973	9,138	25,536	15,564	2,076	304.9	183.0
MEAN	21.5	31.2	28.8	37.7	166	160	305	824	519	67.0	9.84	6.10
MAX	34	41	52	150	682	597	596	1,400	1,030	197	20	8.5
MIN	11	25	10	16	20	97	165	459	228	20	5.7	4.8

CAL YR 1972 TOTAL 34,562.9 MEAN 94.4 MAX 782 MIN 1.5
WTR YR 1973 TOTAL 66,077.9 MEAN 181 MAX 1,400 MIN 4.8

PEAK DISCHARGE (BASE, 410 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
2-24	2100	4.92	972	5-20	1400	5.72	1,460
4-30	1500	4.23	610	6-01	2400	5.22	1,120

HUMBOLDT RIVER BASIN

10321000 Humboldt River near Carlin, Nev.

LOCATION.--Lat 40°43'40", long 116°00'30", in SE¼SE¼ sec.21, T.33 N., R.53 E., Elko County, on right bank 1.0 mi (1.6 km) downstream from Tonka Creek, 4.5 mi (7.2 km) southwest of Moleen, 5 mi (8 km) upstream from Susie Creek, 5.5 mi (8.8 km) east of Carlin, and 15 mi (24 km) southwest of Elko.

DRAINAGE AREA.--4,310 mi² (11,160 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft (1,503.246 m) above mean sea level (levels by State Highway Department).

AVERAGE DISCHARGE.--30 years, 342 ft³/s (9.685 m³/s), 247,800 acre-ft/yr (306 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,360 ft³/s (66.8 m³/s) May 26, gage height, 6.08 ft (1.853 m); minimum, 7.3 ft³/s (0.21 m³/s) Sept. 10, 11.

Period of record: Maximum discharge, 6,160 ft³/s (174 m³/s) Feb. 14, 1962, gage height, 10.21 ft (3.112 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 16, 1959.

Flood of Feb. 28, 1910, estimated to have reached 15,000 ft³/s (425 m³/s), based on reported stage and comparison with Humboldt River at Palisade.

REMARKS.--Records good except those for winter periods, which are poor. Many diversions for irrigation of 143,000 acres (579 km²), Humboldt Decree, above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	65	107	170	205	1,160	835	1,140	1,920	430	60	19
2	28	67	105	155	210	1,040	805	1,140	1,960	388	56	22
3	27	65	111	150	212	994	795	1,140	1,820	348	53	19
4	29	69	120	140	201	1,110	790	1,100	1,720	315	55	18
5	29	72	88	130	204	1,230	770	1,080	1,710	289	56	17
6	31	75	80	120	204	1,120	775	1,120	1,710	266	51	16
7	41	76	70	120	208	1,030	825	1,160	1,630	244	45	12
8	39	78	62	115	231	855	855	1,210	1,520	218	42	8.8
9	37	81	60	130	264	730	880	1,250	1,470	199	38	8.4
10	40	81	60	150	286	667	865	1,220	1,440	183	36	8.0
11	40	82	58	200	292	700	850	1,190	1,390	165	34	8.0
12	40	84	65	255	278	730	904	1,180	1,350	144	32	17
13	39	84	75	644	269	830	1,030	1,250	1,290	133	30	17
14	39	85	85	760	261	825	1,110	1,350	1,320	129	28	13
15	38	93	87	578	258	725	1,140	1,410	1,500	129	26	13
16	39	103	90	644	240	658	1,160	1,460	1,400	135	25	13
17	40	105	91	658	235	608	1,140	1,530	1,320	137	23	13
18	41	103	94	710	230	595	1,140	1,640	1,300	137	22	14
19	44	105	100	735	230	622	1,080	1,740	1,370	124	22	14
20	49	107	105	685	231	640	1,050	1,930	1,230	124	20	14
21	59	103	115	582	221	640	1,010	2,060	1,010	124	19	14
22	63	97	130	454	239	635	952	2,080	810	117	18	12
23	63	88	140	378	266	649	898	2,180	680	115	17	13
24	71	80	135	330	345	613	886	2,290	613	111	15	13
25	69	90	180	305	855	590	855	2,320	562	107	15	13
26	69	96	200	290	970	631	860	2,340	522	94	13	14
27	71	99	220	260	1,060	725	870	2,260	526	88	13	14
28	67	100	215	220	1,050	820	898	2,110	518	82	17	15
29	67	105	200	225	-----	892	1,020	2,080	490	78	19	16
30	65	110	175	220	-----	922	1,120	2,030	462	74	19	19
31	63	-----	180	215	-----	875	-----	1,900	-----	65	19	-----
TOTAL	1,466	2,648	3,603	10,728	9,755	24,861	28,168	49,890	36,563	5,292	938	427.2
MEAN	47.3	88.3	116	346	348	802	939	1,609	1,219	171	30.3	14.2
MAX	71	110	220	760	1,060	1,230	1,160	2,340	1,960	430	60	22
MIN	27	65	58	115	201	590	770	1,080	462	65	13	8.0
AC-FT	2,910	5,250	7,150	21,280	19,350	49,310	55,870	98,960	72,520	10,500	1,860	847

CAL YR 1972 TOTAL 128,961.0 MEAN 352 MAX 1,720 MIN 14 AC-FT 255,800
WTR YR 1973 TOTAL 174,339.2 MEAN 478 MAX 2,340 MIN 8.0 AC-FT 345,800

HUMBOLDT RIVER BASIN

97

10322500 Humboldt River at Palisade, Nev.

LOCATION.--Lat 40°36'25", long 116°12'05", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.32 N., R.51 E., Eureka County, on right bank 0.2 mi (0.3 km) downstream from Southern Pacific Railroad bridge, 0.5 mi (0.8 km) downstream from Palisade, and 0.8 mi (1.3 km) upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi² (12,980 km²), approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft (1470.828 m) above mean sea level, datum of 1929. Prior to Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

AVERAGE DISCHARGE.--66 years (1902-6, 1911-73) 367 ft³/s (10.4 m³/s), 265,900 acre-ft/yr (328 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,480 ft³/s (70.2 m³/s) May 26, gage height, 6.02 ft (1.835 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 12.

Period of record: Maximum discharge, 6,610 ft³/s (187 m³/s) Feb. 12, 1962, gage height, 10.0 ft (3.05 m); minimum, 2 ft³/s (0.057 m³/s) Aug. 25-28, 1931.

Maximum stage known, about 17 ft (5.2 m), present datum, about Feb. 28, 1910, from old photographs and written statements of resident witnesses, discharge, about 17,000 ft³/s (481 m³/s), from rating curve extended above 7,000 ft³/s (200 m³/s), by logarithmic plotting.

REMARKS.--Records good. Diversions for irrigation of 148,000 acres (599 km²), Humboldt Decree, of hay and pasture land above station.

REVISIONS (WATER YEARS)--WSP 1514, 1903-4, 1912, 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	85	155	184	275	1,250	916	1,280	1,970	488	83	34
2	37	89	131	167	260	1,200	880	1,270	2,030	451	78	34
3	37	89	155	171	240	1,150	856	1,260	1,880	407	75	34
4	39	91	144	155	230	1,250	862	1,220	1,750	570	78	32
5	42	96	120	142	230	1,400	844	1,210	1,720	539	80	31
6	40	96	100	134	230	1,300	886	1,250	1,750	510	75	28
7	45	98	70	136	240	1,150	946	1,270	1,660	286	68	26
8	53	100	72	132	250	1,000	964	1,320	1,520	265	63	22
9	51	100	70	130	290	860	988	1,350	1,450	235	59	18
10	53	102	68	136	310	800	994	1,350	1,420	215	55	18
11	53	104	66	131	315	830	982	1,290	1,400	199	53	17
12	55	104	80	262	310	860	1,020	1,270	1,350	176	50	17
13	55	104	90	567	295	950	1,140	1,310	1,500	167	47	26
14	53	106	92	735	280	950	1,270	1,390	1,520	162	47	26
15	53	111	94	529	275	820	1,270	1,450	1,530	153	45	23
16	53	123	100	588	270	725	1,280	1,510	1,440	153	40	24
17	55	127	102	740	260	680	1,280	1,570	1,350	155	37	28
18	56	127	105	778	255	665	1,270	1,690	1,330	155	34	28
19	59	127	110	778	250	685	1,210	1,830	1,380	148	32	28
20	68	129	111	670	245	725	1,160	1,990	1,310	146	32	28
21	75	127	123	615	240	720	1,140	2,160	1,100	148	31	28
22	78	121	137	480	260	705	1,090	2,190	922	142	29	28
23	80	102	153	364	500	725	1,040	2,260	778	139	31	28
24	82	92	142	339	450	700	1,010	2,360	695	135	28	28
25	89	104	210	356	1,000	685	988	2,380	640	151	28	29
26	87	115	221	342	1,160	725	988	2,460	592	121	26	29
27	87	127	241	289	1,120	826	994	2,410	578	111	24	31
28	87	123	244	238	1,140	910	1,030	2,230	578	104	23	29
29	87	129	218	244	-----	976	1,150	2,160	552	96	28	31
30	85	133	194	259	-----	1,010	1,260	2,120	516	92	29	31
31	83	-----	199	262	-----	964	-----	1,990	-----	89	31	-----
TOTAL	1,916	3,281	4,075	11,053	10,980	28,196	31,708	52,780	37,811	6,288	1,439	814
MEAN	61.8	109	131	357	392	910	1,057	1,703	1,260	203	46.4	27.1
MAX	89	133	244	778	1,160	1,400	1,280	2,460	2,030	488	83	34
MIN	37	85	66	150	230	665	844	1,210	516	89	23	17

CAL YR 1972 TOTAL 145,091 MEAN 391 MAX 1,750 MIN 23
WTR YR 1973 TOTAL 190,341 MEAN 521 MAX 2,460 MIN 17

HUMBOLDT RIVER BASIN

10323500 Humboldt River near Argenta, Nev.

LOCATION.--Lat 40°40'45", long 116°38'45", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 2, T.32 N., R.47 E., Lander County, on left bank 3 mi (4.8 km) east of Argenta and 15.5 mi (24.9 km) east of Battle Mountain.

DRAINAGE AREA.--7,490 mi² (19,400 km²), approximately.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (1,396 m), from topographic map.

AVERAGE DISCHARGE.--27 years, 323 ft³/s (9.15 m³/s), 234,000 acre-ft/yr (289 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,110 ft³/s (59.8 m³/s) May 27, gage height, 8.52 ft (2.600 m); minimum 5.3 ft³/s (0.15 m³/s) Sept. 30.

Period of record: Maximum discharge, 6,000 ft³/s (170 m³/s) Feb. 15, 1962, gage height, 10.78 ft (3.286 m) on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft (3.377 m) May 2, 1952; minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Sept. 15 to Oct. 17, 1955.

REMARKS.--Records good except those for winter months, which are poor. Many diversions above station for irrigation. Records do not include flow in secondary channels or ditches, much of which is used for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	72	108	140	270	1,120	933	1,210	1,830	517	49	6.5
2	19	70	108	135	250	1,240	908	1,230	1,790	485	46	9.2
3	18	70	112	130	260	1,180	885	1,200	1,810	440	42	11
4	18	61	119	120	265	1,100	873	1,160	1,740	597	41	9.1
5	19	77	117	105	270	1,200	869	1,130	1,630	562	44	8.4
6	20	79	94	110	275	1,310	869	1,120	1,590	531	42	7.8
7	21	79	53	115	280	1,210	893	1,160	1,570	298	40	7.3
8	21	77	50	105	285	1,100	916	1,180	1,490	272	37	7.1
9	24	79	50	115	300	964	933	1,190	1,400	245	34	6.9
10	27	81	45	130	340	870	957	1,190	1,530	222	32	6.9
11	26	83	45	140	355	842	961	1,170	1,290	202	30	6.8
12	28	83	50	170	360	875	941	1,130	1,260	184	29	6.6
13	29	85	56	190	355	852	929	1,100	1,240	172	27	6.4
14	30	81	56	250	340	912	1,050	1,160	1,230	157	26	6.2
15	30	92	56	350	320	891	1,160	1,280	1,270	144	25	6.2
16	29	96	70	400	305	807	1,200	1,280	1,380	135	24	6.3
17	30	102	80	470	295	752	1,200	1,280	1,320	130	22	6.4
18	28	110	85	500	285	715	1,190	1,320	1,250	128	22	6.1
19	34	110	92	500	280	700	1,170	1,350	1,240	123	21	6.0
20	39	110	100	480	270	714	1,140	1,510	1,260	121	21	5.9
21	44	106	110	430	265	745	1,100	1,620	1,160	117	16	5.9
22	51	100	115	400	275	732	1,050	1,760	998	114	15	5.8
23	55	92	122	360	294	713	994	1,840	877	110	13	5.8
24	57	85	120	350	326	717	937	1,900	801	106	11	5.8
25	59	80	150	370	418	689	912	1,960	760	100	11	6.0
26	62	88	160	350	809	693	900	2,050	701	96	11	6.0
27	64	96	175	300	968	748	916	2,080	650	94	13	5.8
28	65	102	180	250	1,020	830	933	2,090	614	72	11	5.7
29	66	104	170	260	-----	885	998	2,010	595	62	10	5.6
30	67	104	155	290	-----	937	1,130	1,930	553	55	9.6	5.5
31	71	-----	150	285	-----	957	-----	1,880	-----	52	9.5	-----
TOTAL	1,169	2,654	3,153	8,280	10,335	28,050	29,847	45,470	36,629	6,043	786.1	201.0
MEAN	37.7	88.5	102	267	369	905	995	1,467	1,221	195	25.4	6.70
MAX	71	110	180	500	1,020	1,310	1,200	2,090	1,830	517	49	11
MIN	18	61	45	105	250	689	869	1,100	553	52	9.5	5.5

CAL YR 1972 TOTAL 127,932.9 MEAN 350 MAX 1,600 MIN 4.9
 WIR YR 1973 TOTAL 172,617.1 MEAN 475 MAX 2,090 MIN 5.5

10324500 Rock Creek near Battle Mountain, Nev.

LOCATION.--Lat 40°49'30", long 116°34'45", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.34 N., R.48 E., Eureka County, on left bank at mouth of canyon, 22 mi (35.4 km) northeast of Battle Mountain.

DRAINAGE AREA.--875 mi² (2,266 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi (17.7 km) upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi (0.6 km) upstream, at different datum Mar. 26, 1918, to Jan. 3, 1946, at datum 9.45 ft (2.880 m) higher Jan. 4, 1946, to July 23, 1964, at datum 7.35 ft (2.240 m) higher July 23, 1964, to Oct. 31, 1968, and at datum 6.34 ft (1.932 m) higher Nov. 1, 1968, to Oct. 28, 1970.

AVERAGE DISCHARGE.--33 years (1918-23, 1945-73), 32.9 ft³/s (0.932 m³/s), 23,840 acre-ft/yr (29.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 372 ft³/s (10.5 m³/s) Feb. 24, gage height, 4.45 ft (1.356 m); maximum gage height, 5.36 ft (1.634 m) about Jan. 17 (backwater from ice); no flow Aug. 17-19.

Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Feb. 11, 1962, gage height, 6.89 ft (2.100 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement of peak flow; no flow at times in July, August, September, and October nearly every year.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation of 4,380 acres (17.7 km²), Humboldt Decree, in valleys upstream. Station is above all diversions in Boulder Flat and below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi (48 km) upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 hm³).

REVISIONS (WATER YEARS).--WSP 1214: 1950 (M); WSP 1714: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR (OCTOBER 1972 TO SEPTEMBER 1973)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	5.1	3.9	8.5	8.5	140	58	152	32	9.2	.47	1.2
2	2.8	6.4	4.4	8.0	8.5	114	72	158	30	7.7	.54	.96
3	2.3	6.1	5.9	6.5	9.0	77	78	145	29	5.9	.62	.78
4	2.5	5.9	7.3	6.0	9.6	63	88	134	28	4.9	.70	.70
5	2.6	7.3	4.1	6.2	10	58	127	136	26	4.1	.87	.62
6	2.6	6.7	3.5	6.2	12	51	154	145	25	3.9	.62	.54
7	3.2	7.0	4.0	6.5	15	44	164	138	23	2.8	.41	.47
8	3.4	6.4	3.7	6.3	17	42	140	129	23	2.0	.35	.47
9	3.0	5.9	3.0	6.5	68	48	115	106	21	1.8	.25	.62
10	3.0	5.6	2.5	7.0	129	56	120	84	19	1.3	.17	.70
11	3.0	5.6	2.5	8.0	61	70	151	72	18	1.1	.21	.78
12	4.9	5.6	2.7	11	33	36	156	96	18	.96	.17	.70
13	5.1	5.4	3.0	20	31	38	140	74	18	1.1	.07	.62
14	4.9	7.0	2.8	35	29	37	122	72	18	1.4	.13	.54
15	4.6	8.9	2.8	70	33	32	91	66	19	1.1	.13	.47
16	4.4	10	3.0	90	32	29	127	67	19	.87	.10	.54
17	4.4	8.6	3.3	95	31	32	154	64	19	.78	.07	.62
18	4.6	8.6	3.8	87	29	41	147	77	20	.96	.04	.70
19	5.1	8.3	4.5	75	30	42	134	49	19	.96	.04	.78
20	6.1	7.3	5.5	60	30	47	120	44	19	.96	.07	.78
21	7.3	4.4	8.0	40	30	55	106	46	18	.87	.21	1.2
22	6.7	4.4	12	20	32	51	101	47	18	.78	.25	1.1
23	5.9	3.2	18	16	93	44	104	46	17	1.4	.17	1.1
24	5.1	2.8	23	13	156	42	125	41	16	2.5	.10	1.2
25	5.4	3.4	27	11	154	45	134	40	17	2.3	.07	1.5
26	5.4	7.0	27	10	104	39	147	38	16	1.5	.21	1.4
27	4.9	5.4	22	9.3	69	32	162	44	15	1.2	1.4	1.3
28	4.4	5.4	17	9.0	101	32	178	39	13	.87	1.7	1.2
29	4.2	5.6	10	9.0	-----	36	194	36	12	.70	.96	.96
30	4.2	3.9	9.0	9.2	-----	40	162	36	12	.62	.70	.96
31	4.6	-----	9.5	9.0	-----	46	-----	31	-----	.54	.62	-----
TOTAL	133.6	183.2	258.7	774.2	1,364.6	1,559	3,871	2,452	597	67.07	12.42	25.51
MEAN	4.31	6.11	8.35	25.0	48.7	50.3	129	79.1	19.9	2.16	.40	.85
MAX	7.3	10	27	95	156	140	194	158	32	9.2	1.7	1.5
MIN	2.3	2.8	2.5	6.0	8.5	29	58	31	12	.54	.04	.47
AC-FT	265	363	513	1,540	2,710	3,090	7,680	4,860	1,180	133	25	51

CAL YR 1972 TOTAL 11,376.87 MEAN 31.1 MAX 320 MIN 0 AC-FT 22,570
WTR YR 1973 TOTAL 11,298.30 MEAN 31.0 MAX 194 MIN .04 AC-FT 22,410

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
a 1-17	unk.	b 5.36	a 130	3-01	0600	3.60	154
2-10	0600	3.78	190	4-06	1700	3.76	188
2-24	2400	4.45	372	4-29	0200	3.82	201
2-28	1800	3.67	168				

a about

b Stage-discharge relation affected by ice.

HUMBOLDT RIVER BASIN

10325000 Humboldt River at Battle Mountain, Nev.

LOCATION.--Lat 40°40'00", long 116°55'50", in NE 1/4 sec. 8, T.32 N., R.45 E., Lander County, 30 ft (9 m) downstream from bridge on State Highway 18A, on left bank 2 mi (3 km) north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 mi² (22,970 km²), approximately.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. Prior to Mar. 1, 1921, nonrecording gage 1.3 mi (2.1 km) upstream and Mar. 1, 1921, to Apr. 19, 1924, nonrecording gage 0.8 mi (1.3 km) upstream, both at different datums. Oct. 1945 to Sept. 20, 1972, water-stage recorder at site 1.0 mi (1.6 km) upstream at datum 4.79 ft (1.460 m) higher.

AVERAGE DISCHARGE.--31 years (1896-97, 1921-23, 1945-73), 336 ft³/s (9,516 m³/s), 243,400 acre-ft/yr (300 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,990 ft³/s (56.4 m³/s) May 30, gage height, 8.49 ft (2.588 m); minimum 9.6 ft³/s (0.27 m³/s) Sept. 23.

Period of record: Maximum daily discharge, 5,800 ft³/s (164 m³/s) May 3, 4, 1952 (includes flow bypassing gage outside of main channel); no flow Sept. 8 to Oct. 22, 1948, Sept. 21-26, 1949, Sept. 21-27, 1959.

REMARKS.--Records good except those for winter periods, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation of 194,000 acres (785 km²) Humboldt Decree.

REVISIONS (WATER YEARS).--WSP 1564: 1897-98, 1923.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	78	127	160	310	881	944	1,210	1,930	488	64	16
2	25	79	132	150	285	944	914	1,280	1,800	465	60	14
3	25	75	135	140	270	1,010	884	1,280	1,770	438	56	14
4	25	71	136	130	275	986	863	1,300	1,730	408	55	16
5	25	85	135	120	280	986	860	1,270	1,690	373	53	14
6	26	88	102	118	290	1,050	848	1,270	1,610	338	53	14
7	26	88	68	122	305	1,100	845	1,260	1,550	306	52	13
8	27	86	70	120	320	1,010	875	1,280	1,520	284	49	12
9	28	86	66	120	368	974	914	1,260	1,430	262	47	12
10	31	86	60	140	430	857	950	1,240	1,340	248	43	12
11	32	88	58	170	460	797	970	1,240	1,270	225	41	13
12	31	91	65	200	460	791	966	1,210	1,220	210	38	13
13	33	92	80	230	440	803	932	1,160	1,190	190	35	12
14	33	95	85	280	415	818	978	1,150	1,200	170	33	11
15	35	102	82	400	398	869	1,070	1,200	1,200	160	32	11
16	36	109	88	480	383	824	1,130	1,250	1,240	150	30	11
17	36	119	95	550	368	767	1,160	1,260	1,270	145	28	11
18	36	117	100	580	360	719	1,170	1,270	1,220	140	27	10
19	39	124	107	570	353	689	1,170	1,310	1,160	137	27	11
20	44	125	113	550	348	689	1,150	1,360	1,160	133	26	11
21	52	125	117	510	333	725	1,120	1,420	1,150	130	25	11
22	52	120	122	470	320	743	1,100	1,470	1,050	126	22	11
23	57	110	138	420	314	737	1,070	1,480	898	122	20	11
24	62	108	143	390	322	740	1,010	1,530	779	118	19	11
25	63	100	150	410	348	746	962	1,610	723	114	18	11
26	65	105	168	370	543	734	935	1,710	667	105	17	11
27	68	108	182	330	734	746	932	1,850	606	102	19	11
28	71	114	197	290	827	803	944	1,910	567	95	19	11
29	75	125	190	300	-----	869	1,030	1,970	546	78	17	11
30	77	127	180	310	-----	917	1,100	1,980	516	70	16	10
31	77	-----	170	320	-----	947	-----	1,950	-----	66	15	-----
TOTAL	1,336	3,026	3,661	9,450	10,859	26,271	29,796	43,940	36,002	6,396	1,056	360
MEAN	43.1	101	118	305	348	847	993	1,417	1,200	206	34.1	12.0
MAX	77	127	197	580	827	1,100	1,170	1,980	1,930	488	64	16
MIN	24	71	58	118	270	689	845	1,150	516	66	15	10
AC-FT	2,650	6,000	7,260	18,740	21,540	52,110	59,100	87,150	71,410	12,690	2,090	714

CAL YR 1972 TOTAL 134,266.8 MEAN 367 MAX 1,560 MIN 8.0 AC-FT 266,300
WTR YR 1973 TOTAL 172,153.0 MEAN 472 MAX 1,980 MIN 10 AC-FT 341,500

HUMBOLDT RIVER BASIN

101

10325500 Reese River near Ione, Nev.

LOCATION.--Lat 38°51'00", long 117°28'00", in NW¹₄ sec.3, T.11 N., R.40 E., Nye County, on right bank 2.5 mi (4.0 km) upstream from Indian Creek, 8 mi (13 km) southeast of Ione, and 58 mi (93 km) southwest of Austin.

DRAINAGE AREA.--53 mi² (137 km²), approximately.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Concrete control since Oct. 3, 1956. Altitude of gage is 7,100 ft (2,164 m), from topographic map. Prior to Sept. 9, 1955, at site 200 ft (61 m) upstream at datum 2.85 ft (0.869 m) higher.

AVERAGE DISCHARGE.--22 years, 11.0 ft³/s (0.312 m³/s), 7,970 acre-ft/yr (9.83 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 214 ft³/s (6.06 m³/s) May 13, gage height, 2.47 ft (0.753 m); minimum, 0.18 ft³/s (0.005 m³/s) Nov. 18.

Period of record: Maximum discharge, 512 ft³/s (14.5 m³/s) July 27, 1956, gage height, 4.86 ft (1.481 m), from rating curve extended above 45 ft³/s (1.27 m³/s) on basis of slope-area measurement of peak flow; no flow at times in some years.

REMARKS.--Records good except those for winter periods, which are poor. No diversion above station.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.4	2.1	2.1	2.7	4.0	8.3	89	92	15	6.4	2.3
2	2.0	2.2	2.4	1.8	2.5	4.1	7.6	102	87	14	6.4	2.3
3	1.9	1.9	2.8	1.6	2.7	3.4	7.8	117	83	14	6.8	2.3
4	4.0	2.4	2.7	1.4	2.9	3.8	8.6	110	76	13	7.6	2.0
5	3.1	2.5	2.5	1.4	2.7	4.6	13	94	70	12	7.8	1.7
6	2.3	1.6	2.6	1.4	2.5	3.8	23	90	65	12	7.5	1.7
7	2.2	2.4	2.3	1.4	2.2	4.0	25	100	61	12	6.4	1.7
8	3.0	2.1	2.0	1.4	2.1	4.0	23	119	57	11	5.8	1.8
9	2.4	1.5	1.0	1.4	2.4	4.1	33	141	57	11	5.3	2.0
10	2.9	2.9	1.0	1.6	2.3	5.0	47	159	54	10	5.0	2.3
11	2.5	2.5	1.2	1.7	2.3	5.7	56	182	51	9.9	4.7	2.1
12	2.3	2.6	1.2	1.7	2.0	4.7	62	194	48	9.9	4.5	1.8
13	2.2	2.2	1.3	1.7	2.2	4.9	50	204	46	10	4.2	1.7
14	2.1	2.1	1.3	1.8	2.0	5.0	35	205	46	9.9	4.2	1.6
15	2.1	1.8	1.3	2.0	2.0	5.0	30	203	42	9.5	4.0	1.6
16	2.0	2.2	1.3	1.9	2.0	5.6	29	201	38	9.5	4.0	1.6
17	1.9	2.6	1.3	2.4	2.2	6.1	35	197	36	9.5	3.7	1.6
18	2.1	1.8	1.4	2.4	2.0	5.7	33	194	32	9.5	3.5	1.6
19	3.0	1.8	1.6	2.3	2.0	5.9	28	194	30	9.5	3.3	1.6
20	3.2	1.6	1.8	2.6	2.2	5.0	26	187	27	9.1	3.0	1.4
21	2.9	1.6	1.9	2.9	2.0	5.3	25	170	25	8.6	2.4	1.6
22	3.0	1.6	1.9	2.6	2.4	5.8	28	152	24	8.2	2.8	1.7
23	2.8	1.8	2.2	3.0	3.0	5.6	51	133	23	7.8	2.4	1.8
24	2.6	2.2	2.0	3.5	3.3	6.4	79	121	21	7.5	2.6	2.0
25	2.2	2.8	1.8	3.2	3.0	7.8	96	116	20	6.8	2.6	2.1
26	2.5	3.3	2.2	2.9	2.9	8.6	119	105	18	6.8	2.8	2.1
27	2.7	3.1	2.9	2.5	3.0	8.9	137	98	20	7.1	2.8	2.0
28	2.4	2.9	2.1	3.4	3.3	8.3	135	94	18	6.8	2.4	2.0
29	1.8	3.0	2.0	3.1	-----	7.8	123	98	17	6.8	2.3	1.8
30	.98	2.4	2.0	3.2	-----	7.5	100	96	16	7.1	2.0	1.8
31	1.3	-----	2.2	3.1	-----	8.3	-----	93	-----	7.1	2.1	-----
TOTAL	73.98	68.2	58.9	69.4	68.8	174.7	1,473.3	4,558	1,300	300.9	131.5	55.6
MEAN	2.39	2.27	1.90	2.24	2.46	5.64	49.1	141	43.3	9.71	4.24	1.85
MAX	4.0	3.3	2.9	3.5	3.3	8.9	137	205	92	15	7.8	2.3
MIN	.98	1.5	1.0	1.4	2.0	3.4	7.6	89	16	6.8	2.0	1.4
AC=FT	147	135	117	138	136	347	2,920	8,640	2,580	597	261	110

CAL YR 1972 TOTAL 1,837.41 MEAN 5.02 MAX 15 MIN .81 AC=FT 5,640
WTR YR 1973 TOTAL 8,133.28 MEAN 22.3 MAX 205 MIN .98 AC=FT 16,130

PEAK DISCHARGE (BASE, 130 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-26	2100	2.19	175	5-13	2200	2.47	214
5-03	1900	1.98	145				

HUMBOLDT RIVER BASIN

10327500 Humboldt River at Comus, Nev.

LOCATION.--Lat 41°00'00", long 117°19'00", in SE¼ sec.14, T.36 N., R.41 E., Humboldt County, on left bank at Comus siding of Southern Pacific Railroad, 1.0 mi (1.6 km) upstream from Kelley Creek, 9 mi (14 km) northeast of Golconda, and 32 mi (51 km) northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi² (31,300 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft (1,328.90 m) above mean sea level (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 mi (16 km) downstream at different datums. Sept. 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at different datum.

AVERAGE DISCHARGE.--59 years, 289 ft³/s (8.184 m³/s), 209,400 acre-ft/yr (258 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft³/s (44.5 m³/s) June 5, gage height, 8.78 ft (2.676 m); minimum, 1.6 ft³/s (0.045 m³/s) Sept. 21, 22, 30.

Period of record: Maximum discharge, 5,860 ft³/s (166 m³/s) May 6, 1952, gage height, 11.52 ft (3.511 m); no flow at times in some years.

REMARKS.--Records good. Many diversions above station for irrigation, Humboldt Decree, 206,000 acres (834 km²); additional acreage not covered by decree.

REVISIONS (WATER YEARS).--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	59	112	130	290	671	851	1,000	1,440	603	83	11
2	8.5	60	112	122	280	707	872	1,020	1,490	560	76	11
3	7.5	60	116	115	265	854	887	1,050	1,520	523	71	10
4	12	61	118	108	255	908	893	1,100	1,550	488	67	9.5
5	11	58	83	102	269	918	887	1,120	1,570	448	65	9.0
6	11	63	58	100	274	928	872	1,140	1,560	408	60	7.5
7	10	68	60	100	309	943	854	1,170	1,520	373	56	7.1
8	11	70	62	100	345	960	833	1,180	1,460	345	52	6.2
9	11	70	55	100	353	980	836	1,170	1,410	319	49	5.4
10	13	70	49	105	355	990	857	1,160	1,370	296	45	5.0
11	15	73	51	115	420	998	881	1,140	1,330	273	42	4.3
12	14	75	55	135	555	965	923	1,130	1,290	253	39	3.7
13	16	78	61	159	548	908	933	1,120	1,260	235	36	3.5
14	18	84	68	187	632	857	943	1,120	1,230	221	32	3.2
15	17	87	66	219	540	824	940	1,090	1,220	209	30	3.0
16	18	91	74	251	450	824	948	1,060	1,200	196	27	2.8
17	19	93	80	357	445	839	973	1,050	1,180	185	26	2.6
18	20	100	85	417	379	827	1,000	1,050	1,150	172	24	2.4
19	23	101	88	461	357	779	1,040	1,070	1,130	166	23	2.2
20	25	103	91	480	339	734	1,060	1,080	1,120	159	23	2.0
21	27	105	95	470	327	710	1,090	1,090	1,110	154	23	1.6
22	28	106	97	450	315	719	1,100	1,090	1,110	150	23	2.0
23	32	108	106	415	296	728	1,110	1,120	1,090	144	22	2.0
24	35	108	112	375	289	731	1,100	1,140	1,080	138	20	2.0
25	38	104	117	345	287	725	1,090	1,180	1,040	132	19	2.4
26	42	106	120	330	302	731	1,070	1,250	953	127	17	2.6
27	45	104	130	300	389	725	1,040	1,290	872	120	16	2.6
28	48	99	140	270	588	713	1,000	1,340	806	113	14	2.2
29	52	101	145	280	-----	728	983	1,350	725	109	13	2.6
30	55	108	140	285	-----	767	988	1,360	671	102	12	1.8
31	58	-----	138	295	-----	812	-----	1,390	-----	91	12	-----
TOTAL	748.5	2,573	2,884	7,678	10,453	25,503	28,854	35,620	36,457	7,812	1,117	133.2
MEAN	24.1	85.8	93.0	248	373	823	962	1,149	1,215	252	36.0	4.44
MAX	58	108	145	480	632	998	1,110	1,390	1,570	603	83	11
MIN	7.5	58	49	100	255	671	833	1,000	671	91	12	1.6
AC=FT	1,480	5,100	5,720	15,230	20,730	50,590	57,230	70,650	72,310	15,500	2,220	264

CAL YR 1972 TOTAL 115,090.88 MEAN 314 MAX 1,200 MIN .70 AC=FT 228,300
 MTR YR 1973 TOTAL 159,832.70 MEAN 438 MAX 1,570 MIN 1.6 AC=FT 317,000

HUMBOLDT RIVER BASIN

103

10328000 Pole Creek near Golconda, Nev.

LOCATION.--Lat 40°54'50", long 117°31'50", in N $\frac{1}{2}$ NE $\frac{1}{4}$ sec.13, T.35 N., R.39 E., Humboldt County, on right bank 2.0 mi (3.2 km) upstream from Devils Canyon, 3 mi (5 km) southwest of Interstate 80, 4 mi (6 km) southwest of Golconda, about 5 mi (8 km) upstream from the Humboldt River and about 18 mi (29 km) east of Winnemucca.

DRAINAGE AREA.--10.7 mi² (27.7 km²).

PERIOD OF RECORD.--October 1960 to September 1973 (discontinued). Monthly discharge only January to September 1963.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (1,500 m) from topographic map. Prior to Oct. 21, 1960, gage was about 0.2 mi (0.3 km) downstream at different datum (below Southern Pacific Railroad pipeline diversion). Oct. 21, 1960, to Aug. 5, 1961, at site 300 ft (91 m) downstream at different datum.

AVERAGE DISCHARGE.--13 years, 4.40 ft³/s (0.125 m³/s), 3,190 acre-ft/yr (3.93 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 36 ft³/s (1.02 m³/s) May 18, gage height, 3.05 ft (0.930 m); no flow Aug. 17-24.
Period of record: Maximum discharge, about 4,000 ft³/s (113 m³/s) about Aug. 5, 1961 (gage height, not determined); no flow at times in most years.

REMARKS.--Records good. No diversions above gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.70	.82	.52	1.3	3.8	4.1	16	9.2	1.9	.23	.13
2	.47	.92	1.0	.50	1.3	3.5	3.6	15	8.3	1.8	.36	.11
3	.41	.82	1.2	.50	1.3	3.2	3.7	16	7.7	1.5	.28	.08
4	2.3	3.5	.76	.49	1.3	3.2	3.8	15	6.8	1.4	.34	.04
5	1.2	2.4	.33	.48	1.3	2.9	4.7	13	6.2	1.3	.29	.03
6	.60	1.4	.32	.48	1.4	2.7	6.7	12	6.2	1.3	.18	.02
7	.53	1.1	.31	.48	1.5	2.6	7.4	11	6.0	1.3	.11	.02
8	.53	1.1	.30	.49	1.3	2.7	7.0	12	6.2	1.1	.10	.06
9	.53	.89	.30	.60	1.3	2.8	7.6	15	6.6	1.0	.08	.08
10	1.2	.90	.30	.76	1.5	4.4	8.9	18	6.5	.90	.06	.05
11	.53	.82	.30	1.3	1.6	4.1	10	20	6.3	.75	.07	.04
12	.47	.74	.30	9.2	1.6	3.7	12	25	6.5	.78	.05	.03
13	.47	.70	.30	7.7	1.6	3.8	13	30	6.2	.96	.04	.02
14	.53	1.1	.31	6.2	1.6	3.5	11	31	6.1	.89	.03	.01
15	.53	1.2	.33	5.9	1.7	3.5	10	31	5.0	.77	.02	.01
16	.53	1.4	.36	7.0	1.8	3.8	9.5	30	4.5	.65	.01	.02
17	.52	1.1	1.0	6.2	1.9	3.9	9.8	32	4.2	.72	0	.02
18	.50	1.0	3.4	5.5	1.9	3.4	9.6	28	3.9	.86	0	.02
19	1.2	1.3	6.1	4.2	2.0	3.6	9.2	21	3.6	.86	0	.03
20	2.1	1.2	4.5	2.7	2.2	4.2	8.5	17	3.4	.75	0	.73
21	1.4	.84	4.3	2.8	2.2	3.9	8.4	16	3.3	.71	0	.50
22	.98	.57	4.3	2.9	2.3	3.6	7.9	14	3.2	.66	0	.34
23	.82	.56	3.1	2.9	2.4	3.4	9.8	13	2.9	.56	0	.40
24	.74	.59	3.1	3.0	2.9	3.6	12	13	2.8	.48	0	.77
25	.64	.66	2.3	2.9	3.0	4.4	13	13	2.7	.40	.04	.99
26	.66	.76	2.1	2.2	3.0	5.4	16	11	2.7	.54	.09	.52
27	.54	.72	1.8	1.8	3.2	5.8	20	9.2	2.6	.32	.10	.41
28	.61	.74	1.6	1.8	3.6	5.4	25	8.5	2.5	.28	.09	.34
29	.69	.78	.55	1.8	-----	4.7	26	8.2	2.3	.23	.04	.30
30	.62	.78	.54	1.6	-----	4.6	21	8.4	2.1	.18	.02	.27
31	.67	-----	.53	1.4	-----	4.3	-----	9.3	-----	.15	.05	-----
TOTAL	24.06	31.29	46.76	86.30	54.0	118.4	319.2	531.6	146.5	25.80	2.68	6.39
MEAN	.78	1.04	1.51	2.78	1.93	3.82	10.6	17.1	4.88	.83	.087	.21
MAX	2.3	3.5	6.1	9.2	3.6	5.8	26	32	9.2	1.9	.36	.99
MIN	.41	.56	.30	.48	1.3	2.6	3.6	8.2	2.1	.15	0	.01
AC=FT	48	62	93	171	107	235	633	1,050	291	51	5.3	13

CAL YR 1972 TOTAL 1,362.55 MEAN 3.72 MAX 19 MIN 0 AC=FT 2,700
WTR YR 1973 TOTAL 1,392.98 MEAN 3.82 MAX 32 MIN 0 AC=FT 2,760

HUMBOLDT RIVER BASIN

10329000 Little Humboldt River near Paradise Valley, Nev.

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¹SE¹ sec.20, T.41 N., R.41 E., Humboldt County, on right bank 3.5 mi (5.6 km) downstream from Bullshead Ranch and 9.5 mi (15.3 km) southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi² (2,670 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m) from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi (1.6 km) downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft (76 m) upstream at datum 2.21 ft (0.674 m) higher.

AVERAGE DISCHARGE.--35 years (1921-23, 1924-27, 1943-73), 25.5 ft³/s (0.722 m³/s), 18,470 acre-ft/yr (22.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 389 ft³/s (11.0 m³/s) Jan. 18, gage height, 5.49 ft (1.673 m); minimum, 0.46 ft³/s (0.013 m³/s) Aug. 25, probably result of temporary blockage upstream.

Period of record: Maximum discharge, 2,380 ft³/s (67.4 m³/s) Jan. 21, 1969, gage height, 8.40 ft (2.560 m); minimum, 0.46 ft³/s (0.013 m³/s) Aug. 25, 1973, probably result of temporary blockage upstream.

REMARKS.--Records good below 200 ft³/s (5.66 m³/s) and poor above. Diversions for irrigation of 4,450 acres (180 km²) Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.7	8.2	8.2	12	159	41	96	29	7.8	6.9	7.2
2	7.2	7.7	8.2	8.2	10	173	37	87	28	8.1	6.9	7.2
3	7.2	7.7	8.2	8.2	9.6	114	35	78	33	8.1	6.9	7.2
4	7.7	8.6	8.6	7.7	11	70	32	72	29	7.8	7.2	4.4
5	7.7	9.1	8.6	7.7	16	51	31	77	25	7.8	6.4	4.9
6	7.2	8.6	8.2	7.7	17	39	38	78	21	7.8	6.9	6.4
7	7.2	8.2	7.7	7.2	27	32	59	75	18	7.8	6.9	6.4
8	7.2	8.2	7.7	7.2	27	29	74	74	16	7.4	6.9	6.7
9	7.2	8.2	7.7	7.2	29	27	71	69	15	7.4	6.9	6.7
10	7.2	8.2	7.8	7.2	36	25	62	64	14	7.4	6.9	6.4
11	7.2	8.2	7.8	7.7	50	29	61	63	13	7.4	6.9	6.7
12	7.2	8.2	7.9	12	45	44	65	65	12	7.8	6.9	6.7
13	7.2	8.2	7.9	70	34	48	76	64	11	7.8	6.9	6.4
14	7.2	8.6	8.0	63	29	37	91	64	11	7.8	6.9	6.4
15	7.2	8.6	8.0	122	33	31	98	64	12	7.4	6.9	6.7
16	7.2	8.6	8.0	192	29	27	88	68	12	7.2	6.9	6.7
17	7.2	8.6	8.2	146	30	26	81	68	13	7.4	6.7	6.7
18	7.2	8.6	8.1	280	29	25	74	68	13	7.4	6.7	6.7
19	7.7	9.1	8.2	175	29	29	77	69	13	7.2	6.9	6.7
20	7.7	8.6	8.3	74	29	27	75	69	13	7.2	6.9	6.7
21	7.7	8.6	8.6	41	31	25	67	66	12	7.2	6.9	6.4
22	7.2	8.2	8.6	23	32	32	62	61	11	7.2	6.9	6.4
23	7.2	8.2	8.6	18	34	37	59	55	10	7.2	6.9	6.7
24	7.2	8.2	10	16	41	33	55	50	10	7.2	6.9	6.7
25	7.2	8.2	10	15	61	29	61	51	9.6	7.2	6.5	6.7
26	7.7	8.2	9.1	15	155	33	71	52	9.2	6.9	6.9	6.7
27	7.7	8.2	9.6	14	194	49	75	52	8.8	7.2	7.2	6.7
28	7.7	8.2	10	12	143	66	79	46	8.5	6.9	7.2	6.7
29	7.7	8.2	10	11	-----	66	86	39	8.1	6.9	6.9	6.7
30	7.7	8.2	9.1	12	-----	53	95	32	7.8	6.9	6.6	6.7
31	7.7	-----	8.6	12	-----	44	-----	28	-----	6.9	7.2	-----
TOTAL	228.7	249.9	263.5	1,407.2	1,222.0	1,509	1,976	1,964	446.0	229.7	214.0	196.3
MEAN	7.38	8.33	8.50	45.4	43.7	48.7	65.9	63.4	14.9	7.41	6.90	6.54
MAX	7.7	9.1	10	280	194	173	98	96	33	8.1	7.2	7.2
MIN	7.2	7.7	7.7	7.2	9.6	25	31	28	7.8	6.9	6.5	4.4
CAL YR 1972	TOTAL	13,077.8	MEAN	35.7	MAX	381	MIN	6.5				
WTR YR 1973	TOTAL	9,906.9	MEAN	27.1	MAX	280	MIN	4.4				

HUMBOLDT RIVER BASIN

105

10329500 Martin Creek near Paradise Valley, Nev.

LOCATION.--Lat 41°32'00", long 117°25'40", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.42 N., R.40 E., Humboldt County, on left bank 0.6 mi (1.0 km) upstream from Humboldt County Recreation Park and 7 mi (11 km) northeast of Paradise Valley.

DRAINAGE AREA.--172 mi² (445 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft (122 m) of present site at different datums.

AVERAGE DISCHARGE.--52 years, 31.5 ft³/s (0.892 m³/s), 22,820 acre-ft/yr (28.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft³/s (39.1 m³/s) Jan. 16, gage height, 4.73 ft (1.442 m); minimum, 4.1 ft³/s 0.13 m³/s) Dec. 29.

Period of record: Maximum discharge, 9,000 ft³/s (255 m³/s) Jan. 21, 1943, gage height, 11.1 ft (3.38 m) site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft³/s (0.051 m³/s) Feb. 6, 1945.

REMARKS.--Records good except those for winter months or no gage-height record, which are poor. Diversion for irrigation of 40 acres (162,000 m²), Little Humboldt Decree, above station.

REVISIONS (WATER YEARS).--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.5	9.1	5.5	7.0	8.1	30	110	100	11	5.5	5.6
2	7.1	8.0	10	6.0	8.6	38	25	105	73	11	5.8	5.5
3	6.8	8.0	11	5.5	11	24	25	109	63	10	6.5	5.4
4	8.7	8.8	8.5	5.3	12	22	30	105	57	9.2	6.5	5.1
5	8.2	10	5.8	5.0	13	18	56	100	51	9.0	6.5	5.0
6	7.6	9.5	5.2	4.7	15	16	76	89	48	8.5	5.9	4.8
7	7.2	8.8	4.8	4.5	12	15	65	91	46	8.0	5.5	4.9
8	7.1	8.8	4.4	4.5	16	21	69	94	44	7.8	5.5	5.2
9	7.2	8.4	4.2	5.0	17	26	51	106	42	7.4	5.3	5.4
10	7.8	8.5	4.2	6.0	20	47	60	109	40	7.2	5.2	5.6
11	7.5	8.5	4.2	8.5	15	48	71	114	37	7.0	5.2	5.5
12	7.3	8.5	4.3	24	14	22	77	119	34	6.9	5.2	5.4
13	7.3	8.8	4.5	212	13	24	93	132	32	7.3	5.1	5.1
14	7.3	8.6	4.5	58	14	18	81	140	33	8.5	5.0	5.0
15	7.6	8.5	4.5	31	18	18	74	146	33	8.5	5.0	5.1
16	7.6	8.5	5.0	300	20	22	68	142	28	7.5	5.0	5.2
17	7.8	8.4	7.0	111	36	31	81	140	26	7.5	4.9	5.2
18	7.9	8.2	9.2	35	26	20	76	147	26	7.0	4.9	5.2
19	8.6	9.5	14	21	17	22	69	156	23	7.4	5.0	5.4
20	9.4	10	19	11	19	31	65	150	20	8.9	5.2	6.6
21	8.5	8.3	20	9.0	17	34	61	131	19	9.3	5.2	5.9
22	8.0	7.0	38	8.9	17	29	62	114	17	8.5	5.2	5.8
23	8.0	7.3	22	8.5	45	22	78	105	17	7.5	5.1	5.9
24	8.2	11	18	8.0	120	27	93	104	18	6.9	5.2	6.7
25	8.2	11	14	8.0	77	45	95	111	16	6.4	5.5	7.6
26	8.2	11	11	7.7	50	60	104	94	15	6.1	5.8	6.8
27	8.0	11	13	7.5	87	59	118	81	14	6.0	5.7	6.3
28	7.8	11	11	7.8	116	37	151	72	12	6.0	5.7	6.2
29	7.6	10	6.0	9.0	-----	29	148	68	12	6.0	5.1	6.1
30	7.5	9.3	5.5	8.0	-----	31	128	66	12	5.6	4.9	6.1
31	7.2	-----	5.5	7.3	-----	28	-----	78	-----	5.5	5.2	-----
TOTAL	240.4	270.7	307.4	953.0	852.6	965	2,260	3,428	1,008	239.4	167.3	169.6
MEAN	7.75	9.02	9.92	30.7	30.5	31.1	75.3	111	33.6	7.72	5.40	5.65
MAX	9.4	11	38	300	120	81	151	156	100	11	6.5	7.6
MIN	6.8	7.0	4.2	4.5	7.0	15	25	66	12	5.5	4.9	4.8
AC-FT	477	537	610	1,890	1,690	1,910	4,480	6,800	2,000	475	332	336

CAL YR 1972 TOTAL 14,627.6 MEAN 40.0 MAX 451 MIN 4.2 AC-FT 29,010
 WTR YR 1973 TOTAL 10,861.4 MEAN 29.8 MAX 300 MIN 4.2 AC-FT 21,540

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE	NOTE
1-13	1700	3.61	790	2-24	1830	2.45	310	NOTE.--No gage-height record Oct. 20 to Nov. 20.
1-16	1830	4.73	1,380	2-28	2100	2.22	243	

HUMBOLDT RIVER BASIN

10332500 Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal near Imlay, Nev.

LOCATION.--Lat 40°40'05", long 118°11'55", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.32 N., R.33 E., Pershing County, on left bank 3 mi (5 km) northwest of Imlay and 9 mi (14 km) downstream from headgates.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,170 ft (1,271 m), from topographic map.

AVERAGE DISCHARGE.--27 years, 16.8 ft³/s (0.476 m³/s), 12,170 acre-ft/yr (15.0 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 260 ft³/s (7.36 m³/s) July 7, 1970; no flow most of the time.

REMARKS.--Records good except those for winter periods, which are poor. This canal diverts water during some years from Humboldt River in NW $\frac{1}{4}$ sec. 29, T.33 N., R.35 E., for storage in Pitt-Taylor Reservoirs near Humboldt, and is completely controlled at the headgate. During irrigation season, water is released to Rye Patch Reservoir, from which it is later released and carried in natural river channel to Lovelock district for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	26	77	66	100	153	162	105	115	51	65	36
2	0	27	77	64	105	162	162	102	115	49	65	34
3	0	31	78	63	114	170	162	101	116	88	64	34
4	0	34	79	62	120	172	162	100	116	87	63	32
5	0	39	66	61	130	172	163	100	117	84	62	32
6	0	39	60	60	134	172	164	99	118	84	63	30
7	0	41	50	62	138	172	164	99	120	82	62	30
8	0	42	45	66	140	172	164	97	121	80	60	30
9	0	43	41	80	140	172	165	98	120	79	60	29
10	0	44	42	100	138	172	164	98	119	78	59	29
11	0	51	43	115	133	172	172	97	120	77	59	28
12	0	67	46	120	134	169	176	96	119	75	59	28
13	0	62	48	131	136	162	177	97	119	74	57	26
14	1.8	60	50	136	137	161	178	96	118	74	57	26
15	10	60	53	138	140	171	180	94	113	74	56	25
16	10	61	58	144	143	171	182	93	112	72	54	26
17	6.2	62	64	151	147	171	181	93	110	72	52	25
18	9.1	62	70	158	149	170	180	92	108	72	51	25
19	9.7	63	80	162	149	169	180	93	106	71	50	25
20	14	65	82	164	149	169	180	89	105	70	48	26
21	14	66	85	160	147	168	171	88	103	70	46	26
22	14	70	90	152	147	167	172	87	101	70	45	26
23	14	70	91	140	147	165	166	87	101	69	44	26
24	14	73	90	120	147	161	105	88	99	67	42	27
25	14	73	90	95	147	160	102	92	98	65	42	27
26	14	74	87	90	146	162	103	96	96	66	40	27
27	15	75	82	90	147	162	106	94	96	66	39	27
28	16	77	74	50	150	162	105	94	96	66	38	26
29	18	77	72	94	-----	161	107	100	95	66	37	27
30	18	77	70	98	-----	162	105	108	94	65	36	27
31	20	-----	68	100	-----	162	-----	112	-----	64	36	-----
TOTAL	231.8	1,711	2,108	3,332	3,854	5,166	4,660	2,985	3,286	2,307	1,611	843
MEAN	7.48	57.0	68.0	107	138	167	155	96.3	110	74.4	52.0	28.1
MAX	20	77	91	164	150	172	182	112	121	91	65	36
MIN	0	26	41	60	100	153	102	87	94	64	36	25
AC-FT	460	3,390	4,180	6,610	7,640	10,250	9,240	5,920	6,520	4,580	3,200	1,670
CAL YR 1972	TOTAL 16,772.10			MEAN 45.8	MAX 167	MIN 0	AC-FT 33,270					
WTR YR 1973	TOTAL 32,094.80			MEAN 87.9	MAX 182	MIN 0	AC-FT 63,660					

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LOCATION.--Lat 40°41'30", long 118°12'10", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.33 N., R.33 E., Pershing County, on right bank 1 mi (2 km) upstream from Callahan bridge and 4 mi (6 km) northwest of Imlay.

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

AVERAGE DISCHARGE.--34 years, 197 ft³/s (5.579 m³/s), 142,700 acre-ft/yr (176 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,060 ft³/s (30.0 m³/s) June 16, 17, gage height, 7.52 ft (2.292 m); minimum, 2.4 ft³/s (0.068 m³/s) Aug. 31, Sept. 1, 5-7.

Period of record: Maximum discharge, 6,080 ft³/s (172 m³/s) May 9, 1952, gage height, 12.15 ft (3.703 m); no flow at times in many years.

REMARKS.--Records good except those for winter months and those below 10 ft³/s (0.283 m³/s), 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 (see preceding page). Flow affected by many diversions above station for irrigation; Humboldt Decree, 226,000 acres (915 km²); additional acreage not covered in decree.

REVISIONS.--WSP 1714: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	34	32	44	120	183	465	782	881	814	196	3.1
2	30	32	30	41	115	199	460	773	912	754	186	3.8
3	28	32	29	40	110	240	500	782	917	698	170	3.8
4	30	32	27	38	110	308	520	799	917	658	164	3.8
5	35	32	26	36	120	388	540	811	924	617	155	3.8
6	34	31	21	34	135	448	560	826	950	580	150	3.8
7	34	32	22	33	145	508	580	828	983	546	137	3.1
8	34	32	20	33	150	528	600	816	1,010	514	119	3.8
9	34	32	18	34	160	528	625	828	1,010	483	110	3.8
10	36	32	16	36	162	528	628	838	1,000	449	92	3.8
11	36	32	17	42	165	548	628	811	1,010	422	71	4.5
12	36	34	21	50	178	570	623	790	1,020	398	57	4.5
13	36	36	22	60	183	580	641	609	1,030	380	44	5.2
14	29	36	24	70	187	570	652	818	1,040	362	27	5.2
15	23	34	26	82	205	540	661	794	1,040	348	30	5.9
16	22	32	28	100	226	510	667	811	1,050	332	30	5.9
17	26	32	30	125	240	496	676	818	1,050	322	24	6.6
18	26	32	32	145	255	486	669	833	1,040	308	21	7.3
19	24	32	34	153	260	479	667	828	1,030	299	17	8.0
20	25	32	35	163	264	485	652	823	1,030	289	13	8.9
21	25	32	37	139	256	492	661	814	1,010	278	11	8.9
22	27	32	41	155	233	492	665	802	986	267	8.0	8.9
23	29	34	43	150	220	477	674	794	955	260	8.0	9.8
24	29	34	47	140	211	429	725	792	929	252	3.1	8.9
25	30	34	49	145	205	430	744	790	912	246	3.8	8.9
26	31	34	51	135	192	452	751	821	902	240	3.1	8.9
27	32	34	50	130	183	461	763	845	893	237	3.8	8.9
28	32	34	47	120	183	467	770	845	883	235	3.8	8.0
29	34	34	46	125	-----	470	782	852	869	226	3.8	7.3
30	34	34	45	130	-----	470	787	842	850	213	3.8	6.6
31	34	-----	45	120	-----	470	-----	845	-----	204	2.4	-----
TOTAL	946	989	1,011	2,848	5,173	14,232	19,336	25,260	29,033	12,231	1,867.6	183.7
MEAN	30.5	33.0	32.6	91.9	185	459	645	815	968	395	60.2	6.12
MAX	36	36	51	163	264	580	787	852	1,050	814	196	9.8
MIN	22	31	16	33	110	183	460	773	850	204	2.4	3.1
AC-FT	1,880	1,960	2,010	5,650	10,260	28,230	38,350	50,100	57,590	24,260	3,700	364
CAL YR 1972	TOTAL 89,546.0			MEAN 245	MAX 1,090	MIN 16	AC-FT 177,600					
WTR YR												

HUMBOLDT RIVER BASIN

10334500 Rye Patch Reservoir near Rye Patch, Nev.

LOCATION.--Lat 40°28'15", long 118°18'30", in NW¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi (3 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (4,170 km²), approximately.

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

GAGE.--Staff gage on dam read daily. Datum of gage is at mean sea level (Southern Pacific Railroad datum).

EXTREMES.--Current year: Maximum contents, 170,800 acre-ft (211 hm³) Apr. 20, 21, elevation, 4,134.00 ft (1,260.043 m); minimum, 115,800 acre-ft (143 hm³) Nov. 26, 27, elevation, 4,129.20 ft (1,258.580 m).

Period of record: Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, elevation, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 157,200 acre-ft (194 hm³) between elevations 4,072.5 (1,241.30 m), sill of trashrack structure, and 4,133.0 ft (1,259.74 m), top of spillway gates. Dead storage negligible. Elevation of spillway (gate sill) is 4,116 ft (1,254.6 m). Figures given herein represent usable contents, and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

REVISIONS.--WSP 1714: Drainage area.

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

4,129	113,900	4,132	144,200
4,130	123,200	4,133	157,200
4,131	133,200	4,134	170,800

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126,200	116,700	116,700	116,700	122,300	133,200	162,600	169,400	164,000	166,700	155,900	129,200
2	126,200	116,700	116,700	116,700	122,300	133,200	164,000	169,400	164,000	166,700	155,900	129,200
3	126,200	116,700	116,700	116,700	123,200	133,200	165,300	169,400	162,600	165,300	154,600	129,200
4	126,200	116,700	116,700	116,700	123,200	133,200	165,300	169,400	162,600	165,300	154,600	128,200
5	126,200	116,700	116,700	116,700	124,200	134,300	165,300	169,400	162,600	165,300	153,300	128,200
6	126,200	117,600	116,700	116,700	124,200	134,300	166,700	168,000	162,600	164,000	153,300	127,200
7	125,200	117,600	116,700	116,700	124,200	135,400	166,700	168,000	162,600	162,600	152,000	126,200
8	125,200	117,600	116,700	116,700	125,200	135,400	166,700	168,000	162,600	162,600	152,000	126,200
9	124,200	117,600	116,700	116,700	125,200	136,500	166,700	168,000	162,600	162,600	150,700	125,200
10	124,200	116,700	116,700	117,600	125,200	137,600	168,000	168,000	162,600	162,600	150,700	125,200
11	124,200	116,700	116,700	117,600	126,200	138,700	168,000	168,000	162,600	161,300	149,400	125,200
12	123,200	116,700	116,700	117,600	126,200	139,800	168,000	168,000	164,000	161,300	149,400	124,200
13	123,200	116,700	116,700	117,600	126,200	140,900	169,400	169,400	164,000	161,300	148,100	124,200
14	123,200	116,700	116,700	117,600	127,200	142,000	169,400	169,400	165,300	159,900	146,800	124,200
15	122,300	116,700	116,700	117,600	127,200	143,100	169,400	169,400	165,300	159,900	145,500	124,200
16	121,300	116,700	116,700	117,600	128,200	144,200	169,400	169,400	165,300	159,900	144,200	124,200
17	121,300	116,700	116,700	117,600	128,200	145,500	169,400	169,400	166,700	159,900	143,100	123,200
18	121,300	116,700	116,700	118,600	129,200	148,100	169,400	169,400	166,700	159,900	142,000	122,300
19	120,400	116,700	116,700	118,600	129,200	149,400	169,400	169,400	166,700	159,900	140,900	121,300
20	120,400	116,700	116,700	118,600	130,200	150,700	170,800	165,300	166,700	158,600	139,800	120,400
21	120,400	116,700	116,700	118,600	130,200	152,000	170,800	165,300	166,700	158,600	138,700	120,400
22	119,500	116,700	116,700	118,600	131,200	153,300	169,400	165,300	166,700	158,600	137,600	120,400
23	119,500	116,700	116,700	119,500	131,200	154,600	169,400	165,300	166,700	158,600	136,500	119,500
24	119,500	116,700	116,700	119,500	131,200	155,900	169,400	165,300	168,000	158,600	135,400	118,600
25	119,500	116,700	116,700	119,500	132,200	157,200	169,400	165,300	168,000	158,600	134,300	118,600
26	118,600	115,800	116,700	120,400	132,200	158,600	169,400	165,300	168,000	158,600	133,200	118,600
27	118,600	115,800	116,700	120,400	132,200	159,900	169,400	165,300	168,000	158,600	132,200	118,600
28	117,600	116,700	116,700	120,400	133,200	161,300	169,400	165,300	166,700	158,600	131,200	118,600
29	117,600	116,700	116,700	120,400	-----	161,300	169,400	164,000	166,700	157,200	131,200	117,600
30	117,600	116,700	116,700	121,300	-----	162,600	169,400	164,000	166,700	157,200	130,200	117,600
31	117,600	-----	116,700	121,300	-----	162,600	-----	164,000	-----	157,200	130,200	-----
MAX	126,200	117,600	116,700	121,300	133,200	162,600	170,800	169,400	168,000	166,700	155,900	129,200
MIN	117,600	115,800	116,700	116,700	122,300	133,200	162,600	164,000	162,600	157,200	130,200	117,600
(+)	4,129.40	4,129.30	4,129.30	4,129.80	4,131.00	4,133.40	4,133.90	4,133.50	4,133.70	4,133.00	4,130.70	4,129.40
(+)	-8,600	-900	0	+4,600	+11,900	+29,400	+6,800	-5,400	+2,700	-9,500	-27,000	-12,600
CAL YR 1972	MAX	169,400	MIN	115,800	+22,000							
WTR YR 1973	MAX	170,800	MIN	115,800	+8,600							

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

HUMBOLDT RIVER BASIN

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10335000 Humboldt River near Rye Patch, Nev.

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, on left bank 1,000 ft (305 m) downstream from Rye Patch Dam and 1.5 mi (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (41,700 km²).

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana".

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft (1,240.088 m) above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi (11 km) downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--59 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-73), 201 ft³/s (5.692 m³/s), 145,600 acre-ft/yr (180 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 998 ft³/s (28.3 m³/s) May 31, gage height, 4.52 ft (1.378 m); minimum daily, 15 ft³/s (0.42 m³/s) Mar. 12, 15-17.

Period of record: Maximum discharge, 4,720 ft³/s (134 m³/s) May 11, 12, 1952, gage height, 10.26 ft (3.127 m); no flow at times in some years.

REMARKS.--Records good. Flow completely regulated by Rye Patch Reservoir since Feb. 20, 1936. Many diversions above station for irrigation: Humboldt Decree, 226,000 acres (915 km²); additional acreage not covered by decree. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	36	21	20	20	16	18	729	886	893	297	220
2	72	36	21	20	20	16	141	715	876	892	291	188
3	82	35	21	20	19	17	231	856	873	800	291	181
4	125	34	20	20	19	16	275	856	869	733	268	199
5	151	33	20	20	19	16	310	859	873	733	217	200
6	139	38	20	20	19	16	313	859	808	733	190	201
7	113	57	20	20	18	17	365	859	739	638	241	182
8	125	58	19	20	18	16	405	856	739	571	337	145
9	171	81	19	20	19	17	404	856	739	556	351	131
10	219	100	18	20	19	17	404	859	739	494	342	106
11	219	100	19	21	19	16	404	859	742	464	339	85
12	219	100	18	21	19	15	401	859	742	457	319	68
13	203	100	18	21	19	16	405	863	742	452	324	89
14	175	71	18	20	19	16	410	866	746	407	343	106
15	175	58	19	21	19	15	468	869	748	353	342	126
16	175	28	19	21	19	15	521	873	745	265	369	141
17	202	24	18	20	19	15	529	876	745	189	386	168
18	230	24	18	21	19	16	561	889	809	131	402	187
19	249	24	18	20	19	16	597	896	901	120	593	215
20	198	23	19	21	18	16	666	896	898	104	378	236
21	167	23	19	20	17	16	745	906	899	66	377	213
22	136	23	19	20	16	16	742	913	900	65	418	197
23	130	23	19	20	16	16	739	909	902	66	445	197
24	135	22	19	20	17	16	735	906	903	65	444	197
25	114	22	20	20	16	17	735	899	900	64	443	178
26	94	22	20	19	16	17	735	892	900	85	407	161
27	75	22	20	19	16	16	735	886	898	148	355	161
28	60	22	19	19	16	16	732	879	897	176	323	160
29	60	20	20	20	-----	16	732	876	893	215	313	160
30	54	20	20	20	-----	16	732	876	893	274	281	178
31	36	-----	19	20	-----	17	-----	896	-----	297	256	-----
TOTAL	4,355	1,259	597	624	509	499	15,190	26,948	24,944	11,506	10,482	4,976
MEAN	140	42.0	19.3	20.1	16.2	16.1	506	869	831	371	338	166
MAX	249	100	21	21	20	17	745	913	903	893	445	236
MIN	36	20	18	19	16	15	18	729	739	64	190	68
AC-FT	8,640	2,500	1,180	1,240	1,010	990	30,130	55,450	49,480	22,820	20,790	9,870

CAL YR 1972 TOTAL 103,115 MEAN 282 MAX 1,050 MIN 18 AC-FT 204,500
 WTR YR 1973 TOTAL 101,889 MEAN 279 MAX 913 MIN 15 AC-FT 202,100

PYRAMID AND WINNEMUCCA LAKES BASIN

10336500 Pyramid Lake near Nixon, Nev.

LOCATION.--Lat 39°59'05", long 119°30'00", in NE¼NW¼ sec.3, T.24 N., R.22 E., Washoe County, 0.25 mi (0.40 km) north of the Pyramid, 1.6 mi (2.6 km) northeast of Anaho Island, and 13 mi (21 km) northwest of Nixon.

DRAINAGE AREA.--2,720 mi² (7,040 km²).

PERIOD OF RECORD.--1867-1925 (occasional elevations in some years), June 1926 to current year (occasional elevations in each year).

GAGE.--Nonrecording gage. Datum of gage is at mean sea level, U.S. Coast & Geodetic Survey Bench Mark N-21, elevation, 3,940.29 ft (1,201.000 m) datum of 1929, supplementary adjustment of 1956. Prior to January 1934, elevations were determined from Bench Mark No. 1 of General Land Office using elevation of 3,882.26 ft (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevation of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

EXTREMES.--Period of record: Maximum elevation observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Elevations published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

REVISIONS (WATER YEARS).--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WRD 1967 Nev.: 1966.

Elevation, in feet, water year October 1972 to September 1973

Oct. 2	3,793.6	Apr. 11	3,794.0
Nov. 2	3,793.2	May 3	3,794.3
Dec. 7	3,793.0	June 6	3,794.6
Jan. 4	3,793.2	July 3	3,794.5
Feb. 1	3,793.2	Aug. 3	3,794.2
Mar. 5	3,793.6	Sept. 6	3,793.7
Apr. 4	3,793.9		

Area table (elevation, in feet, and area, in thousands of acres)

3,880	144.3	3,845	131.7	3,810	114.7
3,875	143.4	3,840	129.1	3,805	113.0
3,870	142.4	3,835	126.4	3,800	111.3
3,865	140.9	3,830	123.8	3,795	109.7
3,860	139.0	3,825	121.2	3,790	108.2
3,855	136.8	3,820	118.6	3,785	107.0
3,850	134.3	3,815	116.6	3,780	105.9

Volume table (elevation, in feet, and volume, in thousands of acre-feet)

3,880	32,020	3,845	27,140	3,810	22,850
3,875	31,300	3,840	26,490	3,805	22,280
3,870	30,580	3,835	25,850	3,800	21,720
3,865	29,880	3,830	25,230	3,795	21,170
3,860	29,180	3,825	24,620	3,790	20,620
3,855	28,490	3,820	24,020	3,785	20,080
3,850	27,810	3,815	23,430	3,780	19,550

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.

LOCATION.--Lat 38°48'07", long 120°00'54", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.11 N., R.18 E., El Dorado County, on left bank 60 ft upstream from Grass Lake Way, 300 ft upstream from confluence with Upper Truckee River, and 3.8 miles south of Meyers.

DRAINAGE AREA.--6.99 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,470 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 94 cfs May 17 (gage height, 2.62 ft); minimum daily, 1.4 cfs Aug. 17-25, Sept. 5-16, 30.

Period of record: Maximum discharge, 102 cfs June 4, 1972 (gage height, 2.72 ft); minimum daily, 1.4 cfs Aug. 17-25, Sept. 5-16, 30, 1973.

REMARKS.--Records good except those for the month of May, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.6	2.4	5.3	3.5	3.1	3.3	35	64	13	3.5	1.6
2	4.4	2.6	2.4	5.3	3.5	3.1	3.5	41	56	12	3.3	1.6
3	3.9	2.6	2.4	4.8	3.5	3.0	3.3	46	51	11	3.3	1.6
4	3.1	4.4	2.0	4.3	3.5	3.1	3.7	42	49	11	3.3	1.6
5	3.0	3.7	2.0	3.9	3.5	3.0	4.8	34	48	9.7	3.1	1.4
6	2.6	3.3	2.0	4.1	3.5	3.0	6.8	31	47	8.8	3.0	1.4
7	2.8	3.0	2.0	3.9	3.5	3.0	7.2	35	46	8.4	2.8	1.4
8	3.1	2.8	2.0	4.1	3.5	3.0	7.6	40	45	7.6	2.6	1.4
9	2.8	2.6	2.0	3.9	3.3	3.1	8.4	42	44	6.8	2.5	1.4
10	2.8	2.6	2.0	3.9	3.1	3.3	8.8	48	41	6.8	2.4	1.4
11	2.8	2.6	2.0	6.2	3.3	3.3	10	54	38	6.5	2.0	1.4
12	2.8	2.6	2.0	14	3.1	3.3	11	60	36	6.2	2.2	1.4
13	2.8	2.6	2.0	9.7	3.1	3.3	11	61	35	6.2	2.2	1.4
14	2.6	2.6	2.0	7.2	3.1	3.1	9.7	62	32	7.2	1.8	1.4
15	2.8	2.5	2.0	6.5	3.1	3.1	9.7	66	30	7.6	1.6	1.4
16	3.0	2.5	2.0	5.9	3.1	3.3	9.7	70	29	6.5	1.6	1.4
17	3.1	2.5	13	5.3	3.1	3.3	9.7	73	26	6.5	1.4	1.6
18	3.9	2.5	6.5	5.0	3.1	3.1	10	71	24	6.2	1.4	1.6
19	4.1	2.5	14	4.4	3.1	3.3	12	72	23	5.9	1.4	1.6
20	5.0	2.8	10	4.3	3.1	3.3	15	66	22	5.6	1.4	1.6
21	4.8	3.0	9.7	4.3	3.1	3.3	18	62	21	5.3	1.4	1.6
22	4.8	2.6	9.7	4.3	3.1	3.3	20	65	21	5.0	1.4	1.6
23	4.4	2.8	8.4	3.9	3.1	3.3	25	63	20	4.4	1.4	1.8
24	4.1	2.6	7.6	3.7	3.1	3.3	24	60	20	4.1	1.4	1.8
25	3.7	2.4	7.2	3.7	3.1	3.7	28	58	19	3.7	1.4	1.8
26	3.5	2.5	7.2	3.7	3.1	3.7	32	52	19	3.5	2.4	1.8
27	3.3	2.5	7.2	3.7	3.3	3.7	36	51	18	3.5	3.7	1.6
28	3.3	2.5	6.5	3.7	3.1	3.5	42	53	17	3.5	2.2	1.6
29	2.8	2.5	5.9	3.7	-----	3.3	39	55	16	3.5	2.0	1.6
30	2.6	2.4	5.9	3.5	-----	3.3	33	57	15	3.3	1.8	1.4
31	2.6	-----	5.3	3.5	-----	3.3	-----	59	-----	3.3	1.6	-----
TOTAL	104.1	81.7	157.3	153.7	90.6	100.8	462.2	1,684	972	202.6	67.5	46.2
MEAN	3.36	2.72	5.07	4.96	3.24	3.25	15.4	54.3	32.4	6.54	2.18	1.54
MAX	5.0	4.4	14	14	3.5	3.7	42	73	64	13	3.7	1.8
MIN	2.6	2.4	2.0	3.5	3.1	3.0	3.3	31	15	3.3	1.4	1.4
AC-FT	206	162	312	305	180	200	917	3,340	1,930	402	134	92

CAL YR 1972 TOTAL 3,424.5 MEAN 9.36 MAX 44 MIN 1.5 AC-FT 6,790
WTR YR 1973 TOTAL 4,122.7 MEAN 11.3 MAX 73 MIN 1.4 AC-FT 8,180

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-28	1800	2.04	48	5-17	1930	2.62	94
5-3	2000	2.14	55				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336600 UPPER TRUCKEE RIVER NEAR MEYERS, CALIF.

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

DRAINAGE AREA.--33.1 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 6,325 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 66.2 cfs (47,960 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 620 cfs May 18 (gage height, 8.32 ft); minimum daily, 4.8 cfs Aug. 23.

Period of record: Maximum discharge, 2,550 cfs Feb. 1, 1963 (gage height, 12.41 ft); minimum, 2.0 cfs Jan. 13, 1961.

REMARKS.--Records good except those for the winter months, which are fair. No regulation. Some small diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	9.5	11	21	22	18	20	144	399	53	13	6.2
2	15	9.5	11	20	20	18	19	171	324	49	12	6.0
3	15	9.2	10	19	20	18	19	199	296	45	11	6.0
4	11	16	10	18	19	18	21	179	275	41	11	5.7
5	9.8	15	10	17	19	18	26	131	286	40	10	5.5
6	9.0	12	9.4	17	19	18	38	119	292	37	10	5.6
7	9.0	12	9.2	16	19	17	49	155	281	33	10	5.5
8	9.8	11	8.2	15	18	17	50	203	283	31	9.3	5.5
9	9.2	11	7.6	16	18	17	62	229	275	28	8.6	5.5
10	9.5	11	7.4	17	18	18	69	275	245	26	8.2	5.5
11	9.8	11	7.4	39	18	19	78	332	218	24	7.8	5.4
12	9.5	11	7.8	150	18	18	85	390	199	24	7.4	5.3
13	9.5	11	8.0	100	18	18	80	408	175	23	6.9	5.2
14	9.2	12	8.5	59	18	17	64	410	149	31	6.7	5.2
15	9.5	11	10	45	18	18	59	420	129	36	6.5	5.3
16	10	11	12	54	18	18	57	466	118	26	6.1	5.7
17	10	11	75	48	18	18	63	480	107	24	5.8	5.5
18	12	11	120	36	18	18	62	478	102	22	5.5	5.4
19	13	11	168	30	18	18	62	472	101	21	5.3	5.6
20	15	11	88	30	18	18	62	422	99	20	5.3	6.0
21	15	11	63	27	18	18	68	370	100	19	5.1	6.4
22	14	11	67	26	17	17	82	393	97	17	5.0	6.6
23	13	11	49	25	17	18	110	409	90	16	4.8	7.7
24	12	11	41	24	17	18	137	377	82	15	4.9	7.7
25	12	11	37	24	17	20	158	328	81	14	5.0	8.1
26	11	11	33	22	17	21	189	280	82	13	8.2	8.0
27	11	11	29	22	18	22	220	291	81	12	15	6.3
28	10	11	26	22	19	21	224	340	74	12	9.7	5.2
29	10	11	25	22	-----	20	185	386	68	11	7.5	5.2
30	8.8	11	24	22	-----	20	147	375	60	11	6.8	5.2
31	9.0	-----	23	21	-----	20	-----	350	-----	12	6.3	-----
TOTAL	339.4	337.2	1,015.5	1,024	512	572	2,565	9,982	5,168	786	244.7	178.0
MEAN	10.9	11.2	32.8	33.0	18.3	18.5	85.5	322	172	25.4	7.89	5.93
MAX	15	16	168	150	22	22	224	480	399	53	15	8.1
MIN	8.8	9.2	7.4	15	17	17	19	119	60	11	4.8	5.2
AC-FT	673	669	2,010	2,030	1,020	1,130	5,090	19,800	10,250	1,560	485	353

CAL YR 1972 TOTAL 19,364.9 MEAN 52.9 MAX 299 MIN 4.4 AC-FT 38,410

WTR YR 1973 TOTAL 22,723.8 MEAN 62.3 MAX 480 MIN 4.8 AC-FT 45,070

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-19	0800	6.29	230	5-18	2200	8.32	620
1-12	1430	6.28	200	5-29	2100	7.73	486
4-27	2100	6.68	299				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.

LOCATION.--Lat 38°55'22", long 119°59'23", in NW¼SE¼ sec.4, T.12 N., R.18 E., El Dorado County, on right bank on downstream side of U.S. Highway 50 bridge, 1.0 mile northeast of South Lake Tahoe Post Office, and 1.4 miles upstream from Lake Tahoe.

DRAINAGE AREA.--54.8 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 754 cfs May 19 (gage height, 5.28 ft); minimum daily, 8.7 cfs Sept. 29, 30.

Period of record: Maximum discharge, 754 cfs May 19, 1973 (gage height, 5.28 ft); minimum daily, 8.5 cfs Aug. 25-27, Sept. 22, 1972.

REMARKS.--Records good except those for the winter months, which are fair. Two small dams may cause slight regulation at times. Some small diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	22	60	57	57	64	220	482	76	23	13
2	23	17	21	56	57	56	58	238	388	69	22	15
3	25	17	20	52	57	54	56	277	364	58	21	13
4	18	56	20	48	56	53	62	283	348	54	18	12
5	16	38	20	46	52	52	75	223	333	48	22	12
6	17	28	19	44	50	50	96	190	339	47	20	12
7	26	27	18	42	50	48	109	209	333	34	20	11
8	21	25	17	43	49	48	112	267	340	36	18	9.9
9	15	23	16	43	48	47	128	308	360	35	16	9.9
10	14	23	15	55	48	49	142	340	337	35	18	10
11	15	23	15	106	47	46	160	418	304	36	17	10
12	14	22	15	537	47	46	166	492	279	34	17	9.9
13	15	22	16	347	47	48	166	554	240	34	16	10
14	14	24	17	201	48	47	142	558	204	34	14	10
15	14	23	19	124	48	46	129	564	166	48	13	9.1
16	15	22	25	172	48	46	127	605	150	37	13	9.5
17	17	22	140	169	47	48	136	640	135	35	13	9.9
18	32	22	413	130	47	48	127	630	124	33	13	9.5
19	24	22	486	88	47	48	120	650	120	31	13	9.5
20	25	21	419	80	47	48	116	592	125	30	11	9.7
21	25	21	213	76	46	46	120	534	125	28	11	9.5
22	23	21	193	70	46	47	138	472	129	25	11	9.7
23	22	21	131	68	45	47	161	528	131	26	11	9.9
24	20	21	111	66	46	48	200	488	114	24	11	10
25	19	21	94	64	45	56	231	386	113	24	11	9.7
26	18	21	82	63	45	64	261	367	116	23	12	9.3
27	18	21	76	61	49	68	295	360	121	23	25	9.3
28	17	21	74	59	57	61	324	404	108	20	18	8.9
29	17	22	70	58	-----	55	304	460	103	22	15	8.7
30	16	22	65	58	-----	52	247	498	95	20	15	8.7
31	16	-----	63	57	-----	59	-----	458	-----	20	13	-----
TOTAL	586	707	2,925	3,143	1,376	1,594	4,572	13,213	6,626	1,099	491	308.6
MEAN	18.9	23.6	94.4	101	49.1	51.4	152	426	221	35.5	15.8	10.3
MAX	32	56	486	537	57	68	324	650	482	76	25	15
MIN	14	17	15	42	45	46	56	190	95	20	11	8.7
AC-FT	1.160	1.400	5.800	6.230	2.730	3.160	9.070	26.210	13.140	2.180	974	612
CAL YR 1972	TOTAL 32,893.5 MEAN 89.9 MAX 486 MIN 8.5 AC-FT 65,240											
WTR YR 1973	TOTAL 36,640.6 MEAN 100 MAX 650 MIN 8.7 AC-FT 72,680											

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-18	0300	--	500	5-4	0300	3.28	315
12-19	1500	4.49	558	5-19	0400	5.28	754
1-12	1230	5.24	742	5-30	0700	4.46	552
4-28	0400	3.53	357				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336625 Fallen Leaf Lake near Tahoe Valley, Calif.

LOCATION.--Lat 38°54'00", long 120°04'10", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.12 N., R.17 E., El Dorado County, on west bank 1.5 mi (2.4 km) from outlet and 3.8 mi (6.1 km) west-southwest of Tahoe Valley.

DRAINAGE AREA.--16.7 mi² (43.3 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,372.30 ft (1,942.277 m) above mean sea level, datum of 1929, supplementary adjustment of 1959.

EXTREMES.--Current year: Maximum gage height, 4.27 ft (1.302 m) July 9-11; minimum, 2.38 ft (0.725 m) Apr. 4, 5.
Period of record: Maximum gage height, 5.51 ft (1.679 m) Jan. 22, 1970; minimum, 1.84 ft (0.561 m) Nov. 10, 1971.

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1934. Regulation is for maintenance of lake level and enhancement of fishery.

GAGE HEIGHT, IN FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.88	2.61	2.65	2.72	2.63	2.53	2.42	3.24	3.84	4.22	3.98	3.23
2	2.88	2.60	2.61	2.68	2.61	2.52	2.40	3.23	3.86	4.23	3.98	3.21
3	2.88	2.64	2.69	2.67	2.60	2.55	2.39	3.25	3.85	4.24	3.97	3.19
4	2.87	2.78	2.76	2.64	2.58	2.53	2.38	3.26	3.84	4.24	3.96	3.18
5	2.86	2.80	2.75	2.62	2.56	2.51	2.38	3.20	3.86	4.25	3.94	3.16
6	2.85	2.79	2.84	2.59	2.56	2.51	2.41	3.15	3.89	4.24	3.93	3.14
7	2.85	2.81	2.89	2.55	2.55	2.50	2.44	3.15	3.90	4.25	3.91	3.12
8	2.83	2.80	2.87	2.62	2.54	2.49	2.47	3.19	3.90	4.26	3.87	3.09
9	2.82	2.78	2.86	2.65	2.53	2.47	2.51	3.26	3.91	4.27	3.84	3.07
10	2.80	2.78	2.84	2.64	2.65	2.51	2.55	3.35	3.89	4.27	3.83	3.05
11	2.78	2.78	2.81	2.89	2.70	2.50	2.60	3.46	3.89	4.27	3.81	3.04
12	2.77	2.75	2.79	3.11	2.69	2.49	2.65	3.56	3.89	4.25	3.78	3.02
13	2.76	2.80	2.78	3.09	2.68	2.47	2.72	3.62	3.85	4.25	3.75	3.00
14	2.75	2.83	2.76	3.03	2.65	2.46	2.75	3.64	3.82	4.25	3.73	2.98
15	2.75	2.83	2.73	2.94	2.63	2.44	2.75	3.69	3.76	4.25	3.71	2.96
16	2.77	2.83	2.73	3.07	2.61	2.42	2.75	3.75	3.71	4.25	3.66	2.94
17	2.80	2.83	3.29	3.04	2.59	2.42	2.77	3.81	3.67	4.25	3.61	2.92
18	2.82	2.81	3.42	3.07	2.57	2.40	2.77	3.86	3.65	4.24	3.55	2.91
19	2.82	2.80	3.52	3.02	2.55	2.40	2.76	3.83	3.67	4.23	3.52	2.88
20	2.83	2.78	3.40	2.96	2.53	2.40	2.75	3.74	3.73	4.21	3.49	2.86
21	2.83	2.78	3.31	2.92	2.51	2.42	2.75	3.64	3.79	4.21	3.46	2.85
22	2.83	2.77	3.27	2.87	2.50	2.40	2.76	3.57	3.84	4.19	3.42	2.82
23	2.83	2.75	3.18	2.84	2.47	2.40	2.81	3.55	3.89	4.15	3.36	2.80
24	2.80	2.74	3.11	2.79	2.48	2.39	2.88	3.56	3.93	4.13	3.34	2.77
25	2.80	2.73	3.03	2.76	2.46	2.39	2.97	3.52	3.99	4.11	3.31	2.75
26	2.78	2.72	2.97	2.73	2.51	2.39	3.07	3.42	4.05	4.09	3.35	2.73
27	2.77	2.72	2.92	2.70	2.55	2.41	3.17	3.39	4.11	4.08	3.34	2.72
28	2.72	2.70	2.87	2.67	2.55	2.40	3.26	3.40	4.14	4.05	3.32	2.71
29	2.68	2.68	2.83	2.69	-----	2.40	3.29	3.51	4.18	4.01	3.31	2.70
30	2.65	2.67	2.79	2.68	-----	2.40	3.27	3.66	4.20	4.00	3.28	2.67
31	2.63	-----	2.75	2.65	-----	2.42	-----	3.68	-----	3.99	3.25	-----
MEAN	2.80	2.76	2.94	2.80	2.57	2.45	2.73	3.49	3.88	4.19	3.63	2.95
MAX	2.88	2.83	3.52	3.11	2.70	2.55	3.29	3.86	4.20	4.27	3.98	3.23
MIN	2.63	2.60	2.61	2.55	2.46	2.39	2.38	3.15	3.65	3.99	3.25	2.66</

WTR YR 1973 MEAN 3.10 MAX 4.27 MIN 2.38

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LOCATION.--Lat 38°55'20", long 120°03'35", in NE¼NE¼ sec.2, T.12 N., R.17 E., El Dorado County, on left bank 0.1 mi (0.2 km) downstream from Fallen Leaf Lake outlet, and 3.0 mi (4.8 km) west of Tahoe Valley.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft (1,938.857 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--5 years, 50.6 ft³/s (1.433 m³/s), 36,660 acre-ft/yr (45.2 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 346 ft³/s (9.80 m³/s) May 18, 19, gage height, 4.69 ft (1.430 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 1.
Period of record: Maximum discharge, 1,070 ft³/s (30.3 m³/s) Jan. 22, 1970, gage height, 5.63 ft (1.716 m); minimum daily, 0.20 ft³/s (0.006 m³/s) Oct. 4-7, 1970.

REMARKS.--Records good. Flow regulated by Fallen Leaf Lake Dam.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,6	14	20	36	28	25	19	111	159	11	7,2	5,2
2	4,8	14	20	34	27	23	18	107	167	11	7,1	5,2
3	7,2	14	20	33	26	24	18	112	166	11	7,1	5,3
4	9,2	14	20	30	27	24	17	120	156	11	7,1	5,3
5	9,1	14	20	29	25	24	17	108	148	11	7,0	5,5
6	9,1	14	22	29	24	23	17	94	153	11	6,9	5,5
7	9,1	14	24	28	24	23	18	87	156	10	7,0	5,7
8	9,1	14	26	29	23	22	19	91	156	10	6,9	5,5
9	9,1	14	24	32	22	22	20	106	158	10	6,8	5,5
10	9,1	14	23	32	25	22	22	125	158	10	6,9	5,5
11	9,4	14	23	36	28	24	24	163	136	10	6,9	5,5
12	9,4	14	22	79	29	23	26	210	114	9,9	6,9	5,6
13	9,4	14	22	87	28	23	29	240	113	10	7,1	5,7
14	9,4	14	21	77	27	22	30	256	108	10	7,1	5,8
15	9,4	14	27	76	26	21	32	271	89	9,7	7,0	5,5
16	11	14	36	74	27	21	33	293	68	9,7	6,8	5,3
17	12	14	49	73	26	21	35	318	65	9,7	6,8	5,5
18	12	14	115	77	25	19	34	335	52	9,8	6,8	5,5
19	12	14	203	71	24	19	33	338	30	10	6,9	5,5
20	12	14	192	61	23	19	32	323	17	10	7,0	5,5
21	12	14	150	55	22	19	31	286	14	9,8	7,1	5,5
22	11	14	143	48	22	19	32	252	13	9,9	7,0	5,5
23	12	14	117	43	21	18	35	237	13	10	6,9	5,5
24	12	14	92	39	22	18	41	239	13	10	6,9	5,2
25	12	14	78	37	21	18	50	258	12	9,7	6,6	4,8
26	12	14	68	33	21	17	62	210	12	9,7	6,7	4,8
27	13	15	61	31	23	18	81	180	12	9,7	6,4	4,7
28	14	15	54	30	24	18	109	172	11	13	6,4	4,9
29	14	17	49	29	-----	18	123	161	11	23	5,9	5,1
30	14	20	44	29	-----	18	122	136	11	7,5	5,7	5,2
31	14	-----	39	28	-----	18	-----	143	-----	7,3	5,3	-----
TOTAL	326,4	431	1,824	1,425	690	643	1,179	6,062	2,491	324,4	210,2	160,8
MEAN	10,5	14,4	58,8	46,0	24,6	20,7	39,3	196	83,0	10,5	6,78	5,36
MAX	14	20	203	87	29	25	123	338	167	23	7,2	5,8
MIN	4,6	14	20	28	21	17	17	87	11	7,3	5,3	4,7
AC=FT	647	855	3,620	2,830	1,370	1,280	2,340	12,020	4,940	643	417	319
CAL YR 1972	TOTAL	13,342,2	MEAN	36,5	MAX	203	MIN	3,4	AC=FT	26,460		
WTR YR 1973	TOTAL	15,766,8	MEAN	43,2	MAX	338	MIN	4,6	AC=FT	31,270		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.

LOCATION.--Lat 38°57'05", long 120°06'38", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.21, T.13 N., R.17 E., El Dorado County, Eldorado National Forest, on right bank at downstream edge of culvert on State Highway 89, 0.7 mile northwest of Bay View Guard Station, and 4.0 miles northwest of Camp Richardson.

DRAINAGE AREA.--6.38 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

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

EXTREMES.--Current year: Maximum discharge, 233 cfs May 18 (gage height, 3.44 ft); minimum daily, 0.27 cfs Sept. 23.

Period of record: Maximum discharge, 233 cfs May 18, 1973 (gage height, 3.44 ft); minimum daily, 0.23 cfs Sept. 25, 1972.

REMARKS.--Records good. Some minor natural regulation by Eagle Lake and other small lakes in the basin. Minor diversion above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	1.1	5.6	6.7	5.4	5.8	5.8	44	115	26	4.0	1.4
2	4.0	1.1	5.4	6.4	5.2	5.6	5.4	52	99	20	4.0	1.3
3	4.6	1.2	5.6	6.2	5.0	5.4	5.4	62	85	18	4.0	1.0
4	4.8	18	5.4	6.2	5.4	5.6	5.2	55	82	18	3.8	.88
5	4.6	20	5.2	5.8	5.2	5.4	5.8	35	85	18	3.6	.88
6	4.2	14	5.1	5.6	5.2	5.4	10	30	90	18	3.0	.78
7	3.4	10	5.0	5.0	5.2	5.4	16	44	85	18	2.6	.68
8	2.8	8.9	4.9	5.2	5.2	5.2	15	62	84	15	2.4	.65
9	2.4	7.7	4.8	6.4	5.0	4.8	19	72	90	14	2.0	.56
10	2.2	6.7	4.7	7.1	4.9	5.0	21	92	84	14	2.4	.53
11	2.8	6.7	4.7	14	4.8	6.2	26	115	75	14	3.2	.50
12	3.4	6.4	4.8	52	4.7	5.6	30	132	68	14	2.4	.50
13	3.4	6.0	4.8	38	4.7	5.4	26	136	62	13	1.8	.50
14	3.0	7.5	4.9	20	4.8	5.2	18	139	50	12	1.4	.50
15	2.8	7.7	5.0	15	4.8	4.8	15	145	39	11	1.2	.47
16	2.6	7.7	5.0	16	4.8	4.8	13	162	34	9.6	.94	.39
17	3.6	7.3	84	15	5.0	5.2	13	164	29	9.4	.83	.39
18	6.9	6.7	95	15	5.0	5.2	13	170	26	8.9	.71	.37
19	9.6	6.4	118	15	5.0	5.0	13	164	27	8.2	.62	.35
20	9.9	5.8	64	14	4.8	5.0	12	130	31	7.3	.56	.44
21	9.2	5.6	39	11	4.8	5.0	12	108	36	6.7	.53	.50
22	7.5	5.8	35	8.9	5.0	5.4	15	105	39	5.8	.50	.39
23	6.4	5.4	24	7.7	4.8	5.0	30	105	41	5.0	.47	.27
24	5.6	5.0	19	6.9	4.8	5.0	43	118	33	4.4	.44	.41
25	4.6	5.0	15	6.7	5.0	5.4	49	113	31	4.2	.41	.41
26	3.6	5.6	12	5.8	5.0	6.4	61	79	34	4.0	.53	.39
27	3.2	6.4	11	5.8	5.8	7.3	75	76	40	3.8	.88	.39
28	2.2	6.2	9.9	5.4	6.0	6.9	79	94	38	3.6	1.4	.39
29	1.5	6.0	8.6	5.4	-----	6.0	65	122	37	3.6	2.0	.39
30	1.3	5.8	8.4	5.8	-----	5.4	60	136	33	3.8	2.2	.41
31	1.2	-----	7.5	5.8	-----	5.4	-----	113	-----	3.8	1.4	-----
TOTAL	132.1	213.7	631.3	349.8	141.3	169.2	776.6	3,174	1,702	335.1	56.22	17.02
MEAN	4.26	7.12	20.4	11.3	5.05	5.46	25.9	102	56.7	10.8	1.81	.57
MAX	9.9	20	118	52	6.0	7.3	79	170	115	26	4.0	1.4
MIN	1.2	1.1	4.7	5.0	4.7	4.8	5.2	30	26	3.6	.41	.27
AC-FT	262	424	1,250	694	280	336	1,540	6,300	3,380	665	112	34

CAL YR 1972 TOTAL 6,797.20 MEAN 18.6 MAX 118 MIN .23 AC-FT 13,480
WTR YR 1973 TOTAL 7,698.34 MEAN 21.1 MAX 170 MIN .27 AC-FT 15,270

PEAK DISCHARGE (BASE, 70 CFS)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	1730	3.13	156	5-3	2200	2.56	73
12-19	0700	3.03	137	5-18	2000	3.44	233
4-27	2100	2.76	97	5-29	2200	3.21	175

Peaks for water year 1972 not previously published

PEAK DISCHARGE (BASE, 70 CFS)							
DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-5	2200	2.64	76	5-31	2300	3.08	128
5-14	2200	2.92	108				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336640 MEEKS CREEK AT MEEKS BAY, CALIF.

LOCATION.--Lat 39°02'09", long 120°07'23", in NE¼NW¼ sec.29, T.14 N., R.17 E., El Dorado County, Eldorado National Forest, on left bank on upstream side of State Highway 89 culvert, 0.1 mile north of Meeks Bay Fire Department.

DRAINAGE AREA.--8.08 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 194 cfs May 17 (gage height, 3.00 ft); minimum daily, 0.02 cfs Sept. 27-30.

Period of record: Maximum discharge, 194 cfs May 17, 1973 (gage height, 3.00 ft); minimum daily, 0.02 cfs Sept. 27-30, 1973.

REMARKS.--Records good except those for the winter periods, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.56	2.1	7.7	7.2	8.7	8.2	48	72	6.7	.43	.20
2	.88	.96	2.4	7.2	7.2	8.2	8.2	52	76	4.8	.30	.20
3	.50	1.3	2.4	7.2	7.2	8.2	8.2	61	53	3.8	.20	.20
4	.47	8.8	2.3	6.7	7.2	8.2	8.7	64	46	3.8	.30	.20
5	.51	6.7	2.2	6.2	7.2	7.7	11	46	44	3.4	.58	.20
6	.58	4.3	2.1	5.7	7.2	7.7	14	35	46	3.0	.58	.20
7	.73	3.4	2.1	5.2	7.2	7.7	14	40	44	2.7	.30	.10
8	1.2	3.4	2.0	5.2	7.2	7.7	18	56	40	2.4	.30	.05
9	.96	2.7	2.0	6.2	6.7	7.2	22	65	41	2.1	.30	.05
10	.96	2.4	2.0	6.7	6.6	7.7	25	75	38	2.1	.30	.05
11	1.2	2.4	2.0	9.2	6.6	8.2	29	95	32	1.8	.30	.05
12	.96	2.4	2.0	51	6.6	8.2	33	112	30	1.8	.20	.04
13	.96	2.4	2.0	62	6.6	7.7	32	130	27	1.5	.20	.04
14	.96	3.0	2.1	32	6.8	7.2	27	134	23	1.2	.20	.03
15	1.2	3.0	2.2	22	7.2	6.7	24	132	19	1.2	.10	.03
16	1.2	2.7	2.3	31	7.2	6.7	23	145	17	.96	.10	.03
17	1.5	2.4	11	30	7.2	7.2	25	149	15	.96	.10	.03
18	2.4	2.1	25	18	7.2	6.7	22	147	14	.96	.10	.03
19	2.4	2.1	55	18	7.2	7.2	22	138	13	.73	.10	.03
20	2.7	2.1	56	16	7.2	6.7	20	112	13	.73	.10	.03
21	2.7	2.1	33	14	7.2	6.7	21	86	13	.73	.10	.03
22	2.4	2.1	35	12	7.2	7.2	24	80	14	.73	.10	.03
23	2.1	1.8	24	11	7.2	6.7	33	82	12	.58	.20	.03
24	1.8	1.8	18	10	6.7	7.2	44	82	11	.43	.30	.03
25	1.5	1.8	15	9.7	7.2	7.7	48	70	9.7	.30	.43	.03
26	1.2	1.8	12	9.7	7.2	8.2	64	56	10	.30	.30	.03
27	1.2	1.8	11	9.2	8.2	9.2	77	50	11	.30	.20	.02
28	.96	2.1	10	8.7	9.2	9.2	82	59	10	.30	.20	.02
29	.96	2.1	9.2	8.7	-----	7.7	71	75	9.2	.30	.30	.02
30	.96	2.1	9.2	9.2	-----	7.7	57	86	7.7	.30	.30	.02
31	.96	-----	8.2	8.2	-----	8.2	-----	70	-----	.43	.20	-----
TOTAL	39.51	79.02	365.8	463.6	200.8	237.2	920.3	2,632	810.6	51.34	7.72	2.05
MEAN	1.27	2.63	11.8	15.0	7.17	7.65	30.7	84.9	27.0	1.66	.25	.068
MAX	2.7	8.8	56	62	9.2	9.2	82	149	76	6.7	.58	.20
MIN	.47	.96	2.0	5.2	6.6	6.7	8.2	35	7.7	.30	.10	.02
AC-FT	78	157	726	920	398	470	1,830	5,220	1,610	102	15	4.1

CAL YR 1972 TOTAL 5,209.62 MEAN 14.2 MAX 84 MIN .18 AC-FT 10,330

WTR YR 1973 TOTAL 5,809.94 MEAN 15.9 MAX 149 MIN .02 AC-FT 11,520

PEAK DISCHARGE (BASE, 80 CFS, REVISED)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-12	2000	2.36	80	5-17	0200	3.00	194
4-28	0200	2.47	95	5-30	0500	2.56	109

PYRAMID AND WINNEMUCCA LAKES BASIN

10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°04'34", long 120°09'06", in SW¼NW¼ sec.7, T.14 N., R.17 E., Placer County, Tahoe National Forest, on left bank 93 ft upstream from Highway 89, and 0.5 mile southeast of Homewood.

DRAINAGE AREA.--0.95 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,330 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 24 cfs May 14 (gage height, 2.42 ft); minimum daily, 0.26 cfs Sept. 12-16.

Period of record: Maximum discharge, 24 cfs May 14, 1973 (gage height, 2.42 ft); minimum daily, 0.17 cfs Aug. 9-15, 23-28, 1972.

REMARKS.--Records good. Slight regulation at times from Quail Lake. No known diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.29	.33	.76	.96	.64	.70	6.9	9.9	1.1	.37	.33
2	.33	.29	.33	.76	.96	.64	.70	7.5	8.7	1.4	.82	.33
3	.33	.40	.33	.76	.96	.64	.76	8.3	7.5	1.2	.47	.33
4	.33	1.7	.33	.70	.96	.64	.82	7.7	6.6	1.1	.37	.29
5	.29	.88	.33	.70	.96	.64	1.0	6.1	4.9	.56	.37	.29
6	.29	.70	.33	.70	.96	.64	1.2	5.2	2.1	.76	.37	.29
7	.29	.64	.33	.70	.96	.64	1.4	5.9	1.9	.76	.37	.29
8	.29	.58	.33	.70	.96	.64	1.4	7.5	1.6	.70	.37	.29
9	.29	.47	.37	.82	.96	.64	1.6	8.0	1.5	.64	.33	.29
10	.33	.47	.37	.96	.96	.64	2.1	9.9	2.0	.58	.33	.29
11	.33	.42	.37	3.0	.96	.70	2.7	12	3.1	.52	.37	.29
12	.33	.42	.37	14	.96	.70	3.0	14	3.2	.42	.37	.26
13	.33	.42	.37	5.6	.88	.64	3.2	17	3.1	.37	.37	.26
14	.29	.42	.37	3.6	.76	.64	3.0	22	2.8	.37	.37	.26
15	.29	.42	.37	2.8	.70	.64	2.7	22	3.1	.33	.37	.26
16	.29	.42	.42	4.1	.64	.58	2.7	22	3.0	.38	.37	.26
17	.37	.42	3.0	3.4	.64	.58	3.0	21	2.8	.37	.37	.29
18	.37	.42	3.8	3.1	.58	.58	2.7	20	2.6	.42	.37	.29
19	.33	.42	7.6	2.7	.58	.58	2.7	18	2.6	.42	.37	.29
20	.33	.42	4.9	2.1	.52	.58	2.6	15	2.4	.33	.37	.33
21	.33	.42	3.4	1.9	.52	.58	2.4	12	2.3	.29	.37	.33
22	.29	.42	4.0	1.6	.52	.58	3.0	11	2.4	.29	.37	.33
23	.29	.42	2.7	1.5	.52	.58	3.5	11	2.3	.29	.37	.37
24	.29	.42	2.1	1.4	.52	.58	4.4	11	2.2	.29	.42	.37
25	.29	.42	1.6	1.1	.58	.58	4.6	12	1.9	.33	.42	.37
26	.29	.37	1.5	1.0	.64	.64	6.4	9.5	2.0	.33	.47	.37
27	.29	.37	1.3	1.0	.64	.70	8.0	8.3	1.8	.33	.47	.33
28	.29	.37	1.1	1.0	.70	.70	9.1	8.3	1.6	.33	.42	.33
29	.29	.37	1.0	1.0	-----	.70	8.3	9.1	1.5	.29	.37	.29
30	.29	.33	.96	1.0	-----	.70	7.7	9.9	1.3	.29	.37	.29
31	.29	-----	.88	1.0	-----	.70	-----	10	-----	.29	.33	-----
TOTAL	9.59	14.53	45.49	65.46	21.46	19.66	97.38	368.1	94.7	16.48	12.25	9.19
MEAN	.31	.48	1.47	2.11	.77	.63	3.25	11.9	3.16	.53	.40	.31
MAX	.37	1.7	7.6	14	.96	.70	9.1	22	9.9	1.4	.82	.37
MIN	.29	.29	.33	.70	.52	.58	.70	5.2	1.3	.29	.33	.26
AC-FT	19	29	90	130	43	39	193	730	188	33	24	18

CAL YR 1972 TOTAL 788.83 MEAN 2.16 MAX 15 MIN .17 AC-FT 1,560

WTR YR 1973 TOTAL 774.29 MEAN 2.12 MAX 22 MIN .26 AC-FT 1,540

PEAK DISCHARGE (BASE, 10 CFS).--Jan. 12 (0500) 19 cfs (2.32 ft); May 14 (2100) 24 cfs (2.42 ft).

Peaks for water year 1972 not previously published

PEAK DISCHARGE (BASE, 10 CFS)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
5-17	1100	2.29	17	6-1	1200
5-29	0700	2.25	15		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'14", long 120°10'24", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.14 N., R.16 E., Placer County, Tahoe National Forest, on right bank 1.0 mile northwest of Homewood Post Office.

DRAINAGE AREA.--1.40 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,780 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 43 cfs May 17 (gage height, 2.84 ft); maximum gage height, 4.02 ft Dec. 17 (backwater from ice); minimum daily discharge, 0.49 cfs Sept. 11-19.

Period of record: Maximum discharge, 43 cfs May 17, 1973 (gage height, 2.84 ft); maximum gage height, 4.02 ft Dec. 17, 1972 (backwater from ice); minimum daily discharge, 0.48 cfs Feb. 17-19, 1972.

REMARKS.--Records good. Slight regulation may occur from Lake Louise. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.74	.74	2.9	2.0	1.2	1.0	12	21	5.1	.95	.55
2	.76	.74	.70	2.8	2.0	1.1	1.0	13	20	4.7	.95	.55
3	.78	1.1	.66	2.8	1.8	1.1	1.0	14	20	4.3	.95	.55
4	.74	2.9	.60	2.8	1.7	1.2	1.0	14	20	3.9	.95	.52
5	.70	1.3	.58	2.4	1.6	1.2	1.3	11	20	3.7	.90	.52
6	.70	1.0	.57	2.4	1.6	1.2	1.7	11	20	3.5	.86	.52
7	.94	1.0	.57	2.3	1.6	1.2	2.0	12	20	3.1	.86	.52
8	.90	.95	.57	2.3	1.5	1.2	2.2	14	20	2.9	.86	.52
9	.90	.90	.58	2.4	1.5	1.1	2.6	15	20	2.8	.86	.52
10	1.4	.86	.60	2.2	1.6	1.2	3.1	16	19	2.6	1.2	.52
11	1.4	.86	.62	3.1	1.6	1.2	3.9	17	18	2.3	.95	.49
12	1.8	.82	.66	11	1.6	1.1	4.5	23	17	2.2	.82	.49
13	1.0	.86	.68	7.2	1.6	1.1	4.3	29	16	2.2	.82	.49
14	.86	.90	.70	5.3	1.5	1.1	3.9	32	13	2.2	.78	.49
15	.86	.86	.70	4.5	1.5	1.0	3.7	30	11	2.0	.74	.49
16	.90	.86	.94	4.7	1.5	1.0	3.5	32	9.8	1.8	.74	.49
17	.90	.82	19	3.7	1.5	1.1	3.5	33	8.6	1.7	.78	.49
18	1.1	.82	13	3.9	1.4	1.0	3.5	32	7.8	1.7	.90	.49
19	1.0	.82	19	3.3	1.4	1.0	3.5	29	6.5	1.5	.70	.49
20	1.0	.78	10	2.9	1.3	1.0	3.5	25	6.0	1.4	.66	.62
21	.90	.78	8.6	2.8	1.3	1.0	3.7	23	7.8	1.4	.66	.55
22	.86	.78	9.4	2.6	1.3	1.0	4.7	22	8.2	1.3	.62	.52
23	.82	.78	6.5	2.6	1.3	1.0	6.0	21	7.8	1.3	.62	.55
24	.82	.78	5.5	2.6	1.3	1.0	7.0	22	7.0	1.2	.62	.55
25	.78	.78	4.9	2.4	1.3	1.0	7.8	23	6.8	1.1	.62	.52
26	.78	.74	4.5	2.4	1.2	1.0	9.4	21	7.0	1.1	.74	.52
27	.78	.74	4.3	2.4	1.2	1.1	14	19	6.8	1.1	.70	.52
28	.78	.74	3.9	2.3	1.2	1.1	15	17	6.8	1.0	.62	.52
29	.70	.74	3.7	2.2	-----	1.0	14	18	6.2	1.0	.62	.52
30	.70	.74	3.5	2.2	-----	1.0	13	22	5.8	.95	.55	.52
31	.66	-----	3.3	2.0	-----	1.1	-----	22	-----	.95	.55	-----
TOTAL	28.22	27.49	129.57	101.4	41.9	33.6	149.3	644	383.9	68.00	24.15	15.61
MEAN	.91	.92	4.18	3.27	1.50	1.08	4.98	20.8	12.8	2.19	.78	.52
MAX	1.8	2.9	.19	11	2.0	1.2	15	33	21	5.1	1.2	.62
MIN	.66	.74	.57	2.0	1.2	1.0	1.0	11	5.8	.95	.55	.49
AC-FT	56	55	257	201	83	67	296	1,280	761	135	48	31

CAL YR 1972 TOTAL 1,710.71 MEAN 4.67 MAX 29 MIN .48 AC-FT 3,390
WTR YR 1973 TOTAL 1,647.14 MEAN 4.51 MAX 33 MIN .49 AC-FT 3,270

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	0900	2.82	41	5-17	1600	2.84	43
12-19	0230	2.66	25	5-30	1500	2.72	25
4-27	1700	2.63	19				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336658 MADDEN CREEK AT HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'27", long 120°09'42", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.14 N., R.16 E., Placer County, Tahoe National Forest, on left bank downstream from culvert on State Highway 89, 0.7 mile north of Homewood Post Office.

DRAINAGE AREA.--2.06 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 86 cfs May 17 (gage height, 1.97 ft); no flow Sept. 10, 14-18, 29.
Period of record: Maximum discharge, 86 cfs May 17, 1973 (gage height, 1.97 ft); no flow Sept. 10, 14-18, 29, 1973.

REVISIONS.--The maximum discharge for the water year 1972 has been revised to 52 cfs May 31, 1972 (gage height, 1.77 ft), superseding figure published in WRD Calif., 1972.

REMARKS.--Records good. A diversion of about 1 cfs occurs 1,500 ft upstream for domestic uses. Slight regulation may occur from Lake Louise at the upper end of the drainage basin.

DISCHARGE, IN CUHIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.32	.52	2.5	1.8	.90	.83	14	34	4.9	.35	.09
2	.41	.32	.52	2.4	1.8	.90	.83	14	30	4.5	.30	.10
3	.35	.61	.48	2.4	1.6	.90	.83	16	28	4.1	.28	.08
4	.30	2.6	.43	2.4	1.6	.97	.97	16	26	3.9	.30	.08
5	.28	1.2	.40	2.0	1.4	.90	1.4	13	26	3.4	.30	.08
6	.26	.83	.37	1.9	1.4	.90	2.0	12	27	3.2	.26	.06
7	.38	.77	.36	1.8	1.3	.90	2.5	13	26	3.0	.24	.08
8	.32	.66	.37	1.9	1.2	.90	2.5	15	26	2.6	.22	.04
9	.30	.66	.37	2.0	1.2	.83	3.0	18	25	2.5	.20	.01
10	.59	.66	.38	1.9	1.2	.90	3.4	23	24	2.2	.56	0
11	.62	.66	.40	3.4	1.2	.90	4.1	31	21	1.9	.32	.06
12	1.2	.61	.42	17	1.0	.90	4.9	38	18	1.6	.24	.04
13	.56	.61	.44	7.8	.97	.90	4.9	48	16	1.6	.22	.01
14	.35	.71	.44	5.5	.97	.83	4.3	55	14	1.6	.16	0
15	.30	.71	.44	4.7	.97	.83	4.1	58	12	1.4	.15	0
16	.32	.66	.60	4.9	.90	.83	3.7	63	11	1.4	.13	0
17	.44	.56	14	3.9	.90	.90	3.7	65	9.3	1.2	.09	0
18	.56	.56	9.5	3.6	.90	.90	3.7	63	8.7	1.2	.35	0
19	.61	.56	16	3.3	.90	.90	3.7	57	6.8	.90	.15	.02
20	.61	.52	9.3	3.0	.90	.90	3.7	49	5.8	.90	.12	.14
21	.48	.48	9.0	3.1	.90	.90	4.1	41	7.8	.77	.13	.10
22	.44	.48	7.8	2.8	.90	.77	4.9	38	8.4	.71	.11	.09
23	.38	.48	6.0	2.8	.90	.77	6.0	38	8.1	.66	.11	.12
24	.35	.52	5.3	2.5	.90	.77	7.2	39	7.2	.56	.12	.10
25	.32	.52	4.5	2.5	.90	.63	8.4	40	7.0	.52	.13	.10
26	.32	.52	3.9	2.4	.90	.90	9.6	34	7.0	.52	.26	.09
27	.32	.52	3.7	2.2	.97	.90	14	30	6.8	.48	.26	.07
28	.30	.52	3.3	2.0	.90	.83	15	31	6.5	.44	.18	.05
29	.28	.52	2.8	1.9	-----	.83	15	35	6.0	.44	.16	0
30	.27	.48	2.8	1.9	-----	.83	14	37	5.5	.38	.14	.05
31	.28	-----	2.8	1.8	-----	.83	-----	35	-----	.35	.13	-----
TOTAL	12.80	19.83	107.64	104.2	31.38	26.95	157.26	1,079	464.9	53.83	6.67	1.66
MEAN	.41	.66	3.47	3.36	1.12	.87	5.24	34.8	15.5	1.74	.22	.055
MAX	1.2	2.6	16	17	1.8	.97	15	65	34	4.9	.56	.14
MIN	.26	.32	.36	1.8	.90	.77	.83	12	5.5	.35	.09	0
AC-FT	25	39	214	207	62	53	312	2,140	922	107	13	3.3

CAL YR 1972 TOTAL 1,710.85 MEAN 4.67 MAX 35 MIN .04 AC-FT 3,390
WTR YR 1973 TOTAL 2,066.12 MEAN 5.66 MAX 65 MIN 0 AC-FT 4,100

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	1200	1.35	22	5-3	1900	1.37	21
1-12	0700	1.77	28	5-17	1700	1.97	86

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CALIF.

LOCATION.--Lat 39°06'26", long 120°09'40", in NE¼NW¼ sec.36, T.15 N., R.16 E., Placer County, on right bank 300 ft upstream from bridge on State Highway 89, 1,000 ft upstream from Lake Tahoe, and 4.6 miles south of Tahoe City.

DRAINAGE AREA.--11.2 sq mi.

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

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

AVERAGE DISCHARGE.--13 years, 38.0 cfs (27,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 393 cfs May 13 (gage height, 2.78 ft); minimum daily, 1.8 cfs Sept. 13-16.

Period of record: Maximum discharge, 2,100 cfs Dec. 22 or 24, 1964, from indirect measurement of peak flow; maximum gage height, 9.90 ft Dec. 22, 1964; minimum discharge, 0.30 cfs Sept. 19, 1968.

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

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.4	6.4	15	15	12	13	113	147	19	4.2	2.2
2	3.4	4.4	6.4	15	15	11	13	126	132	19	4.0	2.2
3	3.7	4.4	6.2	15	15	11	13	141	118	15	3.9	2.2
4	3.4	23	5.2	16	15	11	14	122	116	15	3.8	2.1
5	3.4	14	4.8	16	14	10	18	87	116	14	3.7	2.1
6	3.4	10	4.5	16	14	11	26	83	111	13	3.5	2.1
7	3.9	9.4	4.3	17	14	11	31	105	104	11	3.4	2.0
8	4.5	8.4	4.4	18	14	11	32	132	106	10	3.3	2.0
9	4.4	7.2	4.5	19	13	11	40	147	106	9.7	3.3	2.0
10	5.9	7.2	4.6	20	13	11	48	175	88	9.4	3.2	2.0
11	7.6	7.3	4.8	21	13	11	59	206	90	8.6	3.1	2.0
12	6.1	6.5	5.0	102	13	11	66	251	81	8.2	3.0	2.0
13	5.5	6.7	5.4	70	13	11	60	284	73	7.8	3.0	1.8
14	5.4	6.9	5.4	44	13	10	48	295	67	7.8	2.9	1.8
15	5.2	6.7	5.5	36	12	11	46	270	58	7.1	3.0	1.8
16	5.2	6.5	6.5	38	12	11	44	274	52	7.1	2.9	1.8
17	5.6	6.4	70	32	12	12	48	272	48	6.7	2.8	1.9
18	6.9	6.4	82	31	12	11	44	264	46	6.7	2.8	1.9
19	7.6	6.4	155	28	12	11	42	235	44	6.2	2.7	1.9
20	8.0	6.0	76	26	12	11	41	204	44	6.2	2.6	2.3
21	6.9	6.0	60	23	12	11	45	177	44	6.2	2.5	2.1
22	6.4	6.0	77	21	12	11	56	173	42	6.4	2.5	2.1
23	5.9	5.9	49	20	12	11	75	177	37	6.2	2.4	2.2
24	5.4	5.9	40	20	12	11	90	175	34	5.7	2.5	2.1
25	5.1	5.9	34	17	11	12	100	171	29	5.4	2.6	2.1
26	5.1	6.1	31	16	11	13	122	134	36	5.4	3.0	2.0
27	5.1	6.2	27	15	12	14	155	134	34	5.1	3.0	1.9
28	4.9	6.3	20	15	12	13	158	161	31	5.1	2.6	1.9
29	4.7	6.4	17	14	-----	13	138	169	29	4.9	2.5	1.9
30	4.4	6.4	16	14	-----	13	117	163	23	4.6	2.4	1.9
31	4.4	-----	15	14	-----	13	-----	147	-----	4.4	2.3	-----
TOTAL	160.8	219.8	852.9	784	360	355	1,802	5,567	2,086	266.9	93.4	60.3
MEAN	5.19	7.33	27.5	25.3	12.9	11.5	60.1	180	69.5	8.61	3.01	2.01
MAX	8.0	23	155	102	15	14	158	295	147	19	4.2	2.3
MIN	3.4	4.4	4.3	14	11	10	13	83	23	4.4	2.3	1.8
AC-FT	319	436	1,690	1,560	714	704	3,570	11,040	4,140	529	185	120

CAL YR 1972 TOTAL 12,001.6 MEAN 32.8 MAX 193 MIN 2.2 AC-FT 23,810
WTR YR 1973 TOTAL 12,608.1 MEAN 34.5 MAX 295 MIN 1.8 AC-FT 25,010

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-27	1945	2.10	218	5-28	1745	2.20	225
5-13	2330	2.78	393				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'09", long 120°13'11", in SE¼NW¼ sec.21, T.15 N., R.16 E., Placer County, Tahoe National Forest, on right bank 0.5 mile upstream from confluence with tributary, 3.9 miles northwest of Tahoe Pines, and 4.8 miles southwest of Tahoe City.

DRAINAGE AREA.--2.00 sq mi.

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 6,740 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 110 cfs May 18 (gage height, 2.67 ft); maximum gage height, 4.12 ft Jan. 12 (backwater from ice); minimum daily discharge, 0.34 cfs Sept. 7-19, 27-30.

REMARKS.--Records good except those for the winter period, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.58	.84	2.6	2.4	1.6	1.2	13	52	8.1	1.0	.43
2	.87	.53	.80	2.4	2.4	1.6	1.2	15	46	6.9	.93	.43
3	.63	.99	.76	2.3	2.4	1.6	1.2	17	40	6.6	.93	.43
4	.58	3.1	.73	2.1	2.3	1.6	1.4	13	37	5.8	.93	.38
5	.58	1.5	.71	2.0	2.3	1.4	1.8	9.4	38	5.2	.87	.38
6	.53	1.2	.71	2.0	2.3	1.4	2.8	9.4	40	5.2	.81	.38
7	1.4	1.1	.70	2.4	2.3	1.4	3.2	14	38	4.6	.81	.34
8	.75	1.0	.69	2.0	2.1	1.4	3.5	19	38	4.3	.75	.34
9	.81	.95	.69	1.8	2.1	1.4	4.9	20	38	4.0	.75	.34
10	1.4	.93	.69	1.8	1.9	1.4	5.5	24	33	3.5	.75	.34
11	1.2	.87	.69	3.2	1.8	1.4	6.6	31	30	3.2	.75	.34
12	.81	.87	.69	26	1.8	1.4	6.9	40	27	3.0	.69	.34
13	.69	.88	.69	11	1.8	1.4	5.5	52	24	2.8	.69	.34
14	.69	1.0	.69	6.2	1.8	1.4	4.3	62	21	2.6	.69	.34
15	.63	1.2	.69	5.2	1.8	1.4	4.0	66	18	2.4	.63	.34
16	.75	1.1	.84	4.7	1.8	1.4	3.8	71	16	2.3	.63	.34
17	.81	.87	18	4.5	1.8	1.4	3.8	75	14	2.1	.58	.34
18	1.2	.87	13	4.1	1.8	1.4	3.5	77	13	2.1	.58	.34
19	.93	.85	27	3.9	1.7	1.4	3.5	71	13	2.0	.58	.34
20	1.1	.85	12	3.7	1.7	1.4	3.5	62	13	1.8	.58	.95
21	.81	.83	8.5	3.5	1.7	1.4	4.0	52	14	1.7	.58	.38
22	.75	.81	8.5	3.3	1.7	1.4	5.8	53	14	1.6	.58	.38
23	.63	.81	5.8	3.2	1.7	1.4	8.5	53	12	1.6	.58	.58
24	.63	.82	4.9	3.2	1.7	1.4	10	53	12	1.4	.58	.48
25	.58	.82	4.6	3.0	1.7	1.4	12	50	11	1.4	.63	.43
26	.58	.83	4.0	3.0	1.7	1.4	14	40	12	1.2	1.6	.38
27	.58	.87	3.8	3.0	1.7	1.4	17	40	13	1.2	.69	.34
28	.58	.93	3.5	2.8	1.6	1.4	17	52	12	1.2	.53	.34
29	.58	.93	3.2	2.7	-----	1.4	14	64	11	1.2	.48	.34
30	.58	.90	3.0	2.4	-----	1.4	13	64	9.0	1.1	.43	.34
31	.58	-----	2.8	2.4	-----	1.4	-----	58	-----	1.0	.43	-----
TOTAL	23.87	29.79	134.21	126.4	53.8	44.2	187.4	1,339.8	709.0	93.1	22.04	11.79
MEAN	.77	.99	4.33	4.08	1.92	1.43	6.25	43.2	23.6	3.00	.71	.39
MAX	1.4	3.1	27	26	2.4	1.6	17	77	52	8.1	1.6	.95
MIN	.53	.53	.69	1.8	1.6	1.4	1.2	9.4	9.0	1.0	.43	.34
AC-FT	47	59	266	251	107	88	372	2,660	1,410	185	44	23

WTR YR 1973 TOTAL 2,775.40 MEAN 7.60 MAX 77 MIN .34 AC-FT 5,510

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	1600	2.26	33	4-28	1700	2.17	24
12-19	0400	2.28	36	5-18	1700	2.67	110
1-12	1200	4.08	38	5-29	1700	2.60	92

PYRAMID AND WINNEMUCCA LAKES BASIN

123

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'29", long 120°13'06", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.15 N., R.16 E., Placer County, on left bank
0.3 mile upstream from confluence with Ward Creek, 4.0 miles northwest of Tahoe Pines, and 4.5 miles southwest
of Tahoe City.

DRAINAGE AREA.--0.89 sq mi.

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 6,710 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 51 cfs May 16 (gage height, 2.80 ft); maximum gage height, 3.19 ft
Jan. 12 (backwater from ice); no flow many days in October, August, and September.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.15	.77	1.7	1.0	.84	.84	9.1	16	2.3	.11	
2	0	.19	.77	1.6	1.0	.84	.84	11	14	2.0	.11	
3	0	.45	.70	1.6	.98	.84	.84	12	14	1.8	.11	
4	0	1.3	.58	1.6	.98	.77	.98	10	12	1.6	.11	
5	0	.56	.56	1.6	.91	.77	1.4	7.0	13	1.5	.11	
6	0	.38	.56	1.5	.91	.70	2.0	6.3	13	1.3	.05	
7	0	.35	.56	1.4	.98	.70	2.3	9.1	13	1.1	.04	
8	0	.33	.56	1.4	.98	.70	2.3	13	13	.98	.01	
9	0	.28	.56	1.3	.98	.70	2.9	14	13	.91	0	
10	.19	.23	.56	1.3	.98	.70	3.6	16	11	.77	0	
11	.63	.23	.56	1.5	.94	.70	4.4	19	10	.70	0	
12	.23	.23	.56	7.3	.91	.70	5.1	24	9.4	.70	0	
13	.15	.28	.56	4.3	.91	.70	4.7	29	7.8	.70	0	
14	.08	.31	.50	2.7	.91	.70	3.6	33	6.6	.63	0	
15	.08	.38	.50	2.3	.91	.70	3.3	33	5.3	.50	0	
16	.11	.38	.55	2.3	.91	.70	2.9	36	4.7	.50	0	
17	.28	.33	6.7	1.9	.91	.77	2.9	35	4.4	.44	0	
18	.63	.28	9.4	1.8	.91	.70	2.7	30	4.4	.38	0	
19	.77	.33	17	1.7	.91	.70	2.6	27	4.4	.38	0	
20	.84	.38	7.7	1.6	.91	.70	2.6	22	4.5	.33	0	
21	.63	.33	6.8	1.6	.91	.70	2.7	20	4.7	.33	0	
22	.38	.33	6.1	1.5	.84	.70	3.6	20	4.5	.28	0	
23	.33	.33	4.2	1.4	.84	.70	5.3	20	3.8	.28	0	
24	.28	.33	3.4	1.4	.84	.77	7.0	22	3.6	.23	0	
25	.23	.44	3.0	1.3	.84	.77	8.3	20	3.6	.23	0	
26	.23	.50	2.7	1.3	.84	.84	10	15	4.0	.19	0	
27	.19	.56	2.6	1.2	.84	.84	13	14	4.0	.19	0	
28	.19	.56	2.5	1.2	.84	.77	13	18	3.8	.19	0	
29	.15	.56	2.2	1.1	-----	.77	11	20	3.2	.19	0	
30	.15	.70	1.9	1.1	-----	.77	9.1	20	2.6	.15	0	
31	.11	-----	1.8	1.0	-----	.77	-----	18	-----	.15	0	-----
TOTAL	6.86	11.99	87.41	56.5	25.62	23.03	135.80	602.5	231.3	21.93	.65	0
MEAN	.22	.40	2.82	1.82	.92	.74	4.53	19.4	7.71	.71	.021	0
MAX	.84	1.3	17	7.3	1.0	.84	13	36	16	2.3	.11	0
MIN	0	.15	.50	1.0	.84	.70	.84	6.3	2.6	.15	0	0
AC-FT	14	24	173	112	51	46	269	1,200	459	43	1.3	0

WTR YR 1973 TOTAL 1,203.59 MEAN 3.30 MAX 36 MIN 0 AC-FT 2,390

PEAK DISCHARGE (BASE, 10 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-17	--	2.65	11	5-3	1900	2.28	16
12-19	0500	2.40	22	5-16	1700	2.80	51
4-27	1700	2.35	19	5-29	1800	2.47	26

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT HIGHWAY 89, NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°07'56", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Tahoe National Forest, on right bank 165 ft downstream from State Highway 89 bridge, 2.1 miles north of Tahoe Pines, and 2.6 miles southwest of Tahoe City.

DRAINAGE AREA.--9.70 sq mi.

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 298 cfs May 16 (gage height, 5.85 ft); maximum gage height, 7.18 ft Dec. 17 (backwater from ice); minimum daily discharge, 1.0 cfs Aug. 19-21, Sept. 4-19.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.0	7.4	14	11	8.0	8.3	70	125	14	2.4	1.2
2	4.2	4.0	7.3	13	9.3	8.0	8.0	77	111	13	2.4	1.2
3	3.8	5.5	7.0	13	9.3	8.3	8.3	85	101	12	2.2	1.2
4	3.8	17	6.6	12	9.3	8.0	9.0	73	91	11	2.4	1.0
5	3.2	10	6.3	12	9.0	8.3	11	51	102	10	2.4	1.0
6	3.2	7.8	6.0	11	9.0	8.0	15	47	102	9.6	2.2	1.0
7	4.0	7.6	5.8	11	8.8	7.8	17	68	94	9.3	2.0	1.0
8	4.8	7.0	5.7	11	8.6	7.6	18	87	94	8.8	1.9	1.0
9	4.0	6.6	5.6	11	8.3	7.6	22	94	96	8.3	1.8	1.0
10	6.0	6.3	5.6	11	8.0	7.8	26	114	83	8.0	1.8	1.0
11	6.3	6.0	5.6	14	7.8	8.3	34	131	80	7.0	1.6	1.0
12	5.0	5.8	5.7	76	7.8	8.0	37	153	70	6.6	1.4	1.0
13	4.8	6.3	5.8	51	7.8	7.6	30	178	61	6.3	1.4	1.0
14	4.2	6.5	5.9	25	7.8	7.8	24	214	49	6.3	1.4	1.0
15	4.0	6.6	6.0	20	7.8	7.8	23	214	36	6.0	1.2	1.0
16	4.0	6.0	6.0	20	7.8	7.8	23	223	33	5.8	1.2	1.0
17	4.8	5.9	34	19	7.8	7.8	26	220	28	5.3	1.2	1.0
18	6.6	5.8	26	17	7.8	8.3	22	223	26	5.3	1.2	1.0
19	6.3	5.8	94	16	7.8	7.8	20	211	25	5.0	1.0	1.0
20	6.3	5.8	47	15	7.8	7.8	20	180	23	4.8	1.0	3.0
21	5.8	5.8	37	14	7.9	7.8	23	151	23	4.6	1.0	2.8
22	4.8	5.8	43	13	8.0	7.8	32	149	24	4.4	1.2	2.2
23	4.4	5.8	28	12	8.3	8.0	49	145	22	4.2	1.2	2.2
24	4.2	5.9	22	12	8.3	7.8	55	145	20	4.0	1.2	2.4
25	4.2	6.0	20	11	8.0	8.0	63	141	19	3.6	1.4	2.4
26	4.2	6.6	18	11	7.8	8.3	74	111	20	3.4	2.4	2.2
27	4.0	6.8	17	11	7.6	8.6	88	107	19	3.2	2.8	1.9
28	4.0	6.9	16	10	8.0	8.6	93	118	18	3.0	2.2	1.8
29	3.8	7.0	16	10	-----	8.0	83	133	18	2.8	2.0	1.4
30	3.6	7.5	15	10	-----	7.8	72	137	16	2.6	1.8	1.4
31	3.4	-----	14	10	-----	7.8	-----	135	-----	2.6	1.4	-----
TOTAL	139.7	200.4	545.3	516	232.5	246.9	1,033.6	4,185	1,629	200.8	52.7	43.3
MEAN	4.51	6.68	17.6	16.6	8.30	7.96	34.5	135	54.3	6.48	1.70	1.44
MAX	6.6	17	94	76	11	8.6	93	223	125	14	2.8	3.0
MIN	3.2	4.0	5.6	10	7.6	7.6	8.0	47	16	2.6	1.0	1.0
AC-FT	277	397	1,080	1,020	461	490	2,050	8,300	3,230	398	105	86

WTR YR 1973 TOTAL 9,025.2 MEAN 24.7 MAX 223 MIN 1.0 AC-FT 17,900

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-19	0400	5.53	125	4-27	1800	5.17	120
1-12	1800	5.37	102	5-16	1800	5.85	298

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.

LOCATION.--Lat 39°11'55", long 120°05'50", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.16 N., R.17 E., Placer County, on right bank 30 ft upstream from culvert on State Highway 28, 1,000 ft upstream from Lake Tahoe, and 2.8 miles northeast of Tahoe City.

DRAINAGE AREA.--1.07 sq mi.

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,310 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 32 cfs Apr. 27 (gage height, 2.02 ft), from rating curve extended above 8 cfs; no flow Aug. 1, 2, 19-22.
Period of record: Maximum discharge, 32 cfs Apr. 27, 1973 (gage height, 2.02 ft), from rating curve extended above 8 cfs; no flow Aug. 1, 2, 19-22, 1973.

REMARKS.--Records good except those for the period Apr. 25-29, which are poor. Regulation and diversion for local water supply at Dollar Reservoir and return flow from a storage tank just upstream from the station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.17	.39	.39	.55	.71	.91	7.8	1.1	.19	0	.02
2	.30	.17	.39	.39	.55	.67	.87	8.5	1.0	.19	0	.02
3	.19	.21	.39	.43	.55	.67	.95	9.2	.99	.19	.01	.02
4	.17	.70	.43	.43	.55	.67	1.2	7.2	.91	.19	.02	.02
5	.17	.47	.36	.43	.55	.63	1.6	4.6	.91	.17	.02	.02
6	.15	.39	.39	.43	.55	.63	2.4	3.8	.83	.13	.01	.02
7	.17	.30	.43	.39	.55	.63	3.0	4.4	.75	.15	.01	.02
8	.21	.30	.39	.39	.55	.63	2.8	5.0	.36	.17	.01	.03
9	.21	.30	.39	.43	.55	.67	3.1	5.2	.19	.13	.02	.04
10	.21	.33	.39	.43	.59	.71	3.8	5.6	.19	.15	.02	.04
11	.21	.36	.39	.55	.55	.71	5.0	6.0	.21	.13	.01	.05
12	.21	.33	.39	.87	.51	.71	6.4	6.8	.30	.11	.01	.05
13	.19	.36	.39	.87	.51	.71	5.2	7.8	.43	.13	.01	.05
14	.21	.43	.39	.79	.51	.67	3.4	6.8	.43	.13	.01	.04
15	.24	.36	.39	.63	.47	.67	3.4	5.2	.39	.11	.01	.05
16	.24	.36	.43	.75	.51	.67	3.3	4.6	.43	.11	.01	.05
17	.24	.39	1.3	.69	.55	.71	3.6	3.8	.43	.11	.02	.06
18	.36	.36	1.2	.64	.59	.71	3.4	3.4	.39	.09	.01	.05
19	.33	.30	1.7	.59	.59	.71	3.0	2.8	.36	.05	0	.03
20	.36	.27	1.2	.59	.63	.75	3.0	2.2	.30	.06	0	.04
21	.27	.30	.99	.55	.63	.71	3.3	1.9	.27	.05	0	.05
22	.24	.30	1.1	.51	.63	.67	4.4	1.7	.27	.07	0	.09
23	.24	.30	.87	.51	.67	.67	6.8	1.4	.30	.05	.01	.15
24	.21	.30	.75	.51	.67	.71	9.2	1.4	.30	.03	.01	.17
25	.19	.36	.63	.51	.63	.83	11	1.2	.27	.02	.02	.15
26	.17	.39	.59	.51	.63	.99	14	1.2	.24	.02	.04	.11
27	.17	.43	.55	.51	.67	1.2	18	1.1	.27	.02	.04	.09
28	.21	.43	.55	.51	.71	1.1	20	.99	.30	.01	.02	.09
29	.24	.39	.47	.51	-----	1.0	14	.95	.27	.01	.02	.07
30	.21	.39	.43	.51	-----	.95	9.2	.83	.27	.01	.02	.09
31	.17	-----	.39	.55	-----	.95	-----	1.1	-----	.01	.02	-----
TOTAL	6.88	10.45	19.05	16.80	16.20	23.42	170.23	124.47	13.66	2.99	.41	1.78
MEAN	.22	.35	.61	.54	.58	.76	5.67	4.02	.46	.097	.013	.059
MAX	.36	.70	1.7	.87	.71	1.2	20	9.2	1.1	.19	.04	.17
MIN	.15	.17	.36	.39	.47	.63	.87	.83	.19	.01	0	.02
AC-FT	14	21	38	33	32	46	338	247	27	5.9	.8	3.5

WTR YR 1973 TOTAL 406.34 MEAN 1.11 MAX 20 MIN 0 AC-FT 806

PEAK DISCHARGE (BASE, 5 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-11	2100	1.83	7.2	5-13	2400	1.85	8.5
4-27	1830	2.02	32				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 Third Creek near Crystal Bay, Nev.

LOCATION.--Lat 39°14'26", long 119°56'44", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.16 N., R.18 E., Washoe County, on right bank 50 ft (15 m) upstream from culvert on Lakeshore Boulevard, 600 ft (183 m) upstream from mouth and 3 mi (5 km) east of Crystal Bay.

DRAINAGE AREA.--6.0 mi² (15.5 km²).

PERIOD OF RECORD.--October 1969 to Sept. 30, 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft (1,900.132 m) above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum discharge, 80 ft³/s (2.27 m³/s) May 16, gage height, 2.99 ft (0.91 m); maximum gage height, 3.77 ft (1.149 m) Jan. 23 (backwater from ice); minimum discharge, 1.0 ft³/s (0.028 m³/s) Sept. 13.

Period of record: Maximum discharge, 110 ft³/s (3.12 m³/s) June 26, 1971, gage height, 3.17 ft (0.966 m); maximum gage height, 3.77 ft (1.149 m) Jan. 23, 1973 (backwater from ice); minimum discharge, 0.65 ft³/s (0.018 m³/s) Sept. 18, 1972.

REMARKS.--Records good except those for periods of doubtful gage-height record, which are fair, and those for winter months, which are poor. One transmountain diversion to Washoe Valley.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.3	3.6	3.1	3.8	4.2	4.7	15	46	5.3	2.7	2.5
2	5.0	3.3	3.7	3.1	3.8	4.2	4.6	18	42	5.1	2.9	2.5
3	3.3	4.0	3.9	3.1	3.8	4.1	5.5	20	41	4.9	2.9	2.7
4	2.5	8.6	4.0	3.1	3.8	4.0	6.3	18	41	4.9	3.3	2.7
5	3.3	6.1	3.9	3.2	3.8	3.9	7.4	15	35	4.9	3.5	2.7
6	2.7	4.2	3.7	3.3	3.8	3.8	5.0	14	30	4.6	3.5	2.3
7	2.5	4.0	3.6	3.5	4.0	3.8	5.0	15	34	4.4	3.3	2.2
8	2.5	3.9	3.3	3.5	4.0	4.0	5.6	17	37	4.4	3.1	2.2
9	2.7	3.9	3.3	3.6	3.8	4.1	11	19	34	4.2	2.9	2.2
10	2.7	4.0	3.2	3.7	4.6	4.4	11	21	35	4.0	2.7	2.2
11	2.7	4.2	3.2	3.8	4.4	4.4	13	30	29	4.2	2.7	2.0
12	2.2	4.7	3.3	4.0	4.2	4.3	11	36	24	4.2	2.7	1.8
13	1.8	4.5	3.5	5.6	4.0	4.2	10	46	25	4.4	2.7	2.0
14	1.8	4.4	3.8	4.6	3.8	4.2	5.3	40	21	4.2	2.9	2.0
15	2.2	4.3	3.1	4.4	3.8	4.3	7.9	51	18	4.0	2.7	2.0
16	3.4	4.1	3.3	4.4	3.8	4.4	8.2	59	13	4.0	2.7	2.0
17	4.4	4.0	3.5	5.3	3.7	4.6	8.6	59	12	4.2	2.7	1.8
18	6.8	3.9	4.0	5.0	3.7	4.2	8.2	59	9.3	4.0	3.1	1.6
19	4.9	4.0	5.0	4.5	3.7	4.2	7.6	48	8.6	3.8	2.9	1.6
20	4.4	4.0	7.4	4.2	3.8	4.2	7.6	52	9.0	3.5	2.9	1.6
21	3.8	3.7	6.9	4.0	4.0	4.1	8.2	44	7.9	3.5	2.7	1.6
22	3.5	3.5	6.6	4.0	4.0	4.0	10	45	7.1	3.3	2.9	1.6
23	3.5	3.5	5.8	4.1	4.0	4.1	12	46	6.9	3.3	2.7	1.8
24	3.1	3.6	5.1	4.2	4.0	4.9	14	41	6.9	3.1	2.7	2.0
25	2.3	4.0	4.5	4.2	4.0	5.6	13	48	6.6	2.9	2.7	2.2
26	2.7	4.3	4.2	4.0	4.0	5.3	17	45	6.6	2.9	3.1	2.2
27	3.5	4.4	4.2	4.0	4.0	5.3	20	39	6.1	2.9	2.7	2.2
28	3.3	4.3	3.8	4.0	4.2	4.9	20	58	5.8	2.7	2.5	2.2
29	3.2	4.1	3.6	4.0	-----	4.5	17	47	5.6	2.7	2.5	2.2
30	3.2	3.6	3.4	4.2	-----	4.4	15	42	5.3	3.1	2.5	2.2
31	3.2	-----	3.2	4.0	-----	4.9	-----	50	-----	2.7	2.5	-----
TOTAL	100.1	126.4	127.6	123.7	110.3	135.5	315.7	1,157	608.7	120.3	88.3	62.8
MEAN	3.23	4.21	4.12	3.99	3.94	4.37	10.5	37.3	20.3	3.88	2.85	2.09
MAX	6.8	8.6	7.4	5.6	4.6	5.6	20	59	46	5.3	3.5	2.7
MIN	1.8	3.3	3.1	3.1	3.7	3.8	4.6	14	5.3	2.7	2.5	1.6
AC-FT	199	251	253	245	219	269	626	2,290	1,210	239	175	125

CAL YR 1972 TOTAL 1,954.4 MEAN 5.34 MAX 26 MIN 1.0 AC-FT 3,880
WTR YR 1973 TOTAL 3,076.4 MEAN 8.43 MAX 59 MIN 1.6 AC-FT 6,100

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE	NOTE
5-16	2115	2.99	80	6-08	2000	2.81	48	NOTE.--Doubtful gage-height record May 15 to June 12
5-31	1500	3.04	74					

10336700 Incline Creek near Crystal Bay, Nev.

LOCATION.--Lat 39°14'25", long 119°56'38", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.16 N., R.18 E., Washoe County, on right bank 500 ft (150 m) upstream from culvert on Lakeshore Boulevard, 1,000 ft (300 m) upstream from mouth, just below confluence with major tributary, and 3 mi (5 km) east of Crystal Bay.

DRAINAGE AREA.--7.0 mi² (18.1 km²).

PERIOD OF RECORD.--October 1966 to September 1969 (operated as low-flow partial-record station only). October 1969 to Sept. 30, 1973 (discontinued as a continuous-record station, continued as a low-flow partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 6,246.90 ft (1,904.055 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 40 ft³/s (1.13 m³/s) May 31, gage height, 2.25 ft (0.686 m); maximum gage height, 3.42 ft (1.042 m) Dec. 7 (backwater from ice); minimum discharge, 1.7 ft³/s (0.048 m³/s) Sept. 20.
Period of record: Maximum discharge, 40 ft³/s (1.13 m³/s) May 31, 1973, gage height, 2.25 ft (0.686 m); maximum gage height, 3.42 ft (1.042 m) Dec. 7, 1972 (backwater from ice); minimum discharge, 1.5 ft³/s (0.042 m³/s) Aug. 11-13, 1972.

REMARKS.--Records good except those for winter periods, which are poor. No diversion above station. Possibly some light pumping or manipulation of water for construction.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	3.7	3.7	5.2	3.7	4.3	3.9	18	20	6.6	4.3	3.7
2	6.1	3.7	4.0	5.0	4.3	4.0	4.1	18	19	6.2	4.3	3.5
3	3.5	4.1	4.3	5.4	4.0	4.0	4.3	20	18	6.6	4.9	3.5
4	4.6	8.4	4.0	4.5	4.3	4.0	5.6	18	17	6.6	4.9	3.0
5	4.0	4.6	4.0	3.5	4.3	3.5	8.0	16	16	6.2	4.9	3.2
6	3.5	4.3	3.7	3.7	4.3	3.7	11	16	16	6.6	4.3	3.5
7	3.5	4.3	3.7	4.0	4.6	3.5	9.8	18	16	5.9	4.3	3.5
8	3.5	4.0	3.5	4.2	4.3	3.2	11	18	16	6.2	4.0	3.5
9	3.5	4.0	3.1	4.9	4.3	3.5	12	18	14	5.6	4.3	3.5
10	3.7	4.3	3.0	4.6	4.6	3.7	14	20	14	5.2	4.3	3.5
11	3.5	4.6	2.8	5.2	4.3	3.7	16	21	14	5.2	4.3	3.5
12	3.5	5.2	2.8	7.0	4.0	3.7	15	23	12	5.2	4.0	3.2
13	3.2	4.6	2.8	6.6	4.0	3.0	13	24	11	5.6	3.7	3.2
14	3.2	4.6	3.0	5.6	4.0	3.0	12	25	11	5.9	3.7	3.0
15	3.5	4.6	3.2	5.6	4.0	2.9	9.8	25	11	5.9	3.5	3.5
16	4.3	4.3	3.2	6.2	4.3	3.7	9.8	26	10	5.9	3.5	3.5
17	4.3	4.3	7.3	5.2	4.3	3.5	10	26	9.8	5.6	3.7	3.2
18	7.6	4.0	12	5.0	4.3	3.0	9.8	25	9.0	5.2	3.7	3.5
19	5.2	4.3	14	4.5	3.7	3.5	9.8	25	9.0	4.9	4.0	3.5
20	4.9	4.0	9.0	3.7	3.9	3.2	9.8	23	8.7	5.2	4.0	2.7
21	4.3	3.7	8.7	3.9	4.3	3.2	11	23	9.0	5.6	3.5	3.5
22	4.0	3.7	8.7	4.2	4.0	3.2	13	22	8.7	5.6	3.7	3.5
23	3.7	3.5	6.6	4.3	4.6	3.5	16	22	8.0	4.6	3.7	3.7
24	3.5	3.7	6.2	4.6	4.6	4.3	16	21	8.0	4.6	3.7	3.7
25	3.7	4.3	5.9	4.6	4.3	4.9	18	20	7.6	4.6	4.0	3.5
26	3.7	4.6	5.6	4.3	3.7	5.6	20	18	7.6	4.6	4.9	3.5
27	3.7	4.6	5.9	4.0	4.3	5.2	21	18	7.6	4.9	4.3	3.7
28	3.7	4.6	5.8	4.6	6.2	4.3	22	18	7.3	5.2	3.7	3.7
29	3.5	4.3	5.2	4.3	-----	3.9	19	18	7.0	5.2	3.7	3.7
30	3.2	3.7	5.4	4.3	-----	4.0	18	18	6.6	4.9	3.5	3.7
31	3.2	-----	6.6	4.3	-----	4.3	-----	21	-----	4.6	3.7	-----
TOTAL	124.9	130.6	167.7	147.0	119.5	117.0	372.7	642	348.9	170.7	125.0	103.4
MEAN	4.03	4.35	5.41	4.74	4.27	3.77	12.4	20.7	11.6	5.51	4.03	3.45
MAX	7.6	8.4	14	7.0	6.2	5.6	22	26	20	6.6	4.9	3.7
MIN	3.2	3.5	2.8	3.5	3.7	2.9	3.9	16	6.6	4.6	3.5	2.7
AC-FT	248	259	333	292	237	232	739	1,270	692	339	248	205

CAL YR 1972 TOTAL 1,896.8 MEAN 5.18 MAX 14 MIN 2.1 AC-FT 3,760
WTR YR 1973 TOTAL 2,569.4 MEAN 7.04 MAX 26 MIN 2.7 AC-FT 5,100

Peak discharge (base, 30 cfs).--May 18 (0830) 33 cfs (2.20 ft); May 31 (1400) 40 cfs (2.25 ft).

PYRAMID AND WINNEMUCCA LAKES BASIN

10336730 Glenbrook Creek at Glenbrook, Nev.

LOCATION.--Lat 39°05'15", long 119°56'20", in SW 1/4 NE 1/4 sec.10, T.14 N., R.18 E., Douglas County, on left bank 50 ft (15 m) upstream from culvert at gas station, 100 ft (30 m) upstream from mouth, at Glenbrook.

DRAINAGE AREA.--4.07 mi² (10.54 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 6.7 ft³/s (0.19 m³/s) May 12, gage height, 1.51 ft (0.460 m); minimum, 0.09 ft³/s (0.003 m³/s) Aug. 16, 17.

Period record: Maximum discharge, 6.7 ft³/s (0.19 m³/s) May 12, 1973, gage height 1.51 ft (0.460 m); minimum 0.09 ft³/s (0.003 m³/s) July 18, 1972, Aug. 16, 17, 1973.

REMARKS.--Records good. Flow may be affected by pumping or diverting for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.7	.94	.94	1.4	1.5	1.5	4.4	2.5	.50	.24	.45
2	1.4	1.8	.94	1.1	1.4	1.5	1.7	4.5	1.8	.45	.24	.50
3	.80	2.0	1.1	1.1	1.4	1.5	1.8	4.9	1.7	.40	.18	.58
4	.80	2.3	.94	.94	1.4	1.5	2.3	4.5	1.7	.40	.20	.45
5	.94	1.2	.94	.94	1.4	1.4	2.8	3.8	1.5	.40	.24	.45
6	.68	.94	.94	.94	1.4	1.4	3.6	4.5	1.1	.50	.22	.50
7	.68	.94	.94	.94	1.4	1.4	3.6	4.2	1.2	.50	.22	.45
8	.80	.94	.94	.94	1.4	1.4	3.6	4.5	1.2	.50	.22	.45
9	.80	.80	.80	.94	1.4	1.4	3.8	4.5	1.4	.50	.22	.50
10	.80	.94	.80	.94	1.4	1.5	4.0	4.9	1.5	.68	.24	.45
11	.94	.94	.80	1.8	1.4	1.5	4.4	5.5	1.5	.68	.24	.45
12	.68	.94	.94	4.4	1.4	1.5	4.2	5.5	1.5	.68	.22	.40
13	.68	.94	.80	2.6	1.4	1.4	4.0	5.7	1.4	.45	.22	.35
14	.68	1.1	.80	2.0	1.4	1.4	3.6	5.5	1.2	.45	.22	.40
15	.68	.94	.80	1.8	1.4	1.2	3.3	5.5	1.1	.40	.22	.45
16	.76	.94	.94	2.5	1.4	1.5	3.3	5.3	1.1	.35	.18	.45
17	1.1	.94	2.8	1.8	1.4	1.5	3.5	5.1	1.1	.35	.12	.45
18	1.5	.94	2.3	1.5	1.4	1.4	3.3	5.1	1.1	.35	.15	.40
19	1.1	.94	3.5	1.4	1.5	1.5	3.1	4.5	1.1	.40	.18	.45
20	1.2	.80	2.3	1.4	1.5	1.5	2.8	4.2	.94	.35	.20	.40
21	1.1	.80	1.8	1.4	1.5	1.4	2.8	4.0	.94	.30	.22	.45
22	.94	.94	2.1	1.2	1.7	1.2	3.1	3.8	.94	.35	.24	.45
23	.80	.80	1.7	1.2	1.7	1.2	3.6	3.6	.94	.35	.24	.45
24	.94	.94	1.5	1.2	1.7	1.5	3.8	3.1	.94	.30	.35	.45
25	1.1	1.1	1.4	1.2	1.7	1.8	4.2	3.1	.94	.30	.45	.50
26	1.1	1.1	1.2	1.4	1.7	2.1	4.7	2.8	.80	.35	1.1	.50
27	1.2	1.1	1.2	1.4	1.7	2.3	4.9	2.5	.80	.35	.58	.58
28	1.4	1.1	.94	1.4	1.7	1.8	5.3	2.3	.80	.35	.45	.58
29	1.5	1.1	.80	1.4	-----	1.5	4.9	2.1	.58	.27	.45	.50
30	1.7	1.1	1.1	1.4	-----	1.5	4.4	1.8	.58	.27	.45	.50
31	1.7	-----	.94	1.4	-----	1.7	-----	2.8	-----	.27	.40	-----
TOTAL	31.39	33.06	39.94	45.52	41.6	46.9	105.9	128.5	35.90	12.75	9.10	13.94
MEAN	1.01	1.10	1.29	1.47	1.49	1.51	3.53	4.15	1.20	.41	.29	.46
MAX	1.7	2.3	3.5	4.4	1.7	2.3	5.3	5.7	2.5	.68	1.1	.58
MIN	.68	.80	.80	.94	1.4	1.2	1.5	1.8	.58	.27	.12	.35
AC-FT	62	66	79	90	83	93	210	255	71	25	18	28

CAL YR 1972 TOTAL 425.41 MEAN 1.16 MAX 4.4 MIN .15 AC-FT 844
 WTR YR 1973 TOTAL 544.50 MEAN 1.49 MAX 5.7 MIN .12 AC-FT 1,080

PEAK DISCHARGE (BASE, 5.0 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-18	2330	1.45	5.1	5-12	1830	1.51	6.7
1-12	0530	1.43	5.1	5-31	1500	1.50	6.1
4-27	2030	1.48	5.9				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10336780 TROUT CREEK NEAR TAHOE VALLEY, CALIF.

LOCATION.--Lat 38°55'12", long 119°58'17", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.12 N., R.18 E., El Dorado County, on left bank 5 ft upstream from Martin Avenue Bridge, 500 ft upstream from Heavenly Valley Creek, and 1.8 miles east of Tahoe Valley.

DRAINAGE AREA.--36.7 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 37.4 cfs (27,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 176 cfs May 31 (gage height, 8.43 ft); minimum, 10 cfs Dec. 6-10. Period of record: Maximum discharge, 535 cfs Feb. 1, 1963 (gage height, 11.14 ft), from rating curve extended above 110 cfs on basis of computation of peak flow (weir formula) and logarithmic projection; no flow for part of Sept. 11, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Minor diversion for local water supply.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	14	18	20	20	21	59	155	51	33	18
2	24	16	14	18	20	19	22	65	140	49	31	18
3	20	15	13	18	19	18	19	70	136	47	27	18
4	15	27	12	18	19	18	22	70	128	46	34	18
5	16	20	11	17	19	18	25	61	127	45	29	18
6	16	18	10	16	19	19	31	58	128	44	26	18
7	16	19	10	16	19	19	34	62	127	43	25	17
8	17	18	10	16	19	18	32	67	126	42	23	16
9	16	18	10	16	18	20	36	71	128	39	22	16
10	16	18	10	16	18	19	38	79	128	38	22	16
11	16	18	11	24	18	20	42	89	126	37	21	16
12	15	17	11	68	18	20	44	96	117	37	20	16
13	15	17	12	46	18	18	41	104	110	36	20	16
14	14	19	12	32	18	21	36	112	103	37	19	16
15	14	18	13	31	18	25	35	116	95	36	19	16
16	16	18	27	29	18	22	35	123	88	37	18	16
17	16	17	44	27	18	19	39	131	82	38	17	16
18	20	16	55	26	18	22	38	134	77	36	17	16
19	19	15	63	26	18	20	37	133	72	36	18	16
20	23	15	39	26	18	18	34	133	70	33	20	17
21	20	15	29	26	18	18	35	128	68	33	20	16
22	18	14	32	26	18	17	39	124	67	33	19	16
23	18	14	26	26	19	17	47	124	67	32	20	17
24	16	14	23	27	19	18	52	127	64	31	21	17
25	15	14	21	22	19	21	57	122	61	31	20	17
26	16	14	21	21	22	23	61	112	59	32	22	16
27	15	14	20	20	20	23	65	112	59	34	26	15
28	15	14	18	20	20	21	71	119	58	33	21	15
29	13	14	18	20	-----	23	68	128	54	32	19	15
30	12	14	18	20	-----	20	63	137	52	31	18	15
31	17	-----	18	20	-----	20	-----	151	-----	32	18	-----
TOTAL	515	456	645	752	525	614	1,219	3,217	2,873	1,161	685	493
MEAN	16.6	16.5	20.8	24.3	18.8	19.8	40.6	104	95.8	37.5	22.1	16.4
MAX	24	27	63	68	22	25	71	151	155	51	34	18
MIN	12	14	10	16	18	17	19	58	52	31	17	15
AC-FT	1,020	984	1,280	1,490	1,040	1,220	2,420	6,380	5,700	2,300	1,360	978
CAL YR 1972	TOTAL 10,672	MEAN 29.2	MAX 94	MIN 10	AC-FT 21,170							
WTR YR 1973	TOTAL 13,195	MEAN 36.2	MAX 155	MIN 10	AC-FT 26,170							

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-20	0030	8.07	147	7-19	1300	7.74	123
5-31	2130	8.43	176				

PYRAMID AND WINNEMUCCA LAKES BASIN

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.

LOCATION.--Lat 38°55'56", long 119°58'40", in SE¼NW¼ sec.3, T.12 N., R.18 E., El Dorado County, on right bank on upstream side of U.S. Highway 50 bridge, 1.2 miles upstream from Lake Tahoe, and 1.9 miles northeast of South Lake Tahoe Post Office.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 190 cfs May 31 (gage height, 4.08 ft); minimum daily, 11 cfs Dec. 6-10.

Period of record: Maximum discharge, 190 cfs May 31, 1973 (gage height, 4.08 ft); minimum daily, 11 cfs Dec. 6-10, 1972.

REMARKS.--Records good except those for the winter periods, which are poor. Minor diversion for local water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	15	19	21	21	26	66	167	54	27	16
2	24	17	15	19	21	21	24	69	150	52	26	16
3	20	17	14	19	21	22	23	76	144	51	23	16
4	15	30	13	19	21	22	26	77	137	49	29	16
5	16	20	12	18	21	22	30	67	135	48	26	16
6	16	18	11	18	20	20	36	62	136	45	23	15
7	16	18	11	17	20	20	38	65	135	44	22	14
8	17	18	11	17	20	20	38	71	132	42	21	14
9	16	18	11	17	20	20	41	76	135	40	20	14
10	16	18	11	20	20	20	43	85	136	38	20	15
11	16	18	12	29	20	21	47	96	135	37	20	14
12	16	18	12	103	20	20	49	101	125	36	20	15
13	16	17	12	63	20	20	47	108	115	36	19	15
14	15	18	13	42	20	22	42	116	109	36	18	15
15	15	18	15	34	20	22	41	122	101	36	18	15
16	16	18	22	34	20	22	41	129	96	35	17	15
17	17	17	48	33	20	20	43	139	92	38	16	15
18	21	17	64	33	20	22	42	143	86	34	16	15
19	20	17	73	33	20	21	41	142	81	33	16	15
20	22	16	41	33	20	20	39	142	76	32	17	16
21	20	16	29	32	20	21	39	137	74	31	16	16
22	17	15	27	32	20	24	44	132	71	32	18	15
23	20	15	26	31	20	23	51	130	72	30	19	16
24	17	15	25	31	18	23	57	133	70	29	20	16
25	17	15	24	28	18	23	62	128	66	29	18	16
26	17	15	23	23	20	25	68	118	64	28	19	16
27	17	15	22	22	22	26	74	119	64	29	25	16
28	17	15	21	22	21	24	80	125	62	28	19	16
29	16	15	20	22	-----	24	76	134	58	28	17	16
30	15	15	19	22	-----	23	70	145	55	26	16	15
31	15	-----	19	22	-----	23	-----	160	-----	26	16	-----
TOTAL	533	515	691	907	564	677	1,378	3,413	3,079	1,132	617	460
MEAN	17.2	17.2	22.3	29.3	20.1	21.8	45.9	110	103	36.5	19.9	15.3
MAX	24	30	73	103	22	26	80	160	167	54	29	16
MIN	15	15	11	17	18	20	23	62	55	26	16	14
AC-FT	1,060	1,020	1,370	1,800	1,120	1,340	2,730	6,770	6,110	2,250	1,220	912

CAL YR 1972 TOTAL 11,705 MEAN 32.0 MAX 109 MIN 11 AC-FT 23,220

WTR YR 1973 TOTAL 13,966 MEAN 38.3 MAX 167 MIN 11 AC-FT 27,700

PEAK DISCHARGE (BASE, 100 CFS).--Jan. 12 (1500) 135 cfs (3.57 ft); May 31 (2400) 190 cfs (4.08 ft).

PYRAMID AND WINNEMUCCA LAKES BASIN

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10337000 Lake Tahoe at Tahoe City, Calif.

LOCATION.--Lat 39°10'50", long 120°06'55", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.15 N., R.17 E., Placer County, on U.S. Coast Guard pier at Lake Forest and 1.8 mi (2.9 km) northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--505 mi² (1,308 km²) at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Month-end elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe".

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft (1,895.856 m) above mean sea level, datum of Bureau of Reclamation 6,218.86 ft (1,895.508 m), datum of 1929, supplementary adjustment of 1959. Prior to Oct. 1, 1957, nonrecording gages at several sites near outlet of lake at same datum. Oct. 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958 to Sept. 30, 1968, water-stage recorder on pier, 1,000 ft (300 m) east of dam at lake outlet.

EXTREMES.--Current year: Maximum elevation, 6,231.26 ft (1,899.288 m) June 12, 13; minimum, 6,226.55 ft (1,896.8 m) Dec. 14-16. Period of record: Maximum elevation, 6,231.26 ft (1,899.288 m) July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft (1,896.386 m) Dec. 26, 1934.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Figures given herein represent usable contents. Usable capacity, 744,600 acre-ft (918 hm³) between elevations 6,223 (1,896.8 m), natural rim of lake, and 6,229.1 ft (1,898.63 m), maximum permissible elevation by Federal Court decree. Water is used for domestic and recreational purposes in Lake Tahoe area and for irrigation and power in downstream areas. 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. One intermittent transmountain diversion from Echo Lake to South Fork American River for power and irrigation. Since October 1968 some sewage has been transported out of the basin into Carson River basin.

REVISIONS.--WRD 1967: Drainage area.

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

6,226	364,800	6,228	609,300
6,227	486,800	6,229	732,300

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.00	6.67	6.59	6.73	7.25	7.50	7.43	7.64	8.49	8.57	8.25	7.65
2	7.00	6.66	6.59	6.73	7.25	7.50	7.44	7.65	8.50	8.56	8.24	7.63
3	6.98	6.69	6.63	6.72	7.25	7.52	7.43	7.65	8.54	8.57	8.22	7.61
4	6.94	6.76	6.61	6.70	7.25	7.52	7.42	7.69	8.54	8.56	8.23	7.59
5	6.98	6.74	6.61	6.70	7.26	7.50	7.42	7.70	8.55	8.55	8.19	7.57
6	6.95	6.72	6.64	6.69	7.28	7.50	7.43	7.71	8.56	8.54	8.18	7.55
7	6.96	6.74	6.65	6.68	7.30	7.50	7.42	7.72	8.58	8.52	8.15	7.54
8	6.94	6.70	6.62	6.73	7.30	7.50	7.43	7.74	8.60	8.51	8.14	7.51
9	6.92	6.67	6.61	6.75	7.29	7.49	7.43	7.75	8.60	8.52	8.11	7.47
10	6.91	6.70	6.60	6.76	7.24	7.52	7.44	7.78	8.60	8.50	8.10	7.45
11	6.90	6.70	6.57	6.87	7.46	7.53	7.44	7.80	8.61	8.51	8.10	7.44
12	6.87	6.67	6.57	6.95	7.47	7.52	7.41	7.85	8.61	8.49	8.07	7.43
13	6.87	6.74	6.56	6.97	7.47	7.51	7.46	7.88	8.61	8.48	8.06	7.40
14	6.86	6.73	6.55	6.98	7.47	7.49	7.48	7.92	8.61	8.48	8.05	7.39
15	6.86	6.73	6.56	6.95	7.46	7.50	7.49	7.95	8.60	8.47	8.03	7.36
16	6.86	6.72	6.57	7.10	7.45	7.46	7.45	8.00	8.60	8.46	8.01	7.36
17	6.88	6.71	6.61	7.14	7.45	7.48	7.47	8.05	8.60	8.45	7.95	7.32
18	6.89	6.69	6.66	7.24	7.44	7.48	7.48	8.09	8.60	8.43	7.95	7.32
19	6.89	6.69	6.70	7.24	7.45	7.44	7.48	8.12	8.59	8.40	7.89	7.31
20	6.88	6.67	6.71	7.24	7.43	7.45	7.45	8.16	8.60	8.39	7.88	7.30
21	6.88	6.67	6.77	7.24	7.43	7.47	7.49	8.19	8.60	8.37	7.86	7.25
22	6.88	6.66	6.76	7.24	7.43	7.46	7.49	8.22	8.60	8.35	7.83	7.24
23	6.87	6.64	6.78	7.24	7.40	7.45	7.49	8.23	8.58	8.33	7.81	7.20
24	6.85	6.63	6.78	7.21	7.39	7.45	7.51	8.27	8.59	8.34	7.73	7.20
25	6.83	6.63	6.78	7.24	7.42	7.45	7.53	8.28	8.59	8.33	7.75	7.16
26	6.82	6.62	6.79	7.23	7.45	7.44	7.55	8.30	8.60	8.32	7.74	7.15
27	6.78	6.62	6.78	7.24	7.52	7.44	7.58	8.33	8.60	8.30	7.75	7.12
28	6.75	6.61	6.78	7.23	7.50	7.43	7.58	8.35	8.60	8.30	7.72	7.12
29	6.77	6.60	6.76	7.23	-----	7.44	7.61	8.36	8.57	8.28	7.72	7.10
30	6.70	6.59	6.75	7.25	-----	7.43	7.63	8.40	8.56	8.28	7.69	7.07
31	6.70	-----	6.75	7.24	-----	7.44	-----	8.45	-----	8.26	7.69	-----
MEAN	6.88	6.68	6.67	7.01	7.39	7.48	7.48	8.01	8.58	8.43	7.97	7.36
MAX	7.00	6.76	6.79	7.25	7.52	7.53	7.63	8.45	8.61	8.57	8.25	7.65
MIN	6.70	6.59	6.55	6.68	7.25	7.43	7.41	7.64	8.49	8.26	7.69	7.07
(+)	6,226.70	6,226.59	6,226.75	6,227.24	6,227.50	6,227.44	6,227.63	6,228.45	6,228.56	6,228.26	6,227.69	6,227.07
(+)	-31,700	-13,400	+19,500	+59,900	+31,800	-7,300	+23,300	+100,600	+13,600	-36,900	-69,900	-76,100

CAL YR 1972 MAX 8.65 MIN 6.55 ±77,100

WTR YR 1973 MAX 8.61 MIN 6.55 ±13,400

† CONTENTS, IN ACRE-FEET, AT END OF MONTH.

* CHANGE IN CONTENTS, IN ACRE-FEET.

NOTE.--Add 6,220 ft to obtain elevation above mean sea level, Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

10337500 Truckee River at Tahoe City, Calif.

LOCATION.--Lat 39°10'00", long 120°08'40", in NE $\frac{1}{4}$ -NW $\frac{1}{4}$ sec.7, T.15 N., R.17 E., Placer County, on left bank 510 ft (155 m) downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--506 mi² (1,311 km²).

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe".

GAGE.--Water-stage recorder. Datum of gage is 6,216.75 ft (1,894.865 m) above mean sea level, datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft (113 m) upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft (0.689 m) higher, and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft (0.738 m) higher; all at site 270 ft (82 m) upstream.

AVERAGE DISCHARGE.--73 years (1900-73), 246 ft³/s (6.967 m³/s), 178,200 acre-ft/yr (220 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 428 ft³/s (12.1 m³/s) Aug. 26, gage height, 4.46 ft (1.359 m); minimum daily, 58 ft³/s (1.64 m³/s) Jan. 17 to Feb. 9.

Period of record: Maximum discharge, 2,630 ft³/s (74.5 m³/s) June 19, 1969, gage height, 9.32 ft (2.841 m); no flow for parts of many years.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft (918 hm³).

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	262	230	61	58	215	182	70	72	69	407	394
2	75	270	230	61	58	215	169	70	71	129	407	394
3	73	290	230	102	58	215	133	70	71	186	409	391
4	76	307	228	128	58	215	98	70	70	204	409	394
5	76	303	228	177	58	228	75	70	70	206	407	391
6	75	286	215	217	58	238	76	70	69	206	407	391
7	76	274	204	215	58	264	75	70	74	204	407	391
8	76	274	204	215	58	282	75	70	77	202	407	389
9	76	274	208	228	58	282	75	70	78	239	407	389
10	76	274	210	242	59	282	76	71	77	262	404	386
11	92	274	208	244	59	282	77	71	78	262	402	386
12	105	274	206	166	59	264	77	71	80	262	402	386
13	105	272	206	105	59	246	76	71	80	262	399	389
14	105	274	206	103	59	248	76	71	77	262	396	391
15	105	264	206	76	59	248	76	71	77	264	396	391
16	105	254	206	59	68	250	75	71	75	286	396	391
17	105	254	210	58	77	250	76	72	71	330	409	391
18	90	254	211	58	77	250	75	72	71	350	420	391
19	73	252	135	58	94	250	74	73	72	350	422	389
20	73	252	62	58	125	248	73	73	72	350	422	389
21	73	252	62	58	144	248	73	73	70	350	422	389
22	73	252	63	59	155	248	74	73	70	350	422	389
23	80	252	61	58	156	248	75	72	70	350	420	386
24	111	254	61	58	156	248	75	72	71	348	420	386
25	171	254	61	58	155	248	76	72	71	383	420	384
26	233	252	61	58	170	248	75	72	71	407	420	384
27	252	242	61	58	180	248	74	71	73	407	404	389
28	250	236	61	58	200	238	73	71	70	407	396	362
29	250	232	61	58	-----	215	72	71	70	407	396	340
30	250	230	61	58	-----	193	71	71	70	407	394	340
31	250	-----	61	58	-----	182	-----	71	-----	407	394	-----
TOTAL	3,724	7,894	4,717	3,270	2,633	7,536	2,527	2,206	2,188	9,108	12,643	11,553
MEAN	120	263	152	105	94.0	243	84.2	71.2	72.9	294	408	385
MAX	252	307	230	244	200	282	182	73	80	407	422	394
MIN	73	230	61	58	58	182	71	70	69	69	394	340
AC-FT	7,390	15,660	9,360	6,490	5,220	14,950	5,010	4,380	4,340	18,070	25,080	22,920
CAL YR 1972	TOTAL	72,669	MEAN	199	MAX	422	MIN	61	AC-FT	144,100		
WTR YR 1973	TOTAL	69,999	MEAN	192	MAX	422	MIN	58	AC-FT	138,800		

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	22	14	44	37	30	30	148	68	7.2	1.8	2.1
2	61	21	13	41	35	29	29	146	76	6.8	1.5	2.0
3	76	20	12	40	34	29	29	62	76	6.8	1.3	1.8
4	96	29	12	38	34	30	29	8.0	58	5.3	1.1	4.8
5	89	31	11	36	33	29	29	7.6	25	3.8	1.3	10
6	82	29	12	34	32	29	32	6.4	10	3.5	1.1	10
7	81	29	14	33	33	29	36	6.4	17	3.2	2.6	9.3
8	79	27	15	32	31	28	38	6.8	29	2.7	4.3	9.0
9	78	26	15	34	31	27	43	17	37	2.7	4.1	8.8
10	87	24	15	33	33	27	49	24	37	2.7	3.9	8.8
11	153	24	15	34	34	29	56	37	36	2.5	3.5	8.8
12	174	24	15	51	34	28	65	49	34	2.5	3.0	8.8
13	158	23	15	62	32	27	72	50	34	2.7	3.1	7.8
14	144	24	14	63	31	26	73	52	29	2.2	2.6	7.3
15	128	23	14	62	30	26	73	72	19	2.3	2.3	6.6
16	132	23	14	72	29	26	72	99	11	2.0	2.4	6.3
17	142	21	23	76	28	26	73	122	9.7	1.7	2.1	7.0
18	132	21	35	76	26	26	70	182	8.4	1.8	2.0	21
19	112	20	58	75	26	25	65	201	5.7	1.6	1.9	32
20	94	20	73	69	26	26	63	204	4.6	3.2	1.8	32
21	81	18	73	65	25	26	62	174	3.5	5.3	1.7	32
22	69	18	82	60	25	26	63	139	2.7	5.2	1.1	31
23	60	17	84	55	25	25	69	96	2.5	5.0	.85	31
24	52	16	81	51	26	25	78	61	2.2	4.4	.80	31
25	46	15	75	48	26	25	96	81	1.8	3.9	.71	52
26	40	15	70	46	27	26	110	94	2.5	3.7	.57	69
27	36	15	65	43	29	27	82	94	2.7	3.7	.30	67
28	32	14	60	40	30	29	148	94	3.0	3.8	.45	66
29	29	14	55	38	-----	29	153	92	2.7	4.0	.50	63
30	26	14	51	40	-----	29	151	73	5.7	3.9	1.2	61
31	24	-----	47	38	-----	29	-----	56	-----	2.9	2.0	-----
TOTAL	2,656	637	1,152	1,529	842	848	2,038	2,554.2	653.7	113.0	57.88	707.2
MEAN	85.7	21.2	37.2	49.3	30.1	27.4	67.9	82.4	21.8	3.65	1.87	23.6
MAX	174	31	84	76	37	30	153	204	76	7.2	4.3	69
MIN	24	14	11	32	25	25	29	6.4	1.8	1.6	.30	1.8
AC=FT	5,270	1,260	2,280	3,030	1,670	1,680	4,040	5,070	1,300	224	115	1,400
CAL YR 1972	TOTAL	12,202.30	MEAN	33.3	MAX	174	MIN	1.0	AC=FT	24,200		
WTR YR 1973	TOTAL	13,787.98	MEAN	37.8	MAX	204	MIN	.30	AC=FT	27,350		

PYRAMID AND WINNEMUCCA LAKES BASIN

10339380 Martis Creek Lake near Truckee, Calif.

LOCATION.--Lat 39°19'38", long 120°06'48", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.17 N., R.17 E., Nevada County, in control house at Martis Creek Dam, 2.0 mi (3.2 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

PERIOD OF RECORD.--October 1971 to September 1972 (occasional readings only prior to June 15, 1972).

GAGE.--Water-stage recorder, two turbidity recording meters, and a precipitation recorder. Datum of gage is at mean sea level (Corps of Engineers datum).

EXTREMES.--Current year: Maximum contents, 3,220 acre-ft (3.97 hm³) Apr. 10, elevation, 5,799.99 ft (1,767.837 m); minimum, 827 acre-ft (1.02 hm³) on several days in August and September, elevation, 5,780.15 ft (1,761.790 m).

Period of record: Maximum contents, 3,220 acre-ft (3.97 hm³) Apr. 10, 1973, elevation, 5,799.99 ft (1,767.837 m); minimum (after storage began), 823 acre-ft (1.01 hm³) July 19, Aug. 1, 1972, elevation, 5,780.09 ft (1,761.771 m).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-feet (25.2 hm³) between elevations 5,745 ft (1,751.1 m), streambed elevation at dam, and 5,838 ft (1,779.4 m), elevation of spillway crest. Figures given herein represent total contents, which include 817 acre-feet (1.01 hm³) of inactive storage below elevation 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	837	834	835	835	843	854	2,170	911	862	830	829	829
2	836	834	835	836	845	841	2,210	913	855	831	829	829
3	833	837	840	837	845	840	2,270	914	851	831	829	829
4	831	861	837	835	843	837	2,380	911	848	831	829	829
5	831	845	834	835	844	837	2,490	904	845	830	831	829
6	829	839	836	835	845	835	2,660	896	843	830	829	828
7	830	840	835	835	842	831	2,820	898	842	830	829	828
8	830	837	835	836	842	830	2,970	899	840	830	828	828
9	830	835	835	837	838	947	3,140	896	838	829	828	829
10	829	835	836	836	837	1,000	2,980	899	838	829	828	829
11	829	837	836	845	837	1,060	2,730	903	838	829	828	829
12	829	837	836	917	841	1,130	2,410	902	837	829	828	827
13	829	844	836	894	840	1,170	2,070	905	838	831	827	827
14	829	848	835	863	840	1,210	1,720	913	838	831	827	827
15	832	844	835	867	840	1,260	1,370	911	837	831	828	828
16	832	841	836	1,070	840	1,280	1,020	910	837	831	829	829
17	832	839	864	1,070	841	1,330	913	907	836	831	829	829
18	840	837	885	1,040	841	1,370	901	908	837	831	829	829
19	837	837	904	962	843	1,420	893	899	836	829	829	829
20	837	835	872	880	844	1,460	891	891	836	829	829	830
21	835	837	879	860	845	1,490	894	884	836	829	831	830
22	834	833	899	853	846	1,530	900	879	835	829	832	830
23	833	834	864	851	848	1,590	908	873	835	829	833	831
24	833	835	853	843	849	1,600	913	871	835	829	832	831
25	833	836	848	843	850	1,670	917	868	835	829	832	832
26	832	837	848	845	851	1,760	924	865	834	828	841	831
27	833	836	845	846	852	1,850	932	861	832	828	837	831
28	833	836	841	850	853	1,920	931	857	832	829	834	831
29	833	835	840	848	-----	1,880	921	855	830	829	832	831
30	832	835	840	849	-----	2,030	912	853	829	828	830	831
31	834	-----	837	844	-----	2,090	-----	874	-----	829	829	-----
MAX	840	861	904	1,070	853	2,090	3,140	914	862	831	841	832
MIN	829	833	834	835	837	830	891	853	829	828	827	827
(†)	5,780.24	5,780.25	5,780.29	5,780.38	5,780.50	5,793.15	5,781.30	5,780.79	5,780.18	5,780.17	5,780.17	5,780.20
(*)	+2	+1	+2	+7	+9	+1,237	-1,178	-38	-45	0	0	+2

CAL YR 1972 MAX 904 MIN - †+837
WTR YR 1973 MAX 3,140 MIN 827 † -1

† ELEVATION, IN FEET, AT END OF MONTH.
* CHANGE IN CONTENTS, IN ACRE-FEET.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10339400 Martis Creek near Truckee, Calif.

LOCATION.--Lat 39°19'10", long 120°07'00", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.17 N., R.17 E., Nevada County, on left bank 0.2 mi (0.3 km) downstream from Martis Creek Lake Dam, 1.8 mi (2.9 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (1,747 m) from topographic map. Prior to July 10, 1972, at site 1.0 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--15 years, 24.0 ft³/s (0.680 m³/s), 17,390 acre-ft/yr (21.4 hm³), unadjusted.

EXTREMES.--Current year: Maximum discharge, 586 ft³/s (16.6 m³/s) Apr. 10, gage height, 5.93 ft (1.808 m); minimum, 0.88 ft³/s (0.025 m³/s) Aug. 21, (regulation at Martis Creek Lake Dam).
Period of record: Maximum discharge, 1,880 ft³/s (53.2 m³/s) Feb. 1, 1963, gage height, 6.16 ft (1.878 m); minimum, 0.46 ft³/s (0.013 m³/s) Oct. 21, 22, 1971, result of regulation at Martis Creek Lake Dam.

REMARKS.--Records good. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	10	10	11	16	28	7.5	94	40	9.6	7.8	8.4
2	11	10	11	12	17	28	7.1	94	30	9.6	7.6	9.0
3	9.7	11	12	13	17	26	7.5	99	26	10	7.6	9.0
4	9.4	29	13	12	17	25	7.5	100	23	9.6	7.6	9.0
5	9.0	22	11	11	16	23	7.8	91	21	9.6	8.7	8.7
6	9.0	14	11	12	16	23	7.5	78	20	9.6	8.7	8.4
7	8.6	13	11	11	17	12	7.8	74	18	9.6	8.1	8.1
8	9.0	12	10	11	16	3.0	7.8	78	18	9.3	7.8	8.1
9	9.0	11	10	12	16	3.2	9.7	78	16	9.3	7.6	8.1
10	8.6	11	10	12	18	3.4	166	75	16	9.3	7.3	8.4
11	8.6	12	10	14	18	3.2	232	82	15	9.0	7.6	8.4
12	8.6	12	10	50	16	3.8	266	88	15	9.0	7.8	8.1
13	8.6	13	10	63	16	4.1	275	98	15	9.3	7.8	8.1
14	8.6	20	10	42	15	4.1	273	99	14	9.3	7.6	7.8
15	9.4	16	10	32	15	4.1	262	95	14	9.3	7.6	7.8
16	9.4	15	11	57	15	4.1	252	92	13	9.3	7.3	8.1
17	10	14	20	66	16	4.5	143	87	13	9.3	7.0	8.4
18	14	12	35	65	16	4.5	87	84	12	9.3	7.0	8.4
19	13	12	62	65	16	4.5	75	79	12	8.7	7.6	8.7
20	12	11	49	63	16	4.8	67	68	12	8.4	7.8	8.4
21	12	11	35	37	16	5.1	66	58	11	8.4	7.4	8.4
22	11	11	62	27	16	5.7	71	51	11	8.4	8.1	8.4
23	10	10	40	23	16	5.7	83	46	11	8.4	7.6	8.4
24	10	10	25	23	18	5.7	94	41	10	8.1	7.6	8.7
25	10	11	18	23	18	6.1	102	40	10	8.1	8.1	8.7
26	9.7	12	17	21	18	6.4	111	35	10	7.6	11	8.4
27	9.7	12	17	18	22	6.7	126	32	10	7.6	13	8.4
28	10	12	16	19	27	7.1	132	30	11	7.6	11	8.7
29	9.7	11	13	18	-----	7.1	125	28	10	7.8	9.6	8.4
30	9.4	11	13	20	-----	7.1	106	26	11	7.8	9.0	8.4
31	9.4	-----	13	19	-----	7.5	-----	33	-----	7.6	8.7	-----
TOTAL	305.4	391	605	882	476	286.5	3,189.2	2,153	468	273.8	255.0	252.3
MEAN	9.85	13.0	19.5	28.5	17.0	9.24	106	69.5	15.6	8.83	8.23	8.41
MAX	14	29	62	66	27	28	279	100	40	10	13	9.0
MIN	8.6	10	10	11	15	3.0	7.1	26	10	7.6	7.0	7.8
AC-FT	606	776	1,200	1,750	944	568	6,330	4,270	928	543	506	500

CAL YR 1972 TOTAL 6,383.3 MEAN 17.4 MAX 95 MIN 1.3 AC-FT 12,660
WTR YR 1973 TOTAL 9,537.2 MEAN 26.1 MAX 279 MIN 3.0 AC-FT 18,920

PYRAMID AND WINNEMUCCA LAKES BASIN

10339900 Alder Creek near Truckee, Calif.

LOCATION.--Lat 39°22'07", long 120°10'54", in SE 1/4 sec. 34, T.18 N., R.16 E., Nevada County, on right bank 0.6 mi (1.0 km) upstream from Prosser Creek Reservoir and 2.5 mi (4.0 km) north of Truckee.

DRAINAGE AREA.--7.47 mi² (19.35 km²).

PERIOD OF RECORD.--October 1958 to September 1969, October 1970 to Sept. 30, 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,800 ft (1,768 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 9.20 ft³/s (0.261 m³/s), 6,670 acre-ft/yr (8.22 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 99 ft³/s (2.80 m³/s) Apr. 26, gage height, 241 ft (0.735 m); minimum, 0.24 ft³/s (0.007 m³/s) Sept. 15.

Period of record: Maximum discharge, 730 ft³/s (20.7 m³/s) Jan. 31, 1963, gage height, 5.86 ft (1.786 m) from rating curve extended above 36 ft³/s (1.02 m³/s) on basis of computation of peak flow through culvert; no flow for some periods in most years.

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

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.8	1.7	3.4	3.4	4.8	8.8	51	28	3.3	1.6	.96
2	1.8	1.7	2.2	3.1	3.1	4.8	8.3	53	24	2.8	1.6	.90
3	1.6	1.9	1.6	2.2	3.1	4.8	8.0	55	21	2.7	1.6	.90
4	1.6	7.4	1.9	2.1	3.0	5.0	9.6	49	18	2.8	1.6	.80
5	1.6	3.8	1.6	1.4	2.8	4.8	13	41	16	2.5	1.8	.78
6	1.6	2.7	1.5	1.3	2.8	4.8	21	41	14	2.4	1.6	.69
7	1.7	2.4	1.5	1.2	3.0	4.8	27	44	13	2.4	1.5	.71
8	1.7	2.1	1.5	1.1	2.6	4.8	29	46	12	2.4	1.6	.56
9	1.6	2.2	1.4	1.0	2.6	4.8	33	46	11	2.2	1.5	.54
10	2.0	2.1	1.3	1.4	3.2	5.0	36	47	11	2.0	1.5	.46
11	2.0	2.0	1.5	1.1	3.2	5.2	40	48	10	1.9	1.5	.36
12	1.7	1.9	1.3	.64	2.8	5.2	43	48	9.0	1.9	1.5	.36
13	1.5	1.9	1.4	.55	2.8	5.0	40	49	8.0	2.1	1.4	.32
14	1.5	2.0	1.5	.16	2.8	5.0	36	49	7.2	2.1	1.4	.28
15	1.5	1.9	1.5	9.0	2.8	5.3	37	49	6.9	2.2	1.4	.27
16	1.5	1.9	2.3	1.1	3.2	4.9	37	48	6.7	2.0	1.3	.28
17	1.6	1.7	3.1	9.9	3.5	5.2	38	47	6.4	2.0	1.3	.30
18	2.3	2.0	1.9	7.9	3.7	5.4	35	46	5.9	1.9	1.3	.28
19	1.9	1.7	.58	9.1	4.3	5.2	32	43	5.2	1.8	1.2	.32
20	1.7	2.1	13	9.0	4.0	5.1	30	40	5.0	1.8	1.2	.34
21	1.6	2.6	8.7	7.6	3.8	5.0	30	37	4.7	1.7	1.2	.41
22	1.6	2.0	18	8.0	3.5	4.7	35	35	4.5	2.0	1.2	.58
23	1.6	2.4	8.7	7.0	3.5	4.8	43	33	4.6	1.8	1.1	.62
24	1.6	1.9	5.6	6.0	4.0	5.1	46	32	4.5	1.6	1.1	.77
25	1.6	2.0	5.6	4.4	3.7	5.9	49	31	4.1	1.6	1.2	.85
26	1.6	1.9	8.0	4.2	3.8	7.6	59	28	3.9	1.6	1.5	.94
27	1.6	1.7	5.6	5.5	4.2	10	68	25	3.7	1.7	1.6	.94
28	1.7	1.7	3.7	4.4	4.6	10	65	23	3.6	1.7	1.2	.93
29	1.7	2.1	4.6	3.7	-----	9.4	57	22	3.2	1.9	1.1	.94
30	1.7	1.7	3.0	4.4	-----	9.0	53	22	3.1	1.7	.99	.94
31	1.8	-----	3.7	3.5	-----	9.1	-----	26	-----	1.6	.92	-----
TOTAL	52.1	67.2	173.8	256.8	93.8	180.5	1,066.7	1,254	278.2	64.1	42.51	18.33
MEAN	1.68	2.24	5.61	8.28	3.35	5.82	35.6	40.5	9.27	2.07	1.37	.61
MAX	2.3	7.4	38	64	4.6	10	68	55	28	3.3	1.8	.96
MIN	1.5	1.7	1.5	1.0	2.6	4.7	8.0	22	3.1	1.6	.92	.27
AC-FT	103	133	345	509	186	358	2,120	2,490	552	127	84	36

CAL YR 1972 TOTAL 2,524.18 MEAN 6.90 MAX 38 MIN .43 AC-FT 5,010
 WTR YR 1973 TOTAL 3,548.04 MEAN 9.72 MAX 68 MIN .27 AC-FT 7,040

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-19	0200	1.98	55	4-11	1900	1.91	48
12-22	0600	1.56	25	4-26	1900	2.41	99
1-12	1600	2.24	84	5-31	1700	1.68	31

NOTE.--No gage-height record Dec. 9 to Jan. 15.

10340300 Prosser Creek Reservoir near Boca, Calif.

LOCATION.--Lat 39°22'45", long 120°08'25", in NW¹₄SW¹₄ sec.30, T.18 N., R.17 E., Nevada County, in control house at Prosser Creek Dam on Prosser Creek, 1.5 mi (2.4 km) upstream from mouth, and 3 mi (5 km) west of Boca.

DRAINAGE AREA.--50.5 mi² (130.8 km²).

PERIOD OF RECORD.--January 1963 to current year.

GAGE.--Water-stage recorder with surface follower and telemark. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 31,070 acre-ft (38.3 hm³) June 1, elevation, 5,744.33 ft (1,750.872 m); minimum observed, 7,190 acre-ft (8.87 hm³) Dec. 27, elevation 5,699.18 ft (1,737.110 m).

Period of record: Maximum contents observed, 31,070 acre-ft (38.3 hm³) June 1, 1973, elevation, 5,744.33 ft (1,750.872 m); minimum observed, 1,350 acre-ft (1.66 hm³) Apr. 9, 1969, elevation, 5,672.30 ft (1,728.917 m).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft (35.3 hm³) between elevations, 5,660.6 (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm³), includes 83 acre-ft (102,000 m³) dead storage, below elevation 5,660.6 ft (1,725.35 m). Elevation of stream bed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
Sept.30	5,713.91	12,580	---
Oct. 31	5,701.73	7,980	-4,600
Nov. 30	5,701.50	7,910	-70
Dec. 31	5,700.43	7,570	-340
CAL YR 1972	---	---	-560
Jan. 31	5,701.23	7,820	+250
Feb. 28	5,701.41	7,880	+60
Mar. 31	5,702.76	8,320	+440
Apr. 30	5,726.77	19,100	+10,780
May 31	5,744.20	30,960	+11,860
June 30	5,742.43	29,580	-1,380
July 31	5,741.45	28,830	-750
Aug. 31	5,739.61	27,460	-1,370
Sept.30	5,709.07	10,580	-16,880
WTR YR 1973	---	---	-2,000

10340500 Prosser Creek near Boca, Calif.

LOCATION.--Lat 39°22'10", long 120°07'10", in SW¹/₄NW¹/₄ sec.32, T.18 N., R.17 E., Nevada County, on left bank 0.2 mi (0.3 km) upstream from mouth, 1.0 mi (1.6 km) downstream from Prosser Creek Dam, and 2 mi (3 km) southwest of Boca.

DRAINAGE AREA.--53.6 mi² (138.8 km²) .

PERIOD OF RECORD.--October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Pt. 2, have been found to be unreliable and should not be used. Monthly discharge only for October 1942 to December 1950, published in WSP 1734.

GAGE.--Water-stage recorder. Datum of gage is 5,572.62 ft (1,698.535 m) above mean sea level (levels by Bureau of Reclamation). April 1889 to November 1890 and October 1902 to June 1903, nonrecording gages at same site at different datums. October 1942 to December 1950, water-stage recorder at approximately same site at different datum. June 1951 to September 1956, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE,--30 years (1942-50, 1951-73), 86.9 ft³/s (2.461 m³/s) 62,960 acre-ft/yr (77.6 hm³/yr). Adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 360 ft³/s (10.2 m³/s) Dec. 20, gage height, 3.72 ft (1.134 m); minimum daily, 11 ft³/s (0.31 m³/s) Dec. 28, 31.

Period of record: Maximum discharge, 4,560 ft^3/s (129 m^3/s) Dec. 23, 1955, gage height, 10.13 ft (3.088 m) present datum, from rating curve extended above 910 ft^3/s (25.8 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft (3.35 m), from floodmarks (present datum), Nov. 20, 1950, discharge, 4,320 ft^3/s (122 m^3/s), by slope-area measurement; minimum discharge, 0.4 ft^3/s (0.011 m^3/s) July 18, 1961, result of work on dam upstream.

REMARKS.--Records good. Flow regulated by Prosser Creek dam since Jan. 31, 1963.

REVISIONS.--WSP 2127: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	37	32	29	60	63	68	186	299	80	19	162
2	153	37	32	30	43	63	68	151	288	75	18	235
3	151	23	32	40	34	63	69	110	270	69	17	273
4	151	14	32	46	34	63	70	129	253	66	16	281
5	151	12	31	37	51	63	71	141	239	61	16	312
6	149	40	32	31	61	63	136	141	228	58	19	330
7	149	65	31	31	61	63	176	64	218	54	20	314
8	147	65	31	37	60	62	176	16	207	51	19	301
9	147	64	31	40	60	62	81	16	203	48	18	299
10	147	64	31	40	61	63	22	16	201	45	17	299
11	113	64	31	41	61	64	120	75	193	44	16	297
12	95	64	31	76	44	64	178	115	184	41	15	297
13	60	64	31	95	33	63	180	115	174	39	14	297
14	38	65	31	94	33	63	180	203	162	37	13	312
15	38	64	31	136	33	63	178	260	147	36	16	321
16	55	64	31	170	33	64	79	224	135	34	17	321
17	66	34	32	164	33	64	17	201	121	33	40	319
18	67	12	87	162	33	64	17	149	112	53	55	319
19	66	12	123	99	50	64	17	118	106	31	55	314
20	85	23	263	61	61	64	17	141	101	30	55	314
21	97	32	346	61	61	64	17	109	100	28	55	312
22	97	32	264	82	61	63	17	110	98	26	64	310
23	95	32	211	94	61	63	17	153	95	25	69	308
24	95	32	210	73	61	64	17	190	92	23	69	277
25	77	32	206	60	61	64	17	224	88	22	69	256
26	67	32	130	60	45	36	17	235	88	22	69	256
27	48	32	45	60	35	17	17	230	89	20	36	253
28	37	32	11	60	52	16	17	230	89	20	14	220
29	37	32	17	60	-----	16	17	239	88	19	14	201
30	37	32	12	60	-----	46	93	253	85	19	14	166
31	37	-----	11	60	-----	68	-----	288	-----	18	69	-----
TOTAL	2,905	1,207	2,469	2,189	1,376	1,782	2,166	4,852	4,753	1,207	1,017	8,476
MEAN	93.7	40.2	79.6	70.6	49.1	57.5	72.2	156	158	38.9	32.8	283
MAX	153	65	346	170	61	68	180	288	299	80	69	330
MIN	37	12	11	29	33	16	17	16	85	18	13	162
AC=FT	5,760	2,390	4,900	4,340	2,730	3,530	4,300	9,580	9,430	2,390	2,020	16,810

CAL YR 1972	TOTAL 29,172	MEAN 79.7	MAX 346	MIN 10	AC-FT 57,860
WTR YR 1973	TOTAL 34,379	MEAN 94.2	MAX 346	MIN 11	AC-FT 68,190

Adjusted for change in storage in Prosser Creek Reservoir												
Mean	18.9	40.0	75.4	74.6	50.2	64.6	253	349	135	26.7	10.6	-1.18
Ac-ft	1,160	2,320	4,560	4,590	2,790	3,970	15,080	21,440	8,050	1,640	650	-70
	Observed							Adjusted				
Calendar year 1972:	Max	346	Min	10	Mean	79.7	Ac-ft	57,860	Mean	78.9	Ac-ft	57,300
Water year 1972-73:	Max	346	Min	11	Mean	94.2	Ac-ft	68,190	Mean	91.4	Ac-ft	66,190

PYRAMID AND WINNEMUCCA LAKES BASIN

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10343000 Independence Creek near Truckee, Calif.

LOCATION.--Lat 39°27'20", long 120°17'15", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.19 N., R.15 E., Sierra County, on left bank 0.3 mi (0.5 km) downstream from Independence Lake outlet, 6.5 mi (10.5 km) northwest of Hobart Mills, and 10 mi (16 km) north-northwest of Truckee.

DRAINAGE AREA.--7.63 mi² (19.76 km²).

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,115 m) from topographic map. July 1, 1904, to June 30, 1910, water-stage recorder 75 ft (25 m) downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft (180 m) downstream at approximately same datum.

AVERAGE DISCHARGE.--10 years (1902-7, 1968-73), 33.6 ft³/s (0.952 m³/s), 24,340 acre-ft/yr (30.0 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 184 ft³/s (5.21 m³/s) Sept. 10, gage height, 5.01 ft (1.527 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 26-30.

Period of record: Maximum discharge observed, 286 ft³/s (8.10 m³/s) June 23, 1907, gage height, 3.9 ft (1.19 m) site and datum then in use; no flow Sept. 28 to Nov. 10, 1905 and June 1, 1906.

REMARKS.--Records excellent. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft (21.6 hm³).

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	31	5.9	6.4	7.3	8.1	8.4	15	64	28	21	158
2	34	30	5.9	6.4	7.3	8.1	8.4	20	62	28	21	175
3	34	20	6.2	6.4	7.8	8.1	8.1	31	60	28	21	178
4	34	9.2	5.9	6.2	8.1	8.1	8.1	43	58	28	22	178
5	34	9.2	5.9	6.2	8.1	8.1	8.1	50	57	26	22	174
6	33	7.8	5.1	6.2	8.1	8.1	8.4	52	56	24	21	175
7	33	7.0	5.6	6.2	8.1	8.1	8.4	54	56	24	21	174
8	33	7.0	5.6	6.2	8.1	8.1	8.4	59	51	24	21	174
9	33	7.0	5.6	6.2	8.1	8.1	8.7	64	48	24	21	175
10	33	7.0	5.6	6.2	8.1	8.1	8.7	68	46	24	21	179
11	32	7.0	5.6	6.2	8.1	8.1	9.0	77	46	24	20	178
12	32	6.7	5.9	6.4	8.1	8.1	9.2	87	45	24	20	173
13	32	6.2	5.9	6.7	8.1	8.1	9.2	100	42	24	20	172
14	32	5.9	5.9	7.0	8.1	8.1	9.2	116	41	22	20	172
15	32	5.6	5.9	6.7	8.1	8.1	9.2	130	41	22	20	172
16	32	5.6	5.9	6.7	8.1	8.1	9.2	133	40	22	20	172
17	32	5.6	5.9	9.2	8.1	8.1	9.5	139	40	22	20	170
18	32	5.6	6.2	6.7	8.1	8.1	9.5	147	40	22	20	165
19	32	5.6	6.7	7.0	8.1	8.4	9.5	147	39	22	20	158
20	32	5.6	7.0	6.4	8.1	8.4	9.5	138	39	22	20	152
21	32	5.4	7.0	6.4	8.1	8.4	9.2	127	39	21	20	149
22	32	5.4	7.3	6.4	8.1	8.4	10	118	38	20	19	142
23	32	5.4	7.0	6.4	8.1	8.4	10	113	32	20	19	132
24	32	5.4	6.7	6.4	8.1	8.4	11	108	29	20	19	121
25	31	5.4	6.7	6.7	7.8	8.4	11	103	29	20	19	7.3
26	31	5.4	6.2	6.7	8.1	8.4	12	108	29	20	19	.02
27	31	5.4	6.2	7.0	8.1	8.4	12	119	29	20	33	.02
28	31	5.9	6.2	7.0	8.1	8.4	13	110	29	21	45	.02
29	31	5.9	6.4	7.0	-----	7.8	13	84	29	20	45	.02
30	31	5.9	6.4	7.0	-----	7.8	13	63	29	21	56	.02
31	31	-----	6.4	7.3	-----	8.1	-----	64	-----	21	112	-----
TOTAL	1,000	250.1	190.7	205.9	224.6	253.5	290.9	2,787	1,283	708	818	3,975.40
MEAN	32.3	8.34	6.15	6.64	8.02	8.18	9.70	89.9	42.8	22.8	26.4	133
MAX	34	31	7.3	9.2	8.1	8.4	13	147	64	28	112	179
MIN	31	5.4	5.1	6.2	7.3	7.8	8.1	15	29	20	19	.02
AC-FT	1,980	496	378	408	445	503	577	5,530	2,540	1,400	1,620	7,890
CAL YR 1972	TOTAL	6,443.30	MEAN	17.6	MAX	121	MIN	5.1	AC-FT	12,780		
WTR YR 1973	TOTAL	11,987.10	MEAN	32.8	MAX	179	MIN	.02	AC-FT	23,780		

PYRAMID AND WINNEMUCCA LAKES BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.

LOCATION.--Lat 39°25'54", long 120°14'07", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.18 N., R.16 E., Nevada County, on left bank 2.2 miles upstream from bridge on State Highway 89, and 7.5 miles north of Truckee.

DRAINAGE AREA.--10.8 sq mi.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft (from topographic map). Prior to Dec. 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

AVERAGE DISCHARGE.--20 years, 12.5 cfs (9,060 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 106 cfs May 14 (gage height, 3.06 ft); minimum daily, 2.1 cfs Oct. 1.

Period of record: Maximum discharge, 765 cfs Feb. 1, 1963 (gage height, 4.64 ft, from floodmarks), from rating curve extended above 110 cfs on basis of slope-area measurement at gage height 4.28 ft; minimum, 0.6 cfs Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No storage or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	3.5	3.8	5.4	6.2	5.9	7.0	58	41	7.1	3.7	2.9
2	2.5	3.6	3.7	5.4	6.1	5.7	6.5	65	35	6.8	3.5	2.9
3	3.1	3.9	3.6	5.4	6.1	5.7	6.8	68	33	6.5	3.7	2.9
4	3.1	13	3.2	5.2	5.9	5.6	8.0	59	30	6.2	3.8	2.8
5	3.1	10	2.9	5.2	5.7	5.4	10	48	28	6.0	3.6	2.8
6	3.1	7.0	2.7	5.2	5.7	5.5	14	50	26	5.8	3.4	2.8
7	3.4	5.9	2.6	5.2	5.7	5.5	15	58	24	5.6	3.4	2.8
8	4.1	5.2	2.6	5.2	5.5	5.4	16	62	23	5.4	3.3	2.9
9	4.0	4.6	2.7	5.2	5.5	5.4	19	64	22	5.2	3.2	2.8
10	4.5	4.2	2.8	5.2	5.5	5.9	22	68	21	5.0	3.2	2.9
11	5.9	4.2	2.8	9.8	5.7	5.9	26	74	19	4.8	3.2	2.8
12	5.1	4.1	2.8	30	5.5	5.6	29	80	18	4.7	3.1	2.8
13	4.5	4.1	3.1	19	5.5	5.2	26	84	17	5.5	3.0	2.8
14	4.3	4.1	3.2	13	5.5	5.2	25	86	17	5.0	3.1	2.8
15	4.3	4.0	3.3	12	5.3	5.1	27	82	16	4.8	3.0	2.8
16	4.3	3.9	3.5	11	5.2	5.3	27	79	15	5.0	2.9	2.8
17	4.6	3.8	35	11	5.2	5.5	29	79	14	5.0	2.9	2.8
18	5.4	3.8	34	9.0	5.3	5.3	26	81	13	4.7	2.7	2.9
19	6.1	3.8	59	8.4	5.4	5.2	25	75	12	4.4	2.8	2.9
20	6.4	3.7	35	7.9	5.2	5.2	24	68	12	4.3	2.9	4.1
21	5.7	3.6	26	7.3	5.2	5.1	26	63	11	4.3	2.9	3.5
22	5.2	3.5	31	6.7	5.2	5.0	31	59	11	4.3	2.9	3.1
23	4.8	3.5	21	6.3	5.2	5.1	39	56	10	4.1	2.8	3.3
24	4.6	3.5	15	6.2	5.3	5.4	44	54	9.9	3.9	3.0	3.3
25	4.3	3.6	12	6.1	5.2	5.9	50	50	9.3	3.8	3.2	3.3
26	4.2	3.6	10	6.1	5.3	6.5	60	44	8.9	3.7	4.0	3.1
27	4.2	3.7	7.5	6.1	5.4	7.4	72	41	8.6	3.7	4.2	2.9
28	4.0	3.8	6.2	6.1	5.9	7.0	73	40	8.3	4.8	3.5	2.9
29	3.8	3.9	5.8	6.1	-----	6.5	65	40	7.7	4.7	3.3	2.9
30	3.5	3.9	5.6	6.1	-----	6.5	59	45	7.3	3.9	3.1	2.9
31	3.5	-----	5.4	6.1	-----	7.0	-----	49	-----	3.7	3.0	-----
TOTAL	131.7	137.0	357.8	252.9	154.4	176.9	907.3	1,929	528.0	152.7	100.3	89.2
MEAN	4.25	4.57	11.5	8.16	5.51	5.71	30.2	62.2	17.6	4.93	3.24	2.97
MAX	6.4	13	59	30	6.2	7.4	73	86	41	7.1	4.2	4.1
MIN	2.1	3.5	2.6	5.2	5.2	5.0	6.5	40	7.3	3.7	2.7	2.8
AC-FT	261	272	710	502	306	351	1,800	3,830	1,050	303	199	177

CAL YR 1972 TOTAL 3,693.8 MEAN 10.1 MAX 59 MIN 2.1 AC-FT 7,330
WTR YR 1973 TOTAL 4,917.2 MEAN 13.5 MAX 86 MIN 2.1 AC-FT 9,750

PEAK DISCHARGE (BASE, 50 CFS)					
DATE	TIME	G.H.	DISCHARGE	DATE	TIME
12-19	unknown	--	--	5-14	1830
4-23	1700	2.66	54	5-30	1800
4-27	1630	3.01	98		

NOTE.--No gage-height record Oct. 3 to Dec. 27.

G.H. DISCHARGE
3.06 106
2.80 71

PYRAMID AND WINNEMUCCA LAKES BASIN

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10344300 Stampede Reservoir near Boca, Calif.

LOCATION.--Lat 39°28'15", long 120°06'15", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.19 N., R.17 E., Sierra County, in control house on Stampede Dam on Little Truckee River, just downstream from mouth of Davies Creek and 6.2 mi (10.0 km) north of Boca.

DRAINAGE AREA.--136 mi² (352 km²).

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

GAGE.--Water-stage recorder with mercury-column manometer. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents, 205,400 acre-ft (253 hm³) June 27-29, elevation, 5,942.4 ft (1,811.24 m); minimum, 115,600 acre-ft (143 hm³) Oct. 1, 2, elevation, 5,909.9 ft (1,801.34 m).

Period of record: Maximum contents, 205,400 acre-ft (253 hm³) June 27-29, 1973, elevation, 5,942.4 (1,811.24 m); minimum, (since July, 1971), 115,400 acre-ft (142 hm³) Sept. 20-27, 1972, elevation, 5,909.8 ft (1,801.31 m).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft (279 hm³) at elevation 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm³), includes 660 acre-ft (814,000 m³) dead storage, below elevation 5,798.3 ft (1,767.32 m). Elevation of streambed at dam axis, 5,737.0 ft (1,748.64 m). Figures given herein represent total contents. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

MONTH-END ELEVATIONS AND TOTAL CONTENTS AT 0800 HOURS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,909.9	115,600	--
Oct. 31	5,910.1	116,000	+400
Nov. 30	5,910.9	118,000	+2,000
Dec. 31	5,913.0	122,800	+4,800
Calendar year 1972.	-	-	+200
Jan. 31	5,914.5	126,400	+3,600
Feb. 29	5,914.6	126,600	+200
Mar. 31	5,915.8	129,700	+3,100
Apr. 30	5,922.9	147,800	+18,100
May 31	5,938.6	193,300	+45,500
June 30	5,942.3	205,300	+12,000
July 31	5,940.2	198,300	-7,000
Aug. 31	5,938.2	192,000	-6,300
Sept. 30	5,939.2	194,900	+2,900
Water year 1972-73.	-	-	+79,300

10344400 Little Truckee River above Boca Reservoir, near Boca, Calif.

LOCATION.--Lat 39°26'10", long 120°05'00", in SW¹₄SW¹₄ sec.3, T.18 N., R.17 E., Nevada County, on left bank 1 mi (1.6 km) upstream from Boca Reservoir, 1.5 mi (2.4 km) upstream from Dry Creek, 3.0 mi (4.8 km) downstream from Stampede Dam on Little Truckee River, and 3.5 mi (5.6 km) north of Boca.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Published as "at Pine Station" June 1903 to December 1907 and as "at Starr" January 1908 to October 1910. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft (1,712.571 m) above mean sea level (Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

AVERAGE DISCHARGE.--41 years (1903-10, 1939-73), 194 ft³/s (5.494 m³/s), 140,600 acre-ft/yr (173 hm³/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 530 ft³/s (15.0 m³/s) Apr. 26, gage height, 2.10 ft (0.640 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 19-23.

Period of record: Maximum discharge, 13,300 ft³/s (377 m³/s) Feb. 1, 1963, gage height, 9.00 ft (2.743 m) from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 16-21, 1969.

REMARKS.--Records excellent. Flow regulated by Independence Lake, capacity, about 17,500 acre-ft (21.6 hm³), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm³).

REVISIONS (WATER YEARS).--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used 1903-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	32	34	51	118	57	56	52	30	150	88	38
2	38	32	34	51	118	56	56	50	30	150	96	37
3	37	34	34	51	119	56	59	46	30	150	103	30
4	37	39	34	51	120	56	62	46	29	150	103	12
5	37	35	34	51	120	54	62	45	29	178	103	12
6	36	33	34	51	120	54	62	44	34	199	83	12
7	36	33	34	51	120	54	61	44	41	196	47	12
8	36	33	34	51	102	46	59	42	41	196	45	12
9	29	32	34	51	81	37	61	41	41	196	41	12
10	20	32	34	51	83	38	62	41	41	196	37	12
11	20	33	34	63	82	40	64	41	41	196	37	12
12	31	32	34	84	81	38	64	42	41	196	37	11
13	67	33	34	84	81	38	64	42	41	196	37	5.3
14	90	34	34	82	81	37	59	42	41	196	37	4.8
15	90	34	35	82	81	44	56	41	41	196	36	4.9
16	90	35	35	92	81	51	54	40	41	196	79	4.7
17	75	35	36	86	81	53	54	69	41	196	101	2.4
18	77	34	38	85	81	52	52	96	41	196	142	1.8
19	75	34	42	83	81	52	92	98	41	110	182	1.6
20	75	34	38	81	81	52	318	96	41	42	182	1.6
21	75	34	38	81	81	52	510	96	62	41	182	1.6
22	75	34	44	81	81	64	517	96	86	29	182	1.6
23	75	34	38	81	81	86	517	84	86	16	192	1.6
24	73	34	36	81	83	88	523	36	86	15	199	67
25	73	34	36	91	83	92	523	35	86	15	199	192
26	53	34	36	101	83	96	442	34	86	15	144	193
27	34	34	36	102	86	101	343	34	96	42	103	335
28	33	34	38	103	76	96	343	32	115	44	101	470
29	33	34	51	103	-----	92	338	31	134	44	101	474
30	32	34	51	104	-----	90	219	30	144	44	71	482
31	32	-----	51	108	-----	75	-----	30	-----	44	40	-----
TOTAL	1,621	1,013	1,155	2,368	2,566	1,897	5,752	1,596	1,737	3,830	3,130	2,456.9
MEAN	52.3	33.8	37.3	76.4	91.6	61.2	192	51.5	57.9	124	101	81.9
MAX	90	39	51	108	120	101	523	98	144	199	199	482
MIN	20	32	34	51	76	37	52	30	29	15	36	1.6
AC-FT	3,220	2,010	2,290	4,700	5,090	3,760	11,410	3,170	3,450	7,600	6,210	4,870
CAL YR 1972	TOTAL 46,745.0 MEAN 128 MAX 688 MIN 20 AC-FT 92,720											
WTR YR 1973	TOTAL 29,121.9 MEAN 79.8 MAX 523 MIN 1.6 AC-FT 57,760											

*Adjusted for change in storage in Stampede Reservoir (see preceding page)

	Mean	58.9	67.4	115	135	95.2	112	496	792	260	9.76	-1.46	130
Ac-ft	3,620	4,010	7,090	8,300	5,290	6,860	29,510	48,670	15,450	600	-90	7,770	

	Observed				Adjusted			
Calendar year 1972:	Max 688	Min 20	Mean 128	Ac-ft 92,720	Mean 128	Ac-ft 92,920		
Water year 1972-73:	Max 523	Min 1.6	Mean 79.8	Ac-ft 57,760	Mean 189	Ac-ft 137,100		

* Negative values may occur occasionally (meaningless, of course) because reservoir evaporation is not considered in the adjustment.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10344490 Boca Reservoir at Boca, Calif.

LOCATION.--Lat 39°32'20", long 120°05'40", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.18 N., R.17 E., Nevada County, in control house at Boca Dam on Little Truckee River, 1,800 ft (549 m) upstream from mouth, and 0.5 mi (0.8 km) northwest of Boca.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--December 1938 to current year. Month-end contents only for December 1938 to September 1957, published in WSP 1734.

GAGE.--Pressure gage with mercury column read once daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents, 41,000 acre-ft (50.6 hm³) May 1-5, elevation, 5,605.1 ft (1,708.43 m); minimum, 60 acre-ft (74,000 m³) Sept. 14, elevation, 5,522.0 ft (1,683.11 m).

Period of record: Maximum contents, 41,440 acre-ft (51.1 hm³) Dec. 23, 1955, elevation, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m³) Mar. 4-9, 1955, elevation, 5,521.65 ft (1,682.999 m).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft (50.4 hm³) between elevations 5,521 (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m) top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m³), below outlet sill. Figures given herein represent usable contents. Water is used for irrigation in the State of Nevada and for power development.

COOPERATION.--Daily elevations furnished by Washoe County Water Conservation District.

REVISIONS.--WSP 1634: Drainage area.

CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

5,521.9	56	5,535	1,470	5,580	20,000
5,523	131	5,540	2,360	5,590	27,510
5,525	290	5,550	4,970	5,600	36,150
5,530	787	5,560	8,780	5,605.1	41,000
		5,570	13,770		

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,140	30,750	32,540	29,470	30,320	29,470	32,370	41,000	40,670	27,000	12,510	500
2	28,140	30,830	32,540	29,300	30,320	29,470	32,460	41,000	40,770	26,520	12,040	150
3	28,140	30,920	32,540	29,140	30,320	29,640	32,540	41,000	40,770	26,050	11,570	100
4	28,140	31,180	32,540	28,880	30,320	29,720	32,540	41,000	40,770	25,580	11,120	80
5	28,300	31,180	32,540	28,640	30,230	29,720	32,540	41,000	40,870	25,110	10,720	80
6	28,300	31,260	32,540	28,470	30,150	29,810	32,630	40,770	40,870	24,800	10,390	80
7	28,300	31,350	32,540	28,300	30,150	29,890	32,810	40,670	40,870	24,420	9,910	80
8	28,390	31,350	32,540	28,140	30,150	29,980	32,890	39,990	40,870	24,040	9,410	80
9	28,470	31,440	32,540	27,810	30,150	29,980	32,890	39,510	40,870	23,740	8,910	80
10	28,470	31,520	32,280	27,810	30,060	30,060	33,070	39,130	40,480	23,250	8,300	80
11	28,470	31,610	32,020	27,810	29,980	30,150	33,070	38,750	39,800	22,850	7,710	80
12	28,470	31,700	31,940	28,390	29,810	30,320	33,070	38,650	38,940	22,410	7,190	80
13	28,470	31,700	31,700	28,550	29,810	30,320	33,070	38,750	37,710	21,970	6,610	80
14	28,640	31,850	31,350	28,640	29,640	30,320	33,070	38,840	36,680	21,540	6,060	60
15	28,800	31,850	31,090	28,800	29,470	30,320	32,890	38,940	35,850	21,120	5,460	80
16	28,970	32,020	30,830	29,050	29,300	30,320	32,720	38,940	35,030	20,700	4,940	80
17	29,140	32,020	30,400	29,300	29,140	30,320	32,890	39,030	34,310	20,280	4,440	90
18	29,300	32,020	30,060	29,470	29,140	30,490	32,890	39,130	33,600	19,930	4,000	100
19	29,470	32,200	30,150	29,640	28,880	30,490	32,980	39,420	32,980	19,590	3,750	100
20	29,640	32,200	30,150	29,640	28,880	30,570	33,070	39,510	32,370	18,990	3,570	110
21	29,810	32,280	30,320	29,810	28,880	30,660	33,780	39,700	31,850	18,330	3,360	120
22	29,980	32,370	30,320	30,230	28,880	30,660	34,310	39,900	31,350	17,680	3,130	120
23	30,060	32,370	30,320	30,150	28,880	30,830	35,030	40,090	30,830	17,170	2,970	120
24	30,150	32,370	30,320	30,150	28,970	30,920	35,540	40,190	30,400	16,600	2,800	120
25	30,320	32,540	30,320	30,230	29,140	31,090	36,680	40,280	29,980	16,110	2,650	420
26	30,490	32,540	30,320	30,320	29,140	31,180	37,800	40,280	29,470	15,510	2,520	820
27	30,490	32,630	30,320	30,320	29,300	31,520	38,460	40,280	28,970	15,030	2,240	1,300
28	30,660	32,630	30,230	30,320	29,300	31,700	39,320	40,380	28,470	14,560	1,900	2,220
29	30,660	32,540	30,150	30,400	-----	31,850	39,990	40,480	27,900	14,110	1,590	3,310
30	30,660	32,540	29,980	30,400	-----	32,020	40,670	40,580	27,490	13,660	1,270	4,320
31	30,660	-----	29,720	30,400	-----	32,200	-----	40,580	-----	13,100	890	-----
MAX	30,660	32,630	32,540	30,400	30,320	32,200	40,670	41,000	40,870	27,000	12,510	4,320
MIN	28,140	30,750	29,720	27,810	28,880	29,470	32,370	38,650	27,490	13,100	890	60
(+)	5,593.80	5,596.00	5,592.70	5,593.50	5,592.20	5,595.60	5,604.80	5,604.70	5,590.00	5,568.80	5,530.90	5,547.90
(+)	+2,520	+1,880	-2,820	+680	-1,100	+2,900	+8,470	-90	-13,090	-14,390	-12,210	+3,430

CAL YR 1972 MAX 37,050 MIN 27,980 +2,820
WTR YR 1973 MAX 41,000 MIN 60 +23,820

† ELEVATION, IN FEET, AT END OF MONTH.

* CHANGE IN CONTENTS, IN ACRE-FEET.

10344500 Little Truckee River at Boca, Calif.

LOCATION.--Lat 39°23'10", long 120°05'40", in NE $\frac{1}{4}$ sec.28, T.18 N., R.17 E., Nevada County, on right bank 800 ft (244 m) upstream from mouth, 1,000 ft (305 m) downstream from Boca Dam, and 0.3 mi (0.5 km) northwest of Boca.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from topographic map. Jan. 1, 1911, to Sept. 30, 1915, non-recording gage at site 650 ft (200 m) downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway

AVERAGE DISCHARGE.--38 years (1911-15, 1939-73), 185 ft³/s (5.239 m³/s), 134,000 acre-ft/yr (165 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 670 ft³/s (19.0 m³/s) June 12, gage height, 3.81 ft (1.161 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 18.

Period of record: Maximum discharge, 8,800 ft³/s (249 m³/s) Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

REMARKS.--Records good. Flow regulated by Boca Reservoir, capacity, 40,870 acre-ft (50.4 hm³), Independence Lake, capacity, about 17,500 acre-ft (21.6 hm³), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm³) since Aug. 1, 1969.

REVISIONS.--WSP 1564: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	.50	29	154	122	26	75	24	.77	373	338	215
2	.44	.48	29	154	145	27	85	42	.87	394	328	89
3	.43	.62	28	154	165	27	98	44	.87	385	313	38
4	.45	.78	55	154	154	27	106	101	.87	379	298	17
5	.47	.55	61	154	149	28	129	152	.87	382	298	13
6	.46	.53	53	132	149	28	129	152	13	382	295	12
7	.47	.54	53	103	140	35	129	245	28	382	300	12
8	.47	.53	52	98	132	49	129	343	71	388	300	11
9	.47	.54	93	82	140	46	130	300	165	415	318	11
10	.47	.60	122	61	154	28	147	253	323	434	323	11
11	22	.64	101	47	152	28	179	173	437	437	320	11
12	16	.60	154	36	152	28	220	.60	596	434	318	11
13	.41	.65	199	30	152	28	220	.53	576	434	325	7.5
14	.43	.70	188	33	152	39	220	.53	465	430	323	4.5
15	.49	.63	192	33	152	47	218	.60	437	427	315	.87
16	.55	.68	245	33	152	47	142	.60	409	427	310	.05
17	.53	.75	245	33	152	48	93	.60	361	403	308	.05
18	.68	.75	127	33	152	48	97	.60	352	391	303	.04
19	.63	.77	35	36	135	48	100	.60	328	388	300	.05
20	.60	.87	34	38	106	48	182	.68	315	376	298	.05
21	.53	.89	34	39	100	48	250	.68	320	340	295	.05
22	.53	.68	35	44	73	48	250	.68	320	325	293	.05
23	.53	.69	35	53	67	48	190	.68	308	313	290	.05
24	.53	.73	35	65	50	49	149	.68	303	298	288	.05
25	.56	.77	35	76	50	49	104	.77	325	295	288	.05
26	.60	.79	35	76	50	49	49	.87	346	280	283	.05
27	.60	31	52	94	49	49	21	.87	358	278	278	.05
28	.60	57	109	104	39	43	.87	.87	373	288	270	.06
29	.52	46	130	116	-----	29	.98	.77	361	283	263	.06
30	.53	29	158	128	-----	39	1.1	.87	346	295	253	.06
31	.53	-----	154	128	-----	64	-----	.77	-----	335	238	-----
TOTAL	69,51	180,26	2,907	2,521	3,385	1,245	3,843.95	1,842.85	8,240.25	11,391	9,270	464.64
MEAN	2.24	6.01	93.8	81.3	121	40.2	128	59.4	275	367	299	15.5
MAX	22	57	245	154	165	64	250	343	596	437	338	215
MIN	.41	.48	28	30	39	26	.87	.53	.77	278	238	.04
AC-FT	138	358	5,770	5,000	6,710	2,470	7,620	3,660	16,340	22,590	18,390	922
CAL YR 1972	TOTAL	49,314.77	MEAN	135	MAX	647	MIN	.41	AC-FT	97,820		
WTR YR 1973	TOTAL	45,360.46	MEAN	124	MAX	596	MIN	.04	AC-FT	89,970		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 Truckee River at Farad, Calif.

LOCATION.--Lat 39°25'41", long 120°01'59", in NE $\frac{1}{4}$ sec.12, T.18 N., R.17 E., Nevada County, on left bank 0.5 mi (0.8 km) upstream from Mystic Canyon, 0.7 mi (1.1 km) downstream from Farad powerplant, 2.5 mi (4.0 km) north of Floriston, 3.4 mi (5.5 km) downstream from Bronco Creek, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi² (2,414 km²).

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. 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. Monthly discharge only for January 1944 to July 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft (1,570.698 m) above mean sea level (Bureau of Reclamation bench mark). March to October 1890, nonrecording gage at site about 7 mi (11 km) upstream at different datum. Sept. 7, 1899, to May 31, 1909, nonrecording gage at approximately present location at different datum. June 1, 1909, to July 31, 1912, nonrecording gage at site about 2.5 mi (4.0 km) downstream at different datum. Aug. 1, 1912, to Dec. 31, 1937, water-stage recorder at site 4.1 mi (6.6 km) upstream at different datum. Jan. 1, 1938, to Aug. 27, 1957, water-stage recorder at approximately present location at different datum.

AVERAGE DISCHARGE.--74 years (1899-1973), 795 ft³/s (22.51 m³/s), 576,000 acre-ft/yr (710 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,000 ft³/s (56.6 m³/s) May 18, gage height, 4.97 ft (1.515 m); minimum, 227 ft³/s (6.43 m³/s) Dec. 12.

Period of record: Maximum discharge, 17,500 ft³/s (496 m³/s) Nov. 21, 1950, gage height, 14.5 ft (4.420 m), present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft³/s (0.793 m³/s) Dec. 18, 1930.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede, and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants. Water-quality records for the current year are published in Part 2 of this report for Truckee River at Floriston, Calif. No appreciable inflow between sampling point and gaging station.

REVISIONS.--WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	387	397	390	412	501	535	1,120	1,290	690	814	790
2	390	404	396	398	412	507	530	1,160	1,160	707	801	770
3	357	398	401	409	417	503	512	1,130	1,070	754	786	747
4	386	586	427	455	414	502	525	1,090	1,010	769	770	739
5	382	512	426	456	408	494	540	1,010	934	758	768	760
6	380	479	425	504	423	512	650	934	910	748	767	784
7	379	473	405	479	423	506	767	970	904	738	767	771
8	381	466	401	486	401	541	756	1,140	922	736	766	755
9	378	455	400	475	405	538	746	1,160	1,020	756	775	752
10	382	455	400	456	439	528	835	1,180	1,140	809	782	751
11	428	459	450	467	442	542	1,090	1,330	1,210	804	777	748
12	472	450	500	794	422	526	1,300	1,340	1,320	801	772	746
13	412	452	520	709	400	497	1,330	1,460	1,290	794	772	742
14	373	478	530	582	398	503	1,230	1,620	1,110	792	768	752
15	364	460	537	551	395	509	1,200	1,730	1,000	788	763	761
16	371	443	551	677	393	513	1,040	1,760	934	790	757	759
17	399	416	716	652	408	523	852	1,740	852	809	768	757
18	423	384	785	623	412	516	769	1,760	818	824	799	761
19	375	384	980	554	416	516	726	1,670	785	817	799	779
20	365	385	813	472	424	519	753	1,530	753	807	796	783
21	360	394	781	447	447	515	813	1,350	753	779	794	779
22	345	397	851	423	441	512	858	1,230	747	760	796	774
23	334	389	676	433	442	510	910	1,230	726	747	801	773
24	339	393	603	421	433	517	964	1,190	695	730	799	746
25	345	393	560	408	434	535	988	1,230	711	731	799	730
26	395	394	490	401	432	537	1,020	1,140	731	759	809	756
27	417	412	393	397	450	537	1,110	1,070	741	756	788	752
28	399	432	398	407	481	532	1,200	1,100	748	765	726	726
29	391	424	382	413	-----	484	1,140	1,180	728	764	714	670
30	385	398	413	431	-----	486	1,090	1,260	691	768	697	640
31	386	-----	398	424	-----	515	-----	1,300	-----	809	721	-----
TOTAL	11,912	12,952	16,405	15,194	11,824	15,976	26,779	40,114	27,703	23,859	24,011	22,553
MEAN	384	432	529	490	422	515	893	1,294	923	770	775	752
MAX	472	586	980	794	481	542	1,330	1,760	1,320	824	814	790
MIN	334	384	382	390	393	484	512	934	691	690	697	640
AC-FT	23,630	25,690	32,540	30,140	23,450	31,690	53,120	79,570	54,950	47,320	47,630	44,730
CAL YR 1972	TOTAL 226,944		MEAN 620		MAX 1,380		MIN 334		AC-FT 450,100			
WTR YR 1973	TOTAL 249,282		MEAN 683		MAX 1,760		MIN 334		AC-FT 494,500			

PYRAMID AND WINNEMUCCA LAKES BASIN

10347800 Peavine Creek near Reno, Nev.

LOCATION.--Lat 39°32'35", long 119°51'55", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.19 N., R.19 E., Washoe County, on left bank 1.1 mi (1.8 km) upstream from Highland ditch, 100 ft (30.5 m) downstream from Peavine Dam, and 3.2 mi (5.1 km) northwest of Reno Post Office.

DRAINAGE AREA.--2.34 mi² (6.06 km²).

PERIOD OF RECORD.--January 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,990 ft (1,521 m) from topographic map. June 17 to Oct. 9, 1963, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.059 ft³/s (0.0017 m³/s), 43 acre-ft/yr (53,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 0.79 ft³/s (0.022 m³/s) Feb. 28, gage height, 0.62 ft (0.189 m); no flow most of the year.
Period of record: Maximum discharge, 32 ft³/s (0.906 m³/s) Mar. 16, 1967; no flow most of the time.

REMARKS.--Records excellent except those for Feb. 14-21, which are poor. Dam above station used for flood control. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	0	.46						
2			0	0	0	.36						
3			0	0	0	.24						
4			0	0	0	.16						
5			0	0	0	.10						
6			0	0	0	.10						
7			0	0	0	.10						
8			0	0	0	.08						
9			0	0	0	.08						
10			0	0	0	.07						
11			0	0	.04	.07						
12			0	.01	.04	.07						
13			0	0	.07	.07						
14			0	0	.30	.07						
15			0	0	.20	.07						
16			0	.01	.20	.06						
17		.01	.02	.20	.20	.04						
18		0	0	.20	.20	.01						
19		0	0	.20	.20	.01						
20		0	0	.20	.20	.01						
21			0	0	.16	0						
22			0	0	.14	0						
23			0	0	.18	0						
24			0	0	.21	0						
25			0	0	.24	0						
26			0	0	.21	0						
27			0	0	.24	0						
28			0	0	.70	0						
29			0	0	-----	0						
30			0	0	-----	0						
31	-----		0	0	-----	0	-----		-----			-----
TOTAL	0	0	.01	.04	3.73	2.23	0	0	0	0	0	0
MEAN	0	0	.0003	.001	.13	.072	0	0	0	0	0	0
MAX	0	0	.01	.02	.70	.46	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	.02	.08	7.4	4.4	0	0	0	0	0	0
CAL YR 1972	TOTAL 0.01	MEAN .0000	MAX .01	MIN 0	AC-FT .0							
WTR YR 1973	TOTAL 6.01	MEAN .017	MAX .70	MIN 0	AC-FT 12							

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LOCATION.--Lat 39°31'55", long 119°47'05", in NW₄ sec.7, T.19 N., R.20 E., Washoe County, on left bank 400 ft (122 m) downstream from Kietzke Lane bridge, 0.5 mi (0.8 km) downstream from Scott Island, 1.5 mi (2.4 km) east of Reno Post Office, and 5 mi (8 km) upstream from Steamboat Creek.

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.

AVERAGE DISCHARGE.--47 years (1906-21, 1925-26, 1930-34, 1946-73), 673 ft³/s (19.06 m³/s), 487,600 acre-ft/yr (601 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,820 ft³/s (51.5 m³/s) May 19, gage height, 4.86 ft (1.481 m); maximum gage height, 7.70 ft (2.347 m) backwater from ice jam; minimum discharge, 166 ft³/s (5.06 m³/s) Oct. 3.
Period of record: Maximum discharge, 20,800 ft³/s (589 m³/s) Dec. 23, 1955; maximum gage height, 13.83 ft (4.215 m) Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

REMARKS.--Records good except for Oct. 1 to Jan. 24, which are fair. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several power plants. Many diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	309	373	402	415	536	531	854	1,110	373	521	474
2	257	348	373	419	411	536	512	861	943	390	512	497
3	198	373	377	428	411	516	502	821	821	442	488	437
4	186	623	394	370	419	516	512	795	733	474	460	428
5	189	536	415	360	402	497	541	821	657	451	469	446
6	186	460	400	360	419	512	640	691	727	446	451	474
7	180	478	400	380	442	507	808	657	606	442	469	474
8	183	464	400	455	419	551	757	788	596	433	478	455
9	183	446	400	400	411	536	769	821	674	437	455	455
10	186	437	400	464	478	541	776	788	751	507	478	451
11	205	442	400	455	488	591	1,070	888	834	507	469	451
12	279	437	450	1,000	455	546	1,300	895	909	507	464	442
13	283	433	500	916	415	516	1,360	1,090	993	507	464	437
14	227	474	540	697	419	516	1,220	1,320	841	502	469	442
15	211	433	600	586	407	507	1,180	1,500	721	493	464	460
16	205	428	700	1,090	402	512	1,050	1,530	645	493	474	460
17	240	419	800	888	407	526	808	1,510	576	512	455	469
18	305	361	960	821	419	521	691	1,580	516	526	493	469
19	268	348	1,060	709	415	526	612	1,530	493	536	497	488
20	243	348	875	497	419	531	556	1,380	446	516	497	516
21	243	369	834	507	442	516	645	1,180	442	488	497	512
22	217	386	1,000	433	451	516	674	1,030	446	455	497	507
23	208	357	757	433	451	512	709	1,000	437	451	497	512
24	189	361	645	433	455	521	721	964	411	419	507	502
25	208	361	623	419	455	546	769	1,010	386	411	516	455
26	227	352	581	411	455	571	769	916	415	428	531	483
27	309	357	460	394	478	561	881	821	419	433	526	478
28	305	386	415	411	551	556	943	814	446	460	437	474
29	297	398	394	407	-----	493	937	888	442	442	411	411
30	297	369	428	453	-----	464	841	964	390	435	402	369
31	297	-----	419	428	-----	502	-----	1,090	-----	478	394	-----
TOTAL	7,324	12,293	17,367	16,406	12,211	16,278	24,084	31,797	18,826	14,394	14,742	13,928
MEAN	236	410	560	529	436	525	803	1,026	628	464	476	464
MAX	313	623	1,060	1,090	551	591	1,360	1,580	1,110	536	531	516
MIN	180	309	373	360	402	464	502	657	386	373	394	369
AC-FT	14,530	24,380	34,450	32,540	24,220	32,290	47,770	63,070	37,340	28,550	29,240	27,630
CAL YR 1972	TOTAL 172,722		MEAN 472	MAX 1,180	MIN 123	AC-FT 342,600						
WTR YR 1973	TOTAL 199,650		MEAN 547	MAX 1,580	MIN 180	AC-FT 396,000						

PYRAMID AND WINNEMUCCA LAKES BASIN

10348700 Washoe Lake near Carson City, Nev.

LOCATION.--Lat. 39°16'30", long 119°47'35", in $S\frac{1}{2}SE\frac{1}{4}$ sec.1, T.16 N., R.20 E., Washoe County, on Washoe County Boatdock on northeast shore about 6.8 miles (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi² (217 km²), including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Reference mark. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum elevation observed, 5,027.9 ft (1532.50 m) Apr. 25 and May 21; minimum observed, 5,025.7 ft (1531.83 m) Oct. 17 and Sept. 18.

Period of record: Maximum elevation observed, 5,030.6 ft (1533.33 m) Feb. 12, 24, 1970; minimum observed, 5,023.5 ft (1531.16 m) Nov. 24, 1964.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Hobart Creek is diverted into the Marlette Lake-to-Virginia City pipeline and siphon and, at times, additional water for Virginia City is pumped over the hill from Marlette Lake into Hobart Creek (as a conveyance) and thence to the siphon.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Oct. 17.....	5,025.7	Apr. 25.....	5,027.9
Nov. 20.....	5,025.8	May 21.....	5,027.9
Dec. 20.....	5,026.2	June 21.....	5,027.6
Jan. 22.....	5,027.1	July 20.....	5,026.7
Feb. 21.....	5,027.7	Aug. 21.....	5,026.0
Mar. 20.....	5,027.8	Sept. 18.....	5,025.7

* AREA TABLE (REVISED) ELEVATION, IN FEET, AND AREA, IN ACRES

5,017.5	0	5,022	2,880	5,027	5,100
5,018	350	5,023	3,050	5,028	5,440
5,019	850	5,024	3,320	5,029	5,690
5,020	1,700	5,025	4,110	5,030	5,890
5,021	2,400	5,026	4,700	5,031	6,040

* VOLUME TABLE (REVISED) ELEVATION, IN FEET AND VOLUME, IN ACRE-FEET

5,017.5	0	5,022	7,000	5,027	26,600
5,018	100	5,023	10,000	5,028	32,000
5,019	800	5,024	13,400	5,029	37,400
5,020	2,200	5,025	17,300	5,030	43,300
5,021	4,300	5,026	21,700	5,031	49,200

* Includes Wildlife Management area.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10348800 Little Washoe Lake near Steamboat, Nev.

LOCATION.--Lat 39°19'45", long 119°48'00", in NE 1/4 sec.24, T.17 N., R.19 E., Washoe County, at outlet (head of Steamboat Creek) and 5.5 mi (8.8 km) southwest of Steamboat.

DRAINAGE AREA.--83.8 mi² (217 km²).

PERIOD OF RECORD.--April 1963 to September 1970 (monthly observations only), October 1970 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1970, nonrecording gage at same site and datum. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum elevation recorded, 5,029.0 ft (1,532.84 m) Mar. 10; minimum recorded, 5,023.0 ft (1,531.01 m) Sept. 30.

Period of record: Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; minimum observed, 5,021.9 ft (1,530.68 m) Oct. 28, 1964.

REMARKS.--Lake is formed by a natural basin supplemented by a control works downstream from the natural rim which provides storage regulation for both Little Washoe Lake and Washoe Lake. See additional remarks under "Washoe Lake". Strong steady winds often cause pile-up on the side of the lake where the recorder is located.

AREA TABLE (REVISED) ELEVATION, IN FEET, AND AREA, IN ACRES

5,021.1	0	5,025	93	5,029	110
5,022	20	5,026	101	5,030	111
5,023	54	5,027	104	5,031	112
5,024	82	5,028	108		

VOLUME TABLE (REVISED) ELEVATION, IN FEET, AND VOLUME, IN ACRE-Feet

5,021.1	0	5,025	200	5,029	650
5,022	10	5,026	300	5,030	750
5,023	50	5,027	400	5,031	850
5,024	125	5,028	500		

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.27	4.08	6.46	6.55	7.74	7.61	7.71	7.97	7.99	7.51		
2	3.25	4.08	6.49	6.65	7.74	7.75	7.83	8.10	8.03	7.48		
3	3.24	4.19	7.13	6.60	7.75	7.80	7.84	8.23	8.03	7.44		3.76
4	3.24	4.44	6.90	6.57	7.80	7.73	7.84	7.89	8.05	7.43		3.69
5	3.23	4.60	6.74	6.57	7.79	7.90	7.87	7.88	8.03	7.63		3.62
6	3.22	4.69	6.81	6.58	7.81	7.75	7.80	7.87	8.03	7.42		3.64
7	3.21	4.46	6.82	6.59	7.85	7.85	7.87	7.85	8.03	7.32		3.58
8	3.20	4.59	6.83	6.63	7.87	7.79	7.81	7.90	8.14	7.26		3.56
9	3.21	4.70	6.83	6.65	8.05	7.78	7.87	7.95	8.12	7.25		3.58
10	3.46	4.83	6.82	6.66	8.00	8.10	7.89	7.92	8.04	7.28		3.56
11	3.25	4.94	6.82	6.73	8.14	7.65	7.94	7.92	7.95	7.29		3.55
12	3.28	5.05	6.82	6.89	8.04	7.79	8.12	7.90	8.14	7.10		3.54
13	3.15	5.18	6.82	6.86	8.05	7.57	7.90	7.89	7.95	7.09		3.49
14	3.21	5.23	6.82	6.87	8.04	7.80	7.94	7.90	7.83	7.08		3.46
15	3.23	5.43	6.83	7.18	8.08	7.80	7.94	7.90	7.93	7.10		3.45
16	3.27	5.54	6.84	7.34	8.14	8.23	8.13	7.91	8.15	7.06		3.44
17	3.23	5.65	6.99	7.66	8.05	7.81	7.82	7.96	7.74	7.07		3.42
18	3.32	5.74	7.06	7.51	8.15	7.87	8.06	7.96	7.77	7.00		3.39
19	3.34	5.82	6.98	7.84	8.20	7.88	7.87	8.16	7.75	6.96		3.38
20	3.36	5.87	6.84	7.77	8.16	7.94	7.90	7.97	7.74			3.24
21	3.35	5.95	6.90	7.67	7.67	7.82	8.00	8.01	7.82			3.07
22	3.34	6.02	7.14	7.67	7.67	7.77	7.99	7.99	7.82		4.79	3.07
23	3.23	6.09	6.94	7.67	7.85	7.83	7.99	8.12	7.72		4.75	3.03
24	3.24	6.15	6.76	7.67	8.02	7.84	7.99	8.20	7.67		4.79	3.02
25	3.31	6.25	6.70	7.66	7.65	7.82	8.00	8.00	7.67		4.55	3.00
26	3.39	6.31	6.68	7.67	7.78	7.78	8.12	7.88	7.65		4.54	3.00
27	3.38	6.36	6.85	7.69	7.75	7.81	8.06	7.91	7.56		4.41	3.00
28	3.95	6.40	6.70	7.70	7.92	7.88	8.02	7.91	7.77		4.32	2.99
29	4.07	6.42	6.66	7.72	-----	7.84	7.91	7.95	7.64		4.21	2.98
30	4.07	6.44	6.58	7.75	-----	8.00	7.99	7.92	7.57			2.95
31	4.08	-----	6.55	7.72	-----	8.09	-----	7.99	-----	g 6.00	g 4.00	-----
MEAN	3.37	5.39	6.81	7.20	7.92	7.83	7.93	7.96	7.82			
MAX	4.08	6.44	7.14	7.84	8.20	8.23	8.13	8.23	8.15			
MIN	3.15	4.08	6.46	6.55	7.65	7.57	7.71	7.85	7.56			

g ELEVATION INTERPOLATED.

NOTE.--Add 5,020 ft to obtain elevation above mean sea level, at 2400 hrs.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348900 Galena Creek near Steamboat, Nev.

LOCATION.--Lat 39°21'45", long 119°49'30", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.17 N., R.19 E., Washoe County, on right bank 1 mi (2 km) upstream from Jones Creek, 3.5 mi (5.6 km) upstream from mouth, 4.5 mi (7.2 km) west-southwest of Steamboat, and 12 mi (19 km) south of Reno.

DRAINAGE AREA.--8.5 mi² (22.0 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft (1,704.44 m) above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--12 years, 9.36 ft³/s (0.265 m³/s), 6,780 acre-ft/yr (8.36 km³/yr).

EXTREMES.--Current year: Maximum discharge, 84 ft³/s (2.83 m³/s) May 14, gage height, 3.17 ft (0.966 m); no flow Dec. 5-17.

Period of record: Maximum discharge, 3,670 ft³/s (104 m³/s) Aug. 15, 1965, gage height, not determined, from slope-area measurement of peak flow; no flow for parts of many days most years.

REMARKS.--Records good except those for winter periods, which are poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake during winter months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	9.6	.30	.35	.56	.68	2.4	17	38	15	4.8	4.5
2	9.0	5.4	.20	.40	.56	.68	2.3	19	42	16	4.5	4.8
3	5.8	1.3	.40	.30	.56	.74	2.2	20	42	14	4.5	4.8
4	5.8	1.1	.20	.25	.56	.74	3.0	18	45	10	5.1	4.8
5	5.8	.62	0	.20	.62	.74	5.0	15	53	9.0	5.8	5.1
6	5.4	.50	0	.20	.68	.74	7.0	14	53	9.6	5.8	5.4
7	5.1	.44	0	.20	.68	.74	8.0	17	47	11	5.8	5.1
8	5.1	.32	0	.20	.68	.74	9.0	19	29	12	5.8	5.1
9	5.1	.20	0	.30	.68	.86	10	23	26	9.6	5.4	5.4
10	5.4	.20	0	.60	.68	.74	11	27	24	9.6	5.4	5.4
11	5.4	.26	0	.93	.68	.68	12	27	26	11	5.4	5.4
12	5.1	.20	0	1.5	.68	.74	13	32	25	10	5.4	5.4
13	5.1	.26	0	1.0	.68	.68	13	40	20	12	5.4	5.4
14	5.1	.56	0	.86	.68	.68	11	44	14	12	5.4	5.4
15	5.1	.20	0	.74	.68	.68	10	44	14	10	5.1	5.4
16	5.4	.32	0	4.0	.68	.68	10	38	12	9.6	5.1	5.8
17	6.2	.44	0	1.0	.68	.68	11	45	13	10	5.1	5.9
18	7.5	.20	.20	.68	.62	.62	11	38	13	8.5	5.1	6.0
19	8.0	.32	.80	.68	.62	.62	11	21	12	7.5	5.1	6.2
20	8.0	.20	.68	.56	.68	.60	10	25	12	5.8	4.8	7.5
21	8.5	.26	.68	.68	.74	.50	10	36	12	5.4	5.1	6.6
22	9.0	.32	.74	.62	.74	.40	11	28	14	5.1	5.1	6.6
23	9.0	.20	.68	.68	.80	.50	12	20	19	4.5	5.1	6.6
24	9.6	.20	.74	.74	.80	.60	12	23	17	4.8	5.1	6.6
25	9.6	.25	.68	.74	.80	1.0	12	30	15	4.8	4.2	6.6
26	10	.40	.62	.74	.80	2.0	15	16	15	4.5	4.2	6.2
27	11	.40	.68	.68	.74	3.0	15	20	15	4.8	4.5	6.2
28	12	.40	.32	.68	.74	3.0	20	23	15	4.8	4.5	5.8
29	13	.40	.30	.68	-----	2.9	19	25	15	4.8	4.5	5.4
30	13	.35	.30	.68	-----	2.5	15	28	15	4.8	4.2	5.4
31	12	-----	.30	.62	-----	2.5	-----	30	-----	4.8	4.5	-----
TOTAL	237.1	25.82	8.82	22.49	19.10	32.96	316.9	822	712	265.3	155.8	170.8
MEAN	7.65	.86	.28	.73	.68	1.06	10.6	26.5	23.7	8.56	5.03	5.69
MAX	13	9.6	.80	4.0	.80	3.0	20	45	53	16	5.8	7.5
MIN	5.1	.20	0	.20	.56	.40	2.2	14	12	4.5	4.2	4.5
AC-FT	470	51	17	45	38	65	629	1,630	1,410	526	309	339

CAL YR 1972 TOTAL 2,385.54 MEAN 6.52 MAX 59 MIN 0 AC-FT 4,730
WTR YR 1973 TOTAL 2,789.09 MEAN 7.64 MAX 53 MIN 0 AC-FT 5,530

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-02	0015	2.71	22	5-14	1830	3.17	84
4-28	1930	2.84	26	6-04	1015	3.02	63

NOTE.--No gage-height record Mar. 15 to Apr. 26.

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LOCATION.--Lat 39°22'40", long 119°44'33", in S₂ sec.33, T.18 N., R.20 E., Washoe County, on left bank 250 ft (76.2 m) upstream from Steamboat ditch, 0.2 mi (0.3 km) southwest of Steamboat Post Office, and 11 mi (18 km) southeast of Reno.

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

AVERAGE DISCHARGE.--12 years, 15.6 ft³/s (0.442 m³/s), 11,300 acre-ft/yr (13.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 129 ft³/s (3.65 m³/s) Jan. 16, gage height, 2.51 ft (0.765 m); minimum daily, 0.99 ft³/s (0.028 m³/s) Sept. 19.

Period of record: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 31, 1963, gage height, 5.44 ft (1.658 m), from rating curve extended above 360 ft³/s (10.2 m³/s) by logarithmic plotting; minimum daily, 0.50 ft³/s (0.014 m³/s) Aug. 21, 28, 31, 1964.

REMARKS.--Records excellent. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	9.0	3.8	4.8	3.8	5.4	3.4	7.2	53	4.0	7.2	2.8
2	10	8.4	3.8	5.6	3.9	5.5	3.4	6.3	41	4.0	7.9	3.0
3	6.2	5.4	4.7	5.0	4.0	5.1	3.4	9.0	37	3.5	9.1	3.0
4	6.0	8.9	6.0	4.5	4.1	5.0	3.4	9.9	31	12	9.2	3.0
5	6.4	5.6	4.0	4.5	4.0	4.9	3.6	9.3	28	15	8.8	2.0
6	5.7	4.9	3.6	4.5	4.5	5.0	3.8	8.3	25	14	8.5	1.5
7	4.8	4.6	3.5	4.3	5.2	5.4	4.2	8.4	19	17	8.5	1.4
8	4.9	4.2	3.5	4.5	5.0	5.1	4.0	6.9	21	16	8.2	1.6
9	4.9	4.1	3.5	4.7	4.8	4.5	4.5	8.3	20	14	7.0	1.7
10	4.9	4.2	3.5	4.4	9.7	5.1	4.9	11	19	13	7.3	1.6
11	4.9	4.4	3.5	5.8	8.3	5.9	5.8	15	18	11	7.1	1.4
12	5.1	4.3	3.5	22	7.5	6.2	6.6	17	17	13	5.7	1.2
13	5.1	4.8	3.4	7.1	8.1	10	6.1	23	17	14	4.5	1.1
14	5.1	9.0	3.4	4.8	7.6	9.3	5.0	27	18	14	4.0	1.1
15	5.2	6.0	3.4	4.4	9.2	9.4	5.0	29	16	13	2.6	1.0
16	5.5	5.5	4.5	41	7.6	9.7	8.5	31	15	11	2.4	1.0
17	6.8	5.2	9.9	9.7	6.7	8.9	8.5	33	14	8.5	1.9	1.1
18	12	4.7	11	17	5.9	4.5	6.9	39	14	8.7	2.2	1.1
19	11	4.5	9.6	7.2	5.2	4.4	6.4	42	11	12	2.2	.99
20	11	4.2	6.0	5.3	5.2	4.3	5.5	39	11	16	2.0	1.1
21	9.7	4.2	5.5	5.4	5.2	4.1	5.4	37	9.3	15	2.0	1.1
22	9.3	4.2	6.6	4.6	5.1	4.0	3.8	33	6.5	11	2.0	1.3
23	8.6	4.0	5.2	4.6	5.0	3.5	3.9	32	8.7	11	1.9	1.3
24	8.7	4.5	4.7	4.9	5.0	3.3	5.3	30	10	15	2.0	1.5
25	8.2	4.2	4.4	4.7	4.8	2.8	3.1	28	9.9	17	2.2	1.8
26	8.5	4.2	4.4	4.5	5.3	2.9	5.1	24	8.0	6.0	3.1	1.5
27	8.1	4.2	4.4	4.1	6.1	3.1	11	22	6.3	4.4	3.7	1.7
28	7.7	4.2	4.1	4.1	7.5	3.9	9.4	24	5.0	4.2	3.8	2.3
29	7.2	4.2	4.2	4.0	-----	3.7	9.6	25	6.0	4.1	3.4	2.6
30	7.2	4.0	4.9	4.2	-----	3.2	8.2	27	5.0	5.2	2.8	2.5
31	8.1	-----	5.4	4.2	-----	2.8	-----	50	-----	4.8	2.0	-----
TOTAL	224.1	153.8	151.9	220.4	164.3	161.3	167.5	711.6	519.7	331.4	145.2	50.59
MEAN	7.23	5.13	4.90	7.11	5.87	5.20	5.58	23.0	17.3	10.7	4.68	1.69
MAX	12	9.0	11	41	9.7	10	11	50	53	17	9.2	3.3
MIN	4.8	4.0	3.4	4.0	3.8	2.8	3.1	6.3	5.0	3.5	1.9	.99
AC=FT	445	305	301	457	326	320	332	1,410	1,030	657	288	100
CAL YK 1972	TOTAL 2,545.60											
WTR YK 1973	TOTAL 3,001.79											

PYRAMID AND WINNEMUCCA LAKES BASIN

10350000 Truckee River at Vista, Nev.

LOCATION.--Lat 39°31'05", long 119°40'58", in NW¼NE¼ sec.13, T.19 N., R.20 E., Washoe County, on left bank 800 ft (244 m) downstream from Southern Pacific railroad bridge, 0.9 mi (1.4 km) southeast of Vista, 1.5 mi (2.4 km) downstream from Steamboat Creek, and 4 mi (6 km) southeast of Sparks.

DRAINAGE AREA.--1,429 mi² (3,701 km²).

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft (1,331.546 m) above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Apr. 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to Aug. 17, 1959, water-stage recorder at site 1,200 ft (366 m) upstream at datum 5.59 ft (1.704 m) higher.

AVERAGE DISCHARGE.--45 years, 802 ft³/s (22.71 m³/s), 581,000 acre-ft/yr (716 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,330 ft³/s (66.0 m³/s) Jan. 16, gage height, 6.47 ft (1.972 m); minimum, 344 ft³/s (9.74 m³/s) Oct. 4.

Period of record: Maximum discharge, 21,300 ft³/s (603 m³/s) Feb. 1, 1963, gage height, 16.76 ft (5.108 m) from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 7 ft³/s (0.20 m³/s) Aug. 26, 1935.

Maximum gage height known, 17.04 ft (5.194 m), from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft³/s (425 m³/s).

REMARKS.--Records good. Flow regulated by Lake Tahoe, Stampede, Boca, and Prosser Creek Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft (1.32 km³). Several power plants and many diversions above station.

REVISIONS (WATER YEARS).--WSP 1634: 1904. WSP 1714: Drainage area. WSP 1734: (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	511	584	463	568	685	667	1,010	1,530	530	591	559
2	556	551	568	472	564	690	645	1,070	1,280	526	595	604
3	402	547	550	493	564	667	591	1,060	1,120	555	622	546
4	369	864	560	510	573	658	640	994	988	586	595	538
5	376	726	540	500	550	631	667	1,010	870	582	573	538
6	387	594	520	550	564	654	740	875	810	577	542	582
7	383	599	510	540	604	667	934	820	775	568	546	573
8	394	589	480	525	595	676	892	940	745	568	550	568
9	387	575	460	582	577	672	922	1,010	800	550	510	573
10	373	574	480	541	703	672	870	1,000	904	586	526	555
11	387	608	510	552	730	721	1,170	1,170	1,020	609	522	555
12	450	628	540	1,040	685	681	1,440	1,190	1,100	613	526	542
13	488	659	600	1,050	631	654	1,530	1,360	1,220	618	518	542
14	434	798	696	722	640	654	1,390	1,580	1,090	622	514	542
15	410	703	753	619	618	640	1,350	1,830	940	609	510	573
16	402	644	859	1,290	595	640	1,210	1,830	850	613	514	582
17	475	619	934	1,290	577	654	934	1,810	785	622	502	568
18	585	528	1,260	1,040	582	649	810	1,920	708	627	550	573
19	533	498	1,320	940	568	649	740	1,930	672	654	555	600
20	520	501	1,090	694	573	658	690	1,700	613	640	546	622
21	493	524	974	685	591	636	775	1,440	595	618	534	645
22	450	540	1,170	613	595	636	800	1,230	604	573	530	640
23	430	521	881	604	600	636	845	1,180	618	542	538	640
24	398	526	734	600	600	645	840	1,120	595	502	564	622
25	414	524	652	582	604	663	892	1,190	559	498	591	586
26	430	529	619	568	595	681	886	1,110	568	518	627	613
27	524	538	495	550	631	676	1,040	1,010	555	506	636	609
28	511	571	463	568	735	708	1,100	976	568	534	546	604
29	493	597	452	564	-----	645	1,110	1,030	586	538	514	550
30	502	557	484	582	-----	609	1,100	1,110	542	518	514	530
31	502	-----	487	582	-----	640	-----	1,320	-----	538	486	-----
TOTAL	13,955	17,743	21,225	20,911	17,012	20,447	28,120	38,825	24,610	17,740	16,987	17,374
MEAN	450	591	685	675	608	660	937	1,252	820	572	548	579
MAX	585	864	1,320	1,290	735	721	1,530	1,930	1,530	654	636	645
MIN	369	498	452	463	550	609	591	820	542	498	486	530
AC-FT	27,680	35,190	42,100	41,480	33,740	40,560	55,780	77,010	48,810	35,190	33,690	34,460
CAL YR 1972	TOTAL	221,423	MEAN	605	MAX	1,610	MIN	213	AC-FT	439,200		
WTR YR 1973	TOTAL	254,949	MEAN	698	MAX	1,930	MIN	369	AC-FT	505,700		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10350400 Truckee River below Tracy, Nev.

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Washoe County, on left bank on upstream side of bridge, 200 ft (61 m) downstream from Tracy powerplant, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,118 km²).

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,250 ft (1,295 m) from topographic map.

EXTREMES.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Jan. 16, May 19, gage height, 7.25 ft (2.210 m); minimum, 297 ft³/s (8.41 m³/s) Oct. 10, 24.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Jan. 16, May 19, 1973, gage height, 7.25 ft (2.210 m); minimum, 168 ft³/s (4.76 m³/s) July 13, 1972.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, and other lakes, powerplants, and many diversions for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	454	508	485	535	674	630	933	1,450	505	600	606
2	549	486	513	495	525	660	612	994	1,270	465	594	723
3	419	487	498	505	520	636	600	975	1,110	500	630	630
4	363	708	525	515	530	618	588	916	940	530	618	546
5	359	709	495	495	520	600	626	949	841	525	594	576
6	361	579	480	576	520	588	704	864	748	520	558	606
7	370	566	470	552	564	630	912	765	724	510	546	582
8	394	560	450	535	552	636	884	885	694	510	576	588
9	364	547	413	588	546	642	891	913	752	500	525	600
10	356	543	450	576	642	642	842	921	886	535	525	570
11	350	546	480	576	709	709	1,090	1,060	930	552	540	576
12	392	570	480	910	674	654	1,370	1,130	1,000	546	540	570
13	439	524	564	1,140	594	630	1,440	1,250	1,120	552	530	570
14	405	620	588	849	606	612	1,350	1,390	990	576	530	564
15	405	593	584	723	588	612	1,300	1,630	878	564	530	600
16	359	557	654	1,120	558	618	1,250	1,690	807	558	546	648
17	413	538	730	1,380	546	630	944	1,700	779	612	535	582
18	494	501	1,110	998	552	630	807	1,790	630	558	576	582
19	478	479	1,240	966	530	618	724	1,840	606	606	606	606
20	472	463	1,170	688	530	630	664	1,600	546	600	570	648
21	447	469	1,100	660	552	606	734	1,420	530	594	558	667
22	447	479	1,150	588	558	600	781	1,210	540	600	540	667
23	380	466	958	558	558	606	799	1,120	564	505	570	730
24	355	480	807	558	558	612	794	1,120	582	480	594	660
25	374	483	716	552	576	636	835	1,140	485	490	624	624
26	388	485	681	530	546	660	792	1,100	505	505	674	624
27	454	480	576	515	582	654	953	992	500	500	674	636
28	459	506	510	525	716	674	1,030	954	510	535	600	636
29	445	521	480	525	-----	636	1,060	947	530	552	558	594
30	429	504	500	540	-----	588	920	1,060	495	525	564	558
31	439	-----	515	552	-----	600	-----	1,210	-----	525	552	-----
TOTAL	12,779	15,903	20,395	20,775	15,987	19,541	26,926	36,468	22,942	16,635	17,777	18,369
MEAN	412	530	658	670	571	630	898	1,176	765	537	573	612
MAX	549	709	1,240	1,380	716	709	1,440	1,840	1,450	612	674	730
MIN	350	454	413	485	520	588	588	765	485	465	525	546
AC=FT	25,350	31,540	40,450	41,210	31,710	38,760	53,410	72,330	45,510	33,000	35,260	36,430

WTR YR 1973 TOTAL 244,497 MEAN 670 MAX 1,840 MIN 350 AC=FT 485,000

PYRAMID AND WINNEMUCCA LAKES BASIN

10351300 Truckee Canal near Wadsworth, Nev.

LOCATION.--Lat 39°36'25", long 119°18'35", in NW 1/4 sec. 17, T.20 N., R.24 E., Storey County, on left bank at upstream end of Tunnel No. 3 and 2 mi (3 km) southwest of Wadsworth.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m) from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi (0.5 km) downstream from base gage.

AVERAGE DISCHARGE.--7 years, 295 ft³/s (8.354 m³/s), 213,700 acre-ft/yr (26.3 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 955 ft³/s (27.0 m³/s) June 10, 1970; no flow at times during some years.

REMARKS.--Records fair except those for period Dec. 6 to Apr. 5, which are poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	456	471	35	16	14	16	219	233	217	234	232
2	532	469	471	35	16	14	18	199	225	212	255	267
3	500	480	474	200	16	14	19	196	224	212	263	261
4	370	543	478	420	16	14	21	196	218	221	246	251
5	363	619	473	446	16	14	40	198	222	217	221	243
6	366	566	486	495	16	14	85	193	215	217	244	201
7	370	538	396	365	16	14	94	188	208	222	271	195
8	392	544	35	353	16	14	95	217	226	219	244	190
9	383	548	35	365	16	14	92	222	422	228	265	192
10	366	552	35	383	16	14	96	199	603	245	268	216
11	351	550	35	386	15	14	121	208	688	258	271	294
12	359	569	35	408	15	14	115	227	733	251	246	269
13	422	547	35	207	15	14	81	215	787	259	222	269
14	435	568	35	47	15	14	51	208	781	262	223	278
15	410	618	35	45	14	14	50	206	690	260	259	280
16	379	578	35	45	14	14	42	209	595	260	264	290
17	376	523	35	40	14	14	72	266	437	244	255	284
18	434	334	35	40	14	14	94	284	290	199	245	275
19	477	487	35	35	14	14	80	226	260	190	256	282
20	464	68	35	35	14	14	75	186	267	177	254	289
21	450	14	35	30	0	14	73	199	291	134	250	298
22	438	17	35	30	0	14	73	203	280	145	224	300
23	408	51	35	25	0	14	120	199	276	138	226	306
24	355	223	35	25	14	14	161	189	277	133	229	301
25	354	453	35	20	14	14	165	188	268	187	227	296
26	373	461	35	16	14	14	193	188	271	212	211	294
27	412	468	35	16	14	14	216	182	269	222	192	294
28	460	467	35	16	14	14	197	196	228	227	187	295
29	473	487	35	16	-----	14	199	194	227	232	171	297
30	454	489	35	16	-----	14	208	200	214	230	172	295
31	434	-----	35	16	-----	14	-----	213	-----	224	205	-----
TOTAL	12,752	13,287	4,089	4,611	374	434	2,962	6,413	10,925	6,654	7,300	8,034
MEAN	411	443	132	149	13.4	14.0	98.7	207	364	215	235	268
MAX	532	619	486	495	16	14	216	284	787	262	271	306
MIN	351	14	35	16	0	14	16	182	208	133	171	190
AC-FT	25,290	26,350	8,110	9,150	742	861	5,880	12,720	21,670	13,200	14,480	15,940
CAL YR 1972	TOTAL	119,080.00	MEAN	325	MAX	938	MIN	0	AC-FT	236,200		
WTR YR 1973	TOTAL	77,835.00	MEAN	213	MAX	787	MIN	0	AC-FT	154,400		

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351350 Fernley A Drain near Fernley, Nev.

LOCATION.--Lat 39°36'00", long 119°12'10", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.20 N., R.25 E., Lyon County, on right bank 2.6 mi (4.2 km) east of Fernley.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,115 ft (1,254 m) from topographic map. Prior to Aug. 13, 1971, water-stage recorder at site 60 ft (18 m) upstream at datum 2.64 ft (0.805 m) higher.

AVERAGE DISCHARGE.--5 years, 6.56 ft³/s (0.186 m³/s), 4,750 acre-ft/yr (5.86 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, about 60 ft³/s (1.70 m³/s) July 21, 1971; minimum daily, 0.46 ft³/s (0.013 m³/s) Feb. 6, 1973.

REMARKS.--Records poor. Flow in canal is return flow from lands irrigated by Truckee Canal and discharges to Fernley State Wildlife Management Area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	2.6	1.6	1.1	.50	.85	.80	1.3	2.9	6.0	11	.71
2	5.4	2.6	1.6	1.2	.50	.82	.80	3.4	4.0	11	16	2.4
3	5.0	2.6	1.5	1.2	.50	.82	.85	5.9	4.0	29	17	1.9
4	4.7	2.6	1.6	1.3	.50	.82	.92	5.2	3.9	31	10	.71
5	4.4	2.5	1.7	1.4	.50	.86	.95	3.9	5.2	25	8.0	3.6
6	4.2	2.5	1.5	1.0	.46	.88	.97	3.5	7.0	21	13	6.5
7	4.2	2.4	1.5	1.0	.50	.85	.97	3.1	5.9	22	16	4.2
8	4.8	2.3	1.5	1.0	.50	.87	.96	1.3	4.8	22	21	3.8
9	4.8	2.2	1.4	.95	.60	.84	1.0	1.5	4.3	21	20	2.7
10	7.7	2.2	1.3	.86	.70	.85	1.0	1.7	11	19	14	2.6
11	7.1	2.2	1.3	.93	.80	.89	1.1	3.7	12	11	17	1.3
12	4.0	2.1	1.3	.93	1.0	.86	2.1	5.8	12	6.2	19	3.7
13	3.9	2.1	1.4	.93	1.1	.88	4.0	8.5	11	5.5	17	5.1
14	3.9	2.3	1.4	.90	1.0	.82	2.7	5.3	5.5	5.5	17	2.6
15	3.7	2.1	1.4	.92	1.1	.79	1.0	4.2	5.3	7.0	17	2.2
16	3.6	2.1	1.4	.95	1.0	.74	.80	6.4	8.0	2.8	16	.72
17	3.6	2.0	1.4	.86	1.0	.75	.74	2.7	8.5	10	10	5.0
18	3.9	2.0	1.3	.90	.99	.71	.73	5.7	6.7	31	14	5.5
19	5.7	1.9	1.4	.83	.98	.74	1.3	9.0	11	15	16	6.7
20	4.4	1.8	1.5	.78	1.0	.78	.64	11	6.8	12	14	7.5
21	3.6	1.8	1.5	.70	1.0	.69	.65	6.7	8.8	11	19	6.5
22	3.4	1.8	1.5	.60	1.3	.65	2.3	3.7	12	12	14	5.2
23	3.2	1.8	1.4	.53	.96	.66	2.8	1.9	9.2	11	19	7.2
24	3.1	1.7	1.3	.50	.93	.68	4.7	1.5	6.0	8.7	21	9.8
25	3.1	1.7	1.3	.47	.94	.72	2.0	2.9	5.0	12	19	11
26	3.1	1.7	1.3	.50	.93	.72	1.9	6.1	5.7	12	13	11
27	2.9	1.7	1.3	.50	.90	.73	1.5	10	6.1	14	14	11
28	2.9	1.7	1.2	.50	.84	.75	2.7	13	7.3	17	11	13
29	2.8	1.6	1.1	.50	-----	.79	1.9	6.2	6.0	17	12	15
30	2.7	1.6	1.1	.50	-----	.80	1.8	3.5	6.0	16	10	8.6
31	2.7	-----	1.2	.50	-----	.80	-----	4.3	-----	13	9.7	-----
TOTAL	127.3	62.2	43.2	25.74	23.03	24.41	46.58	152.9	211.9	456.7	464.7	167.74
MEAN	4.11	2.07	1.39	.83	.82	.79	1.55	4.93	7.06	14.7	15.0	5.59
MAX	7.7	2.6	1.7	1.4	1.3	.89	4.7	13	12	31	21	15
MIN	2.7	1.6	1.1	.47	.46	.65	.64	1.3	2.9	2.8	8.0	.71
AC-FT	252	123	86	51	46	48	92	303	420	906	922	333

CAL YR 1972 TOTAL 2,034.28 MEAN 5.56 MAX 26 MIN .87 AC-FT 4,030
WTR YR 1973 TOTAL 1,806.40 MEAN 4.95 MAX 31 MIN .46 AC-FT 3,580

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 Truckee Canal near Hazen, Nev.

LOCATION.--Lat 39°32'15", long 119°04'15", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.19 N., R.26 E., Churchill County, on left bank 0.1 mi (0.2 km) downstream from Hazen check dam and 2.3 mi (3.7 km) southwest of Hazen.

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

GAGE.--Water-stage recorder. Datum of gage is 4,172.10 ft (1,271.656 m) above mean sea level (Bureau of Reclamation datum). Since Mar. 17, 1972, auxiliary water-stage recorder 20 ft (6 m) upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi (10 km) downstream from base gage.

AVERAGE DISCHARGE.--7 years, 216 ft³/s (6.117 m³/s), 156,500 acre-ft/yr (193 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 916 ft³/s (25.9 m³/s) Feb. 3, 1967; no flow at times.

REMARKS.--Records fair above 50 ft³/s (1.42 m³/s) and poor below. Flow regulated by Derby Dam, diversions, and wasteways between Derby Dam and station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	380	455	25	12	13	.60	74	127	54	44	115
2	440	400	458	25	11	13	.80	64	99	60	45	119
3	400	420	457	100	10	10	1.8	60	87	47	126	145
4	330	440	452	350	9.4	6.2	2.0	94	98	86	136	143
5	340	460	465	420	8.5	6.7	2.0	102	80	76	131	120
6	340	520	471	460	8.0	6.2	12	104	76	69	133	115
7	340	510	482	350	8.5	6.2	56	76	74	89	94	110
8	340	510	223	340	9.0	5.8	52	55	76	36	38	86
9	350	511	76	350	9.8	7.2	55	75	170	39	40	101
10	330	494	25	370	11	9.0	64	102	309	62	96	92
11	309	496	25	370	10	5.4	67	89	421	96	119	152
12	305	501	25	380	11	4.4	81	88	436	84	114	136
13	321	501	25	150	10	3.6	40	72	523	65	87	122
14	360	488	25	42	10	6.2	23	57	552	99	51	140
15	374	532	25	40	9.0	9.0	18	42	491	118	62	165
16	361	513	25	56	9.4	9.4	20	30	377	91	86	187
17	332	495	25	28	9.4	7.6	12	52	265	75	131	204
18	330	412	25	34	8.5	9.0	38	101	159	107	102	179
19	370	275	25	22	9.0	10	48	146	100	139	75	193
20	400	92	25	27	9.4	9.0	56	90	66	136	104	187
21	380	11	25	26	9.0	9.8	50	126	124	96	107	213
22	360	10	25	24	8.5	6.2	46	138	144	90	94	202
23	330	54	25	23	6.7	8.0	41	104	139	92	69	189
24	320	203	25	19	2.8	8.5	77	95	148	47	70	185
25	310	414	25	11	.30	5.8	103	102	115	27	101	207
26	320	436	25	5.8	0	2.8	73	83	92	66	77	195
27	340	442	25	2.0	0	1.5	86	67	122	102	96	188
28	360	442	25	2.0	0	.10	37	59	124	120	105	199
29	390	455	25	2.4	-----	.10	23	82	93	134	80	190
30	400	466	25	7.2	-----	.70	57	70	55	98	57	181
31	390	-----	25	12	-----	2.4	-----	46	-----	64	70	-----
TOTAL	10,922	11,883	4,089	4,073.4	220.20	202.80	1,242.20	2,545	5,742	2,564	2,740	4,760
MEAN	352	396	132	131	7.66	6.54	41.4	82.1	191	82.7	88.4	159
MAX	440	532	482	460	12	13	103	146	552	139	136	213
MIN	305	10	25	2.0	0	.10	.60	30	55	27	38	86
AC-FT	21,660	23,570	8,110	8,080	437	402	2,460	5,050	11,390	5,090	5,430	9,440
CAL YR 1972	TOTAL 90,392.80		MEAN 247		MAX 820	MIN 1.0		AC-FT 179,300				
WTR YR 1973	TOTAL 50,983.60		MEAN 140		MAX 552	MIN 0		AC-FT 101,100				

PYRAMID AND WINNEMUCCA LAKES BASIN

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10351600 Truckee River below Derby Dam, near Wadsworth, Nev.

LOCATION.--Lat 39°35'05", long 119°26'25", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.20 N., R.23 E., Storey County, on right bank 1,500 ft (457 m) downstream from Derby Dam, 3.2 mi (5.1 km) downstream from Clark, and 9 mi (14 km) southwest of Wadsworth.

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

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map.

AVERAGE DISCHARGE.--54 years (1918-57, 1958-73), 319 ft³/s (9.034 m³/s), 231,100 acre-ft/yr (285 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,030 ft³/s (57.5 m³/s) Jan. 16, gage height, 5.88 ft (1.792 m); minimum daily, 11 ft³/s (0.312 m³/s) Dec. 4, 5.

Period of record: Maximum discharge, 18,400 ft³/s (521 m³/s) Feb. 1, 1963, gage height, 14.26 ft (4.346 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir.

REVISIONS.--WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	20	13	470	508	680	605	750	1,190	308	358	332
2	87	28	14	477	500	670	596	815	1,000	271	327	398
3	22	35	12	324	500	635	574	795	855	289	367	349
4	22	122	11	127	504	620	556	765	685	327	398	299
5	23	164	11	45	492	596	569	785	587	324	362	310
6	25	64	12	45	489	610	605	715	515	313	299	389
7	33	46	180	45	535	630	820	574	474	308	289	405
8	35	41	330	40	535	630	825	660	385	305	341	401
9	23	29	340	38	523	640	820	745	291	286	263	414
10	26	17	350	35	605	635	775	745	268	291	271	349
11	22	17	360	28	700	710	860	840	266	310	276	273
12	38	21	380	343	680	660	1,080	933	263	313	302	286
13	56	12	400	949	592	630	1,170	1,040	335	313	313	289
14	28	21	450	840	592	605	1,100	1,190	286	338	308	286
15	26	33	519	735	574	596	1,040	1,410	251	318	266	308
16	23	12	675	988	540	605	1,050	1,440	256	316	271	346
17	23	32	730	1,470	523	615	755	1,400	385	349	276	302
18	68	234	1,110	1,010	531	620	601	1,450	376	346	305	294
19	62	349	1,240	968	511	610	519	1,560	362	392	332	318
20	47	382	1,180	700	511	625	463	1,340	305	398	308	343
21	35	395	1,040	645	531	601	515	1,140	271	431	305	370
22	32	408	1,130	565	548	592	565	955	281	414	316	370
23	21	398	1,020	527	508	592	587	890	318	349	332	405
24	22	164	825	531	523	596	535	895	324	318	341	364
25	22	13	740	531	574	625	610	905	253	278	376	335
26	25	12	690	508	544	645	620	895	253	281	442	332
27	33	12	583	485	548	650	760	785	256	281	459	341
28	38	12	496	492	640	670	840	715	302	308	414	341
29	20	14	485	496	-----	635	875	720	332	318	364	316
30	15	14	481	508	-----	565	690	825	308	306	367	263
31	16	-----	500	523	-----	578	-----	911	-----	294	324	-----
TOTAL	1,001	3,121	16,307	15,508	15,361	19,371	21,980	29,588	12,253	9,993	10,292	10,128
MEAN	32.3	104	526	500	549	625	733	954	408	322	332	338
MAX	87	408	1,240	1,470	700	710	1,170	1,560	1,190	431	459	414
MIN	15	12	11	28	489	565	463	574	251	271	263	263
AC=FT	1,990	6,190	32,340	30,760	30,470	38,420	43,600	58,690	24,300	19,820	20,410	20,090
CAL YR 1972	TOTAL	94,189	MEAN	257	MAX	1,240	MIN	11	AC=FT	186,800		
WTR YR 1973	TOTAL	164,903	MEAN	452	MAX	1,560	MIN	11	AC=FT	327,100		

PYRAMID AND WINNEMUCCA LAKES BASIN

10351650 Truckee River at Wadsworth, Nev.

LOCATION.--Lat 39°38'19", long 119°16'09", in SW¹/₄SW¹/₄ sec.34, T.21 N., R.24 E., Washoe County, on right bank 0.5 mi (0.8 km) downstream from U.S. Highway 40 bridge and 0.2 mi (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,719 mi² (4,452 km²).

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

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft (1,230.752 m) above mean sea level, datum of 1929, supplementary adjustment of 1956.

AVERAGE DISCHARGE.--8 years, 619 ft³/s (17.53 m³/s), 448,500 acre-ft/yr (55.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,050 ft³/s (58.1 m³/s) Jan. 17, gage height, 7.84 ft (2.390 m); minimum, 18 ft³/s (0.51 m³/s) Dec. 5.

Period of record: Maximum discharge, 7,790 ft³/s (220 m³/s) Jan. 24, 1970, gage height, 11.65 ft (3.551 m); maximum gage height, 11.90 ft (3.627 m), May 22, 1967; minimum discharge, 3.3 ft³/s (0.094 m³/s) July 14, 1968.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation above and below station, and by Derby Dam which diverts water out of the basin to Lahontan Reservoir. Records of water temperature for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	35	25	463	507	689	617	785	1,230	283	331	309
2	83	43	23	463	495	675	626	831	1,070	249	321	359
3	38	54	25	347	495	648	594	826	897	260	341	341
4	32	97	23	167	499	630	576	810	755	300	376	297
5	35	235	23	60	491	612	594	815	648	302	378	287
6	36	119	23	60	483	599	608	765	576	286	323	353
7	40	74	160	60	533	635	805	648	534	287	256	378
8	43	66	350	55	541	635	848	693	473	275	315	381
9	40	58	360	60	520	648	837	785	332	262	236	398
10	38	38	380	55	585	644	795	800	273	265	239	360
11	35	38	400	47	693	698	942	875	261	289	240	273
12	43	42	420	340	680	662	1,240	984	262	284	260	280
13	70	35	460	1,070	603	639	1,380	1,040	314	283	281	293
14	43	30	500	831	603	617	1,370	1,210	305	303	287	294
15	40	58	550	725	576	617	1,300	1,440	269	292	240	320
16	40	35	650	853	550	617	1,310	1,490	253	291	239	358
17	35	30	800	1,530	524	621	990	1,410	340	333	245	327
18	60	211	1,070	972	528	635	800	1,420	374	375	274	311
19	94	331	1,190	978	516	621	707	1,650	371	408	316	335
20	64	386	1,210	702	524	644	648	1,480	314	410	292	355
21	52	400	1,010	630	541	626	680	1,230	263	462	292	383
22	50	414	1,090	572	559	617	740	1,030	257	432	295	388
23	45	411	1,040	528	533	617	725	942	298	377	301	409
24	40	265	810	533	520	626	653	919	301	345	311	386
25	40	32	725	533	576	639	702	925	259	291	348	359
26	42	27	675	507	554	653	689	942	233	260	424	348
27	48	26	590	479	563	662	765	831	233	266	443	357
28	58	25	487	483	612	671	848	755	271	286	409	359
29	42	25	483	491	-----	657	903	760	308	302	353	343
30	36	26	459	503	-----	585	755	837	293	283	358	286
31	32	-----	487	524	-----	599	-----	914	-----	273	317	-----
TOTAL	1,427	3,666	16,498	15,621	15,404	19,738	25,047	30,842	12,567	9,614	9,641	10,227
MEAN	46.0	122	532	504	550	637	835	995	419	310	311	341
MAX	94	414	1,210	1,530	693	698	1,380	1,650	1,230	462	443	409
MIN	32	25	23	47	483	585	576	648	233	249	236	273
AC-FT	2,830	7,270	32,720	30,980	30,550	39,150	49,680	61,180	24,930	19,070	19,120	20,290
CAL YR 1972	TOTAL	101,077	MEAN	276	MAX	1,210	MIN	23	AC-FT	200,500		
WTR YR 1973	TOTAL	170,292	MEAN	467	MAX	1,650	MIN	23	AC-FT	337,800		

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LOCATION.--Lat 39°46'40", long 119°20'10", in SW¹/₄ NW¹/₄ sec. 18, T.22 N., R.24 E., Washoe County, on right bank 1.0 mi (1.6 km) upstream from Pyramid Indian Reservation diversion dam, 4 mi (6 km) south of Nixon, and 13 mi (21 km) upstream from mouth.

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to current year at site 1.0 mi (1.6 km) downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

AVERAGE DISCHARGE.--16 years, 432 ft³/s (12.23 m³/s), 313,000 acre-ft/yr (386 hm³/yr).

Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) Feb. 2, 1963, gage height, 14.39 ft (4.386 m); minimum daily, 8.1 ft³/s (0.23 m³/s) July 7, 1960.

Flood of Dec. 24, 1955, reached a stage of 14.1 ft (4.298 m), from floodmarks, discharge, 14,000 ft³/s (396 m³/s), by flow-over-dam measurement of peak flow.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi (40 km) upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	49	45	560	538	702	634	780	1,200	287	332	322
2	97	52	44	550	516	683	658	826	1,120	266	345	353
3	72	58	44	492	516	658	622	832	976	262	345	377
4	55	68	45	300	528	640	599	852	852	294	385	325
5	54	189	45	150	528	616	658	846	722	294	397	297
6	56	133	43	80	528	599	599	806	634	297	357	341
7	57	93	55	78	550	640	794	683	594	290	287	385
8	60	84	350	72	577	640	884	670	566	286	318	389
9	65	78	360	78	555	652	852	780	410	280	287	397
10	56	69	390	72	582	646	846	813	315	280	273	385
11	56	58	410	64	735	709	930	858	297	297	262	304
12	54	55	440	217	728	670	1,160	962	294	300	273	287
13	72	58	480	985	652	646	1,330	1,010	311	294	301	297
14	76	52	520	858	628	616	1,350	1,180	357	311	304	301
15	61	57	600	748	599	610	1,280	1,350	315	308	276	315
16	60	68	700	735	582	616	1,280	1,380	287	311	259	333
17	57	51	820	1,460	544	622	1,090	1,350	308	297	269	345
18	57	111	1,050	1,040	555	628	872	1,340	428	397	287	311
19	97	267	1,150	1,030	538	616	774	1,450	397	401	325	322
20	91	361	1,350	800	544	640	709	1,410	381	410	318	349
21	81	373	1,150	683	550	616	703	1,240	280	455	304	377
22	69	389	1,140	634	572	605	768	1,070	266	441	308	385
23	69	393	1,180	566	560	616	761	982	294	410	318	389
24	61	333	936	566	522	634	690	956	304	373	333	401
25	60	90	839	560	588	652	709	950	315	318	361	369
26	58	56	774	544	572	683	716	982	242	280	428	345
27	57	42	709	522	572	709	729	910	252	294	465	357
28	65	45	594	511	599	709	859	820	255	297	455	357
29	70	45	572	528	-----	709	917	820	301	322	389	349
30	56	44	544	528	-----	622	846	872	308	308	377	301
31	51	-----	577	550	-----	604	-----	936	-----	290	349	-----
TOTAL	2,001	3,841	17,956	16,561	16,058	20,008	25,619	30,716	13,581	9,950	10,287	10,365
MEAN	64.5	128	579	534	574	645	854	991	453	321	332	346
MAX	97	393	1,350	1,460	735	709	1,350	1,450	1,200	455	465	401
MIN	51	42	43	84	516	599	599	670	242	262	259	287
AC=FT	5,970	7,620	35,620	32,850	31,850	39,690	50,820	60,930	26,940	19,740	20,400	20,560
CAL YR 1972	TOTAL 104,779	MEAN 286	MAX 1,350	MIN 30	AC=FT 207,800							
WTR YR 1973	TOTAL 176,943	MEAN 485	MAX 1,460	MIN 42	AC=FT 351,000							

BLACK ROCK DESERT BASIN

10352500 McDermitt Creek near McDermitt, Nev.

LOCATION.--Lat 41°58'00", long 117°50'01", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.47 N., R.37 E., Humboldt County, on right bank at mouth of canyon, 6.5 mi (10.5 km) southwest of McDermitt.

DRAINAGE AREA.--225 mi² (583 km²).

PERIOD OF RECORD--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (1,385 m) from topographic map. Prior to May 11, 1972, at site approximately 300 ft (91 m) downstream on left bank at same datum.

AVERAGE DISCHARGE.--25 years, 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 594 ft³/s (16.8 m³/s) Jan. 16, gage height, 4.43 ft (1.350 m); minimum, 1.0 ft³/s (0.028 m³/s) Sept. 11-13.

Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) about Feb. 1, 1963, gage height, 8.64 ft (2.634 m), in gage well, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; no flow for several days in some years.

REMARKS.--Records good except those for winter periods, which are poor. One diversion for about 1,500 acres (6.07 km²) above station.

REVISIONS (WATER YEARS).--WSP 1214: 1949-50 (P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.5	7.8	39	12	94	45	124	38	7.8	4.0	3.2
2	5.3	7.1	9.6	37	13	56	35	116	30	7.6	4.1	2.6
3	5.0	7.2	9.1	33	13	40	33	114	28	7.1	4.2	2.0
4	5.5	8.8	8.0	30	14	36	44	104	25	6.5	4.3	1.8
5	5.4	10	7.0	26	19	30	98	108	22	6.1	4.3	1.7
6	5.2	8.5	7.5	23	35	26	144	106	20	5.4	3.7	1.6
7	5.2	7.7	7.0	22	18	23	114	103	18	4.8	3.5	1.6
8	5.2	8.1	6.5	20	15	25	84	95	16	4.4	3.3	1.5
9	5.5	7.8	5.5	22	18	31	99	90	16	5.5	3.1	1.3
10	5.7	7.6	5.0	30	20	39	115	89	16	5.0	3.0	1.2
11	6.1	8.5	5.0	50	23	62	125	88	17	4.6	2.8	1.0
12	5.9	7.9	5.0	108	23	36	129	87	16	4.8	2.6	1.0
13	5.8	7.6	5.5	182	18	35	147	89	16	4.9	2.4	1.0
14	5.7	8.3	5.5	247	15	25	125	94	17	5.5	2.3	1.2
15	7.4	8.7	6.0	175	17	24	151	98	19	5.3	2.6	1.5
16	7.1	8.6	7.0	199	24	27	193	96	16	5.8	2.4	2.0
17	6.4	8.5	9.0	159	23	28	329	96	15	4.7	2.3	2.7
18	7.0	7.7	10	59	30	21	201	98	15	4.2	2.4	3.0
19	8.4	9.2	12	45	20	24	161	102	15	4.0	2.5	3.0
20	8.9	10	30	31	18	28	136	100	13	4.5	2.5	3.4
21	8.7	10	50	29	22	40	130	84	13	5.6	2.6	3.6
22	7.7	9.0	98	26	23	35	162	73	12	7.7	2.6	3.6
23	7.3	8.0	114	25	25	29	210	64	11	6.3	2.6	3.8
24	6.8	10	86	15	63	38	193	70	13	5.7	2.8	4.3
25	6.6	10	84	17	75	65	179	99	12	5.1	4.5	4.4
26	6.6	11	107	16	61	81	173	72	11	4.7	4.5	4.2
27	6.5	11	85	13	76	94	181	59	11	4.5	4.5	3.8
28	6.6	12	71	14	88	64	210	48	10	4.4	4.4	3.7
29	6.4	9.0	57	14	-----	46	172	42	9.2	4.3	4.5	3.5
30	6.2	9.0	50	14	-----	48	141	37	8.2	4.1	4.2	3.5
31	6.0	-----	42	13	-----	45	-----	35	-----	4.0	4.2	-----
TOTAL	197.7	263.3	1,012.0	1,733	821	1,295	4,259	2,680	498.4	164.9	103.7	76.7
MEAN	6.38	8.78	32.6	55.9	29.3	41.8	142	86.5	16.6	5.32	3.35	2.56
MAX	8.9	12	114	247	88	94	329	124	38	7.8	4.5	4.4
MIN	5.0	6.5	5.0	13	12	21	33	35	8.2	4.0	2.3	1.0
AC-FT	392	522	2,010	3,440	1,630	2,570	8,450	5,320	989	327	206	152

CAL YR 1972 TOTAL 16,535.0 MEAN 45.2 MAX 628 MIN 2.5 AC-FT 32,800
 WTR YR 1973 TOTAL 13,104.7 MEAN 35.9 MAX 329 MIN 1.0 AC-FT 25,990

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-23	0400	2.79	128	4-06	2200	3.26	223
1-16	2200	4.43	594	4-17	0300	3.89	397
2-28	2400	2.88	152	4-28	0100	3.40	255

BLACK ROCK DESERT BASIN

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10353000 East Fork Quinn River near McDermitt, Nev.

LOCATION.--Lat 41°59'00", long 117°35'00", in sec.9, T.47 N., R.39 E., Humboldt County, on right bank 1 mi (2 km) downstream from South Fork and 7 mi (11 km) east of McDermitt.

DRAINAGE AREA.--140 mi² (363 km²), approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m) from topographic map.

AVERAGE DISCHARGE.--25 years, 26.1 ft³/s (0.739 m³/s), 18,910 acre-ft/yr (23.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 281 ft³/s (7.96 m³/s) Apr. 17, gage height, 4.82 ft (1.469 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 12.

Period of record: Maximum discharge, 1,270 ft³/s (36.0 m³/s) Jan. 15, 1956, gage height, 8.52 ft (2.597 m); minimum, 0.10 ft³/s (0.003 m³/s) Sept. 6, 7, 1955.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.1	6.7	19	11	33	38	119	23	4.2	1.7	2.1
2	4.2	5.4	7.1	19	11	29	37	111	20	4.0	1.8	2.1
3	4.0	5.3	7.3	16	12	28	35	102	19	3.7	2.2	2.1
4	5.0	7.6	5.2	13	12	25	39	91	18	3.5	1.9	2.0
5	5.2	8.0	3.6	12	13	23	70	106	16	3.2	1.9	2.0
6	4.8	7.0	3.5	12	13	22	100	93	15	3.1	1.8	1.9
7	4.6	6.7	3.3	11	13	21	80	85	13	3.0	1.8	2.0
8	4.5	6.7	3.0	10	12	20	70	80	12	3.0	1.7	2.5
9	4.7	6.4	3.0	12	12	21	80	76	12	2.8	1.7	2.2
10	4.9	6.4	3.0	16	12	23	90	71	12	2.7	1.7	2.2
11	4.7	6.4	3.0	20	12	31	95	67	11	2.6	1.6	2.1
12	4.6	6.4	3.2	30	12	27	105	64	10	2.6	1.5	2.1
13	4.5	6.2	3.2	35	12	27	125	62	9.5	2.8	1.5	2.1
14	4.5	6.2	3.2	43	12	25	115	59	11	3.2	1.5	2.1
15	4.5	6.4	3.5	47	12	23	130	55	12	3.2	1.4	2.2
16	4.8	6.4	4.0	45	12	24	160	51	10	2.9	1.4	2.2
17	4.8	6.1	5.0	42	13	28	250	50	11	2.8	1.4	2.2
18	4.9	6.0	7.6	40	13	25	225	48	11	2.9	1.4	2.2
19	5.2	6.5	13	35	11	26	200	45	9.3	3.0	1.4	2.2
20	5.4	6.7	19	30	11	28	180	42	8.2	3.3	1.4	2.7
21	5.1	5.2	21	26	12	35	170	39	7.3	3.4	1.4	2.8
22	4.9	3.8	24	23	12	35	190	36	6.7	3.2	1.4	2.8
23	4.8	4.3	26	21	12	32	230	33	6.6	2.9	1.4	3.2
24	4.8	6.0	28	20	13	34	220	34	6.6	2.6	1.4	3.9
25	4.7	6.3	27	18	14	46	210	40	5.8	2.2	2.0	4.7
26	4.8	7.6	25	17	15	57	210	34	5.2	2.1	1.8	3.9
27	4.5	7.0	23	13	21	58	230	29	4.8	2.0	1.7	3.6
28	4.6	7.3	21	14	28	46	204	26	4.5	2.0	1.7	3.4
29	5.0	7.4	20	15	-----	41	162	24	4.4	1.9	1.7	3.3
30	4.0	6.7	21	14	-----	40	134	22	4.1	1.8	1.7	3.3
31	3.9	-----	21	13	-----	38	-----	22	-----	1.7	2.0	-----
TOTAL	145.3	189.5	367.4	701	368	971	4,184	1,816	319.0	88.3	50.9	78.1
MEAN	4.69	6.32	11.9	22.6	13.1	31.3	139	58.6	10.6	2.85	1.64	2.60
MAX	5.4	8.0	28	47	28	58	250	119	23	4.2	2.2	4.7
MIN	3.9	3.8	3.0	10	11	20	35	22	4.1	1.7	1.4	1.9
AC=FT	288	376	729	1,390	730	1,930	8,300	3,600	633	175	101	155

CAL YR 1972 TOTAL 17,798.8 MEAN 48.6 MAX 683 MIN 2.0 AC=FT 35,300

WTR YR 1973 TOTAL 9,278.5 MEAN 25.4 MAX 250 MIN 1.4 AC=FT 18,400

Peak discharge (base, 100 cfs).--Apr. 17 (unk.) 281 cfs (4.82 ft); Apr. 27 (2000) 274 cfs (4.77 ft).

Note.--No gage-height record Dec. 20 to Jan. 24, Apr. 5-27.

BLACK ROCK DESERT BASIN

10353500 Quinn River near McDermitt, Nev.

LOCATION.--Lat 41°47'00", long 117°48'00", in SW_{1/4} sec.15, T.45 N., R.37 E., Humboldt County, on left bank 1.5 mi (2.4 km) upstream from Flat Creek and 15.5 mi (24.9 km) south of McDermitt.

DRAINAGE AREA.--1,100 mi² (2,849 km²), approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,240 ft (1,292 m) from river-profile map.

AVERAGE DISCHARGE.--25 years, 32.8 ft³/s (0.928 m³/s), 23,760 acre-ft/yr (29.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 478 ft³/s (13.5 m³/s) Apr. 28, gage height, 4.09 ft (1.247 m); minimum, 0.37 ft³/s (0.010 m³/s) Aug. 12-16, Sept. 7.

Period of record: Maximum discharge, 1,580 ft³/s (44.7 m³/s) Apr. 27, 1952, gage height, 8.39 ft (2.557 m); no flow for some days in some years.

REMARKS.--Records good. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.96	.93	3.6	12	35	49	318	41	2.2	.64	.58
2	.84	.95	.93	3.1	12	45	9.3	272	55	2.3	.70	.58
3	.87	.96	.97	2.7	12	45	6.3	239	46	2.1	.69	.56
4	1.1	1.2	.93	2.5	13	42	5.3	226	39	1.9	.71	.56
5	.92	.97	.94	2.2	14	39	4.8	245	34	1.7	.56	.58
6	.85	.94	.98	2.1	16	35	7.0	236	29	1.6	.50	.58
7	.90	.94	.93	1.9	19	33	29	208	26	1.4	.50	.50
8	.91	.93	.98	1.8	19	30	34	164	22	1.3	.50	.58
9	.92	.94	1.0	1.9	18	29	33	141	19	1.0	.50	.59
10	.92	1.0	1.0	1.9	21	31	49	152	17	.98	.50	.61
11	.84	1.0	1.0	2.2	20	35	62	135	15	.86	.50	.58
12	.85	1.0	1.0	6.8	19	44	94	102	13	.87	.43	.58
13	.87	1.0	1.0	10	18	51	178	100	11	.95	.43	.66
14	.84	1.1	1.0	20	17	49	324	98	11	1.0	.43	.63
15	.84	1.0	.98	62	15	42	397	92	10	1.0	.43	.65
16	.85	1.0	.93	36	15	40	344	84	9.4	1.0	.43	.64
17	.88	.96	.93	80	17	39	330	75	7.6	1.0	.50	.63
18	.83	.98	.93	82	16	40	406	68	7.3	.98	.43	.65
19	.94	1.1	.93	67	15	37	401	70	7.1	.97	.54	.67
20	.88	.97	.93	49	15	38	355	67	6.7	.94	.64	.73
21	.84	.93	.93	40	13	43	299	60	6.0	.92	.66	.70
22	.94	.93	4.0	24	12	52	260	56	5.5	.93	.64	.71
23	.93	.93	12	16	13	48	283	51	4.9	.83	.63	.76
24	.93	.93	13	12	14	45	348	50	4.5	.81	.57	.90
25	.96	.94	11	12	16	47	383	67	4.2	.76	.67	.76
26	.94	.95	14	12	19	52	399	69	3.9	.75	.52	.69
27	.95	.93	9.3	12	20	59	390	72	3.4	.76	.56	.69
28	.93	.93	7.5	13	24	69	454	72	3.0	.77	.50	.66
29	.91	.94	6.0	12	-----	65	454	63	2.7	.71	.57	.69
30	.89	.94	5.0	12	-----	62	383	51	2.4	.67	.58	.77
31	.87	-----	4.1	12	-----	62	-----	44	-----	.64	.61	-----
TOTAL	27.89	29.25	106.05	615.7	454	1,383	6,770.7	3,747	466.6	34.60	17.07	19.47
MEAN	.90	.98	3.42	19.9	16.2	44.6	226	121	15.6	1.12	.55	.65
MAX	1.1	1.2	14	82	24	69	454	318	55	2.3	.71	.90
MIN	.83	.93	.93	1.8	12	29	4.8	44	2.4	.64	.43	.50
AC=FT	55	58	210	1,220	901	2,740	13,430	7,430	926	69	34	39
CAL YR 1972	TOTAL 28,468.06	MEAN 77.8	MAX 1,100	MIN .83	AC=FT 56,470							
WTR YR 1973	TOTAL 13,671.33	MEAN 37.5	MAX 454	MIN .43	AC=FT 27,120							

BLACK ROCK DESERT BASIN

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10353700 Leonard Creek near Denio, Nev.

LOCATION.--Lat 41°31'40", long 118°42'45", in SE $\frac{1}{4}$ sec.25, T.42 N., R.28 E., Humboldt County, on right bank 0.3 mi (0.5 km) upstream from concrete diversion structure, 0.7 mi (1.1 km) upstream from Leonard creek Ranch buildings, about 18 mi (29 km) upstream from Quinn River, and 32 mi (51 km) south of Denio.

DRAINAGE AREA.--52 mi² (135 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,310 m) from topographic map AMS. Prior to Aug. 21, 1969, at site 50 ft (15 m) downstream at datum 0.28 ft (0.085 m) lower.

AVERAGE DISCHARGE.--13 years, 4.88 ft³/s (0.138 m³/s), 3,540 acre-ft/yr (4.36 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 111 ft³/s (3.14 m³/s) Jan. 13, gage height, 2.34 ft (0.713 m); minimum, 0.85 ft³/s (0.024 m³/s) Dec. 5, result of freeze-up.

Period of record: Maximum discharge, 612 ft³/s (17.3 m³/s) Feb. 1, 1963, gage height, 4.98 ft (1.518 m), from rating curve extended above 15 ft³/s (0.42 m³/s) on basis of slope-area measurement of peak flow; no flow for part of each day July 23 to Aug. 5, 1961, Jan. 11, 12, 1963.

REMARKS.--Records good except those for winter periods, and periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.8	3.4	1.6	2.6	8.9	3.7	13	15	5.4	3.5	2.8
2	2.6	2.9	3.2	1.7	2.7	5.0	3.4	12	12	5.2	3.4	2.8
3	2.5	2.9	3.0	1.6	2.9	3.9	3.7	12	11	4.8	3.4	2.8
4	2.6	3.9	2.4	1.5	2.8	3.4	6.2	11	10	4.6	3.4	2.6
5	2.8	3.0	1.6	1.4	3.2	3.2	11	12	8.6	4.4	3.5	2.5
6	2.8	2.9	1.8	1.4	3.4	3.0	12	11	8.8	4.4	3.2	2.4
7	2.8	3.0	1.6	1.4	19	3.2	8.2	11	8.2	4.4	3.0	2.5
8	2.8	3.0	1.5	1.3	7.0	3.9	7.9	12	8.6	4.4	2.8	2.8
9	2.9	3.0	1.4	1.4	4.1	4.3	9.9	14	9.0	4.2	2.6	2.6
10	3.4	3.2	1.3	1.5	5.8	6.0	11	16	9.4	4.0	2.5	2.5
11	3.0	3.0	1.2	1.8	4.1	8.2	12	18	9.0	3.8	2.4	2.5
12	2.9	3.0	1.4	4.1	3.7	4.1	12	20	9.4	4.0	2.5	2.4
13	3.0	3.2	1.5	5.2	3.4	2.8	11	23	10	4.2	2.4	2.4
14	3.2	3.7	1.4	9.6	3.2	3.4	14	25	8.9	4.0	2.5	2.4
15	3.0	3.2	1.8	5.0	3.0	3.5	12	24	8.6	3.8	2.4	2.5
16	3.0	3.4	2.2	2.6	3.5	3.9	11	24	8.4	3.6	2.3	2.5
17	3.0	2.9	2.6	5.5	3.9	3.7	16	26	8.8	3.6	2.3	2.5
18	3.0	3.0	3.0	3.7	4.1	3.2	13	23	8.6	3.6	2.3	2.5
19	3.2	3.2	3.0	3.4	4.1	3.4	14	20	8.4	3.9	2.5	2.8
20	3.5	3.0	3.2	2.8	4.4	4.1	9.6	18	9.0	3.9	2.5	3.2
21	3.0	3.0	3.5	3.0	4.3	4.4	9.9	17	8.8	4.0	2.4	3.2
22	3.0	2.9	4.8	2.7	4.4	3.9	11	16	8.4	4.4	2.4	3.0
23	3.0	2.9	3.2	2.6	5.8	3.5	12	16	7.8	4.2	2.4	3.4
24	2.9	3.1	3.2	2.6	11	4.3	11	16	7.6	4.0	2.6	3.7
25	3.0	3.2	3.0	2.8	9.2	5.3	11	15	7.4	3.8	3.5	4.1
26	3.0	3.7	2.9	2.5	7.9	6.5	10	14	7.2	3.7	3.4	3.4
27	3.0	3.2	2.9	2.6	14	8.6	13	13	7.0	3.6	2.9	3.0
28	3.0	3.4	1.9	2.8	21	5.3	17	12	6.6	3.6	2.8	3.0
29	2.8	3.2	1.7	2.9	-----	4.1	15	11	6.2	3.6	2.6	2.9
30	2.7	3.2	1.6	3.1	-----	4.1	14	12	5.8	3.5	2.5	2.8
31	2.7	-----	1.7	2.8	-----	3.9	-----	12	-----	3.5	2.5	-----
TOTAL	90.9	94.0	72.9	139.1	168.5	139.0	325.5	499	260.5	126.1	85.0	84.5
MEAN	2.93	3.13	2.35	4.49	6.02	4.48	10.9	16.1	8.68	4.07	2.74	2.82
MAX	3.5	3.9	4.8	32	21	8.9	17	26	13	5.4	3.5	4.1
MIN	2.5	2.8	1.2	1.3	2.6	2.8	3.4	11	5.8	3.5	2.3	2.4
AC-FT	180	186	145	276	334	276	646	990	517	250	169	168

CAL YR 1972 TOTAL 2,042.7 MEAN 5.58 MAX 19 MIN 1.2 AC-FT 4,050
 WTR YR 1973 TOTAL 2,085.0 MEAN 5.71 MAX 32 MIN 1.2 AC-FT 4,140

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
1-13	1500	2.34	111	4-14	1900	1.45	28
1-16	1500	1.98	75	4-28	unk.	1.42	26
2-07	1400	1.69	47	5-17	unk.	1.44	27
2-28	1800	1.61	41				

NOTE.--No gage-height record Apr. 19 to Aug. 14.

ALVORD LAKE BASIN

10406500 TROUT CREEK NEAR DENIO, NEV.

LOCATION.--Lat 42°09'20", long 118°27'30", in SW¼ sec.26, T.39 S., R.36 E., Harney County, on right bank 0.4 mi (0.6 km) upstream from bridge at mouth of canyon, 5 mi (8 km) east of Trout Creek Ranch, and 14 mi (23 km) northeast of Denio.

DRAINAGE AREA.--88 mi² (228 km²), approximately.

PERIOD OF RECORD.--March 1911 to March 1912, April 1922 to November 1923, March 1925 to September 1931 (irrigation seasons only), April 1932 to current year. Prior to Oct. 1, 1961, published as "near Denio, Oreg."

GAGE.--Water-stage recorder. Datum of gage is 4,351.52 ft (1,326.343 m) above mean sea level. Mar. 25, 1911, to Mar. 31, 1912, non-recording gage at bridge 0.4 mi (0.6 km) downstream at different datum. Apr. 28, 1922, to June 14, 1932, water-stage recorder at site 10 ft (3 m) upstream at datum 0.50 ft (0.152 m) higher.

AVERAGE DISCHARGE.--42 years (1922-23, 1932-73), 15.2 ft³/s (0.430 m³/s), 11,010 acre-ft/yr (13.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 180 ft³/s (5.10 m³/s) May 16, gage height, 3.70 ft (1.128 m); minimum, 3.3 ft³/s (0.093 m³/s) Aug. 18, 19, but may have been less during period of ice effect.

Period of record: Maximum discharge, 470 ft³/s (13.3 m³/s) Aug. 1, 1933, gage height, 5.26 ft (1.603 m), from rating curve extended above 230 ft³/s (6.51 m³/s); minimum observed, 0.10 ft³/s (0.030 m³/s) Aug. 4, 1930, Aug. 1, Sept. 12, 28, 1934. Probably no flow at times Sept. 1-19, 1931.

Maximum stage, 6.0 ft (1.83 m), caused by cloudburst, probably occurred in 1924 or 1925.

REMARKS.--Records good. No regulation. Diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1564: 1932, 1933-34(M), 1938(M). WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.5	8.9	6.0	12	8.7	16	74	40	11	4.1	5.3
2	6.7	7.3	8.9	5.5	11	7.3	15	74	42	11	4.5	5.3
3	6.7	7.3	8.0	5.3	10	8.1	13	74	40	10	4.9	5.3
4	6.5	9.2	6.5	5.2	9.8	9.2	14	75	36	9.2	5.3	4.9
5	6.5	9.5	5.6	5.1	9.5	8.4	14	76	33	9.2	5.3	4.5
6	6.5	8.1	5.6	5.1	9.0	8.1	15	78	30	11	4.9	4.4
7	6.7	8.1	5.6	5.1	8.7	7.8	19	80	27	8.9	4.7	4.5
8	6.7	8.3	5.4	5.2	8.5	8.4	21	84	25	8.7	4.7	5.5
9	6.7	8.6	5.2	5.5	8.3	8.1	22	88	25	8.4	3.9	5.3
10	8.4	9.0	5.0	6.0	8.1	8.9	27	94	24	7.8	3.9	4.9
11	7.3	9.6	5.0	7.0	8.0	9.5	32	100	23	7.3	4.2	4.7
12	7.0	9.8	5.0	8.5	7.8	8.9	38	115	21	9.2	4.2	4.5
13	6.3	10	5.0	12	7.8	10	48	125	24	11	3.7	4.4
14	6.7	11	5.0	16	8.9	8.9	52	140	27	11	3.7	4.2
15	7.5	11	5.0	15	8.4	9.2	52	148	24	10	3.7	4.5
16	7.5	10	8.0	15	7.8	11	61	151	21	9.5	3.9	4.5
17	7.0	9.2	40	15	8.1	11	70	144	22	9.2	3.7	4.5
18	7.0	8.6	51	14	7.3	9.5	73	138	22	9.2	3.7	4.4
19	7.8	8.0	42	13	8.1	11	72	134	19	10	3.7	4.4
20	11	7.0	29	12	8.9	12	66	124	17	9.8	3.7	4.9
21	8.4	6.6	19	12	8.1	15	60	103	15	9.8	3.7	5.1
22	7.8	6.2	14	13	7.5	14	57	88	15	9.5	3.6	4.9
23	7.6	6.0	13	13	8.7	14	66	78	14	8.7	3.9	5.3
24	7.3	6.0	13	14	8.4	15	74	83	17	7.8	4.5	6.7
25	7.0	7.6	12	14	8.1	16	78	90	15	7.3	5.1	7.5
26	7.0	9.8	11	14	8.1	17	80	72	14	6.7	5.5	6.3
27	6.7	9.2	12	13	8.4	17	80	61	14	6.7	5.1	6.1
28	7.0	9.2	11	13	8.4	18	78	60	13	4.2	4.9	5.7
29	7.0	8.9	9.0	10	-----	16	76	56	13	3.9	4.9	5.5
30	6.7	8.7	7.5	13	-----	17	75	46	12	3.9	4.7	5.3
31	6.3	-----	6.5	12	-----	17	-----	37	-----	3.9	4.9	-----
TOTAL	222.3	255.3	387.7	322.5	241.7	360.0	1,464	2,890	684	263.8	135.2	153.3
MFAN	7.17	8.51	12.5	10.4	8.63	11.6	48.8	93.2	22.8	8.51	4.36	5.11
MAX	11	11	51	16	12	18	80	151	42	11	5.5	7.5
MIN	6.3	6.0	5.0	5.1	7.3	7.3	13	37	12	3.9	3.6	4.2
AC-FT	441	506	769	640	479	714	2,900	5,730	1,360	523	268	304

CAL YP 1972 TOTAL 8,317.0 MEAN 22.7 MAX 87 MIN 4.4 AC-FT 16,500
WTR YR 1973 TOTAL 7,379.8 MEAN 20.2 MAX 151 MIN 3.6 AC-FT 14,640

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, on right bank 0.2 mi (0.3 km) upstream from maximum flow line of Oakley Reservoir, 5 mi (8 km) upstream from Trapper Creek, 5 mi (8 km) south of Oakley Dam, and 9 mi (14.5 km) southwest of Oakley.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

AVERAGE DISCHARGE.--59 years, 45.4 cfs (1.29 cu m/s), 32,890 acre-ft/yr (40.55 cu hm/yr); 15-year base period (1952-67), 38.0 cfs (1.08 cu m/s).

Period of record: Maximum discharge, 3,240 cfs (91.8 cu m/s) Feb. 11, 1962 (gage height, 9.3 ft or 283 m), from rating curve extended above 200 cfs (5.66 cu m/s) on basis of slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947.

REVISIONS.--WSP 1567: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	32	41	38	33	63	73	263	98	18	20	17
2	22	35	39	37	32	66	73	260	98	18	18	20
3	24	39	38	37	35	70	67	235	94	17	18	21
4	25	37	35	26	42	71	64	235	88	12	21	21
5	49	39	22	17	42	72	66	238	84	13	24	19
6	34	37	24	18	43	69	86	254	77	12	26	16
7	26	38	29	20	43	67	77	258	70	8.8	23	16
8	25	37	35	24	44	67	67	279	58	8.0	20	16
9	29	37	24	28	42	65	80	292	49	9.4	19	19
10	26	37	14	31	41	62	98	289	47	9.1	18	19
11	28	37	18	35	40	56	98	292	44	7.8	16	19
12	26	37	26	44	40	62	111	296	42	9.7	13	20
13	25	37	38	52	42	64	136	287	34	12	12	18
14	24	37	36	56	40	67	164	272	47	14	12	17
15	25	38	33	58	42	59	185	270	63	15	13	16
16	22	38	33	55	42	65	190	263	65	16	14	16
17	22	40	34	50	44	72	189	254	54	14	11	15
18	25	40	38	47	53	61	189	240	50	16	10	15
19	24	40	44	41	46	58	181	238	51	16	10	15
20	31	42	48	33	43	58	166	242	52	18	10	15
21	55	39	53	31	44	66	151	227	45	31	13	17
22	57	35	56	23	45	69	144	210	38	32	18	20
23	44	38	55	24	57	64	139	181	33	39	21	25
24	38	41	54	25	64	56	146	162	30	32	23	25
25	34	42	51	27	64	69	150	164	29	28	21	27
26	37	40	48	26	66	83	167	174	26	30	18	26
27	34	38	46	25	68	93	189	154	25	25	16	26
28	34	36	45	27	64	89	216	138	25	23	14	26
29	34	38	39	30	-----	83	238	125	24	23	14	23
30	33	40	35	37	-----	76	251	111	20	22	13	20
31	31	-----	41	37	-----	74	-----	100	-----	22	14	-----
TOTAL	966	1,141	1,172	1,059	1,301	2,116	4,151	7,003	1,560	570.8	513	585
MEAN	31.2	38.0	37.8	34.2	46.5	66.3	138	226	52.0	18.4	16.5	19.5
MAX	57	42	56	58	68	93	251	296	98	39	26	27
MIN	22	32	14	17	32	56	64	100	20	7.8	10	15
AC-FT	1,920	2,260	2,320	2,100	2,580	4,200	8,230	13,890	3,090	1,130	1,020	1,160

CAL	YR 1972	TOTAL	28,418.2	MEAN	77.6	MAX	348	MIN	7.1	AC-FT	56,370
WTR	YR 1973	TOTAL	22,137.8	MEAN	60.7	MAX	296	MIN	7.8	AC-FT	43,910

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, on right bank in canyon, 630 ft (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

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."

AVERAGE DISCHARGE.--61 years (1910-16, 1918-73), 138 cfs (3.91 cu m/s), 99,980 acre-ft/yr (123 cu hm/yr);
15-year base period (1952-67), 123 cfs (3.48 cu m/s).

EXTREMES.--Current year: Maximum discharge, 847 cfs (24.0 cu m/s) Apr. 30, gage height, 7.51 ft (2.29 m); minimum, 14 cfs (0.396 cu m/s) Aug. 25, gage height, 4.15 ft (1.26 m).
Period of record: Maximum discharge, 1,970 cfs (55.8 cu m/s) Feb. 12, 1962, gage height, 12.65 ft (3.86 m), from floodmark, from rating extended above 900 cfs on basis of contracted-opening measurement of peak flow, but may have been exceeded by peak of Feb. 24, 1943; minimum, 2.6 cfs (0.074 cu m/s) Sept. 4, 1961, gage height, 3.37 ft (1.03 m).

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 sq hm) (1966 determination). Salmon Dam of Salmon River Canal Co. is 15 mi (24.1 km) downstream (see sta 13106500).

REVISIONS (WATER YEARS).--WSP 1934: 1943(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	69	92	77	68	502	312	734	329	77	45	32
2	60	73	90	72	66	452	286	603	390	72	40	30
3	58	76	93	79	74	273	257	545	327	68	42	31
4	65	78	94	54	86	199	287	544	291	67	53	29
5	73	82	39	41	86	172	346	560	262	65	58	28
6	79	83	58	42	88	151	457	582	237	63	50	27
7	74	82	70	46	87	139	553	563	213	59	48	27
8	69	82	71	52	90	142	574	577	201	57	44	29
9	66	81	59	58	85	147	512	568	201	56	38	33
10	78	80	51	63	84	151	470	554	191	49	37	32
11	75	80	49	65	84	212	465	557	184	47	35	32
12	69	83	56	77	85	181	519	563	176	46	34	34
13	66	81	63	138	82	159	632	560	170	48	34	32
14	66	77	62	474	81	133	774	553	192	54	33	30
15	61	81	60	500	79	130	776	558	290	65	32	30
16	62	82	59	252	79	130	710	561	274	66	31	30
17	67	84	61	195	83	148	673	564	222	59	31	31
18	67	80	70	150	89	136	699	592	195	47	28	31
19	71	81	80	126	82	129	633	667	179	53	28	35
20	95	82	89	97	77	128	543	679	164	58	29	43
21	118	78	110	112	77	161	478	650	145	63	27	49
22	109	68	121	102	78	136	433	586	128	72	28	50
23	96	60	119	96	90	109	384	534	119	80	25	50
24	88	68	121	95	118	123	402	492	114	75	19	52
25	84	70	112	99	181	170	442	493	108	69	15	51
26	82	73	102	95	370	268	495	500	100	62	17	52
27	80	81	99	73	405	411	576	433	90	53	18	52
28	77	93	96	58	366	386	672	374	87	50	20	52
29	78	95	70	70	-----	318	774	344	86	49	22	52
30	75	98	61	83	-----	292	826	314	84	54	21	51
31	71	-----	87	83	-----	297	-----	298	-----	49	23	-----
TOTAL	2,339	2,381	2,464	3,624	3,320	6,485	15,960	16,702	5,749	1,852	1,005	1,137
MEAN	75.5	79.4	79.5	117	119	209	532	539	192	59.7	32.4	37.9
MAX	118	98	121	500	405	502	826	734	390	80	58	52
MIN	58	60	39	41	66	109	257	298	84	46	15	27
AC-FT	4,640	4,720	4,890	7,190	6,590	12,860	31,660	33,130	11,400	3,670	1,990	2,260
CAL YR 1972	TOTAL 83,518		MEAN 228	MAX 990	MIN 12	AC-FT 165,700						
WTR YR 1973	TOTAL 63,018		MEAN 173	MAX 826	MIN 15	AC-FT 125,000						

SALMON FALLS CREEK BASIN

167

13106500 Salmon River Canal Co. reservoir near Rogerson, Idaho

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Bureau of Land Management lands, at dam on Salmon Falls Creek, 7.5 mi (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 sq mi (4,170 sq km), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) above mean sea level.

EXTREMES.--Current year: Maximum contents observed, 147,800 acre-ft (182 cu hm) May 19 gage height, 69.30 ft (21.12 m); minimum observed, 67,400 acre-ft (83.1 cu hm) Sept. 20, gage height, 38.95 ft (11.87 m).
Period of record: Maximum contents observed, 158,000 acre-ft (195 cu hm) June 15 1972, gage height, 72.52 ft (22.10 m); minimum observed, 125 acre-ft (0.154 cu hm) Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft (0.03 m).

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft (225 cu hm) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 cu hm). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

Capacity table (gage height, in feet, and contents, in acre-feet)

30.0	48,800	60.0	120,600
40.0	69,800	70.0	150,000
50.0	93,800		

CONTENTS, IN ACRE-FEET, FOR STATISTIC 00011, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89,600	90,800	91,900	93,200	96,900	100,100	109,100	134,800	144,300	127,100	96,600	71,900
2					96,900	100,900	109,600	136,100	143,700	126,100	95,800	71,200
3	89,600				96,900	101,600	110,100	137,000	143,200	125,100	94,900	70,800
4	89,600			93,200	96,900	101,900	110,400	137,900	143,000	124,200	94,100	70,300
5			92,000	93,300	97,000	102,100	110,900	138,800	142,500	123,200	93,200	69,800
6	89,800			93,300	97,100	102,500	111,400	139,700	142,000	122,200	92,400	69,400
7	89,800		92,100		97,100	102,600	112,100	140,600	141,300	121,100	91,500	68,900
8	89,900	90,800			97,300	102,700	113,000	141,400	140,700	120,000	90,900	68,500
9		90,900	91,900		97,400	102,800	113,900	142,400	140,100	118,800	90,000	67,900
10					97,500	103,000	114,800	143,200	139,400	117,800	89,200	67,800
11	90,000				97,600	103,300	115,600	144,200	138,600	116,600	88,500	67,800
12		91,000			97,600	103,500	116,300	145,200	137,900	115,300	87,800	
13		91,000		93,500	97,700	103,700	117,200	146,000	137,000	114,200	87,000	
14				93,800	97,800	103,800	118,100	146,900	136,400	113,000	86,200	67,700
15		91,100		94,300	97,800	104,000	119,200	147,200	135,800	111,800	85,300	
16			92,000	94,800	97,800	104,200	120,600	147,500	135,500	110,600	84,500	
17	90,100	91,200		95,500	97,900	104,300	121,900	147,600	135,100	109,800	83,600	67,500
18		91,400		95,800	97,900	104,400	122,900	147,700	134,800	108,700	82,800	
19	90,100			96,000	97,900	104,600	124,000	147,800	134,500	107,700	81,900	
20	90,200		92,100	96,200	98,000	104,700	125,000	147,800	134,200	106,700	81,100	67,400
21	90,300	91,600	92,100		98,000	104,900	125,800	147,800	133,900	105,800	80,200	
22	90,400		92,200		98,100	105,300	126,700	147,800	133,600	105,000	79,400	
23	90,500	91,500	92,400	96,400	98,200	105,500	127,600	147,800	133,200	104,200	78,600	
24			92,700	96,400	98,300	105,800	128,100	147,500	132,800	103,200	77,700	
25			92,900	96,500	98,400	105,800	128,900	147,200	132,200	102,300	76,900	67,500
26	90,600			96,500	99,000	106,000	129,700	146,900	131,600	101,400	76,100	
27				96,600	99,600	106,300	130,500	146,600	131,700	100,600	75,300	67,700
28				96,700	99,800	107,100	131,300	146,100	130,200	99,900	74,700	
29	90,600	91,600		96,700	-----	107,700	132,300	145,700	129,200	99,000	74,000	
30	90,700	91,800		-----	-----	108,300	133,500	145,200	128,100	98,200	73,300	67,700
31	90,800	-----	93,000	96,800	-----	108,700	-----	144,800	-----	97,400	72,600	-----
MAX					99,800	108,700	133,500	147,800	144,300	127,100	96,600	
MIN					96,900	100,100	109,100	134,800	128,100	97,400	72,600	
(†)	48.80	49.20	49.70	--	--	55.70	64.50	68.30	62.65	51.40	41.20	--
(‡)	+1,200	+1,000	+1,200	+3,800	+3,000	+8,900	+24,800	+11,300	-16,700	-30,700	-24,800	-4,900
CAL YR 1972	MAX 157,900	MIN	(‡) +13,500									
WTR YR 1973	MAX 147,800	MIN	(‡) -21,900									

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

‡ Change in contents, in acre-feet.

BRUNEAU RIVER BASIN

13161500 Bruneau River at Rowland, Nev.

LOCATION.--Lat 41°56'00", long 115°40'25", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.47 N., R.56 E., Elko County, on left bank 2 mi (3 km) upstream from McDonald Creek and 0.5 mi (0.8 km) south of Rowland.

DRAINAGE AREA.--382 mi² (989 km²). Area at crest-stage site, 380 mi² (984 km²).

PERIOD OF RECORD.--June 1913 to September 1918, water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--12 years 120 ft³/s (3.398 m³/s), 86,940 acre-ft/yr (107 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 582 ft³/s (16.5 m³/s) Apr. 13, gage height, 5.54 ft (1.689 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Aug. 17, 19-22.

Period of record: Maximum discharge, 2,120 ft³/s (60.0 m³/s) Feb. 11, 1962, gage height, 13.0 ft (3.96 m) site and datum then in use; minimum, 5 ft³/s (0.14 m³/s) Aug. 12, 13, 1918.

REMARKS.--Records good except those for winter months, which are poor. Minor diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	40	41	29	44	73	148	357	217	56	16	17
2	27	38	41	30	42	74	136	320	207	55	15	18
3	27	38	45	28	45	70	141	332	187	51	15	16
4	27	39	41	25	46	77	162	324	168	48	14	14
5	34	43	35	25	46	77	210	362	149	44	13	13
6	35	41	31	26	47	68	310	365	143	40	12	12
7	33	40	28	27	46	72	338	337	141	38	12	12
8	31	40	26	27	46	74	276	340	138	35	12	15
9	30	40	24	29	45	78	266	362	134	34	12	16
10	34	39	23	38	45	84	301	370	130	32	12	13
11	35	38	23	65	46	85	385	380	125	30	12	13
12	33	38	25	116	46	80	462	384	120	31	11	12
13	33	38	28	181	45	90	542	411	114	30	10	12
14	32	38	33	135	40	85	485	417	143	30	11	11
15	32	38	41	78	38	79	394	411	148	42	11	11
16	32	39	43	76	38	80	369	405	129	33	10	11
17	32	39	53	76	40	85	382	403	122	29	9.4	11
18	32	41	82	70	37	79	325	431	120	28	9.4	11
19	37	39	114	65	38	82	287	429	110	29	9.4	11
20	49	39	126	51	42	94	256	413	97	32	9.1	12
21	53	30	111	47	46	104	237	364	88	33	9.4	16
22	44	27	108	50	50	108	226	311	84	35	9.4	16
23	40	27	65	45	51	99	248	278	82	34	11	15
24	38	30	60	45	49	106	291	269	80	30	11	17
25	37	36	57	48	59	124	332	298	76	26	10	22
26	36	40	48	54	58	162	388	258	71	24	11	24
27	34	37	55	50	65	210	438	224	68	21	12	21
28	33	36	40	45	67	212	490	203	66	21	15	20
29	31	37	37	47	-----	174	493	192	63	20	13	18
30	31	39	32	50	-----	154	417	186	61	21	12	18
31	32	-----	30	47	-----	144	-----	189	-----	18	12	-----
TOTAL	1,061	1,124	1,546	1,725	1,307	3,183	9,735	10,325	3,581	1,030	361.1	448
MEAN	34.2	37.5	49.9	55.6	46.7	103	325	333	119	33.2	11.6	14.9
MAX	53	43	126	181	67	212	542	431	217	56	16	24
MIN	27	27	23	25	37	68	136	186	61	18	9.1	11
AC-FT	2,100	2,230	3,070	3,420	2,590	6,310	19,310	20,480	7,100	2,040	716	889

CAL YR 1972 TOTAL 64,165.0 MEAN 175 MAX 862 MIN 12 AC-FT 127,300
 WTR YR 1973 TOTAL 35,426.1 MEAN 97.1 MAX 542 MIN 9.1 AC-FT 70,270

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-13	1900	3.94	230	4-28	2200	5.42	546
3-28	0300	4.26	260	5-18	2200	5.06	455
4-13	1800	5.54	582				

OWYHEE RIVER BASIN

169

13174000 Wild Horse Reservoir near Gold Creek, Nev.

LOCATION.--Lat 41°41'10", long 115°51'20", in NE $\frac{1}{4}$ sec.25, T.44 N., R.54 E., Elko County, at Wild Horse Dam on Owyhee River, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March 1938 to current year. Month-end contents for some periods, published in WSP 1317.

GAGE.--Elevations obtained about three times a month, more frequently during irrigation season, from wire-weight gage on dam. Datum of gage is at mean sea level (levels by Bureau of Indian Affairs).

EXTREMES.--Current year: Maximum contents observed, 74,130 acre-ft (91.4 hm³) Apr. 30, May 3, 9, elevation 6,205.8 ft (1,891.53 m); minimum observed, 49,330 acre-ft (60.8 hm³) Sept. 27, elevation 6,196.7 ft (1,888.75 m).

Period of record: Maximum contents observed, 74,750 acre-ft (92.2 hm³) May 7, 9, 14, 1971, elevation, 6,206.0 ft (1,891.59 m); no contents at times in each year 1938-41, 1964-65, 1968-69.

REMARKS.--Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. New dam completed in June 1969, capacity 71,660 acre-ft (88.4 hm³) between elevations 6,138.50 (1,871.015 m), sill of outlet gate, and 6,205.00 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

COOPERATION.--Most of elevation record and basic data for capacity table furnished by Bureau of Indian Affairs.

DAY	CONTENTS, IN ACRE-FEET,					WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					58,080	59,140			72,900	65,760		
3						59,140						
4								74,130				
5									72,590	64,910		
6							63,780					
7												
8												
9		54,720				59,400		74,130				
10						59,670		73,820				51,490
11							65,760	73,820				
12											58,340	
13							67,500			64,350		
14												51,010
15												
16				57,290		59,930	69,270					
17							69,870					
18												
19							70,760					
20			56,000							63,220		
21		54,970							69,270			50,030
22						59,930						
23						60,470	72,280					
24							72,590					
25	54,470											
26									67,800			49,560
27			56,260				73,820			61,840		49,330
28		55,230			g 59,090	61,290						
29					-----						53,970	
30		g 55,300			-----	61,570	74,130	72,900	66,630			g 49,210
31	g 54,570	-----	g 56,470	g 57,990	-----	g 61,890	-----	g 72,900	-----	g 60,960	g 53,560	g -----
(+)	+600	+730	+1,170	+1,520	+1,100	+2,800	+12,240	-1,230	-6,270	-5,670	-7,400	-4,350

CALENDAR YEAR 1972 +1,390
WATER YEAR 1972-73 +4,760

* Change in contents, in acre-feet.
g No gage-height record; contents interpolated.

OWYHEE RIVER BASIN

13174500 Owyhee River near Gold Creek, Nev.

LOCATION.--Lat 41°41'20", long 115°50'38", in NE 1/4 sec. 25, T. 44 N., R. 54 E., Elko County, on left bank 500 ft (152 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft (1,864.995 m), Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi (0.5 km) upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage 250 ft (76 m) downstream at different datum, while new dam was being constructed 300 ft (91 m) downstream from old dam.

AVERAGE DISCHARGE.--45 years (1917-25, 1936-73), 41.2 ft³/s (1.167 m³/s), 29,850 acre-ft/yr (36.8 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 210 ft³/s (5.95 m³/s) May 6, gage height, 2.61 ft (0.796 m); no flow Oct. 20 to Nov. 11. Period of record: Maximum discharge, 1,810 ft³/s (51.3 m³/s) May 5, 1922, gage height, 10.11 ft (3.082 m), site and datum then in use; no flow at times when reservoir gates were closed.

REMARKS.--Records good. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir 0.1 mi (0.2 km) upstream beginning Mar. 18, 1938.

REVISIONS (WATER YEARS).--WSP 1317: 1939-42 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	0	2.9	3.0	2.9	2.9	3.0	185	47	155	48	90
2	4.6	0	2.9	3.0	2.9	2.9	3.0	173	44	113	66	93
3	2.2	0	2.7	3.0	2.9	2.9	3.0	170	40	74	81	97
4	2.2	0	2.7	3.0	2.9	2.9	3.0	170	37	73	81	98
5	2.2	0	2.7	3.0	2.9	2.9	3.0	183	81	40	81	98
6	2.2	0	2.7	3.0	2.9	2.7	3.0	204	92	8.6	92	98
7	2.2	0	2.7	2.9	2.9	2.7	3.2	192	82	7.7	102	98
8	2.2	0	2.7	2.9	2.9	2.7	3.2	178	95	7.4	102	97
9	2.2	0	2.7	2.9	2.9	2.7	3.2	168	118	22	104	97
10	2.2	0	2.7	2.9	2.9	2.7	3.2	158	118	52	111	86
11	2.2	0	2.7	2.9	2.9	2.7	3.2	148	117	72	113	64
12	2.2	1.1	2.7	2.9	2.9	2.7	3.2	139	117	70	108	66
13	2.2	2.7	2.7	2.9	2.9	2.7	3.2	131	115	71	122	64
14	2.2	2.7	2.7	2.9	2.9	2.7	3.2	125	115	70	139	64
15	2.2	2.7	2.7	2.9	2.9	2.7	3.2	120	113	71	139	64
16	2.2	2.7	2.7	2.9	2.9	2.7	3.2	111	115	71	135	64
17	2.2	2.7	2.7	2.9	2.9	2.9	3.2	105	117	72	141	64
18	2.2	2.7	2.7	2.9	2.9	2.9	3.2	98	117	72	139	64
19	1.4	2.9	2.7	2.9	2.9	2.9	3.2	97	117	72	131	66
20	0	2.9	2.7	2.9	2.9	2.9	3.2	93	115	72	141	64
21	0	2.9	2.7	2.9	2.9	3.0	3.2	88	115	72	143	66
22	0	2.9	2.7	2.9	2.9	3.0	4.0	86	113	72	143	64
23	0	2.9	2.7	2.9	2.9	3.0	15	80	113	62	143	64
24	0	2.9	2.9	2.9	2.9	3.0	45	74	111	48	141	64
25	0	2.9	2.9	2.9	2.9	3.0	74	72	110	48	141	66
26	0	2.9	2.9	2.9	2.9	3.0	105	71	129	48	141	49
27	0	2.9	2.9	2.9	2.9	3.0	135	67	158	48	81	21
28	0	2.9	2.9	2.9	2.9	3.0	165	63	155	48	37	21
29	0	2.9	3.0	2.9	-----	3.0	183	58	153	48	48	21
30	0	2.9	3.0	2.9	-----	3.0	185	54	153	49	73	20
31	0	-----	3.0	2.9	-----	3.0	-----	47	-----	48	90	-----
TOTAL	52.2	52.1	86.0	90.5	81.2	88.8	977.0	3,708	3,222	1,856.7	3,357	2,052
MEAN	1.68	1.74	2.77	2.92	2.90	2.86	32.6	120	107	59.9	108	68.4
MAX	11	2.9	3.0	3.0	2.9	3.0	185	204	158	155	143	98
MIN	0	0	2.7	2.9	2.9	2.7	3.0	47	37	7.4	37	20
AC-FT	104	103	171	180	161	176	1,940	7,350	6,390	3,680	6,660	4,070

CAL YR 1972 TOTAL 27,509.08 MEAN 75.2 MAX 332 MIN 0 AC-FT 54,560
 WTR YR 1975 TOTAL 15,623.50 MEAN 42.8 MAX 204 MIN 0 AC-FT 30,990

NOTE.--No gage-height record Jan. 20 to Mar. 10.

13174900 Owyhee River at Patsville, Nev.

LOCATION.--Lat 41°48'35", long 115°57'20", in NW¼SE¼ sec.12, T.45 N., R.53 E., Elko County, on left bank, 100 ft (30 m) downstream from Rio Tinto Mine road (off State Highway 11-A), 0.1 mi (0.2 km) upstream from Mill Creek, and in Patsville.

DRAINAGE AREA.--305 mi² (790 km²), approximately.

PERIOD OF RECORD.--December 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (1,720 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 438 ft³/s (12.4 m³/s) April 29, gage height, 4.19 ft (1.277 m); minimum, 14 ft³/s (0.40 m³/s) Oct. 30, Nov. 21, but may have been less during periods of ice effect.

Period of record: Maximum discharge, 958 ft³/s (27.1 m³/s) Mar. 3, 1972, gage height, 7.06 ft (2.152 m); minimum, 8.5 ft³/s (0.24 m³/s) Dec. 27, 31, 1971, Jan. 3, 1972.

REMARKS.--Records good. Flow partly regulated by Wild Horse Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	20	23	28	27	57	69	361	153	152	56	89
2	32	20	22	27	26	53	62	339	119	141	60	88
3	20	21	22	25	27	41	62	339	110	88	80	87
4	19	21	21	25	26	40	69	332	92	86	80	87
5	24	26	20	25	26	38	86	363	99	74	82	87
6	21	24	19	25	26	35	114	357	129	29	84	87
7	18	21	18	25	26	35	116	339	116	24	100	87
8	18	21	16	28	26	37	99	334	115	23	102	88
9	17	21	15	30	26	40	109	334	141	24	100	88
10	26	20	15	34	26	52	123	337	143	44	94	87
11	22	18	15	38	27	59	159	334	143	77	97	66
12	20	19	15	45	27	49	188	328	141	81	98	64
13	18	20	16	54	26	51	221	330	141	83	104	63
14	18	21	18	66	25	41	197	327	178	86	124	62
15	17	21	21	76	26	41	173	311	168	90	124	60
16	17	22	25	71	26	48	172	295	157	85	123	53
17	17	24	30	68	25	51	191	261	162	85	122	56
18	17	22	41	56	25	41	171	276	159	86	122	57
19	21	23	56	48	24	48	161	274	145	88	120	58
20	25	22	74	40	24	58	147	264	138	93	120	60
21	23	20	68	38	24	62	122	245	134	93	120	62
22	21	20	90	36	26	55	116	220	133	92	122	66
23	17	21	82	38	27	60	141	200	127	88	126	68
24	16	22	72	37	32	63	196	183	127	67	124	70
25	16	22	76	35	35	76	250	213	124	65	124	73
26	15	22	66	34	40	89	306	185	130	66	124	68
27	15	21	54	34	46	83	352	164	159	65	96	37
28	15	22	47	34	48	80	402	150	157	62	34	34
29	16	24	40	31	-----	60	424	137	154	58	49	33
30	18	23	33	29	-----	60	393	134	152	57	56	32
31	19	-----	30	29	-----	65	-----	127	-----	56	84	-----
TOTAL	611	644	1,160	1,209	795	1,668	5,391	8,393	4,126	2,308	3,051	2,017
MEAN	19.7	21.5	37.4	39.0	28.4	53.8	180	271	138	74.5	98.4	67.2
MAX	33	26	90	76	48	89	424	363	178	152	126	89
MIN	15	18	15	25	24	35	62	127	92	23	34	32
AC-FT	1,210	1,280	2,300	2,400	1,580	3,310	10,690	16,650	8,180	4,580	6,050	4,000

CAL YR 1972 TOTAL 58,977 MEAN 161 MAX 888 MIN 11 AC-FT 117,000
 WTR YR 1973 TOTAL 31,373 MEAN 86.0 MAX 424 MIN 15 AC-FT 62,200

Note.--No gage-height record Dec. 5 to Jan. 16.

13176000 Owyhee River above China diversion dam, near Owyhee, Nev.

LOCATION.--Lat 41°55'20", long 116°04'10", in NW¹/₄ sec.6, T.46 N., R.53 E., Elko County, on right bank 1,000 ft (305 m) downstream from Skull Creek, 1 mi (1.6 km) upstream from China diversion dam, and 2 mi (3.2 km) southeast of Owyhee.

DRAINAGE AREA.--458 mi² (1,186 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft (1,654 m) above mean sea level, unadjusted. Prior to Oct. 1, 1939, at datum 1.48 ft (0.451 m) higher.

AVERAGE DISCHARGE.--34 years, 141 ft³/s (3,993 m³/s), 102,200 acre-ft/yr (126 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 718 ft³/s (20.3 m³/s) Apr. 30, gage height, 7.63 ft (2.326 m); minimum, 24 ft³/s (0.68 m³/s) July 9.

Period of record: Maximum discharge, 2,710 ft³/s (76.7 m³/s) May 3 or 4, 1952, gage height, 10.07 ft (3.069 m); minimum, 1.8 ft³/s (0.051 m³/s) Nov. 16, 1961.

REMARKS.--Records good except those for winter months, which are poor. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	33	44	54	58	103	139	605	230	173	55	104
2	41	34	43	52	54	106	123	572	207	174	55	109
3	35	36	43	50	52	85	121	573	191	116	77	107
4	31	38	46	45	54	81	135	561	175	98	81	106
5	38	39	42	40	53	76	175	603	162	94	85	105
6	34	40	36	40	52	68	220	605	196	53	87	104
7	31	40	35	42	54	68	210	582	182	32	106	105
8	29	39	32	44	54	67	190	598	167	27	112	107
9	29	38	30	50	55	71	180	631	187	25	111	107
10	43	36	26	60	57	77	220	651	188	32	104	107
11	40	36	24	75	55	107	300	652	186	62	104	88
12	34	37	26	90	57	83	350	659	183	84	105	76
13	31	35	30	130	54	87	400	665	180	90	109	74
14	30	38	35	165	53	75	350	652	230	90	132	73
15	29	40	45	175	52	70	300	607	239	104	140	74
16	29	41	50	160	50	79	290	565	203	95	140	65
17	29	41	55	140	50	92	320	511	205	92	141	64
18	29	39	67	125	49	75	280	500	212	94	141	68
19	35	38	90	105	49	80	270	499	189	94	141	69
20	46	39	120	95	48	90	250	468	177	99	138	73
21	45	37	150	80	48	118	210	431	165	103	138	77
22	38	34	180	70	48	97	200	384	159	101	142	76
23	34	30	179	57	50	94	250	344	155	98	144	84
24	31	32	155	50	55	111	340	318	158	79	148	88
25	30	35	108	55	69	148	450	372	154	68	148	97
26	30	37	85	60	77	178	530	328	152	66	149	91
27	30	35	94	47	77	178	590	283	180	65	152	62
28	31	35	77	45	96	149	620	257	184	64	68	45
29	31	37	66	50	-----	130	630	237	179	59	51	42
30	31	40	60	55	-----	127	640	220	176	56	54	40
31	32	-----	58	60	-----	132	-----	218	-----	55	88	-----
TOTAL	1,047	1,109	2,131	2,366	1,580	3,102	9,283	15,151	5,551	2,542	3,446	2,487
MEAN	33.8	37.0	68.7	76.3	56.4	100	309	489	185	82.0	111	82.9
MAX	46	41	180	175	96	178	640	665	239	174	152	109
MIN	29	30	24	40	48	67	121	218	152	25	51	40
AC-FT	2,080	2,200	4,230	4,690	3,130	6,150	18,410	30,050	11,010	5,040	6,840	4,930

CAL YR 1972 TOTAL 90,856 MEAN 248 MAX 1,350 MIN 24 AC-FT 180,200
 HYR YR 1973 TOTAL 49,795 MEAN 136 MAX 665 MIN 24 AC-FT 98,770

NOTE.--No gage-height record Apr. 6-30.

13177200 South Fork Owyhee River at Spanish Ranch, near Tuscarora, Nev.

LOCATION.--Lat 41°25'40", long 116°10'40", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.41 N., R.52 E., Elko County, on left bank 0.2 mi (0.3 km) downstream from Hot Creek, 2.8 mi (4.5 km) west of Spanish Ranch headquarters, and 8 mi (13 km) north of Tuscarora.

DRAINAGE AREA.--330 mi² (855 km²), approximately.

PERIOD OF RECORD.--August 1959 to Sept. 30, 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft (1,692 m), from topographic map .

AVERAGE DISCHARGE.--14 years, 64.1 ft³/s (1.815 m³/s), 46,440 acre-ft/yr (57.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 544 ft³/s (15.4 m³/s) Jan. 13, gage height, 4.55 ft (1.387 m); minimum, 4.8 ft³/s (0.14 m³/s) Sept. 19.

Period of record: Maximum discharge, 4,130 ft³/s (117 m³/s) Feb. 10, 1962, gage height, 7.40 ft (2.256 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.40 ft³/s (0.011 m³/s) Aug. 22, 23, 1960.

REMARKS.--Records good except those for winter periods, which are fair. Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	27	33	41	70	76	103	100	40	28	20
2	26	32	28	32	41	64	64	96	84	41	27	19
3	24	31	28	31	43	56	70	104	77	39	27	19
4	27	31	26	27	43	56	72	137	72	39	28	19
5	29	37	25	28	49	56	84	292	66	37	32	19
6	28	31	24	29	48	52	92	236	60	35	30	18
7	27	30	23	28	48	49	82	183	54	36	27	17
8	25	29	22	29	48	51	79	169	50	40	26	19
9	25	28	21	31	49	52	87	137	49	41	25	19
10	32	27	21	34	51	61	96	129	45	42	23	18
11	27	28	20	40	51	61	104	139	49	42	23	18
12	26	28	21	81	48	59	112	152	50	48	22	18
13	25	28	21	290	48	56	123	165	51	57	21	18
14	25	30	21	180	48	56	127	190	113	54	19	17
15	24	31	22	94	48	54	113	210	129	53	20	17
16	24	33	24	87	47	57	108	225	86	47	21	17
17	24	31	28	79	47	57	117	239	77	44	20	17
18	24	29	36	63	47	51	112	278	74	43	20	17
19	30	31	53	52	45	54	112	314	61	44	19	10
20	43	31	64	47	45	59	99	299	52	44	19	9.8
21	34	29	75	45	43	64	110	257	48	44	20	17
22	28	28	70	42	43	51	103	218	45	41	20	20
23	26	28	57	42	47	64	101	185	43	37	19	19
24	26	29	52	44	59	79	89	167	45	34	18	21
25	26	31	45	45	60	91	78	233	45	33	18	22
26	26	32	41	44	61	94	85	232	46	31	20	21
27	25	32	39	43	64	82	96	170	46	30	19	20
28	23	30	38	42	69	72	104	133	45	29	21	20
29	23	30	36	43	-----	64	113	104	44	28	19	19
30	24	28	35	43	-----	66	110	82	43	30	18	19
31	25	-----	35	42	-----	75	-----	80	-----	30	18	-----
TOTAL	827	899	1,078	1,790	1,381	1,933	2,918	5,658	1,849	1,233	687	543.8
MEAN	26.7	30.0	34.8	57.7	49.3	62.4	97.3	183	61.6	39.8	22.2	18.1
MAX	43	57	75	290	69	94	127	314	129	57	32	22
MIN	23	26	20	27	41	49	64	80	43	28	18	9.8
AC-FT	1,640	1,760	2,140	3,550	2,740	3,830	5,790	11,220	3,670	2,450	1,360	1,080

CAL YR 1972 TOTAL 27,609.0 MEAN 75.4 MAX 517 MIN 6.6 AC-FT 54,760
WTR YR 1973 TOTAL 20,796.8 MEAN 57.0 MAX 314 MIN 9.8 AC-FT 41,250

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-13	1100	4.55	544	5-19	0400	4.10	344
5-05	1500	4.17	374				

OWYHEE RIVER BASIN

13177800 South Fork Owyhee River near Whiterock, Nev.

LOCATION.--Lat 41°48'00", long 116°29'00", in NE¼ sec.16, T.45 N., R.49 E., Elko County, on left bank 500 ft (152 m) downstream from Rye Grass Creek, 1.8 mi (2.9 km) upstream from Chimney Creek, and 17 mi (27 km) northwest of Whiterock.

DRAINAGE AREA.--1,080 mi² (2,800 km²), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,490 m), from topographic map.

AVERAGE DISCHARGE.--18 years, 161 ft³/s (4,560 m³/s), 116,600 acre-ft/yr (144 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 1,260 ft³/s (35.7 m³/s) Jan. 14, gage height, 5.74 ft (1.750 m), backwater from ice; minimum, 26 ft³/s (0.74 m³/s) Aug. 2-6.

Period of record: Maximum discharge, 3,830 ft³/s (108 m³/s) June 5, 1963, gage height, 7.55 ft (2.301 m); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

REMARKS.--Records good except those for winter months, which are poor. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs, total capacity, about 16,100 acre-ft (19.8 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	60	71	77	101	198	303	584	186	52	29	59
2	41	74	71	74	103	194	268	534	200	61	31	58
3	44	73	74	72	107	178	260	474	175	57	29	56
4	51	76	70	70	110	165	258	486	168	56	28	54
5	62	90	66	69	117	157	261	582	148	51	27	53
6	60	87	64	68	120	143	290	659	128	45	28	54
7	54	80	62	68	117	136	296	545	110	39	32	54
8	51	77	60	68	118	134	279	480	85	41	33	57
9	49	72	59	69	120	132	284	456	75	39	44	57
10	65	72	58	74	133	136	306	445	69	44	64	61
11	71	71	57	90	128	156	375	418	72	39	74	63
12	58	73	57	150	130	150	464	427	67	36	70	56
13	52	71	57	300	119	156	580	429	52	36	68	53
14	52	70	58	800	126	140	676	463	61	35	67	53
15	51	72	61	600	126	141	657	472	252	36	64	52
16	50	75	66	400	125	147	619	481	252	37	60	52
17	49	75	74	281	128	156	634	476	209	31	59	55
18	46	74	86	242	131	146	620	474	204	31	57	63
19	56	78	110	214	118	147	574	553	130	44	56	65
20	72	77	150	163	109	153	519	595	97	40	56	65
21	84	70	250	129	106	176	476	559	77	67	59	61
22	72	68	225	120	109	190	459	502	50	58	56	65
23	63	69	180	115	113	174	445	454	38	52	56	70
24	60	70	156	115	133	230	454	408	45	45	55	76
25	58	73	140	114	174	328	467	465	58	41	53	65
26	58	80	125	112	174	389	479	547	59	49	53	61
27	57	76	120	107	178	386	491	455	60	53	63	76
28	56	72	100	107	199	335	538	367	56	54	62	73
29	56	72	92	107	-----	297	580	291	51	48	58	72
30	56	69	84	105	-----	288	595	229	48	40	58	70
31	58	-----	79	100	-----	282	-----	179	-----	51	58	-----
TOTAL	1,752	2,216	2,982	5,180	3,572	6,140	13,507	14,491	3,282	1,388	1,612	1,869
MEAN	56.5	73.9	96.2	167	128	198	450	467	109	44.8	52.0	62.3
MAX	84	90	250	800	199	389	676	659	252	67	74	85
MIN	40	60	57	68	101	132	258	179	38	31	27	52
AC-FT	3,480	4,400	5,910	10,270	7,090	12,180	26,790	28,740	6,510	2,750	3,200	3,710

CAL YR 1972 TOTAL 85,593.9 MEAN 234 MAX 1,720 MIN 9.1 AC-FT 169,800
WTR YR 1973 TOTAL 57,991.0 MEAN 159 MAX 800 MIN 27 AC-FT 115,000

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
1-14	UNK	5.74	about 1,260	5-20	0200	3.65	610
4-14	1700	3.83	700	5-26	0300	3.56	567
5-06	0600	3.81	690				

13181000 OWYHEE RIVER NEAR ROME, OREG.

LOCATION.--Lat 42°52'00", long 117°39'00", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, on right bank 0.5 mi (0.8 km) downstream from Jordan Creek, 2.6 mi (4.2 km) north of Rome, and at mile 117.0 (188.3 km).

DRAINAGE AREA.--About 8,000 mi² (20,700 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft (1,019.312 m) above mean sea level. Prior to Feb. 10, 1960, at datum 0.24 ft (0.073 m) lower.

AVERAGE DISCHARGE.--24 years, 889 ft³/s (25.2 m³/s), 644,100 acre-ft/yr (794 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,270 ft³/s (121 m³/s) Apr. 7, gage height, 6.47 ft (1.972 m); minimum, 109 ft³/s (3.09 m³/s) Aug. 12.

Period of record: Maximum discharge, 33,500 ft³/s (949 m³/s) Dec. 24, 1964, gage height, 16.7 ft (5.09 m), from floodmark; minimum, 42 ft³/s (1.19 m³/s) Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

REMARKS.--Records excellent. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft (86.3 hm³), increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft (40.3 hm³), and numerous small reservoirs. Diversions above station for irrigation. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	234	370	370	464	2,080	1,360	1,800	670	218	171	202
2	202	234	354	338	414	2,380	1,480	1,700	610	205	165	209
3	208	230	342	270	366	2,160	1,370	1,630	570	199	150	209
4	202	244	300	230	370	1,700	1,180	1,550	555	189	142	196
5	205	283	250	240	394	1,250	1,420	1,510	531	186	131	193
6	255	318	240	250	454	1,000	2,640	1,670	495	189	125	183
7	238	318	220	250	528	1,010	3,790	1,920	464	196	125	183
8	238	334	180	240	536	1,000	3,080	1,820	428	199	131	193
9	244	342	160	250	522	1,080	2,280	1,590	401	189	131	186
10	244	338	120	270	508	1,390	2,220	1,450	369	196	120	196
11	238	322	140	300	513	1,460	2,640	1,340	329	189	120	189
12	230	314	170	430	544	2,080	2,700	1,340	268	168	120	180
13	217	302	160	640	562	1,600	2,800	1,260	243	153	115	174
14	230	298	160	1,250	504	1,440	2,610	1,260	232	147	136	180
15	244	338	190	2,750	486	1,140	2,440	1,240	243	139	159	171
16	241	334	240	2,360	464	926	2,520	1,270	250	156	162	156
17	234	366	300	2,320	459	986	2,310	1,270	254	174	156	147
18	238	346	330	2,480	477	1,240	2,850	1,260	454	168	162	145
19	248	318	370	1,450	558	1,110	2,620	1,240	490	165	156	142
20	252	322	430	1,180	660	956	2,200	1,210	477	165	150	147
21	258	326	510	896	580	1,080	2,010	1,290	454	174	147	147
22	252	326	700	760	504	1,840	1,920	1,280	393	177	153	156
23	262	310	1,440	608	459	1,670	1,840	1,200	357	174	150	174
24	290	269	1,820	540	446	1,370	2,140	1,140	329	162	156	186
25	294	266	1,570	518	482	1,370	1,910	1,060	309	171	165	189
26	276	258	1,210	562	1,170	1,900	1,830	1,000	274	177	171	196
27	258	286	938	544	1,450	2,500	1,800	1,060	246	177	171	202
28	248	310	770	438	1,560	2,610	1,820	1,160	240	174	168	209
29	244	330	665	414	-----	2,000	1,930	1,010	243	165	171	215
30	234	394	508	386	-----	1,580	1,910	888	232	174	174	215
31	238	-----	426	430	-----	1,350	-----	768	-----	174	193	-----
TOTAL	7,455	9,214	15,563	24,164	16,434	47,388	65,470	41,226	11,410	5,489	4,646	5,460
MFAN	240	307	502	779	587	1,529	2,182	1,330	380	177	150	182
MAX	294	394	1,820	2,750	1,560	2,610	3,790	1,920	670	218	193	215
MIN	193	230	120	230	366	926	1,180	768	232	139	115	142
AC-FT	14,790	18,280	30,870	47,930	32,600	93,990	129,900	81,770	22,630	10,890	9,220	10,830
CAL YR 1972 TOTAL	637,106			1,741		21,900		113		1,264,000		
WTR YR 1973 TOTAL	253,919			696		3,790		115		503,600		

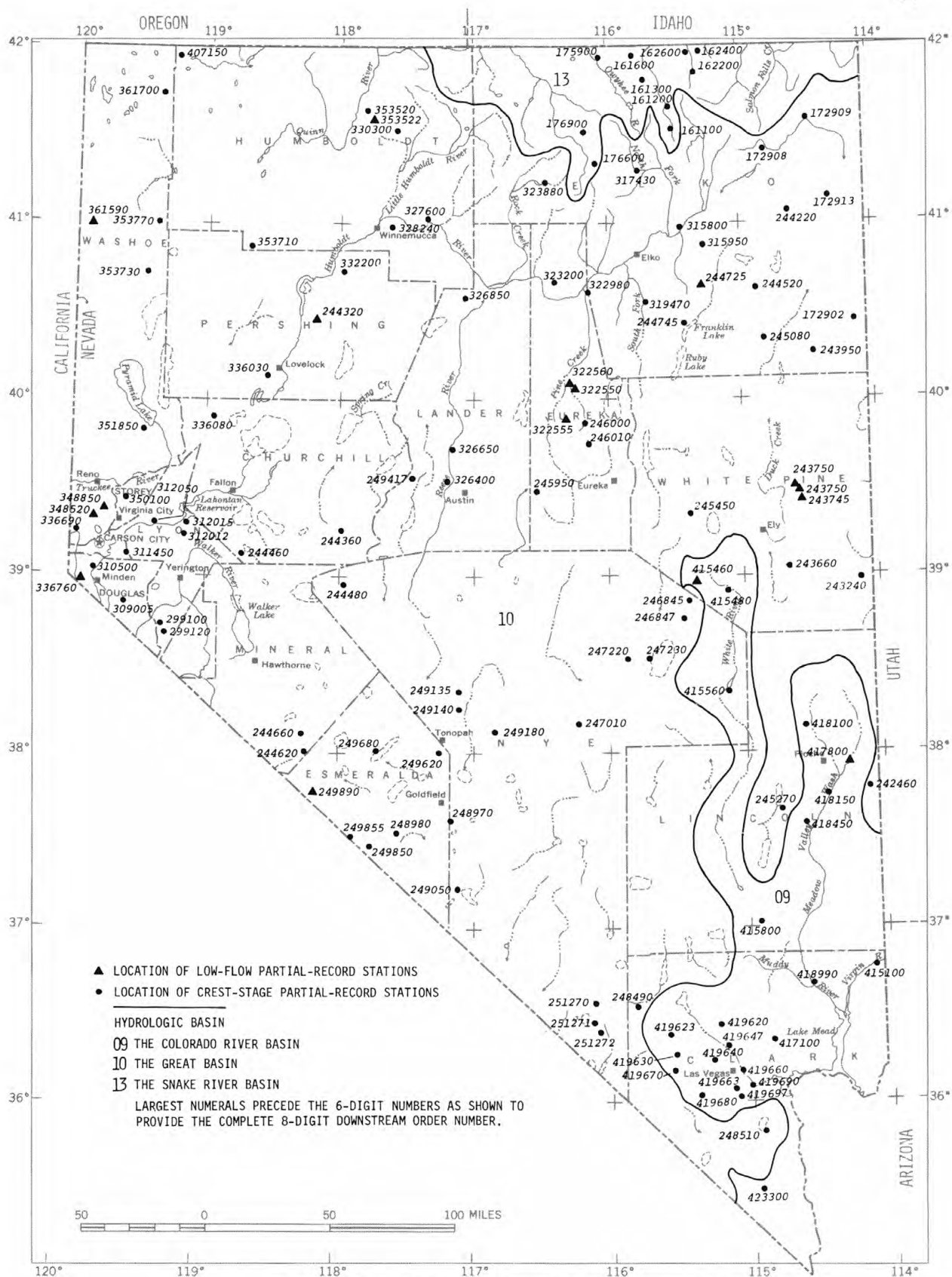


FIGURE 4 - MAP OF NEVADA SHOWING LOCATION OF PARTIAL-RECORD STATIONS.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analysis, the site at which the data are collected is called a partial-record station. Data collected at these partial record-stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give a better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the state at low-flow partial-record stations are given in the following table. Generally, this category is used mostly for low-flow analysis when streamflow is primarily from ground-water storage so that the low-flow potentiality of the stream may be obtained by comparison with a nearby stream where continuous records are available. In this State, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained by similar comparison. The column headed "Period of record" shows the water years in which measurements were made at the same, or, practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1973

Discharge measurements made at low-flow partial-record stations during water year 1973						
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Virgin River basin						
09415460	White River near Red Mountain, near Preston, Nev.	Lat 38°56'35", long 115°20'25", in NW ¹ SE ¹ sec.33, T.13 N., R.59 E., White Pine County, at campsite 8.0 mi (12.9 km) northwest of State Highway 6 and 15 mi (24 km) northwest of Preston.	18.6	1965-73	12-27-72 4-24-73 5-22-73 7-26-73 9-19-73	1.07 23.0 28.8 4.77 4.80
09417800	Meadow Valley Wash at Echo Point, near Ursine, Nev.	Lat 37°54'30", long 114°15'40", in SW ¹ SW ¹ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 mi (9.7 km) southwest of Ursine.	354	1970-73	10-05-72 11-10-72 3-15-73 5-09-73 6-22-73 7-07-73 8-09-73 9-18-73	.35 1.88 24.9 47.3 e .5 .38 3.07 e .45
Spring Valley						
10243745	Odgers Creek near McGill, Nev.	Lat 39°24'08", long 114°31'48", in NE ¹ sec.27, T.18 N., R.66 E., White Pine County at mouth of canyon, and 14 mi (23 km) east of McGill.	3.9	1973	11-07-72 1-24-73 4-26-73 5-21-73 7-25-73 9-18-73	1.40 1.01 2.33 10.9 2.26 2.12
10243750	Bassett Creek near McGill, Nev.	Lat 39°26'20", long 114°32'30", in NW ¹ SW ¹ sec.10, T.18 N., R.66 E., White Pine County, 2.4 mi (3.9 km) upstream from State secondary 739 and 13 mi (21 km) northeast of McGill.	6.5	1968-73	10-31-72 1-24-73 4-26-73 9-18-73	2.48 1.95 4.09 4.27
10243760	Piermont Creek near McGill, Nev.	Lat 39°29'05", long 114°33'00", in NE ¹ sec.28, T.19 N., R.66 E., White Pine County, at mouth of canyon, just above diversion, and 14 mi (23 km) northeast of McGill.	7.5	1972-73	11-01-72 1-24-73 4-26-73 5-21-73 7-25-73 9-18-73	1.39 1.08 5.69 26.0 1.50 1.14
Ruby Valley						
10244725 (revised)	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NW ¹ NW ¹ sec.2, T.31 N., R.59 E., Elko County, 0.8 mi (1.3 km) west of McCrea Ranch and 13.5 mi (21.7 km) northeast of Ruby Valley Post Office.	7.56	1965-73	5-15-73 6-29-73 8-08-73	48.3 16.8 5.59

e Estimated.

Discharge measurements made at low-flow partial-record stations during water year 1973--continued

Discharge measurements made at low-flow partial-record stations during water year 1973--continued						
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Humboldt River basin						
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE $\frac{1}{4}$ sec.20 T.25 N., R.51 E., Eureka County, 1.5 mi (2.4 km) upstream from Pete Hanson Creek, 11 mi (18 km) from mouth, and 42 mi (68 km) south of Palisade.	150	1972-73	7-19-72 11-01-72 11-17-72 3-12-73 3-29-73 5-14-73 5-26-73 6-08-73 7-24-73	0 0 0 .61 .41 35.1 18.7 3.43 0
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 mi (21 km) from mouth, 52 mi (84 km) south of Palisade, and 33 mi (53 km) northwest of Eureka.	5.0	1972-73	7-19-72 11-01-72 11-17-72 3-12-73 5-14-73 6-08-73 7-24-73	.10 .17 .18 1.07 23.6 6.30 1.07
10322560	Pete Hanson Creek near Palisade, Nev.	Lat 40°02'35", long 116°15'45", in SW $\frac{1}{4}$ sec.18, T.25 N., R.51 E., Eureka County, 0.5 mi (0.8 km) above mouth, and 40 mi (64 km) south of Palisade.	67	1972-73	11-01-72 11-17-72 3-12-73 3-29-73 5-14-73 6-08-73 7-24-73	0 0 1.21 .65 9.89 1.22 0
Pyramid and Winnemucca Lakes basin						
10336760	Edgewood Creek at Stateline, Nev.	Lat 38°58'00", long 119°56'10", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.13 N., R.18 E., Douglas County, on upstream side of culvert on U.S. Highway 50 and 0.5 mi (0.8 km) northeast of Stateline.	5.5	1967-73	10-16-72 4-11-73 5-17-73 8-09-73	2.72 6.73 6.85 2.38
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.17 N., R.19 E., Washoe County, at toe of hill and 8.0 mi (12.9 km) southwest of Steamboat.	4.2	1972-73	10-17-72 2-21-73 4-25-73 5-21-73 6-21-73 8-21-73 9-12-73	3.94 4.53 10.6 12.8 7.59 1.05 .16
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.17 N., R.19 E., Washoe County, 1.5 mi (2.4 km) upstream from mouth and 5.0 mi (8.0 km) southwest of Steamboat.	3.6	1972-73	10-17-72 2-21-73 4-25-73 5-21-73 6-21-73 8-21-73 9-12-73	.17 5.88 4.40 7.21 2.31 .06 .91
Black Rock Desert basin						
10353522	Rebel Creek near Orovida, Nev.	Lat 41°36'25", long 117°45'05", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.43 N., R.37 E., Humboldt County, 0.1 mi (0.2 km) upstream from Rebel Creek ranch diversion and 3.0 mi (4.8 km) northeast of Orovida (discontinued).	11.0	1969-73	6-13-73	13.1
Surprise Valley basin						
10361590	Tuledad Creek near Gerlach, Nev.	Lat 41°00'30", long 119°56'45", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10 T.36 N., R.18 E., Washoe County, at mouth of canyon in Duck Flat (Suprise Valley) 39 mi (63 km) northwest of Gerlach.	64.0	1971-73	10-17-72 12-14-72 2-27-73 4-16-73 5-14-73	.10 0 11.4 13.8 .85

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water year for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Virgin River basin							
09415100	Pulsipher Wash near Mesquite, Nev.	Lat 36°48'04", long 114°06'27", in NW¼SW¼ sec.18, T.13 S., R.71 E., Clark County, at culvert on U.S. Highway 91 and 2.5 miles west of Mesquite.	4.58	1963-73	2- 7-73	—	b7
09415480	White River tributary near Preston, Nev.	Lat 38°53'30", long 115°11'40", in N¼ sec.23, T.12 N., R.60 E., White Pine County, at culvert on U.S. Highway 6, 2 miles upstream from White River, and 7.5 miles west of Preston.	c26	1962-73	1973	—	0
09415560	White River tributary near Sunnyside, Nev.	Lat 38°19'30", long 115°02'50", Nye County, about 0.4 mile downstream from ford on State Highway 38, 8 miles south of Sunnyside, and 37 miles south of Lund.	c20	1967-73	2-28-73	3.80	330
09415800	Muddy River tributary near Alamo, Nev.	Lat 37°02'00", long 114°58'50", Lincoln County, at abandoned culvert on former U.S. Highway 93 and 25 miles southeast of Alamo.	c2	1964-73	1973	—	0
09417100	Dry Lake tributary near Nellis Air Force Base, Nev.	Lat 36°21'15", long 114°54'32", in NW¼SE¼ sec.26, T.18 S., R.63 E., Clark County, at bridge on Union Pacific Railroad spur, 0.1 mile north of U.S. Highway 91 and 93, and 11 miles northeast of Nellis Air Force Base.	10.0	1964-73	1973	—	0.1
09418100	Patterson Wash tributary near Pioche, Nev.	Lat 38°09'00", long 114°35'10", Lincoln County, at culvert on U.S. Highway 93 and 15 miles northwest of Pioche.	c5	1964-73	6-12-73	5.08	15
09418150	Casleton Wash near Panaca, Nev.	Lat 37°45'30", long 114°25'30", on section line common to sec.19, T.2 S., R.68 E., and sec.24, T.2 S., R.67 E., Lincoln County, 50 ft downstream from U.S. Highway 93 and 3 miles southwest of Panaca.	c75	1963-73	10- 4-72	b5.60	b45
09418450	Meadow Valley Wash tributary near Caliente, Nev.	Lat 37°36'00", long 114°39'30", in sec.13, T.4 S., R.65 E., Lincoln County, at abandoned culvert, about 100 ft upstream from U.S. Highway 93, 1.2 miles east of Oak Springs Summit, and 8 miles west of Caliente.	c<0.5	1964-73	1973	—	0
09418990	Weiser Wash near Glendale, Nev.	Lat 36°40'05", long 114°32'10", in SW¼SE¼ sec.31, T.14 S., R.67 E., Clark County, at culvert on Interstate Highway 15 and 2 miles east of Glendale.	c43	1966-73	11-17-72	7.39	150
Las Vegas Valley							
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE¼SW¼ sec.27, T.17 S., R.60 E., Clark County, above Mormon Wells road crossing, 6 miles east of Corn Creek Springs National Fish and Wildlife Service Headquarters, and 20 miles north of Las Vegas.	c115	1962-73	3-12-73	—	b20
09419623	Deer Creek near Charleston Park, Nev.	Lat 36°18'45", long 115°37'10", in NE¼SE¼ sec.7, T.19 S., R.57 E., Clark County, 200 ft upstream from culvert on Deer Creek Springs Road and 4.0 miles northeast of Charleston Park.	1.27	1967-73	6- 6-73	0.92	3
09419630	Telephone Canyon near Charleston Park, Nev.	Lat 36°16'20", long 115°32'30", in SE¼NW¼ sec.25, T.19 S., R.57 E., Clark County, at culvert on State Highway 39 and 5.8 miles east of Charleston Park.	7.20	1962-73	1973	—	0

b Estimated.

c Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Las Vegas Valley--Continued							
09419640	Kyle Canyon near Charleston Park, Nev.	Lat 36°16'40", long 115°28'10", in SE¼SW¼ sec.22, T.19 S., R.58 E., Clark County, 650 ft below culvert on State Highway 39 and 10 miles east of Charleston Park.	35.9	1961-73	10- 4-72	1.73	b15
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 mile southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	c62	1963-73	5-31-73	1.90	b15
09419660	Las Vegas Wash tributary near Nellis Air Force Base, Nev.	Lat 36°13'55", long 115°04'05", in NW¼NE¼ sec.8, T.20 S., R.62 E., Clark County, at culvert on Alternate U.S. Highway 91 and 93 and 1.5 miles southwest of Nellis Air Force Base.	18.1	1961-73	10- 9-72	4.73	618
09419663	Las Vegas Wash tributary south of Nellis Air Force Base, Nev.	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, 0.1 mile south of Lake Mead Boulevard and 3.7 miles south of main gate of Nellis Air Force Base.	c1.2	1963-73	12- 4-72	2.59	b1
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.	8.09	1962-73	1973	—	0
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'56", 115°11'03", in SW¼ sec.17, T.21 S., R.61 E., Clark County, 80 ft upstream from Union Pacific Railroad bridge and 4 miles southwest of Las Vegas Post Office.	c86	1966-73	11-16-72	2.15	b36
09419678	Flamingo Wash near mouth at Las Vegas, Nev.	Lat 36°08'28", long 115°05'47", in NW¼NW¼ sec.7, T.21 S., R.62 E., Clark County, 120 ft upstream from culvert on U.S. Highway 93, 95, and 466 and 3.2 miles southeast of Las Vegas Post Office.	c117	1969-73	11-16-72	5.94	b30
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE¼NW¼ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road and 3 miles southwest of Blue Diamond.	18.3	1961-73	1973	—	0
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NW¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466 and 0.7 mile southeast of Whitney.	239	1961-73	1973	3.39	600
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE¼SE¼ sec.15, T.22 S., R.62 E., Clark County, at culvert on State Highway 41 and 2.5 miles west of downtown Henderson.	1.17	1967-73	2- 6-73	—	b2
Piute Valley							
09423300	Piute Wash tributary at Searchlight, Nev.	Lat 35°28'00", long 114°56'20", in SE¼NE¼ sec.33, T.28 S., R.63 E., Clark County, at culvert on State Highway 68 and 1 mile west of Searchlight.	3.4	1967-73	11-17-72	—	b0.3

b Estimated.

c Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Great Salt Lake Desert							
10172902	Dead Cedar Wash near Wendover, Utah	Lat 40°25'00", long 114°11'20", in N½ sec.4, T.29 N., R.69 E., Elko County, Nev., at culvert on Alternate U.S. Highway 50 and 23.5 miles southwest of Wendover, Utah.	c5	1961-73	10-21-72	2.32	b6
10172908	Thousand Springs Creek at Wilkins, Nev.	Lat 41°25'15", long 114°45'00", in SE¼ sec.20, T.41 N., R.64 E., Elko County, at culvert on U.S. Highway 93, south of Wilkins, and 24 miles northeast of Wells.	c79	1968-73	1973	4.45	—
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	1968-73	8- 4-73	2.65	b2
10172913	Loray Wash tributary near Cobre, Nev.	Lat 41°07'27", long 114°20'40", in SE¼SW¼ sec.36, T.38 N., R.67 E., Elko County, at culvert on State Highway 30 and 3 miles east of Cobre.	c24	1961-73	6-14-73	6.06	185
Escalante Valley							
10242460	Escalante Valley tributary near Panaca, Nev.	Lat 37°44'10", long 114°08'20", Lincoln County at culvert on State Highway 25, 3.5 miles east of Modena Summit, 5 miles west of Nevada-Utah boundary, and 14 miles east of Panaca.	c7.9	1964-73	7-13-73	5.15	b4
Snake Valley							
10243240	Baker Creek at narrows, near Baker, Nev.	Lat 38°59'25", long 114°12'35", in NE¼ sec.22, T.13 N., R.69 E., White Pine County, at narrows, 1,200 ft below Pole Canyon, and 5.2 miles southwest of Baker.	16.4	1948-55†, 1960-73	5-20-73	2.66	147
Spring Valley							
10243660	Connors Pass Creek near Shoshone, Nev.	Lat 39°02'35", long 114°38'00", in SW¼SW¼ sec.25, T.14 N., R.65 E., White Pine County, at culvert on U.S. Highway 6, 50, and 93 and 18.5 miles northwest of Shoshone.	0.45	1962-73	1973	—	0
10243700	Cleve Creek near Ely, Nev.	Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, 2 miles downstream from North Fork and 18 miles east of Ely.	31.8	1914-16†, 1960-67†, 1968-73	1-19-73	3.37	80
Antelope Valley (Northern Part)							
10243950	Millick Canyon tributary near Currie, Nev.	Lat 40°13'30", long 114°26'10", near center of sec.8, T.27 N., R.67 E., Elko County, at culvert on Alternate U.S. Highway 50 and 17 miles east of Currie.	c1.4	1965, 1968-73	6-14-73	12.3	80
Clover and Independence Valleys							
10244220	Maverick Canyon near Oasis, Nev.	Lat 41°04'32", long 114°35'14", in SE¼NE¼ sec.23, T.37 N., R.65 E., Elko County, at culvert on U.S. Highway 40 and 6 miles northwest of Oasis.	3.02	1968-73	1973	—	0
10244240 (revised)	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE¼SW¼ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93 and 21 miles southeast of Arthur.	c3	1968-73	10- 8-72	4.99	43
Dixie Valley basin							
10244360 (revised)	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'38", long 117°59'10", in SE¼ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50 and 6 miles west of Eastgate.	c11	1961-73	8-13-73	—	b30

† Operated as a continuous-record station.

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations—Continued							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Rawhide Flats							
10244460 (revised)	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S½SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95 and 14 miles north of Schurz.	0.96	1967-73	2-11-73	8.13	b0.5
Gabbs Valley							
10244480 (revised)	Gabbs Valley tributary near Gabbs, Nev.	Lat 38°59'45", long 117°59'45", in sec.13, T.13 N., R.35 E., Nye County, at culvert on State Highway 23 and 9 miles northwest of Gabbs.	c7	1965, 1968-73	1973	—	0
Teels Marsh Valley							
10244620 (revised)	Teels Marsh tributary at Basalt, Nev.	Lat 38°00'07", long 118°16'48", Mineral County, at culvert on U.S. Highway 6 and 0.75 mile southwest of Basalt.	1.07	1967-73	1973	—	0
Rhodes Salt Marsh Valley							
10244660 (revised)	Rhodes Salt Marsh tributary near Candelaria, Nev.	Lat 38°09'17", long 118°12'50", Mineral County, at culvert on State Highway 10 and 7 miles west of Candelaria.	c0.4	1961-73	1973	—	0
Ruby Valley							
10244745 (revised)	Overland Creek near Ruby Valley, Nev.	Lat 40°27'30", long 115°23'30", in SE¼SE¼ sec.23, T.30 N., R.58 E., Elko County, 0.1 mile upstream from Humboldt National Forest boundary and 2.2 miles north of Ruby Valley Post Office.	c9	1960-67†, 1968-73	6-16-73	2.29	225
Steptoe Valley basin							
10245080 (revised)	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93 and 2.5 miles northwest of Currie.	c0.7	1961-73	1973	—	0
Dry Lake Valley							
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW¼ sec.11, T.4 S., R.64 E., Lincoln County, at culvert on U.S. Highway 93 and 14.5 miles west of Caliente.	c11	1967-73	1973	—	0
Jakes Valley							
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 ft upstream from Illipah Creek, and 10.5 miles northeast of Hamilton.	5.47	1962-73	4-27-73	2.13	b20
Monitor and Diamond Valleys basin							
10245950	Bean Flat tributary near Austin, Nev.	Lat 39°29'32", long 116°32'00", Eureka County, at culvert on U.S. Highway 50 and 29 miles east of Austin.	c1.1	1961-73	1973	—	0
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, at culvert on State Highway 51 and 24 miles northwest of Eureka.	2.12	1962-73	1973	—	0
10246010	Garden Pass Creek near Eureka, Nev.	Lat 39°46'45", long 116°06'23", in NW¼NW¼ sec.22, T.22 N., R.52 E., Eureka County, at culvert on State Highway 51 and 20 miles north of Eureka.	19.2	1965-73	1973	4.72	4

† Operated as a continuous-record station.

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Hot Creek and Railroad (Northern Part) Valleys							
10246845	Currant Creek tributary near Currant, Nev.	Lat 38°49'10", long 115°19'35", near line common to NW¼NE¼ and NE¼NW¼ sec.15, T.11 N., R.59 E., Nye County, at culvert on U.S. Highway 6 and 9.5 miles northeast of Currant.	3.13	1962-73	8- 6-73	—	b3
10246847	Currant Creek, below Little Currant Creek, near Currant, Nev.	Lat 38°49'12", long 115°20'43", in NE¼NW¼ sec.16, T.11 N., R.59 E., Nye County, at bridge on U.S. Highway 6, 3.5 miles west of Currant Summit, and 9 miles northeast of Currant.	30.0	1964-73	5-12-73	—	b30
10247010	Hot Creek tributary near Warm Springs, Nev.	Lat 38°12', long 116°13', in sec.15, T.4 N., R.51 E., Nye County, at culvert on State Highway 25, 9 miles east of Warm Springs, and 57 miles east of Tonopah.	—	1964-73	1973	—	0
10247220	Black Rock Summit tributary near Currant, Nev.	Lat 38°30'25", long 115°53'20", Nye County, at culvert on U.S. Highway 6 and 28 miles south-west of Currant.	6.35	1967-73	1973	—	0
10247230	Railroad Valley tributary near Currant, Nev.	Lat 38°32'34", long 115°47'52", in NW¼NW¼ sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6 and 22.5 miles southwest of Currant.	0.37	1962-73	1973	—	0
Indian Springs Valley							
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW¼NW¼ sec.16, or SW¼SW¼ sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95 and 8 miles west of Indian Springs.	c29	1964-73	3- 3-73	—	b0.3
Eldorado Valley							
10248510 (revised)	Eldorado Valley tributary near Nelson, Nev.	Lat 35°48'35", long 114°53'05", in SE¼SE¼ sec.36, T.24 S., R.63 E., Clark County, at culvert on State Highway 60 8 miles northwest of Nelson.	1.41	1964-73	1973	—	0
Stonewall and Sarcobatus Flats basin							
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE¼NE¼ sec.13, T.4 S., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 8 miles south of Goldfield.	0.53	1964-73	10- 4-72	—	b1
10248980	Lida Pass tributary near Lida, Nev.	Lat 37°26'05", long 117°33'25", in SE¼NE¼ sec.8, T.6 S., R.40 E., Esmeralda County, at culvert on State Highway 3 and 4 miles southwest of Lida.	1.59	1968-73	1973	—	0
10249050	Sarcobatus Flat tributary near Springdale, Nev.	Lat 37°13'18", long 117°07'35", Nye County, at culvert on State Highway 72, at Bonnie Clare, and 24 miles northwest of Springdale.	37.1	1961-73	10- 4-72	2.00	6
Stone Cabin and Ralston Valleys							
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 8A and 19 miles north of Tonopah.	3.42	1965-73	10- 4-72	c3.00	7
10249140	Ralston Valley tributary near Tonopah, Nev.	Lat 38°17'23", long 117°05'59", in SW¼NE¼ sec.13, T.5 N., R.43 E., Nye County, at culvert on State Highway 8A and 17 miles northeast of Tonopah.	0.20	1961-73	1973	—	0
10249180 (revised)	Saulsbury Wash near Tonopah, Nev.	Lat 38°07'30", long 116°48'30", in S¼SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6 and 23 miles east of Tonopah.	c56	1962-73	10- 4-72	—	b3

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Smith Creek Valley							
10249417	Smith Creek Valley tributary near Austin, Nev.	Lat 39°32'21", long 117°28'26", in NE¼SE¼ sec.4, T.19 N., R.40 E., Lander County, at culvert on U.S. Highway 50 and 22 miles west of Austin.	0.62	1968-73	4-19-73	—	b2
Tone and Big Smoky (Tonopah Flat) Valleys							
10249620 (revised)	Big Smoky Valley tributary near Tonopah, Nev.	Lat 38°01'52", long 117°13'52", in SW¼NE¼ sec.14, T.2 N., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 2.5 miles south of Tonopah.	2.39	1961-73	1973	—	0
10249680	Big Smoky Valley tributary near Blair Junction, Nev.	Lat 38°01'52", long 117°42'35", Esmeralda County, at culvert on U.S. Highway 6 and 95 and 3.5 miles east of Blair Junction.	11.4	1961-73	10- 1-72	1.91	b14
Fish Lake Valley and Columbus Salt Marsh							
10249850	Palmetto Wash tributary near Lida, Nev.	Lat 37°26'30", long 117°41'25", in SW¼SE¼ sec.6, T.6 S., R.39 E., Esmeralda County, at culvert on State Highway 3, 7 miles west of Lida Summit, and 11 miles west of Lida.	4.73	1967-73	1973	—	b0.1
10249855	Palmetto Wash tributary near Oasis, Calif.	Lat 37°27'25", long 117°46'10", in W¼SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 3 and 8 miles south-east of Oasis, Calif.	c0.24	1968-73	1973	—	b0.1
Death Valley basin							
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW¼NE¼ sec.30, T.12 S., R.47 E., Nye County, on left bank, 170 ft downstream from airport road, and 2.8 miles south of Beatty.	c470	1963-68†, 1969-73	2-11-73	1.06	b18
10251270	Amargosa River tributary near Mercury, Nev.	Lat 26°33'40", long 116°06'00", in sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95 and 9 miles southwest of Mercury.	110	1963-73	10- 4-72	2.86	185
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE¼SE¼ sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 3.5 miles northwest of Johnnie.	2.21	1967-73	10- 4-72	7.49	98
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W¼NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 1.2 miles north of Johnnie.	2.49	1968-73	2-11-73	—	b0.1
Mono Lake basin							
10287210	Bridgeport Creek near Bodie, Calif.	Lat 38°04'45", long 119°02'40", in NW¼ sec.31, T.3 N., R.27 E., Mono County, at culvert of Pole Line Road and 9.3 miles south of Bodie, Calif. (Discontinued)	13.1	1963-73	1973	4.48	b11
Walker Lake basin							
10295200	West Walker River at Leavitt Meadows, near Coleville, Calif.	Lat 38°19'50", long 119°33'05", in NW¼NW¼ sec.34, T.6 N., R.22 E., Mono County, at Leavitt Meadows Lodge and 16.5 miles south of Coleville, Calif. (Discontinued)	73.0	1946-64†, 1967-73	1973	5.55	1,400
10295450	Hot Creek tributary near Bridgeport, Calif.	Lat 38°21'06", long 119°23'53", in NW¼SE¼ sec.24, T.6 N., R.23 E., Mono County, at culvert on U.S. Highway 395 and 13.3 miles northwest of Bridgeport, Calif. (Discontinued)	0.97	1965-73	1973	4.74	b5

† Operated as a continuous-record station.

b Estimated.

c Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum			
					Date	Gage height (feet)	Dis-charge (cfs)	
Walker Lake basin--Continued								
10296800	Slinkard Creek tributary near Topaz, Calif.	Lat 38°38'50", long 119°33'40", in NE¼NE¼ sec.9, T.9 N., R.22 E., Mono County, at culvert on State Highway 89 and 3.4 miles northwest of Topaz, Calif. (Discontinued)	0.14	1963-73	1973	—	0	
10299100	Desert Creek near Wellington, Nev.	Lat 38°38'55", long 119°19'30", in SW¼SW¼ sec.8, T.9 N., R.24 E., Lyon County, on left bank 10 ft above diversion and 8 miles southeast of Wellington.	50.4	1965-69†, 1970-73	1973	2.26	95	
10299120	O'Banion Canyon near Wellington, Nev.	Lat 38°38'05", long 119°15'50", Lyon County, at Culvert on State Highway 22 and 10 miles southeast of Wellington.	5.05	1965-73	1973	—	0	
Carson River basin								
10304500	Silver Creek below Pennsylvania Creek, near Markleeville, Calif.	Lat 38°36'00", long 119°46'30", in SE¼NE¼ sec.28, T.9 N., R.20 E., Alpine County, 0.2 mile downstream from Pennsylvania Creek and 6.5 miles south of Markleeville, Calif. (Discontinued)	19.6	1947-67†, 1968-73	7-31-73	4.90	530	
10308100	Millberry Creek at Markleeville, Calif.	Lat 38°42'00", long 119°47'00", in SW¼NE¼ sec.21, T.10 N., R.20 E., Alpine County, at culvert on State Highway 4 and 89 and 0.4 mile northwest of Markleeville, Calif. (Discontinued)	5.10	1963-73	1973	—	b1.0	
10308800	Bryant Creek near Gardnerville, Nev.	Lat 38°47'38", long 119°40'18", in NE¼NW¼ sec.30, T.11 N., R.21 E., Douglas County, 1.7 miles upstream from mouth and 11 miles southeast of Gardnerville. (Discontinued)	31.5	1962-69†, 1970-73	1973	1.49	70	
10309005	Bodie Flat tributary near Gardnerville, Nev.	Lat 38°50'08", long 119°37'52", in NW¼NE¼ sec.9, T.11 N., R.21 E., Douglas County, at culvert on U.S. Highway 395 and 9 miles southeast of Gardnerville.	0.46	1967-73	2-10-73	8.97	b0.5	
10310500	Clear Creek near Carson City, Nev.	Lat 39°06'48", long 119°47'50", in NE¼NW¼ sec.1, T.14 N., R.19 E., Carson City, 3 miles upstream from mouth and 3.5 miles southwest of Carson City.	15.5	1948-62†, 1963-73	1973	0.66	8	
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW¼NE¼ sec.13, T.15 N., R.20 E., Carson City, 0.3 mile upstream from mouth and 2.5 miles east of New Empire.	12.7	1966-73	1-19-73	1.56	b4	
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95 and 4.8 miles northwest of Wabuska.	5.75	1968-73	1973	—	0	
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13'45", long 119°13'40", in NW¼NW¼ sec.30, T.16 N., R.25 E., Lyon County, at abandoned culvert on former Alternate U.S. Highway 95 and 4.6 miles southeast of Weeks.	0.12	1968-73	1973	—	0	
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE¼SW¼ sec.32, T.18 N., R.24 E., Lyon County, at culvert on private road, 0.3 mile south of U.S. Highway 50, and 5.5 miles southwest of Silver Springs.	4.39	1962-73	1973	—	0	

† Operated as a continuous-record station.

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Humboldt River basin							
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58'10", long 115°26'50", in NW¼ sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80 and 1.5 miles north of Halleck.	c3	1966-73	2-28-73	5.94	37
10315950	Secret Creek tributary near Arthur, Nev.	Lat 40°52'00", long 115°15'40", in SE¼ sec.36, T.35 N., R.59 E., Elko County, at culvert on State Highway 11, 6 miles northwest of Arthur, and 12 miles southeast of Halleck.	c3	1967-73	5-18-73	19.54	36
10317430	Jim Creek near Tuscarora, Nev.	Lat 41°17'50", long 115°47'30", in SW¼ sec.4, T.39 N., R.55 E., Elko County, at culvert on State Highway 43 and 23 miles east of Tuscarora.	c25	1962, 1966-73	3-10-73	4.64	b29
10319470	Willow Creek tributary near Jiggs, Nev.	Lat 40°30'47", long 115°39'42", in SW¼ sec.3, T.30 N., R.56 E., Elko County, at culvert on State Highway 46 and 6 miles north of Jiggs.	0.82	1962-73	1973	3.36	b4
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼ sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 20 and 3.2 miles southeast of Palisade.	11.4	1962-73	1973	—	b1
10323200	Bob Creek near Beowawe, Nev.	Lat 40°39'35", long 116°24'30", in NE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80 and 6 miles northeast of Beowawe.	13.9	1962-73	2-11-73	2.94	34
10323880	Willow Creek above Willow Creek Reservoir, near Tuscarora, Nev.	Lat 41°13'00", long 116°28'00", in SW¼ sec.36, T.39 N., R.48 E., Elko County, 4 miles upstream from dam and 14.5 miles southwest of Tuscarora.	c81	1968-73	5- 5-73	2.79	160
10326400	Reese River tributary near Austin, Nev.	Lat 39°28'29", long 117°19'10", in NE¼ sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50 and 14 miles west of Austin.	8.27	1968-73	1973	—	0
10326650	Silver Creek near Austin, Nev.	Lat 39°43'10", long 117°10'04", in NW¼ sec.5, T.21 N., R.43 E., Lander County, at culvert on State Highway 8A and 16.5 miles north of Austin.	c25	1961-73	3- 4-73	2.44	19
10326850	Reese River tributary near Battle Mountain, Nev.	Lat 40°32'30", long 117°03'00", in SW¼ sec.20, T.31 N., R.44 E., Lander County, at culvert on State Highway 8A and 9 miles southwest of Battle Mountain.	c0.2	1962-73	2-14-73	2.95	b0.3
10327600	Humboldt River tributary near Golconda, Nev.	Lat 41°00'40", long 117°21'20", in E¼ sec.9, T.36 N., R.41 E., Humboldt County, at culvert on State Highway 18 and 8 miles northeast of Golconda.	c3.4	1962-73	1973	—	b1
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80 and 5 miles northeast of Winnemucca.	c1.9	1968-73	7-18-73	5.96	113
10330300	Mullinex Creek near Paradise Valley, Nev.	Lat 41°30'40", long 117°32'25", in NE¼ sec.23, T.42 N., R.39 E., Humboldt County, at culvert on State Highway 8B and 1.2 miles north of Paradise Valley.	27.3	1962-73	1-11-73	—	200
10332200	Raspberry Creek near Mill City, Nev.	Lat 40°47'14", long 117°59'54", in SW¼ sec.25, T.34 N., R.35 E., Pershing County, at culvert on access road, upstream from Cosgrove Interchange on Interstate Highway 80, and 8.5 miles northeast of Mill City.	9.38	1961-73	5-31-73	4.60	25

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Humboldt River basin--Continued							
10336030	Toulon Drain tributary near Lovelock, Nev.	Lat 40°06'30", long 118°33'25", in NW¼SE¼ sec.24, T.26 N., R.30 E., Pershing County, at culvert on Interstate Highway 80 and 7.5 miles southwest of Lovelock.	0.80	1962-73	1973	—	0
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51'05", long 118°55'40", in NE¼NE¼ sec.22, T.23 N., R.27 E., Churchill County, at culvert on U.S. Highway 40 and 95 and 6.5 miles north-east of Bradys Hot Springs.	11.0	1962-73	10- 1-72	3.44	32
Pyramid and Winnemucca Lakes basin							
10336688*	First Creek near Crystal Bay, Nev.	Lat 39°15'00", long 119°59'18", in NE¼SW¼ sec.17, T.16 N., R.18 E., Washoe County, at culvert on State Highway 28 and 1.7 miles northeast of Crystal Bay.	1.09	1970-73	5-14-73	0.88	9
10336690*	Second Creek near Crystal Bay, Nev.	Lat 39°15'10", long 119°58'35", in SE¼NE¼ sec.17, T.16 N., R.18 E., Washoe County, at culvert on Silvertip Drive and 2.2 miles northeast of Crystal Bay.	1.63	1970-73	5-14-73	0.84	13
10336693*	Wood Creek near Crystal Bay, Nev.	Lat 39°15'40", long 119°57'25", in SE¼SE¼ sec.9, T.16 N., R.18 E., Washoe County, at culvert on State Highway 27 and 3.5 miles northeast of Crystal Bay.	1.69	1967-73	5-15-73	4.45	20
10336694*	Wood Creek at mouth near Crystal Bay, Nev.	Lat 39°14'35", long 119°57'30", in NE¼NE¼ sec.21, T.16 N., R.18 E., Washoe County, at culvert on Lakeshore Boulevard and 2.7 miles northeast of Crystal Bay.	2.05	1970-73	5-15-73	0.70	12
10336696*	Third Creek at Incline Village, Nev.	Lat 39°16'25", long 119°56'50", in SE¼SW¼ sec.3, T.16 N., R.18 E., Washoe County, at downstream end of culvert on State Highway 27, at north end of Incline Village Golf Course, and 4.4 miles northeast of Crystal Bay.	4.30	1970-73	5-15-73	2.99	70
10337900	Truckee River tributary near Truckee, Calif.	Lat 39°16'48", long 120°12'21", in SW¼NE¼ sec.33, T.17 N., R.16 E., Placer County, at culvert on State Highway 89 and 3.5 miles southwest of Truckee, Calif. (Discontinued)	1.05	1963-73	1973	16.53	b9
10339200	Middle Martis Creek near Truckee, Calif.	Lat 39°16'55", long 120°06'12", in SW¼NW¼ sec.33, T.17 N., R.17 E., Placer County, at culvert on North Shore Boulevard and 6.2 miles southeast of Truckee, Calif. (Discontinued)	2.80	1965-73	1973	10.83	b15
10350100	Long Valley Creek near Happy Valley, Nev.	Lat 39°28'55", long 119°37'10", in NE¼SW¼ sec.27, T.19 N., R.21 E., Storey County, 2 miles southeast of Happy Valley and 8 miles south-east of Sparks.	79.9	1967-73	1973	—	b0.1
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on Southern Pacific Railroad and 6.5 miles west of Nixon.	1.94	1968-73	11-13-72	—	b25
Black Rock Desert basin							
10353520	Eagle Creek near Orovida, Nev.	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95 and 5.6 miles north of Orovida.	3.44	1962-73	1973	—	0
10353710	Black Rock Desert tributary near Sulphur, Nev.	Lat 40°54'00", long 118°37'40", Humboldt County, at culvert on State Highway 49 and 7.5 miles east of Sulphur.	c33	1967-73	1-16-73	5.66	325
10353730	Dry Creek near Gerlach, Nev.	Lat 40°43'43", long 119°27'07", in SE¼NE¼ sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 81 and 7.5 miles west of Gerlach.	c3.5	1968-73	1973	—	b9

* Also published as a miscellaneous site.

b Estimated.

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Hualapai Flat							
10353770	South Willow Creek near Gerlach, Nev.	Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, 300 ft east of State Highway 34 and 25 miles north of Gerlach.	c31	1963-73	1973	1.07	27
Guano Valley Basin							
10361700	Badger Creek tributary near Vya, Nev.	Lat 41°43'20", long 119°22'20", in NE¼ sec.22, T.44 N., R.23 E., Washoe County, at culvert on State Highway 8A, 27 miles northeast of Vya, and 43 miles southwest of Denio.	7.7	1963 1964-72† 1973	3- -73	—	b2
Tumtum Lake basin							
10407150	Big Spring Reservoir tributary near Denio, Nev.	Lat 41°56'53", long 119°17'51", Humboldt County, at culvert on State Highway 8A, 3.4 miles southwest of Nevada-Oregon State line, and 35 miles west of Denio.	1.02	1963-73	3-20-73	3.87	b0.2
Bruneau River basin							
13161100	Bruneau River near Charleston, Nev.	Lat 41°30'50", long 115°27'05", in SE¼SW¼ sec.20, T.42 N., R.58 E., Elko County, 600 ft downstream from road, 11.5 miles south of Charleston, and 25 miles south of Jarbidge.	c44	1962-73	1973	12.69	b78
13161200	Seventy Six Creek near Charleston, Nev.	Lat 41°42'40", long 115°28'57", in NE¼ sec.13, T.44 N., R.57 E., Elko County, at culvert, 3.5 miles northeast of Charleston, and 12 miles south of Jarbidge.	3.52	1963-73	1973	—	b30
13161300	Meadow Creek near Rowland, Nev.	Lat 41°54'00", long 115°40'40", in SW¼ sec.5, T.46 N., R.56 E., Elko County, at culvert and 2.5 miles south of Rowland.	57.8	1963-73	1973	12.69	420
13161600	McDonald Creek near Rowland, Nev.	Lat 41°55'10", long 115°46'20", in SW¼NE¼ sec.33, T.47 N., R.55 E., Elko County, at culvert and 5 miles west of Rowland.	10.8	1963-73	1973	7.27	23
13162200	Jarbidge River at Jarbidge, Nev.	Lat 41°51'45", long 115°25'40", in NW¼ sec.21, T.46 N., R.58 E., Elko County, at bridge and 1.0 mile south of Jarbidge.	22.6	1964-73	6-27-73	15.74	315
13162400	Buck Creek near Jarbidge, Nev.	Lat 41°58'45", long 115°25'55", in NW¼ sec.9, T.47 N., R.58 E., Elko County, at culvert, at Diamond A Ranch, and 7.2 miles north of Jarbidge.	20.2	1963-73	5- 5-73	16.29	83
13162600	Columbet Creek near Jarbidge, Nev.	Lat 41°58'00", long 115°29'05", in NW¼ sec.13, T.47 N., R.57 E., Elko County, at culvert and 7 miles northwest of Jarbidge.	3.37	1963-73	5-18-73	6.64	5
Owyhee River basin							
13175900	Reed Creek near Owyhee, Nev.	Lat 41°53'45", long 116°03'40", in SW¼SE¼ sec.7, T.46 N., R.53 E., Elko County, at culvert on State Highway 11A and 3.8 miles southeast of Owyhee.	6.51	1963-73	1973	3.24	18
13176600	Taylor Canyon tributary near Tuscarora, Nev.	Lat 41°14'10", long 116°02'10", in S½ sec.29, T.39 N., R.53 E., Elko County, at culvert on State Highway 11 and 11 miles southeast of Tuscarora.	c1.2	1967-73	1973	—	0

b Estimated.

c Approximately.

† Operated as a continuous-record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†). Annual maximum discharge at previous continuous-record sites are sometimes determined by use of latest-defined stage-discharge relation, rather than by measurement.

Discharge measurements made at miscellaneous sites during water year 1973

Discharge measurements made at miscellaneous sites during water year 1973						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pahrump Valley						
Manse Spring	Pahrump Valley	Lat 36°09'20", long 115°54'00", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3 T.21 S., R.54 E., Nye County, 100 ft (30 m) below spring pool and 6 mi (10 km) southeast of Pahrump.	--	--	3-09-72	0.68
Walker Lake Basin						
Robinson Creek	Virginia Creek	Lat 38°12'01", long 119°19'08", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.4 N., R.24 E., Mono County, at Honeymoon Flat campground on the Twin Lakes road about 8 mi (13 km) southwest of Bridgeport, Calif.	--	--	12-08-72	3.14
Carson River basin						
Fredericksburg Canyon	West Fork Carson River	Lat 38°49'41", long 119°47'56", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.11 N., R.19 E., Alpine County, 0.7 mi (1.1 km) west of Fredericksburg.	3.71	--	5-10-73	5.07
Mott Canyon	West Fork Carson River	Lat 38°55'41", long 119°51'34", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.12 N., R.19 E., Douglas County, 0.8 mi (1.3 km) upstream from Foothill Road, and 5.5 mi (8.8 km) southwest of Minden.	2.03	1969-73	5-10-73	3.11
Humboldt River basin						
Huntington Creek	Humboldt River	Lat 40°33'45", long 115°43'00", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.31 N., R.56 E., Elko County, on right bank 500 ft (152 m) downstream from mouth of right tributary, 1.6 mi (2.6 km) downstream from Willow Creek, 5.5 mi (8.8 km) upstream from mouth, and 6 mi (10 km) west of Lee.	a 770	1948-1972† 1973	2- -73 4-03-73 5-15-73 6-11-73 7-13-73 9-21-73	† 780 98.1 350 122 17.9 3.44
Pyramid and Winnemucca Lakes basin						
Hunter Creek	Truckee River	Lat 39°29'25", long 119°53'55", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.19 N., R.15 E., Washoe County, on right bank 1.0 mi (1.6 km) upstream from mouth, 1.2 mi (1.9 km) upstream from Hunter Creek Reservoir, and 5 mi (8 km) southwest of Reno.	11.5	1961-1971† 1973		† 123
Franktown Creek	Washoe Lake	Lat 39°15'10", long 119°52'40", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.16 N., R.19 E., Washoe County, about 2.4 mi (3.9 km) southwest of Franktown.	11.9	--	9-25-73	* 2.72
Franktown Creek	Washoe Lake	Lat 39°16'15", long 119°51'20", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.17 N., R.19 E., Washoe County, about 0.9 mi (1.4 km) west of Franktown.	15.1	1948-1955	9-12-73	* 3.95

a Approximately.

† Operated as a continuous-record station.

Discharge measurements made at miscellaneous sites during water year 1973--continued

Discharge measurements made at miscellaneous sites during water year 1973--continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pyramid and Winnemucca Lakes basin--continued						
Ophir Creek	Washoe Lake	Lat 39°17'15", long 119°15'30", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.17 N., R.19 E., Washoe County, about 0.9 mi (1.4 km) north of Bowers Mansion.	6.4	--	9-12-73	* 3.96
Davis Creek	Washoe Lake	Lat 39°18'20", long 119°50'00", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.17 N., R.19 E., Washoe County, about 1.5 mi (2.4 km) southwest of Washoe City.	1.1	--	9-12-73	* .08
Winters Creek	Washoe Lake	Lat 39°18'50", long 119°49'35", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.17 N., R.19 E., Washoe County, about 1 mi (1.6 km) southwest of Washoe City.	1.7	--	9-12-73	* .20
Jumbo Creek	Washoe Lake	Lat 39°16'30", long 119°43'35", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.16 N., R.20 E., Washoe County, about 0.9 mi (1.4 km) east of foothill road on Jumbo grade road, and about 1 mi (1.6 km) east of New Washoe City.	4.8	--	9-24-73	* .41
Jones Creek	Galena Creek	Lat 39°22'10", long 119°49'25", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.17 N., R.19 E., Washoe County, about 3.5 mi (5.6 km) north of Washoe City.	3.4	--	9-12-73	0
Truckee River	Pyramid Lake	Lat 39°32'48", long 119°35'00", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.19 N., R.21 E., Washoe County, about 9 mi (14.5 km) east of sparks.	1,552	--	4-20-73	688
Owyhee River basin						
Jack Creek	South Fork Owyhee River	Lat 41°30'30", long 116°04'20", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.42 N., R.52 E., Elko County, 0.2 mi (0.3 km) downstream from Schoonover Creek, 2 mi (3 km) upstream from mouth, and 16 mi (26 km) north-east of Tuscarora.	19.8	1962-1969† 1970-1972M 1973	5-19-73 6-19-73	† 156 33.6

† Operated as a continuous-record station.

M Operated as a crest-stage partial record station.

A series of discharge and water-quality measurements was made on Oct. 26, 1972, on the West Walker River between Hoyer Bridge and Wilson Canyon, to study channel gains and losses. Discharge at the Hoyer Bridge gaging station was nearly constant for 15 days prior to, and including, the day of these measurements. Several diversions near the mouth of Hoyer Canyon were measured. Net gain or loss was computed by adding inflow and subtracting diversions between the upstream and downstream sites, and subtracting the sum from the downstream site. Discharge measurements are accurate within about 5 percent; therefore, several of the smaller indicated gains and losses may be apparent rather than real.

Stream	Location (distances are airline miles)	Date	Time	Temperature (°C)	Specific conductance (micromhos per cm at 25 °C)	Discharge in cubic feet per second			
						Main channel	Diversion	Inflow	Indicated gain or loss
West Walker River	Gaging station at Hoyer Bridge NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.10 N., R.23 E.	10-26-72	0840	6.0	239	43.5			
do.	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.10 N., R.23 E., 2.2 miles southwest of Wellington.	do.	1015	7.5	236	42.0			-1.5
Saroni Canal	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.10 N., R.23 E., below point of diversion, 2.0 miles southwest of Wellington.	do.	1145	9.0	--		4.29		
West Walker River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.10 N., R.23 E., below Saroni Canal diversion, 2.0 miles southwest of Wellington.	do.	1125	8.0	233	39.3			+1.6
Colony Ditch	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.10 N., R.23 E., immediately below flume near point of diversion.	do.	0815	7.5	--		21.9		
Plymouth Canal	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.10 N., R.23 E., 30 ft above flume below point of diversion.	do.	0850	7.5	--		1.61		
West Walker River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.10 N., R.23 E., 0.8 mile southwest of Wellington.	do.	0955	7.5	231	13.4			-2.4
do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.10 N., R.23 E., 0.5 mile southwest of Wellington.	do.	1120	9.0	230	14.8			+1.4
West Walker Ditch	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.10 N., R.23 E., 0.5 mile northwest of Wellington.	do.	1200	--	--		0.14		
Gage Peterson Ditch	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.10 N., R.23 E., 0.5 mile northwest of Wellington.	do.	1220	--	--		3.11		
West Walker River	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.10 N., R.23 E., 0.5 mile northwest of Wellington. (Head of valley).	do.	1305	11.0	227	10.5			-1.0
do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.11 N., R.23 E., 1.8 miles north of Wellington.	do.	1510	15.0	307	14.3			+3.8
do.	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.11 N., R.23 E., 2.2 miles west of Smith.	do.	1400	14.0	383	30.5			+3.7

Stream	Location (distances are airline miles)	Date	Time	Temperature (°C)	conductance (micromhos per cm at 25 °C)	Discharge in cubic feet per second			
						Main channel	Diversion	Inflow	Indicated gain or loss
West Walker River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.11 N., R.23 E., 1.8 miles northwest of Smith.	10-26-72	1535	15.0	386	30.5			+10.5
Beaman Lakes Drain	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.11 N., R.23 E., 1.8 miles northwest of Smith.	do.	1550	12.5	--			0.34	
West Walker River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.11 N., R.24 E., at Fish Hatchery, 1.6 miles north of Smith.	do.	0855	7.5	417	38.8			+8.0
Fish Hatchery Inflow	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.11 N., R.24 E., at Fish Hatchery, 1.6 miles north of Smith.	do.	0810	10.0	--			0.25	
West Walker River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.11 N., R.24 E., 2.3 miles north of Smith.	do.	1655	13.5	436	43.4			+4.4
do.	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.9, T.11 N., R.24 E., 2.9 miles northeast of Smith.	do.	1730	12.5	440	46.8			+3.4
do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.11 N., R.24 E., at old Hudson town site, 3.9 miles northeast of Smith.	do.	1030	8.5	457	51.4			+4.6
do.	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.11 N., R.24 E., 4.3 miles northeast of Smith.	do.	1220	10.5	449	50.4			-1.0
do.	Gaging station near Hudson, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.11 N., R.25 E., at Wilson Canyon.	do.	1345	12.5	445	49.4			-1.0
do.	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.17, T.11 N., R.25 E., 1.3 miles downstream from Hudson gaging station, and 0.6 mile above mouth of Wilson Canyon.	do.	1545	14.0	440	50.6			+1.2

PART 2. WATER QUALITY RECORDS

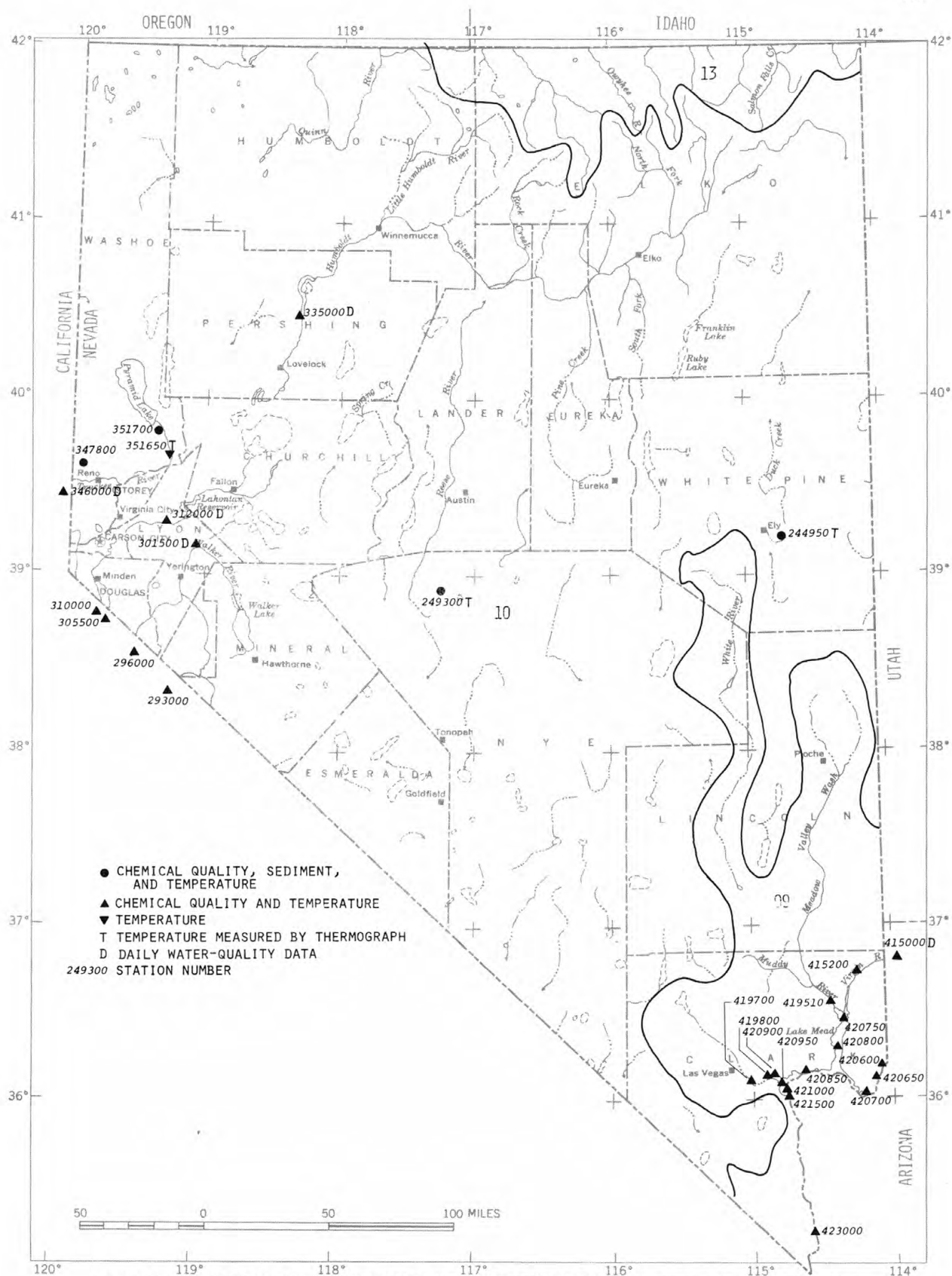


FIGURE 5 - MAP OF NEVADA SHOWING SAMPLING SITES WHERE WATER QUALITY DATA WERE OBTAINED DURING WATER YEAR 1973.

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, ARIZ.
(Irrigation network station)

LOCATION.--Lat 36°53', long 113°56', in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, at gaging station 0.4 mile (0.6 km) downstream from Beaver Dam Wash, 0.4 mile (0.6 km) upstream from Littlefield, and 36 miles (58 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372 m) above mean sea level.

DRAINAGE AREA.--5,090 sq mi (13,200 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1949 to September 1973.

Water temperatures: October 1947 to September 1973.

Sediment records: October 1947 to September 1968.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded daily, 3,710 micromhos Oct. 3; minimum daily, 685 micromhos May 12.

Water temperature: Maximum recorded daily, 30.0°C on 5 days in August; minimum daily, 4.0°C Jan. 5.

Period of record:

Specific conductance (1949-73): Maximum daily, 4,650 micromhos Aug. 21, 1966; minimum daily, 685 micromhos May 12, 1973.

Water temperature: Maximum, 33.5°C July 7, 1953; minimum, 2°C Jan. 4, 1949, Jan. 4, 1950, Jan. 4, 5, 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT.											
16...	1200	500	18.0	13	300	49	140	16	219	0	820
NOV.											
16...	1245	400	12.0	16	210	58	190	15	301	0	580
DEC.											
18...	1300	194	11.0	20	280	80	250	24	335	0	750
JAN.											
30...	1015	172	7.0	19	260	75	260	22	355	0	710
FEB.											
28...	1310	350	5.5	15	200	58	180	17	304	0	590
APR.											
04...	1200	344	15.0	17	230	66	170	16	308	0	680
30...	1200	1500	13.5	13	99	21	38	5.8	236	0	210
MAY											
11-13	--	2890	--	11	79	19	34	5.3	147	0	170
14-15	--	2600	--	12	430	26	44	7.1	103	0	1100
16-18	--	1840	--	12	120	18	34	4.8	128	0	270
JUNE											
19...	0930	263	18.0	20	170	47	140	13	273	0	440
AUG.											
01...	0920	62	22.5	21	350	110	250	19	300	0	1100
SEP.											
28...	0900	69	18.0	21	370	110	270	29	284	0	1100

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT.									
16...	200	.5	440	1650	2230	950	2.0	2300	7.6
NOV.									
16...	260	.6	540	1480	1600	760	3.0	2200	7.5
DEC.									
18...	340	.8	770	1910	1000	1000	3.4	2680	7.7
JAN.									
30...	320	.7	710	1850	859	960	3.7	2650	7.8
FEB.									
28...	240	.7	520	1450	1370	740	2.9	2050	7.2
APR.									
04...	220	.4	570	1560	1450	850	2.5	2110	7.6
30...	45	.2	190	550	2230	330	.9	803	8.2
MAY									
11-13	45	--	--	436	3400	280	.9	697	8.3
14-15	44	--	--	1710	12000	1200	.6	1970	7.9
16-18	43	--	--	565	2810	370	.8	846	8.2
JUNE									
19...	190	.7	360	1160	824	620	2.5	1750	7.7
AUG.									
01...	360	1.1	1100	2360	398	1300	3.0	3100	7.0
SEP.									
28...	380	1.0	1000	2420	456	1400	3.2	3250	7.3

VIRGIN RIVER BASIN

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09415000 VIRGIN RIVER AT LITTLEFIELD, ARIZ.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3600	2750	2750	2800	2600	1400	2000	830	1030	2730	3400	3400
2	3500	2400	2750	2400	2650	1850	2150	900	1060	3020	3400	3400
3	3710	2450	2850	2800	2700	2000	2150	895	1080	2990	3400	3330
4	3490	3000	2900	2710	2520	2020	2200	735	1100	3100	3400	3400
5	2600	2400	2520	2800	2600	1960	2000	755	1340	3350	---	3120
6	3000	2900	2380	3150	2500	2140	2000	825	1340	3330	3500	3380
7	3200	2900	2800	3000	2300	1490	1750	790	1340	3370	3430	3350
8	1720	2850	2800	2950	1800	1910	1710	730	1550	---	3500	3400
9	2550	2900	2700	2900	2120	2150	1730	710	1550	3440	3500	3400
10	2500	2950	2750	2600	2300	2310	1720	730	1550	3390	3500	3400
11	2830	2850	2880	2580	2400	---	1200	770	1650	3410	3220	3400
12	3050	2700	2810	2680	1680	1460	1200	685	1650	3590	3490	3500
13	3000	2350	2850	2710	1980	1340	920	715	1670	---	3420	3300
14	3000	2500	2850	2700	2250	1630	915	1970	1730	3490	3300	3490
15	2950	2650	2800	2650	2550	2150	1220	2000	1500	3310	3400	3490
16	2150	2130	2780	2700	2550	2150	1210	900	1550	3350	3500	3450
17	2480	1750	2800	2350	2520	2070	1020	920	1670	3370	3400	3100
18	2750	1800	2700	2070	2520	2080	1010	830	1780	3420	3700	3400
19	2400	2400	2700	2400	2600	1920	1320	690	1980	3370	3700	3500
20	1400	2340	2700	2450	2600	1960	1320	690	1950	3480	3500	3450
21	2100	2490	2700	2620	2600	1750	1490	800	---	3470	3400	3400
22	2350	2700	2680	2850	2500	1760	1510	805	2100	3410	3230	3400
23	2570	2710	2720	2800	2550	1650	1550	835	2050	3400	3500	3400
24	2690	2710	2710	2710	2450	1650	1360	850	2500	3450	3500	3400
25	2750	2720	2750	2720	2500	1600	1010	860	2470	3470	3520	3400
26	2750	2680	2780	2680	2400	1600	965	890	2620	3460	3500	3400
27	2700	2650	2750	2600	2240	1690	900	895	2700	3470	3500	3450
28	2800	2600	2780	2700	1820	1510	900	985	3020	3470	3510	3350
29	2700	2700	2620	2700	---	1510	840	1010	2970	---	3520	3410
30	2550	2720	2620	2650	---	1760	785	1020	2750	3460	3130	3440
31	2700	---	2850	2650	---	1780	---	1020	---	3430	3100	---
MONTH	2740	2640	2740	2700	2390	1820	1400	905	1840	3360	3440	3390
YEAR	MAX	3710	MIN	685	MEAN	2440						

* TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	12.0	11.0	7.0	11.0	13.0	11.0	13.0	20.0	25.0	21.0	16.0
2	24.0	14.0	11.0	7.0	11.0	13.0	12.0	15.0	21.0	27.0	21.0	21.0
3	18.0	15.0	11.0	6.0	11.0	13.0	13.0	18.0	19.0	28.0	23.0	27.0
4	19.0	17.0	11.0	6.0	13.0	12.0	13.0	15.0	21.0	28.0	23.0	26.0
5	19.0	16.0	10.0	4.0	11.0	15.0	13.0	12.0	19.0	26.0	---	22.0
6	18.0	15.0	9.0	7.0	11.0	12.0	14.0	15.0	19.0	27.0	21.0	22.0
7	21.0	13.0	9.0	5.0	12.0	14.0	14.0	18.0	19.0	26.0	29.0	22.0
8	23.0	15.0	8.0	6.0	12.0	11.0	14.0	19.0	21.0	---	30.0	26.0
9	18.0	14.0	7.0	7.0	12.0	14.0	16.0	19.0	20.0	29.0	25.0	26.0
10	18.0	13.0	4.0	8.0	12.0	12.0	17.0	18.0	22.0	29.0	28.0	23.0
11	20.0	12.0	6.0	7.0	12.0	---	14.0	18.0	22.0	29.0	28.0	17.0
12	21.0	12.0	7.0	9.0	12.0	11.0	14.0	19.0	22.0	27.0	28.0	24.0
13	22.0	11.0	7.0	10.0	11.0	12.0	14.0	19.0	22.0	---	30.0	23.0
14	19.0	13.0	5.0	11.0	12.0	7.0	14.0	20.0	22.0	27.0	30.0	25.0
15	20.0	13.0	6.0	9.0	12.0	9.0	15.0	21.0	21.0	29.0	29.0	24.0
16	19.0	11.0	7.0	9.0	12.0	9.0	15.0	19.0	21.0	28.0	30.0	26.0
17	17.0	10.0	8.0	11.0	13.0	12.0	14.0	20.0	22.0	29.0	30.0	26.0
18	17.0	11.0	10.0	10.0	12.0	12.0	12.0	20.0	22.0	21.0	28.0	25.0
19	18.0	10.0	10.0	9.0	12.0	12.0	8.0	19.0	23.0	21.0	26.0	24.0
20	14.0	10.0	11.0	7.0	12.0	11.0	8.0	19.0	23.0	25.0	27.0	24.0
21	15.0	10.0	11.0	8.0	11.0	10.0	16.0	20.0	---	25.0	25.0	24.0
22	17.0	11.0	10.0	6.0	13.0	9.0	14.0	20.0	25.0	19.0	26.0	18.0
23	19.0	11.0	11.0	10.0	15.0	13.0	14.0	20.0	25.0	19.0	25.0	16.0
24	15.0	11.0	11.0	10.0	14.0	15.0	12.0	20.0	19.0	28.0	20.0	22.0
25	17.0	11.0	12.0	10.0	12.0	12.0	18.0	19.0	19.0	28.0	23.0	17.0
26	16.0	11.0	10.0	10.0	16.0	11.0	18.0	20.0	30.0	29.0	23.0	24.0
27	15.0	11.0	11.0	11.0	15.0	10.0	18.0	20.0	30.0	29.0	19.0	24.0
28	16.0	11.0	11.0	11.0	12.0	11.0	18.0	20.0	25.0	28.0	26.0	25.0
29	13.0	11.0	9.0	10.0	---	12.0	18.0	12.0	25.0	---	25.0	16.0
30	11.0	11.0	9.0	11.0	---	10.0	11.0	21.0	25.0	28.0	26.0	21.0
31	11.0	---	7.0	11.0	---	10.0	---	20.0	---	21.0	26.0	---
MONTH	17.5	12.0	9.0	8.5	12.5	11.5	14.0	18.5	22.0	26.0	25.5	22.5
YEAR	MAX	30.0	MIN	4.0	MEAN	16.5						

VIRGIN RIVER BASIN

09415200 VIRGIN RIVER NEAR RIVERSIDE, NEV.

LOCATION.--Lat 36°41'13", long 114°16'20", in NW¼SW¼ sec.27, T.14 S., R.69 E., Clark County, 4.6 miles (7.4 km) downstream from Riverside bridge, 14 miles (22 km) southwest of Mesquite, and about 10 miles (16 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.3 m) above mean sea level.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973 (data for period January 1964 to September 1968 are available from U.S. Environmental Protection Agency).

EXTREMES.--Period of record (1968-73):

Specific conductance: Maximum, 6,790 micromhos July 11, 1972; minimum, 950 micromhos May 5, 1973.

Water temperature: Maximum, 35°C Aug. 20, 1969; minimum, 1.0°C Dec. 18, 1968, and Jan. 6, 1970.

REMARKS.--Nutrient data furnished by U.S. Environmental Protection Agency, San Francisco, Calif.

WATER QUALITY DATA. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED CHLORIDE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
NOV. 09...	1315	70E	15.5	280	93	280	24	263	0
JAN. 25...	1020	180E	6.0	270	94	270	22	313	0
MAY 05...	1050	1800	13.5	100	29	71	7.4	218	0
JULY 08...	0909	31	26.5	370	150	410	35	194	0

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED RESIDUE AT 180 C (MG/L)	DIS- SOLVED SOLIDS PER DAY (TONS)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
NOV. 09...	910	390	2260	430E	1100	3.7	2980	8.2	8.4	.52	.02
JAN. 25...	850	380	2150	1500E	1100	3.6	2900	8.8	11.8	.57	.12
MAY 05...	230	75	628	3050	370	1.6	950	8.2	8.6	.34	.03
JULY 08...	1600	540	3350	280	1500	4.5	3890	8.2	7.6	.14	.09

E: ESTIMATED.

09419510 MUDDY RIVER BELOW OVERTON, NEV.

LOCATION.--Lat 36°29'31", long 114°23'32", in SW¼SE¼ sec.33, T.16 S., R.68 E., Clark County, 4 miles (6 km) southeast of Overton, and about 3.8 miles (6.1 km) downstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.3 m) above mean sea level.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

EXTREMES.--Period of record:

Specific conductance: Maximum, 4,050 micromhos Apr. 26, 1972; minimum, 2,070 micromhos Oct. 21, 1970.

Water temperature: Maximum, 28.0°C July 1, 1971, minimum, 7.0°C Jan. 6, 1970, Jan. 12, 1971.

REMARKS.--Discharge includes all return flow from Overton State Wildlife Management Area. Nutrient data furnished by U.S. Environmental Protection Agency, San Francisco, Calif.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
NOV. 09...	1115	5 E	13.0	160	91	290	25	372	0
FEB. 22...	1230	7 E	13.5	180	120	360	27	407	0
MAY 05...	0915	2.5E	16.5	210	120	390	34	427	0
JULY 11...	0730	5.6	24.0	230	140	420	35	464	0

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
NOV. 09...	790	200	1890	26E	770	4.5	2480	8.2	9.0	.28	.05
FEB. 22...	1000	260	2480	47E	940	5.1	2980	8.6	9.8	.37	.10
MAY 05...	1100	270	2360	16E	1000	5.3	3080	8.2	8.4	.40	.10
JULY 11...	1400	290	2930	44	1200	5.4	3350	8.3	7.1	.28	.14

E: ESTIMATED.

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NEV.

LOCATION.--Lat 36°05'20", long 114°59'05", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.21 S., R.63 E., Clark County, at gaging station 3.5 miles (5.6 km) north of Henderson, and 6.0 miles (9.6 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.3 m) above mean sea level.

DRAINAGE AREA.--2,125 sq mi (5,504 sq km), of which 1,518 sq mi (3,932 sq km) contribute directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973 (data for period January 1964 to September 1968 are available from U.S. Environmental Protection Agency).

EXTREMES.--1972-73:

Specific conductance: Maximum 3,400 micromhos Oct. 1; minimum, 2,620 micromhos Sept. 27.
Water temperature: Maximum 23.5°C Aug. 15; minimum, 5.5°C Jan. 24.

Period of record (1968-73):

Specific conductance: Maximum, 5,330 micromhos June 25, 1969; minimum, 2,180 micromhos Feb. 2, 1971.
Water temperature (October 1968-August 1969, July 1970-September 1973): Maximum, 25.0°C July 23, 1971; minimum, 2.0°C Jan. 31, 1972.

REMARKS.--Discharge includes sewage effluent and perhaps some waste water from industrial plants.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT.									
01...	0740	57	15.0	--	230	110	390	27	294
31...	0845	60	9.5	38	220	99	390	30	243
NOV.									
29...	1000	65	7.0	--	--	--	--	--	--
DEC.									
20...	1215	66	7.0	--	--	--	--	--	--
JAN.									
24...	1515	56	5.5	34	200	96	390	25	237
FEB.									
16...	0810	100	9.5	--	--	--	--	--	--
MAR.									
31...	1115	54	11.0	--	--	--	--	--	--
APR.									
27...	1705	32	20.5	36	200	94	360	25	293
MAY									
23...	1335	36	20.5	--	--	--	--	--	--
JUNE									
25...	0640	41	19.5	--	--	--	--	--	--
JULY									
31...	0650	57	23.0	40	180	85	350	27	320
AUG.									
15...	1125	55	23.5	--	--	--	--	--	--
SEP.									
27...	0955	56	15.0	--	--	--	--	--	--

LAS VEGAS VALLEY

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09419700 LAS VEGAS WASH NEAR HENDERSON, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT.							
01...	0	1000	440	--	--	--	--
31...	0	900	460	8.7	.51	.09	1.8
NOV.							
29...	--	--	--	8.8	.69	--	--
DEC.							
20...	--	--	--	8.3	.85	--	--
JAN.							
24...	0	940	470	5.7	.89	4.8	.60
FEB.							
16...	--	--	--	4.7	1.2	--	--
MAR.							
31...	--	--	--	3.9	.72	--	--
APR.							
27...	0	870	450	3.3	.89	--	--
MAY							
23...	--	--	--	2.5	.62	--	--
JUNE							
25...	--	--	--	1.6	.29	8.3	--
JULY							
31...	0	790	400	5.4	.24	9.1	.27
AUG.							
15...	--	--	--	2.1	.23	--	--
SEP.							
27...	--	--	--	4.5	.18	--	--

DATE	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SOWP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.										
01...	--	--	2640	--	408	1000	5.3	3400	7.8	6.2
31...	--	6.1	--	2340	380	960	5.5	3160	7.8	6.0
NOV.										
29...	8.6	--	--	--	--	--	--	2690	--	--
DEC.										
20...	8.8	--	--	--	--	--	--	3100	--	--
JAN.										
24...	6.5	7.4	--	2330	352	890	5.7	3210	7.7	2.4
FEB.										
16...	7.2	--	--	--	--	--	--	2630	--	--
MAR.										
31...	7.3	--	--	--	--	--	--	2690	--	--
APR.										
27...	8.0	--	--	2230	193	890	5.6	3170	7.5	--
MAY										
23...	8.4	--	--	--	--	--	--	2830	--	--
JUNE										
25...	8.3	--	--	--	--	--	--	3210	--	--
JULY										
31...	7.8	7.8	--	2050	317	800	5.4	2920	7.6	1.1
AUG.										
15...	7.4	--	--	--	--	--	--	2910	--	--
SEP.										
27...	7.2	--	--	--	--	--	--	2620	--	--

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NEV.

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, at gaging station 11 miles (18 km) northwest of Boulder City, and about 0.8 mile (1.3 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.3 m) above mean sea level.

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

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973 (data for period January 1964 to September 1968 are available from U.S. Environmental Protection Agency).

EXTREMES.--1972-73:

Specific conductance: Maximum, 5,130 micromhos Oct. 1; minimum, 4,310 micromhos Feb. 16.

Water temperature: Maximum, 23.0°C Aug. 15; minimum, 7.0°C Jan. 27.

Period of record (1968-73):

Specific conductance: Maximum, 6,850 micromhos June 25, 1969; minimum, 4,310 micromhos Feb. 16, 1973.

Water temperature: Maximum, 26.0°C July 23, 1969, and June 3, 1970; minimum, 3.0°C Jan. 7, 1970.

REMARKS.--Discharge includes sewage effluent and waste water from industrial plants.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.									
01...	0940	54	15.5	--	400	160	490	51	273
31...	1120	60	9.5	45	390	160	520	47	251
NOV.									
29...	1200	71	7.5	--	--	--	--	--	--
DEC.									
20...	1300	76	7.5	--	--	--	--	--	--
JAN.									
27...	1400	67	7.0	39	340	150	500	43	216
FEB.									
16...	1205	46	10.0	--	--	--	--	--	--
MAR.									
31...	0855	57	10.5	--	--	--	--	--	--
APR.									
26...	1000	58	15.5	43	390	160	540	47	270
MAY									
23...	1430	61	20.5	--	--	--	--	--	--
JUNE									
25...	0715	37	19.5	--	--	--	--	--	--
JULY									
31...	0750	42	22.5	51	390	160	570	50	253
AUG.									
15...	0930	55	23.0	--	--	--	--	--	--
SEP.									
27...	1045	53	15.5	--	--	--	--	--	--

LAS VEGAS VALLEY

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09419800 LAS VEGAS WASH NEAR BOULDER CITY, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT.							
01...	0	1400	860	--	--	--	--
31...	0	1300	820	9.3	.02	.09	.41
NOV.							
29...	--	--	--	11	.06	--	--
DEC.							
20...	--	--	--	11	.05	--	--
JAN.							
27...	0	1300	770	9.4	.05	.31	.43
FEB.							
16...	--	--	--	10	.08	--	--
MAR.							
31...	--	--	--	7.5	.00	--	--
APR.							
26...	0	1300	860	6.8	.02	.18	.92
MAY							
23...	--	--	--	8.3	.03	--	--
JUNE							
25...	--	--	--	9.3	.01	.04	--
JULY							
31...	0	1400	910	8.9	.00	.04	.63
AUG.							
15...	--	--	--	8.0	.00	--	--
SEP.							
27...	--	--	--	8.2	.00	--	--

DATE	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.										
01...	--	--	3900	--	571	1800	5.2	5130	8.0	8.8
31...	--	4.2	--	3490	567	1600	5.6	4780	8.2	8.7
NOV.										
29...	4.6	--	--	--	--	--	--	4680	--	--
DEC.										
20...	5.8	--	--	--	--	--	--	4560	--	--
JAN.										
27...	5.3	5.3	--	3330	603	1500	5.7	4510	8.0	--
FEB.										
16...	5.7	--	--	--	--	--	--	4310	--	--
MAR.										
31...	4.9	--	--	--	--	--	--	4520	--	--
APR.										
26...	5.0	5.2	--	3530	553	1600	5.8	4770	8.1	9.3
MAY										
23...	4.8	--	--	--	--	--	--	4560	--	--
JUNE										
25...	4.3	--	--	--	--	--	--	5050	--	--
JULY										
31...	3.8	4.0	--	3700	421	1600	6.1	5040	8.2	6.8
AUG.										
15...	1.7	--	--	--	--	--	--	4660	--	--
SEP.										
27...	3.6	--	--	--	--	--	--	4340	--	--

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NEV.--Continued

WATER QUALITY DATA* WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	AIR TEMP- ERATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
JAN.							
27...	0010	5.5	7.0	80	4290	8.0	9.9
27...	0110	5.0	6.5	80	4270	8.1	10.5
27...	0210	4.5	6.5	79	4320	8.2	10.9
27...	0310	4.5	6.0	78	4320	8.1	11.0
27...	0410	4.0	6.0	75	4340	7.8	11.2
27...	0510	3.5	6.0	73	4340	8.0	11.3
27...	0610	4.0	5.5	72	4340	8.0	10.9
27...	0700	4.0	5.5	71	4390	8.0	11.4
27...	0800	4.5	5.5	71	4430	8.0	11.3
27...	0900	10.0	6.0	68	4410	8.1	10.8
27...	0955	12.0	6.0	67	4440	8.1	11.6
27...	1055	15.0	6.5	66	4480	8.2	11.5
27...	1200	14.0	6.5	66	4500	7.9	9.8
27...	1300	18.5	7.0	66	4540	8.0	11.5
27...	1400	18.5	7.0	67	4540	8.0	11.4
27...	1500	18.5	7.5	67	4540	8.1	11.1
27...	1600	15.5	7.5	67	4580	8.0	9.6
27...	1700	10.5	7.5	67	4600	8.0	10.8
27...	1755	7.0	7.5	68	4580	8.1	11.2
27...	1855	7.5	7.0	68	4520	8.1	11.1
27...	1950	5.5	7.0	68	4580	8.1	10.5
27...	2050	5.5	6.5	69	4540	8.1	11.1
27...	2150	4.5	6.5	69	4500	8.0	11.2
27...	2250	4.0	6.0	69	4480	7.9	11.0
APR.							
25...	1320	29.0	17.0	79	4710	8.2	9.1
25...	1455	29.5	17.5	79	4660	8.2	8.8
25...	1635	28.0	17.5	79	4650	8.1	8.7
25...	1800	22.0	17.5	78	4650	8.1	8.6
25...	1955	13.5	17.0	76	4650	8.1	8.6
25...	2135	12.0	16.5	75	4630	8.1	8.6
25...	2300	17.0	16.0	73	4630	8.0	8.7
26...	0045	9.5	15.5	71	4650	8.1	8.8
26...	0245	12.5	15.0	67	4660	8.1	8.7
26...	0445	11.5	14.5	63	4770	8.1	8.7
26...	0645	16.5	14.5	63	4810	8.1	8.6
26...	0815	24.5	15.0	63	4810	8.1	9.2
26...	1000	29.0	15.5	66	4810	8.1	9.3
26...	1100	30.0	16.0	67	4770	8.2	9.2
26...	1250	31.0	17.0	67	4750	8.2	8.8
AUG.							
14...	1030	38.5	22.5	51	4770	8.2	8.0
14...	1130	38.5	23.0	52	4810	8.2	7.9
14...	1230	40.0	23.5	53	4810	8.2	7.8
14...	1330	41.0	24.0	53	4830	8.2	7.9
14...	1430	41.5	24.0	55	4860	8.2	7.5
14...	1530	35.0	24.0	55	4810	8.2	7.7
14...	1630	38.0	24.0	57	4770	8.2	7.8
14...	1730	41.5	23.5	58	4740	8.2	7.9
14...	1900	29.5	23.5	58	4700	8.2	7.3
14...	2000	26.0	23.5	59	4640	8.1	7.7
14...	2100	34.0	23.0	59	4640	8.0	7.6
14...	2200	32.0	22.5	60	4590	8.2	7.5
14...	2345	25.0	23.5	60	4470	8.1	7.6
15...	0145	24.5	23.0	60	4470	8.2	7.6
15...	0340	26.0	23.0	59	4470	8.2	7.6
15...	0515	24.5	23.0	58	4550	8.2	7.9
15...	0630	24.5	23.0	56	4570	8.2	7.6
15...	0730	26.0	23.0	55	4590	8.2	7.8
15...	0830	31.0	22.5	54	4640	8.2	7.2
15...	0940	34.5	23.0	55	4680	8.2	7.8

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NEV.

LOCATION.--Lat 36°06'30", long 114°49'10", (unsurveyed), Clark County, 2.8 miles (4.5 km) east-southeast of Las Vegas Beach, and 10 miles (16 km) northeast of Henderson.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Samples collected and field data furnished by U.S. Bureau of Reclamation, Boulder City, Nev.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FEET)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
DEC.													
06...	0940	10	16.0	9.0	84	31	110	5.3	149	0	320	100	.31
06...	1100	190	16.0	9.0	85	32	120	5.2	153	0	310	97	--
FEB.													
26...	--	0	13.5	--	--	--	--	--	--	--	--	--	--
26...	1030	10	13.5	9.4	87	32	110	5.0	162	0	330	100	.45
26...	--	200	12.0	--	--	--	--	--	--	--	--	--	--
MAY													
29...	1400	10	24.5	8.1	87	30	100	4.8	157	0	320	90	.23
29...	1420	215	13.5	10	91	32	110	5.0	165	0	320	95	--
AUG.													
28...	1035	10	27.5	8.9	82	31	110	5.2	--	--	--	97	.02
28...	1100	200	13.0	9.8	86	29	110	4.6	166	0	320	88	--

DATE	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
DEC.											
06...	.00	.01	.28	.02	.03	735	340	2.6	1130	8.3	8.1
06...	--	--	--	--	--	733	340	2.8	1140	8.3	8.0
FEB.											
26...	--	--	--	--	--	--	--	--	1100	8.5	10.2
26...	.00	.05	.41	.02	.07	757	350	2.6	1170	8.4	10.6
26...	--	--	--	--	--	--	--	--	1130	8.3	8.6
MAY											
29...	.01	.01	.32	.01	.02	719	340	2.4	1110	8.0	8.6
29...	--	--	--	--	--	744	360	2.5	1170	8.1	7.4
AUG.											
28...	.00	.02	.33	.02	.03	747	330	2.6	1140	--	7.8
28...	--	--	--	--	--	729	330	2.6	1120	--	5.8

LOCATION.--Lat 36°03'45", long 114°47'40", in NE¼ sec.11, T.22 S., R.64 E., Clark County, directly offshore from Southern Nevada Water Project intake structure on Saddle Island, and 7 miles (11 km) north-northeast of Boulder City.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Samples collected and field data furnished by U.S. Bureau of Reclamation, Boulder City, Nev.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FEET)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
FEB.													
26...	1321	10	13.5	9.0	86	31	110	4.8	161	0	310	91	.47
26...	--	110	12.0	--	--	--	--	--	--	--	--	--	--
26...	--	196	12.0	--	--	--	--	--	--	--	--	--	--
MAY													
29...	1315	10	24.5	8.3	89	31	100	4.6	160	0	320	88	.32
29...	1335	240	12.0	9.6	86	30	100	4.5	161	0	310	86	--
29...	--	136	13.5	--	--	--	--	--	--	--	--	--	--
AUG.													
28...	1245	10	27.5	8.4	77	30	110	4.8	122	4	340	90	.00
28...	--	132	11.0	--	--	--	--	--	--	--	--	--	--
28...	1315	230	13.0	9.5	86	29	100	4.5	166	0	320	85	--

DATE	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
FEB.											
26...	.01	.05	.24	.01	.06	725	340	2.6	1120	--	--
26...	--	--	--	--	--	--	--	--	1100	7.5	10.3
26...	--	--	--	--	--	--	--	--	1100	8.3	8.1
MAY											
29...	.00	.01	.24	.01	.12	723	350	2.3	1110	8.1	8.8
29...	--	--	--	--	--	705	340	2.4	1100	7.7	7.7
29...	--	--	--	--	--	--	--	--	1100	8.4	8.5
AUG.											
28...	.01	.01	.32	.00	.00	724	320	2.7	1090	--	8.3
28...	--	--	--	--	--	--	--	--	1120	--	6.5
28...	--	--	--	--	--	716	330	2.4	1070	--	6.8

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.

LOCATION.--Lat 36°00'58", long 114°44'13", in NE4SW4 sec.3, T.30 N., R.23 W., Gila and Salt River meridian, on State line between Mohave County, Ariz., and Clark County, Nev., at gaging station midway between Hoover Dam intake towers.

DRAINAGE AREA.--167,800 sq mi (434,600 sq km), approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT.								
04...	.0	24.5	--	--	--	--	--	127
04...	10	24.5	7.4	79	32	110	5.0	127
04...	25	24.5	--	--	--	--	--	127
04...	75	21.5	7.4	83	31	110	4.0	150
04...	125	16.5	--	--	--	--	--	159
04...	175	13.5	--	--	--	--	--	160
04...	225	12.0	7.6	87	30	100	4.0	161
04...	250	12.0	7.8	87	30	100	4.0	161
04...	275	12.0	8.0	86	30	100	4.0	161
04...	325	11.5	--	--	--	--	--	161
04...	375	11.5	8.0	86	30	100	4.0	161
04...	435	11.5	--	--	--	--	--	162
30...	.0	20.5	7.4	82	31	110	5.0	142
30...	10	20.5	--	--	--	--	--	140
30...	25	20.5	--	--	--	--	--	140
30...	75	20.5	--	--	--	--	--	140
30...	125	19.5	7.4	83	31	100	5.0	146
30...	175	13.5	7.6	88	31	110	5.0	160
30...	225	12.0	7.6	87	30	100	5.0	160
30...	255	11.5	7.6	87	30	100	5.0	161
30...	275	11.5	--	--	--	--	--	161
30...	325	11.5	--	--	--	--	--	161
30...	375	11.5	8.2	87	30	100	5.0	162
30...	435	11.5	--	--	--	--	--	162
DEC.								
05...	.0	16.0	8.7	84	32	110	5.0	149
05...	10	16.5	--	--	--	--	--	--
05...	25	16.5	--	--	--	--	--	--
05...	75	16.5	--	--	--	--	--	--
05...	125	16.5	9.5	84	32	110	4.0	148
05...	175	14.5	9.2	88	32	110	4.0	161
05...	225	13.0	8.7	86	32	100	4.0	161
05...	260	12.0	9.0	86	30	100	5.0	162
05...	275	12.0	9.1	--	--	--	--	--
05...	325	11.5	--	--	--	--	--	--
05...	375	11.5	8.0	85	32	110	5.0	149
05...	425	11.5	10	86	31	100	5.0	165
05...	440	11.5	--	--	--	--	--	--
29...	.0	13.5	9.0	86	31	100	4.0	150
29...	10	13.5	--	--	--	--	--	150
29...	25	13.5	--	--	--	--	--	150
29...	75	13.5	--	--	--	--	--	150
29...	125	13.5	--	--	--	--	--	150
29...	175	13.5	8.6	87	30	100	4.0	151
29...	225	12.5	8.8	87	30	100	4.0	159
29...	260	12.0	8.6	87	28	97	4.0	163
29...	275	11.5	8.6	87	28	97	4.0	163
29...	325	11.5	--	--	--	--	--	163
29...	375	11.5	--	--	--	--	--	163
29...	425	11.0	9.6	87	29	97	4.0	163
29...	440	11.0	--	--	--	--	--	167
JAN.								
29...	.0	12.0	8.9	86	30	100	5.0	150
29...	10	12.0	--	--	--	--	--	151
29...	25	12.0	--	--	--	--	--	151
29...	75	12.0	--	--	--	--	--	154
29...	125	12.0	--	--	--	--	--	153
29...	175	11.5	8.5	85	31	100	5.0	153
29...	225	11.5	8.9	85	31	100	5.0	149
29...	260	11.5	--	--	--	--	--	153
29...	275	11.5	8.9	85	30	100	5.0	154
29...	325	11.5	9.5	86	30	96	5.0	160
29...	375	11.0	--	--	--	--	--	160
29...	425	11.0	9.7	87	30	100	5.0	159
29...	445	11.0	--	--	--	--	--	162

COLORADO RIVER MAIN STEM

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09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1940 to September 1973.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.									
04...	0	--	97	--	--	--	1140	7.2	8.2
04...	0	320	100	716	330	2.6	1140	7.8	7.9
04...	0	--	98	--	--	--	1130	8.2	7.9
04...	0	300	93	704	340	2.6	1110	8.1	2.1
04...	0	--	92	--	--	--	1140	7.8	2.7
04...	0	--	92	--	--	--	1130	7.8	6.1
04...	0	300	89	699	340	2.4	1100	7.7	6.2
04...	0	300	89	699	340	2.4	1100	7.7	6.4
04...	0	290	89	688	340	2.4	1090	7.7	6.7
04...	0	--	88	--	--	--	1090	7.8	6.8
04...	0	290	89	688	340	2.4	1090	7.8	6.2
04...	0	--	88	--	--	--	1090	7.8	5.0
30...	0	320	94	720	330	2.6	1120	7.4	6.3
30...	0	--	94	--	--	--	1120	7.7	6.2
30...	0	--	94	--	--	--	1120	8.1	6.2
30...	0	--	94	--	--	--	1120	8.1	6.2
30...	0	310	93	702	340	2.4	1120	8.1	3.2
30...	0	310	94	726	350	2.6	1130	8.1	3.2
30...	0	300	86	696	340	2.4	1100	8.0	6.4
30...	0	300	86	697	340	2.4	1100	8.0	6.4
30...	0	--	86	--	--	--	1100	8.0	6.4
30...	0	--	86	--	--	--	1100	8.0	6.4
30...	0	300	87	698	340	2.4	1100	7.9	5.6
30...	0	--	87	--	--	--	1100	--	4.0
DEC.									
05...	0	310	92	716	340	2.6	1140	7.5	6.9
05...	--	--	92	--	--	--	1140	7.8	6.6
05...	--	--	94	--	--	--	1140	7.9	6.6
05...	--	--	94	--	--	--	1140	7.9	6.6
05...	0	320	94	728	340	2.6	1140	8.0	6.5
05...	0	310	91	725	350	2.6	1110	8.0	3.4
05...	0	300	87	699	350	2.3	1100	7.9	5.4
05...	0	290	86	688	340	2.4	1080	7.9	6.2
05...	--	--	86	--	--	--	1080	8.0	6.3
05...	--	--	93	--	--	--	1140	8.1	6.6
05...	0	320	94	729	340	2.6	1140	8.2	6.6
05...	0	290	86	691	340	2.4	1100	8.0	3.4
05...	--	--	87	--	--	--	1100	7.8	2.8
29...	0	300	92	697	340	2.4	1140	--	8.4
29...	0	--	93	--	--	--	1140	--	8.4
29...	0	--	93	--	--	--	1140	--	8.4
29...	0	--	93	--	--	--	1140	--	8.1
29...	0	--	93	--	--	--	1140	--	8.1
29...	0	300	93	698	340	2.4	1140	--	8.1
29...	0	300	91	701	340	2.4	1110	--	6.6
29...	0	290	84	680	330	2.3	1080	--	5.8
29...	0	280	84	671	330	2.3	1080	--	6.0
29...	0	--	85	--	--	--	1080	--	6.0
29...	0	--	85	--	--	--	1100	--	6.4
29...	1	280	86	675	340	2.3	1100	--	4.3
29...	0	--	87	--	--	--	1100	--	3.8
JAN.									
29...	0	300	90	695	340	2.4	1110	--	8.6
29...	0	--	89	--	--	--	1110	--	7.8
29...	0	--	89	--	--	--	1120	--	7.8
29...	0	--	89	--	--	--	1120	--	7.8
29...	0	--	88	--	--	--	1120	--	7.8
29...	0	300	88	694	340	2.4	1120	--	7.8
29...	1	300	90	696	340	2.4	1110	--	7.8
29...	0	--	88	--	--	--	1120	--	7.8
29...	0	300	88	694	340	2.4	1120	--	7.1
29...	0	290	85	682	340	2.3	1090	--	5.1
29...	0	--	85	--	--	--	1090	--	4.7
29...	1	290	86	689	340	2.4	1090	--	4.2
29...	0	--	85	--	--	--	1090	--	3.7

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
FEB.								
27...	.0	13.5	8.0	86	31	100	4.0	155
27...	10	13.0	--	--	--	--	--	155
27...	25	12.0	--	--	--	--	--	155
27...	75	12.0	8.9	--	--	--	--	155
27...	125	12.0	--	--	--	--	--	155
27...	175	11.5	--	--	--	--	--	155
27...	225	11.5	8.0	86	31	100	4.0	155
27...	264	11.5	8.0	86	31	100	4.0	155
27...	275	11.5	8.0	86	31	100	4.0	155
27...	325	11.5	--	--	--	--	--	156
27...	375	11.0	8.0	85	30	100	4.0	156
27...	425	11.0	--	--	--	--	--	157
27...	440	11.0	--	--	--	--	--	157
MAR.								
29...	.0	13.0	8.2	86	30	100	5.0	154
29...	10	13.0	--	--	--	--	--	155
29...	25	13.0	--	--	--	--	--	155
29...	75	13.0	--	--	--	--	--	155
29...	125	12.5	--	--	--	--	--	155
29...	175	12.0	--	--	--	--	--	155
29...	225	12.0	8.4	86	30	100	5.0	155
29...	267	12.0	8.5	86	30	100	5.0	155
29...	275	12.0	--	--	--	--	--	156
29...	325	11.5	8.5	85	29	98	5.0	156
29...	373	11.5	--	--	--	--	--	157
29...	430	11.5	8.7	85	29	97	4.0	157
29...	445	11.0	--	--	--	--	--	157
APR.								
26...	5.0	19.5	9.0	86	30	100	4.0	156
26...	10	19.0	--	--	--	--	--	156
26...	25	17.0	--	--	--	--	--	156
26...	75	13.5	--	--	--	--	--	156
26...	125	13.0	--	--	--	--	--	155
26...	175	12.0	8.7	86	30	100	4.0	155
26...	225	12.0	--	--	--	--	--	155
26...	275	11.5	--	--	--	--	--	157
26...	285	11.5	9.0	85	30	100	4.0	156
26...	325	11.5	9.0	84	30	99	4.0	156
26...	375	11.5	--	--	--	--	--	157
26...	425	11.5	9.4	84	30	99	4.0	157
MAY								
30...	.0	25.5	8.2	88	30	100	4.0	159
30...	10	25.5	--	--	--	--	--	159
30...	25	23.0	--	--	--	--	--	159
30...	75	15.0	--	--	--	--	--	157
30...	125	13.5	9.0	87	30	100	4.0	157
30...	175	13.0	--	--	--	--	--	157
30...	225	12.5	9.4	86	30	100	4.0	157
30...	275	12.0	--	--	--	--	--	157
30...	285	12.0	9.0	86	30	100	4.0	159
30...	325	12.0	--	--	--	--	--	159
30...	375	11.5	--	--	--	--	--	159
30...	425	11.5	9.2	85	29	100	4.0	159
30...	460	11.5	--	--	--	--	--	159
JUNE								
28...	.0	29.0	8.2	82	30	100	4.0	143
28...	10	29.0	--	--	--	--	--	143
28...	25	26.5	--	--	--	--	--	155
28...	75	15.5	--	--	--	--	--	156
28...	125	14.0	--	--	--	--	--	156
28...	175	13.0	8.5	86	30	100	4.0	156
28...	225	13.0	--	--	--	--	--	157
28...	275	12.0	8.9	85	30	100	4.0	159
28...	285	12.0	8.5	85	30	100	4.0	159
28...	325	11.5	--	--	--	--	--	159
28...	375	12.0	--	--	--	--	--	154
28...	425	12.0	9.2	85	29	100	4.0	160

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
FEB.									
27...	0	300	91	698	340	2.4	1100	8.3	9.9
27...	0	--	91	--	--	--	1110	8.3	10.3
27...	0	--	90	--	--	--	1110	8.0	9.2
27...	0	--	90	--	--	--	1110	8.2	8.5
27...	0	--	90	--	--	--	1110	8.1	8.5
27...	0	--	90	--	--	--	1120	8.1	8.5
27...	0	300	90	697	340	2.4	1120	8.0	7.8
27...	0	300	90	697	340	2.4	1130	7.9	8.0
27...	0	300	90	697	340	2.4	1120	7.9	8.0
27...	0	--	89	--	--	--	1100	7.9	7.7
27...	0	300	86	692	340	2.4	1100	7.9	7.9
27...	0	--	85	--	--	--	1080	7.9	7.9
27...	0	--	85	--	--	--	1070	8.0	7.9
MAR.									
29...	0	300	88	694	340	2.4	1100	8.1	9.2
29...	0	--	88	--	--	--	1100	8.1	8.8
29...	0	--	89	--	--	--	1100	8.3	8.4
29...	0	--	89	--	--	--	1100	7.9	8.4
29...	0	--	89	--	--	--	1100	8.2	7.9
29...	0	--	88	--	--	--	1100	8.1	7.7
29...	0	300	89	696	340	2.4	1100	8.0	7.5
29...	0	290	88	686	340	2.4	1100	8.0	7.0
29...	0	--	87	--	--	--	1090	8.0	--
29...	0	290	85	679	330	2.3	1080	8.0	7.3
29...	0	--	85	--	--	--	1070	8.0	7.4
29...	0	290	84	677	330	2.3	1070	8.0	7.4
29...	0	--	84	--	--	--	1070	8.0	7.4
APR.									
26...	0	310	91	708	340	2.4	1110	8.2	9.4
26...	0	--	90	--	--	--	1110	8.3	9.4
26...	0	--	89	--	--	--	1110	8.3	9.4
26...	0	--	88	--	--	--	1110	8.2	9.0
26...	0	--	88	--	--	--	1110	8.2	8.8
26...	0	300	87	693	340	2.4	1110	7.8	8.5
26...	0	--	86	--	--	--	1100	7.8	8.2
26...	0	--	86	--	--	--	1100	7.9	8.4
26...	0	290	84	680	340	2.4	1100	7.9	8.1
26...	0	290	84	678	330	2.4	1090	7.8	8.1
26...	0	--	84	--	--	--	1090	7.7	8.2
26...	0	290	84	679	330	2.4	1090	7.8	7.9
MAY									
30...	0	310	88	708	340	2.3	1110	8.1	8.6
30...	0	--	88	--	--	--	1120	8.4	8.6
30...	0	--	88	--	--	--	1120	8.4	9.2
30...	0	--	88	--	--	--	1100	8.2	8.9
30...	0	300	88	697	340	2.4	1100	8.1	8.2
30...	0	--	87	--	--	--	1100	8.1	8.6
30...	0	300	88	696	340	2.4	1100	8.0	8.4
30...	0	--	86	--	--	--	1100	8.1	8.0
30...	0	290	87	686	340	2.4	1090	7.9	8.1
30...	0	--	85	--	--	--	1080	7.9	8.0
30...	0	--	85	--	--	--	1080	8.0	8.0
30...	0	290	84	681	330	2.4	1080	8.0	8.0
30...	0	--	83	--	--	--	1080	7.9	7.5
JUNE									
28...	0	300	88	683	330	2.4	1100	7.9	8.2
28...	0	--	88	--	--	--	1100	8.2	8.5
28...	0	--	87	--	--	--	1100	8.4	8.7
28...	0	--	88	--	--	--	1100	8.1	7.6
28...	0	--	87	--	--	--	1100	7.9	8.0
28...	0	300	87	694	340	2.4	1100	7.9	8.2
28...	0	--	87	--	--	--	1100	7.9	7.9
28...	0	290	86	684	340	2.4	1090	7.9	7.6
28...	0	290	86	684	340	2.4	1090	7.8	7.7
28...	0	--	85	--	--	--	1090	7.8	7.6
28...	2	--	84	--	--	--	1080	7.9	7.2
28...	0	290	84	682	330	2.4	1080	7.8	7.2

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.--NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
JULY								
31...	.0	27.0	8.5	79	30	100	4.0	122
31...	10	27.0	--	--	--	--	--	133
31...	25	26.5	--	--	--	--	--	134
31...	75	18.5	--	--	--	--	--	159
31...	125	14.0	8.7	86	30	100	4.0	157
31...	175	13.5	--	--	--	--	--	156
31...	225	13.0	8.9	86	30	100	4.0	157
31...	275	12.0	--	--	--	--	--	159
31...	285	12.0	8.9	86	28	100	4.0	159
31...	325	12.0	--	--	--	--	--	159
31...	375	12.0	--	--	--	--	--	160
31...	425	12.0	9.0	86	28	100	4.0	160
31...	460	12.0	--	--	--	--	--	160
AUG.								
29...	.0	28.0	8.0	78	30	100	5.0	124
29...	10	28.0	--	--	--	--	--	128
29...	25	28.0	8.2	78	31	100	5.0	127
29...	75	18.5	8.0	86	30	100	5.0	157
29...	125	14.5	--	--	--	--	--	157
29...	175	13.0	8.5	86	30	99	5.0	157
29...	225	13.0	8.7	85	28	98	4.0	159
29...	275	12.0	--	--	--	--	--	159
29...	285	12.0	8.7	85	29	98	4.0	159
29...	325	12.0	--	--	--	--	--	159
29...	395	12.0	--	--	--	--	--	160
29...	425	12.0	9.3	85	28	98	4.0	159
29...	460	12.0	--	--	--	--	--	160
SEP.								
27...	.0	24.5	7.8	81	30	100	4.0	128
27...	10	24.5	--	--	--	--	--	129
27...	25	24.5	--	--	--	--	--	129
27...	75	19.0	8.0	87	30	98	4.0	155
27...	125	15.0	--	--	--	--	--	156
27...	175	14.0	8.5	88	29	100	4.0	156
27...	225	13.0	8.5	85	29	94	4.0	159
27...	275	12.0	--	--	--	--	--	160
27...	285	12.0	8.7	85	28	94	4.0	159
27...	325	12.0	--	--	--	--	--	159
27...	375	12.0	--	--	--	--	--	160
27...	425	12.0	8.9	85	29	95	4.0	160
27...	460	12.0	--	--	--	--	--	160

DATE	TIME ^{1/}	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
DEC.							
05...	1120	.39	.00	.01	.28	.03	.03
FEB.							
27...	1030	.37	.01	.05	.28	.02	.06
MAY							
30...	1400	.38	.00	.01	.32	.04	.03
AUG.							
29...	0920	.02	.00	.05	.39	.00	.01

1. SAMPLE DEPTH, 10 FT.

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
JULY									
31...	0	310	88	685	320	2.4	1080	--	9.0
31...	0	--	89	--	--	--	1080	--	8.4
31...	0	--	88	--	--	--	1090	--	8.0
31...	0	--	86	--	--	--	1100	--	4.8
31...	0	300	87	694	340	2.4	1100	--	7.6
31...	0	--	88	--	--	--	1100	--	8.1
31...	0	300	86	693	340	2.4	1100	--	7.9
31...	0	--	84	--	--	--	1090	--	7.4
31...	0	290	84	681	330	2.4	1090	--	7.4
31...	0	--	84	--	--	--	1090	--	7.5
31...	0	--	84	--	--	--	1090	--	7.3
31...	0	290	84	681	330	2.4	1090	--	7.0
31...	0	--	84	--	--	--	1080	--	6.6
AUG.									
29...	1	310	92	685	320	2.4	1090	--	8.2
29...	0	--	91	--	--	--	1090	--	8.2
29...	0	320	90	695	320	2.4	1090	--	8.1
29...	0	290	88	686	340	2.4	1100	--	3.2
29...	0	--	88	--	--	--	1100	--	6.4
29...	0	300	87	694	340	2.3	1090	--	7.6
29...	0	290	84	677	330	2.4	1060	--	7.8
29...	0	--	84	--	--	--	1060	--	7.4
29...	0	290	83	677	330	2.3	1060	--	7.4
29...	0	--	84	--	--	--	1060	--	7.2
29...	0	--	84	--	--	--	1060	--	7.1
29...	0	290	84	678	330	2.4	1060	--	6.6
29...	0	--	84	--	--	--	1060	--	5.9
SEP.									
27...	0	310	88	684	330	2.4	1110	--	7.6
27...	0	--	90	--	--	--	1110	--	7.6
27...	0	--	91	--	--	--	1110	--	7.5
27...	0	300	88	693	340	2.3	1110	--	1.4
27...	0	--	89	--	--	--	1110	--	5.2
27...	0	290	89	687	340	2.4	1110	--	6.6
27...	0	270	86	657	330	2.2	1080	--	7.4
27...	0	--	84	--	--	--	1070	--	7.4
27...	0	280	84	664	330	2.3	1070	--	7.2
27...	0	--	83	--	--	--	1070	--	6.8
27...	0	--	85	--	--	--	1070	--	5.8
27...	0	280	85	667	330	2.3	1090	--	5.1
27...	0	--	85	--	--	--	1090	--	5.0

TRANSPARENCY,
SECCHI DISK
(FEET)

DATE	
OCT. 4	11
30	17.5
DEC. 5	26.5
29	35
JAN. 29	33
FEB. 27	19
MAR. 29	35
APR. 26	35
MAY 30	36
JUNE 28	24
JULY 31	13
AUG. 29	15
SEP. 27	13

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.
(Irrigation network station)

LOCATION.--Lat 36°00'55", long 114°44'26", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, on State line between Mohave County, Ariz., and Clark County, Nev., downstream from gaging station in Hoover Dam powerhouse.

DRAINAGE AREA.--167,800 sq mi (434,600 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1939 to September 1973.

REMARKS.--Nutrient and trace-metal data furnished by U.S. Environmental Protection Agency, San Francisco, Calif.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT.													
17...	1100	16,400	12.0	9.4	88	29	91	4.8	164	0	300	86	.4
NOV.													
29...	1545	6,240	12.0	9.5	90	30	100	4.7	170	0	310	95	.4
JAN.													
16...	0915	15,400	12.0	9.2	85	31	110	5.2	161	0	310	92	.6
FEB.													
27...	1550	8,040	12.0	9.4	85	29	110	6.1	168	0	330	97	.6
MAR.													
22...	1355	13,600	--	9.5	86	28	110	5.1	161	0	300	92	.4
APR.													
17...	1130	16,200	11.5	9.2	86	29	100	4.7	165	0	300	87	.4
JUNE													
18...	1515	21,300	21.0	9.3	81	29	100	4.9	163	0	300	89	.4
JULY													
24...	1010	19,900	11.5	9.4	86	29	110	5.0	160	0	300	85	.4
AUG.													
21...	1305	21,000	11.0	9.4	86	29	100	5.2	131	0	320	90	.2
SEP.													
18...	1045	18,100	12.0	9.3	85	29	100	5.6	166	0	300	88	.3

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SURP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)
OCT. 17...	150	756	692	33500	340	2.2	1130	7.7F	6.4	.76	.01
NOV. 29...	140	772	729	13000	350	2.3	1090	7.4	--	--	--
JAN. 16...	150	792	727	33000	340	2.6	1110	7.9F	9.3	.48	<.01
FEB. 27...	160	748	755	16200	330	2.6	1140	7.7	--	--	--
MAR. 22...	120	775	715	28400	330	2.6	1130	7.9	--	--	--
APR. 17...	130	742	702	32600	330	2.4	1100	7.6F	8.5	.54	.02
JUNE 18...	120	725	698	41700	320	2.4	1080	6.7	--	--	--
JULY 24...	150	728	706	39200	330	2.6	1080	7.8F	8.7	.55	.02
AUG. 21...	140	743	707	42200	330	2.4	1080	8.0	--	--	--
SEP. 18...	150	718	701	35000	330	2.4	1100	7.9	--	--	--

DATE	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANGA- NESE (MN) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)
JAN. 16...	15	<10	<10	110	<5	<50	20	<30	<10	<50

F: FIELD DETERMINATION; OTHER PH VALUES DETERMINED IN LABORATORY.

COLORADO RIVER MAIN STEM

09423000 COLORADO RIVER BELOW DAVIS DAM, ARIZ.-NEV.

LOCATION.--Lat 35°11'30", long 114°34'17", in SE 1/4 sec. 1, T.32 S., R.66 E., Mount Diablo meridian, in Clark County, Nev. at gaging station on right bank 0.5 mile (0.8 km) downstream from Davis Dam, 29 miles (47 km) west of Kingman, Ariz., and 68 miles (109 km) downstream from Hoover Dam.

DRAINAGE AREA.--169,300 sq mi (438,500 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.												
02...	1155	14,900	19.0	8.5	85	30	100	4.6	150	0	310	93
16...	1500	5,120	15.5	9.3	94	30	100	5.1	158	0	310	90
NOV.												
01...	1710	9,630	16.0	8.6	83	31	110	5.1	150	0	310	92
DEC.												
01...	1545	8,410	14.0	9.0	88	32	110	4.6	154	0	310	98
JAN.												
02...	1225	9,650	9.5	8.9	85	29	110	5.2	160	0	320	100
FEB.												
01...	0750	8,320	8.5	9.1	86	31	110	5.0	161	0	310	96
MAR.												
01...	1430	14,900	--	8.8	86	30	110	4.9	166	0	320	95
APR.												
02...	1420	19,800	13.0	8.2	87	30	110	5.0	159	0	310	93
MAY												
01...	1600	19,300	13.0	8.5	85	30	100	5.0	161	0	300	91
JUNE												
14...	1050	19,000	15.5	8.7	86	30	100	4.6	159	0	290	89
JULY												
02...	1215	24,600	20.0	9.0	85	29	100	5.0	154	0	300	93
AUG.												
01...	1420	23,800	20.5	9.1	83	30	110	4.4	149	0	300	92
SEP.												
04...	1500	20,000	20.0	9.0	79	29	110	5.4	146	0	320	97

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED SOLIDS (ESTI- MATED AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SURP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT.									
02...	.4	180	796	707	32000	340	2.4	1130	7.9
16...	.4	150	772	719	10700	360	2.3	1100	7.7
NOV.									
01...	.4	150	812	716	21100	330	2.6	1140	7.8
DEC.									
01...	.4	150	764	731	17400	350	2.6	1130	7.7
JAN.									
02...	.3	170	872	741	22700	330	2.6	1140	7.9
FEB.									
01...	.4	150	780	730	17500	340	2.6	1140	8.3
MAR.									
01...	.6	160	780	741	31400	340	2.6	1130	8.2
APR.									
02...	.3	60	810	725	43300	340	2.6	1130	8.2
MAY									
01...	.4	140	738	700	38400	340	2.4	1110	7.4
JUNE									
14...	.4	140	744	690	38100	340	2.4	1100	8.0
JULY									
02...	.4	140	768	699	51000	330	2.4	1110	7.9
AUG.									
01...	.5	140	752	704	48200	330	2.6	1090	7.9
SEP.									
04...	.3	150	726	724	39100	320	2.7	1100	8.2

STEPTOE VALLEY BASIN

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

LOCATION.--Lat 39°12'05", long 114°41'15", in NW¼SW¼ sec.32, T.16 N., R.65 E., White Pine County, at gaging station 0.1 mile (0.2 km) downstream from Clear Creek, 0.8 mile (1.3 km) upstream from Cave Creek, and 11 miles (18 km) east-southeast of Ely.

DRAINAGE AREA.--11.1 sq mi (28.7 sq km).

PERIOD OF RECORD.--Chemical analyses: March 1968 to September 1973.

Water temperatures: October 1966 to September 1973.

Sediment records: February 1968 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 379 micromhos Apr. 26; minimum 302 micromhos July 24.

Water temperature: Maximum daily, 10.0°C Aug. 18; minimum daily, 2.5°C Dec. 9.

Period of record:

Specific conductance: Maximum, 382 micromhos Apr. 2, 1969; minimum, 249 micromhos Jan. 27, 1971.

Water temperature: Maximum daily, 11.0°C on many days in May, July, and August of most years; minimum daily, 2.5°C Dec. 9, 1972.

WATER QUALITY DATA: WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
OCT.										
31...	1615	3.8	5.0	6.9	53	11	1.7	.6	209	0
NOV.										
29...	0815	3.2	3.5	6.9	53	11	1.7	.5	197	0
DEC.										
27...	0830	3.6	4.5	7.2	54	11	1.8	.5	203	0
JAN.										
23...	1400	3.2	5.0	7.0	53	11	2.7	.4	197	0
MAR.										
06...	1100	2.8	5.0	6.8	46	11	2.9	.6	204	0
APR.										
26...	0910	9.2	6.5	8.1	68	10	2.3	.6	224	0
MAY										
21...	0905	36	7.0	8.3	67	7.1	2.4	.7	223	0
JUNE										
20...	1110	23	7.0	7.2	56	7.4	2.2	.5	198	0
JULY										
24...	1200	12	8.5	6.9	53	9.1	1.8	.4	188	0
AUG.										
21...	1425	8.2	9.0	7.2	52	9.8	1.4	.6	--	--
SEP.										
19...	1525	5.6	9.0	7.6	52	10	2.6	--	186	0

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NEV.---Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
OCT. 31...	9.9	2.4	.14	.00	189	1.94	180	.1	334	--	8.5	.2
NOV. 29...	7.3	1.3	.16	.01	179	1.55	180	.1	319	--	6.8	--
DEC. 27...	8.4	1.6	.18	.01	185	1.80	180	.1	303	8.3	8.2	.1
JAN. 23...	8.2	1.9	.03	.00	181	1.56	180	.1	308	9.1	10.0	.1
MAR. 06...	9.4	2.5	.12	.02	180	1.36	160	.1	319	9.5	10.0	.1
APR. 26...	18	2.3	.22	.01	223	5.54	210	.1	379	8.2	--	--
MAY 21...	17	1.9	.22	.01	215	20.9	200	.1	366	8.7	9.1	--
JUNE 20...	9.0	1.7	.11	.00	182	11.3	170	.1	326	8.8	9.4	--
JULY 24...	8.3	1.6	.14	.00	174	5.64	170	.1	302	8.7	9.1	--
AUG. 21...	11	1.8	.10	.00	180E	3.98E	170	.0	307	8.8	9.0	.1
SEP. 19...	9.9	1.5	.23	.03	177E	2.68E	170	.1	310	8.6	8.9	.3

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 31...	1245	3.6	5.0	91	.88
NOV. 29...	0415	3.2	3.5	40	.35
DEC. 27...	0930	3.2	4.5	37	.32
JAN. 23...	1140	3.0	5.0	72	.58
MAR. 06...	1140	2.8	5.0	10	.08
APR. 26...	0940	4.0	6.5	69	1.7
MAY 21...	1045	36	7.0	110	11
JUNE 20...	1130	23	7.0	36	2.2
JULY 24...	1200	12	8.5	5	.16
AUG. 21...	1515	8.2	9.0	3	.07

E: ESTIMATED.

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[illegible]

10244950 STEPTOE CREEK NEAR ELY, NEV.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

[illegible]

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.
(Hydrologic bench-mark station)

LOCATION.--Lat 38°53'00", long 117°14'35", in SE¼ sec.22, T.12 N., R.42 E., Nye County, at gaging station 600 ft (183 m) upstream from diversion, 3 miles (5 km) west of State Highway 8A, and 15 miles (24 km) northwest of Round Mountain.

DRAINAGE AREA.--20 sq mi (52 sq km).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1973.

Water temperatures: April 1966 to September 1968, November 1969 to September 1973.

Sediment records: October 1967 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 132 micromhos Nov. 2, Sept. 20; minimum 80 micromhos May 22.

Water temperature: Maximum daily, 16.0°C Aug. 17-19; minimum daily, freezing point on several days in November, December, and February.

Period of record:

Specific conductance: Maximum 140 micromhos Dec. 18, 1970; minimum, 75 micromhos June 16, 1971.

Water temperature: Maximum daily, 17.0°C July 25, 29, 1966 and on several days in July and August 1972; minimum daily, freezing point on several days in many years.

REMARKS.--Hourly water-quality data furnished by K. V. Slack and L. J. Tilley, U.S. Geol. Survey, Menlo Park, Calif. Additional biologic data are available from them.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.									
06...	0815	2.1	7.0	21	19	1.7	--	1.0	64
NOV.									
02...	1245	1.8	5.0	21	18	1.6	6.5	.7	70
28...	0830	1.8	1.5	20	16	1.5	6.5	.9	69
DEC.									
28...	1140	1.7	1.5	20	17	1.4	5.9	.7	68
JAN.									
25...	1545	1.6	1.5	19	17	1.3	5.8	.7	67
MAR.									
08...	1000	2.8	.0	17	16	1.2	5.7	.6	63
MAY									
01...	1505	22	7.5	19	17	1.3	5.8	.9	65
22...	1700	39	9.5	21	10	.8	4.7	.8	44
JUNE									
21...	1545	7.6	12.0	21	11	.8	5.2	.8	46
JULY									
26...	1345	3.0	12.0	21	15	1.2	5.9	.8	66
AUG.									
23...	1310	2.0	14.0	21	18	1.3	6.4	1.0	62
SEP.									
20...	1340	1.7	11.0	21	18	1.5	6.5	.9	71

BIG SMOKY VALLEY (NORTHERN PART)

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT. 06...	0	8.5	--	--	--	--	--	--
NOV. 02...	0	6.0	2.1	--	--	--	--	--
28...	0	7.3	2.0	.1	.00	.00	.03	.20
DEC. 28...	0	7.4	2.0	--	--	--	--	--
JAN. 25...	0	7.5	1.5	--	--	--	--	--
MAR. 08...	0	7.0	2.0	--	--	--	--	--
MAY 01...	0	7.2	2.3	.1	.19	.00	.03	.23
22...	0	4.3	2.0	.2	.11	.01	.03	.35
JUNE 21...	0	3.4	1.6	--	--	--	--	--
JULY 26...	0	5.3	2.0	--	--	--	--	--
AUG. 23...	0	6.3	--	.2	.00	.00	.02	.16
SEP. 20...	0	6.9	1.6	--	--	--	--	--

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
OCT. 06...	.05	--	92E	.52E	54	.4	128	--	9.4	--
NOV. 02...	.00	--	90	.44	52	.4	132	--	8.7	.2
28...	.01	.02	88	.43	46	.4	122	--	6.6	.7
DEC. 28...	.02	--	88	.40	48	.4	120	8.4	10.4	.2
JAN. 25...	.00	--	86	.37	48	.4	122	9.2	10.0	.1
MAR. 08...	.01	--	81	.61	45	.4	121	8.4	11.3	.1
MAY 01...	.01	.05	87	5.17	44	.4	122	8.5	9.8	.3
22...	.02	.09	67	7.06	28	.4	80	8.6	9.0	.1
JUNE 21...	.01	--	67	1.37	31	.4	85	8.2	8.5	.2
JULY 26...	.01	--	84	.69	42	.4	111	8.6	8.4	--
AUG. 23...	.00	--	86E	.46E	50	.4	123	8.4	8.2	.3
SEP. 20...	.04	--	92	.42	51	.4	132	8.6	8.4	.4

E: ESTIMATED.

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WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5	5.0	2.5	2.0	1.5	0.5	0.5	1.0	0.5	3.0	2.0
2	9.5	9.0	5.0	5.0	2.0	2.0	0.5	0.5	1.0	0.5	3.0	1.0
3	9.0	8.5	5.0	4.0	2.5	2.0	1.0	0.5	1.0	0.5	2.0	0.5
4	9.0	8.5	5.5	5.0	2.5	1.0	1.0	1.0	1.5	1.0	2.5	1.5
5	8.5	7.5	5.5	4.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.0
6	9.0	7.0	4.0	2.5	1.0	0.5	1.0	1.0	2.0	1.5	2.0	1.0
7	9.0	8.0	4.5	3.5	1.0	0.5	1.0	1.0	2.0	2.0	2.5	1.0
8	9.0	8.0	4.5	3.5	0.5	0.5	1.0	1.0	2.0	2.0	2.5	0.0
9	9.0	8.0	3.5	2.5	0.5	0.5	1.0	1.0	2.0	1.5	3.0	1.0
10	8.0	7.0	4.0	3.5	0.5	0.5	1.5	1.0	1.5	1.5	4.0	2.0
11	7.5	6.5	4.0	3.5	0.5	0.5	1.5	1.5	1.5	1.0	3.0	2.0
12	7.5	6.5	4.0	3.5	0.5	0.5	2.5	2.0	1.5	1.0	2.0	1.0
13	8.0	7.0	3.5	2.5	0.5	0.5	2.5	2.5	1.5	1.5	1.5	1.0
14	8.0	7.0	3.5	3.5	0.5	0.5	2.5	2.5	1.0	0.5	2.0	0.5
15	7.5	6.5	3.5	2.5	0.5	0.0	2.5	2.5	1.5	1.0	2.5	0.5
16	7.0	6.0	3.0	3.0	1.0	0.5	2.5	2.5	1.0	0.5	3.5	1.0
17	6.5	5.5	3.0	2.0	1.5	1.0	2.5	2.5	0.5	0.5	3.5	2.0
18	6.0	5.0	2.0	1.0	1.5	1.5	2.5	2.5	0.5	0.5	3.5	1.5
19	6.5	6.0	2.5	2.0	1.5	1.5	2.5	1.5	0.5	0.5	3.5	1.5
20	6.5	6.0	2.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	3.0	1.0
21	7.5	6.5	1.0	0.0	1.5	1.5	1.5	1.5	0.5	0.0	3.0	1.0
22	7.0	6.5	0.0	0.0	1.5	1.5	1.5	1.5	1.5	0.5	3.0	2.0
23	7.0	6.5	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.0	3.5	2.5
24	7.0	5.5	0.0	0.0	1.5	1.5	1.5	1.5	2.0	1.5	5.0	2.5
25	5.5	5.0	1.0	0.0	1.5	1.5	1.5	1.5	2.5	1.5	4.5	2.5
26	6.0	5.0	2.5	1.0	1.5	1.0	1.5	1.5	2.5	1.5	4.5	3.0
27	6.0	5.5	2.5	2.0	1.5	1.0	1.0	0.5	2.5	2.0	4.5	2.5
28	6.0	5.0	2.5	1.5	1.5	1.0	0.5	0.5	3.0	2.5	3.5	2.5
29	5.5	3.0	2.5	2.0	1.0	0.5	0.5	0.5	---	---	4.0	1.5
30	3.0	2.5	2.0	1.5	0.5	0.5	1.0	0.5	---	---	3.5	1.5
31	2.5	1.5	---	---	0.5	0.5	1.0	1.0	---	---	5.0	3.0
MONTH	10.0	1.5	5.5	0.0	2.5	0.0	2.5	0.5	3.0	0.0	5.0	0.0

[illegible]

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.—Continued

WATER QUALITY DATA FOR 24-HOUR PERIOD, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BARO- METRIC PRES- SURE (MM HG)	WIND SPEED (M/SEC)	LIGHT INTENSITY (FOOT- CANDLES)	LIGHT INTENSITY (GM-CAL/ CM ² /MIN)	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	pH	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED OXYGEN (PERCENT OF SAT- URATION)	TOTAL SESTON (MG/L, DRY WT)	ORGANIC SESTON (MG/L, DRY WT)
JAN.														
16...	1300	607	--	1500	--	--	2.5	--	72	--	--	--	0.8	0.4
	1400	606	--	1500	--	6.0	3.0	1.6	72	--	11.2	102	.9	.4
	1500	606	0.8	650	--	5.5	3.0	--	72	8.0	--	96	1.0	.4
	1600	605	1.0	332	--	4.5	3.0	1.6	72	8.0	11.0	102	1.0	.5
	1700	605	1.1	2.6	--	3.5	3.0	--	72	8.0	11.0	102	1.0	.4
	1800	605	.8	.0	--	3.0	3.0	1.6	73	8.0	11.0	103	1.4	.6
	1900	605	--	.0	--	3.0	3.0	--	73	8.0	11.0	102	1.3	.6
	2000	606	1.0	.0	--	.5	3.0	1.7	72	8.0	11.1	103	1.5	.7
	2100	606	1.5	.0	--	.5	2.5	--	72	8.0	11.1	102	1.7	.7
	2200	606	.9	.0	--	1.0	2.5	1.7	72	8.0	11.1	102	1.3	.6
	2300	607	.9	.0	--	.5	2.5	--	72	8.0	11.1	102	1.3	.6
	2400	607	.8	.0	--	.0	2.5	1.7	72	8.0	11.1	102	1.2	.6
17...	0100	606	.6	.0	--	-1.0	2.5	--	72	8.0	11.1	102	1.6	.7
	0200	607	1.5	.0	--	-.5	2.5	1.6	72	8.0	11.1	101	1.2	.6
	0300	607	1.7	.0	--	-1.0	2.0	--	72	8.0	11.1	101	1.1	.6
	0400	608	1.5	.0	--	-2.0	2.0	1.6	72	8.0	11.1	98	1.1	.6
	0500	608	1.8	.0	--	-2.5	2.0	--	71	8.0	11.2	100	1.0	.5
	0600	609	1.5	.0	--	-3.0	2.0	1.6	71	8.0	11.2	100	1.1	.6
	0700	610	1.7	21	--	-3.0	1.5	--	70	8.0	11.3	101	1.1	.5
	0800	610	1.6	130	--	-2.5	1.5	1.6	70	8.0	11.4	101	1.1	.6
	0900	611	1.2	195	--	-2.5	1.5	--	70	8.0	11.4	102	.9	.5
	1000	611	2.3	332	--	-2.0	1.5	1.6	70	8.0	11.3	100	.8	.5
	1100	611	--	428	--	3.0	1.5	--	70	8.0	11.3	100	.9	.5
	1200	611	1.2	750	--	.5	1.5	1.6	70	8.0	11.7	103	1.0	.5
	1300	611	1.0	835	--	2.0	1.5	--	70	8.0	11.2	100	1.0	.5
JULY														
16...	1235	--	--	--	1.63	--	12.0	--	78	8.5	6.8	62	--	--
	1300	617	--	--	1.40	--	12.5	--	78	--	6.8	63	--	--
	1400	615	1.7	--	.42	26.0	13.0	4.7	79	8.6	6.6	62	1.5	.5
	1500	615	1.6	--	.41	26.5	13.5	--	80	8.6	6.6	62	1.4	.5
	1600	615	1.1	--	.78	27.0	13.5	4.4	80	8.6	6.6	62.5	1.0	.4
	1700	614	2.0	--	.10	27.0	13.5	--	80	8.5	6.5	61	1.2	.4
	1800	614	2.0	--	.08	25.5	13.0	4.2	80	8.5	6.5	61	1.5	.5
	1900	615	1.8	--	.02	24.0	13.0	--	80	8.5	6.5	61	1.4	.5
	2000	615	1.9	--	--	22.5	12.5	4.2	80	8.4	6.5	60	1.4	.5
	2100	616	1.6	--	--	23.0	12.0	--	79	8.4	6.5	59	1.6	.6
	2200	617	1.1	--	--	22.5	12.0	4.3	79	8.4	6.5	58	1.6	.5
	2300	616	1.8	--	--	21.0	12.0	--	78	8.4	6.6	60	1.8	.5
	2400	617	2.2	--	--	20.5	11.5	4.5	78	8.4	6.6	60	1.7	.5
17...	0100	616	2.3	--	--	20.0	11.5	--	77	8.4	6.6	59	1.7	.5
	0200	616	2.2	--	--	19.5	11.0	4.6	77	8.4	6.6	59	1.5	.5
	0300	616	1.6	--	--	19.0	11.0	--	77	8.5	6.6	58	1.6	.5
	0400	616	2.0	--	--	18.5	11.0	4.7	76	8.4	6.6	58	1.7	.6
	0500	616	1.5	--	--	18.5	11.0	--	76	8.4	6.6	58	1.6	.5
	0600	616	1.5	--	--	18.0	11.0	4.8	76	8.4	6.6	58	1.8	.5
	0700	616	1.6	--	.02	18.0	10.5	--	76	8.4	6.6	57.5	1.4	.4
	0800	616	.6	--	.03	18.0	10.5	4.9	75	8.5	6.6	57.5	1.5	.4
	0900	616	.8	--	.87	18.0	11.0	--	75	8.5	6.6	58	1.6	.5
	1000	616	.9	--	1.12	21.0	11.0	4.9	76	8.5	6.6	59	1.5	.5
	1100	616	1.2	--	1.36	23.5	11.5	--	76	8.4	6.4	58	1.6	.5
	1200	616	--	--	1.55	25.5	12.5	4.8	77	8.4	6.3	57.5	1.5	.5
	1300	616	2.1	--	1.36	27.5	13.0	--	78	8.4	6.2	57.5	1.4	.5

BIG SMOKY VALLEY (NORTHERN PART)

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.					
06...	0920	2.1	7.0	7	.04
NOV.					
02...	1515	1.8	5.0	5	.02
28...	0945	1.8	1.5	10	.05
DEC.					
28...	1200	1.7	1.5	4	.02
JAN.					
25...	1430	1.6	1.5	4	.02
MAR.					
08...	1050	2.7	.0	12	.09
MAY					
01...	1505	22	7.5	11	.65
22...	1700	39	9.5	70	7.4
JUNE					
21...	1550	7.6	12.0	10	.21
JULY					
26...	1500	2.9	12.0	0	.00
AUG.					
23...	1545	1.8	14.0	0	.00

10301500 WALKER RIVER NEAR WABUSKA, NEV.
(Irrigation and pesticide network station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE¼NW¼ sec.20, T.15 N., R.26 E., Lyon County, at gaging station 600 ft (183 m) upstream from timber bridge at Julian Ranch, 1.8 miles (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 miles (7.4 km) east of Wabuska, and 16 miles (24 km) upstream from Weber Dam.

DRAINAGE AREA.--2,600 sq mi (6,700 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

Water temperatures: October 1968 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 792 micromhos Dec. 12; minimum daily 195 micromhos June 11.

Water temperature: Maximum daily, 30.0°C July 10; minimum daily, freezing point on several days during December and January.

Period of record:

Specific conductance: Maximum daily, 792 micromhos Dec. 12, 1972; minimum daily, 183 micromhos June 26, 1969.

Water temperature: Maximum daily, 32.0°C July 19, 1970; minimum daily, freezing point on several days during winter months of each year.

REMARKS.--Inflow from two drainage ditches enters stream less than a mile (1.6 km) above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous, either chemically or thermally. This doubtless is responsible for some of variation shown by daily specific-conductance and temperature data. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.									
12...	0940	82	11.5	29	41	8.5	53	6.1	210
NOV.									
09...	1505	54	8.0	27	45	11	70	5.1	239
DEC.									
07...	1500	78	2.0	31	52	12	81	6.1	256
JAN.									
11...	1030	85	.5	32	44	4.4	62	4.9	234
FEB.									
15...	1415	114	6.5	27	43	10	67	5.4	232
MAR.									
16...	1150	97	9.5	26	42	9.7	65	4.5	230
APR.									
26...	1055	77	17.0	24	34	7.6	48	5.3	180
MAY									
24...	1215	136	16.5	24	36	7.9	56	5.7	176
JUNE									
15...	0855	963	16.0	16	18	4.3	18	2.9	108
JULY									
11...	1200	88	25.5	22	34	7.4	40	5.4	177
AUG.									
08...	1230	79	24.5	22	38	8.6	46	5.2	203
SEP.									
11...	1300	71	20.5	26	40	9.6	57	5.8	214

WALKER RIVER BASIN

10301500 WALKER RIVER NEAR WABUSKA, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED FLUOR- IDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 12...	0	70	17	--	--	--	--	--	.16
NOV. 09...	0	93	26	--	--	--	--	--	.00
DEC. 07...	0	100	31	1.2	.30	.00	.14	.36	.30
JAN. 11...	0	88	21	--	--	--	--	--	.70
FEB. 15...	0	88	25	--	--	--	--	--	.32
MAR. 16...	0	81	25	1.0	.12	.00	.07	.51	.12
APR. 26...	0	52	18	--	--	--	--	--	.16
MAY 24...	0	63	22	--	--	--	--	--	.12
JUNE 15...	0	16	5.1	.4	.04	.00	.11	.17	.04
JULY 11...	0	44	12	--	--	--	--	--	.03
AUG. 08...	0	56	15	.9	.06	.00	.05	.33	.06
SEP. 11...	4	69	19	--	--	--	--	--	.07

DATE	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT. 12...	.11	--	329	72.8	140	2.0	507	8.0
NOV. 09...	.06	--	395	57.6	160	2.4	607	8.0
DEC. 07...	.08	.27	443	93.3	180	2.6	677	7.6
JAN. 11...	.08	--	381	87.2	150	2.2	583	7.9
FEB. 15...	.09	--	381	117	150	2.4	615	8.1
MAR. 16...	.09	.16	369	96.7	140	2.4	604	7.9
APR. 26...	.10	--	279	58.0	120	1.9	448	7.6
MAY 24...	.11	--	302	111	120	2.2	495	7.5
JUNE 15...	.06	.31	134	348	63	1.0	212	7.8
JULY 11...	.12	--	253	60.1	120	1.6	406	7.8
AUG. 08...	.09	.14	292	62.3	130	1.8	464	8.0
SEP. 11...	.12	--	336	64.4	140	2.1	517	8.4

WALKER RIVER BASIN

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10301500 WALKER RIVER NEAR WABUSKA, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN (UG/L)
OCT. 12...	0940	.00	--	.00	--	.00	--	.00	--	.00
DEC. 07...	1500	.00	.0	.00	.0	.00	.5	.00	.0	.00
MAR. 16...	1245	.00	--	.00	--	.00	--	.00	--	.00
JUNE 15...	1205	.00	--	.00	--	.01	--	.01	--	.02
AUG. 08...	1215	.00	.0	.00	.0	.01	.0	.00	.0	.01

DATE	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)
OCT. 12...	--	.00	--	.00	--	.00	--	.00	--	.0
DEC. 07...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0
MAR. 16...	--	.00	--	.00	--	.00	--	--	--	.0
JUNE 15...	--	.00	--	.00	--	.00	--	.00	--	.0
AUG. 08...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0

DATE	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)
OCT. 12...	--	.00	.00	.00	.00	.00	.00	.00	.0	--
DEC. 07...	0	.01	.00	.00	.00	.09	.00	.00	.0	0
MAR. 16...	--	.00	.00	.00	.00	.00	.00	.00	.0	--
JUNE 15...	--	.01	.00	.00	.00	.00	.00	.00	.0	--
AUG. 08...	0	.01	.00	.00	.00	.16	.00	.00	.0	0

WALKER RIVER BASIN

10301500 WALKER RIVER NEAR WABUSKA, NEV.--Continued

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C) * WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	676	632	625	561	564	544	432	240	353	417	446
2	453	654	637	616	564	575	550	556	221	352	419	500
3	455	612	622	609	564	565	580	603	220	387	415	512
4	473	620	618	669	558	567	597	656	223	387	405	705
5	473	605	644	673	561	581	600	590	231	419	436	486
6	482	605	633	649	564	579	600	577	218	419	434	495
7	480	612	624	657	564	535	646	640	213	404	456	493
8	517	614	668	708	568	547	460	640	215	407	485	486
9	495	623	738	623	568	542	463	627	220	404	488	512
10	502	621	789	609	554	536	530	640	199	406	485	475
11	502	619	786	589	557	553	517	590	195	404	467	484
12	510	601	792	550	562	599	553	593	200	445	563	458
13	530	601	--	592	593	599	587	438	205	419	586	505
14	544	584	--	626	543	578	425	438	207	422	607	464
15	549	584	645	562	603	571	445	422	226	391	408	471
16	549	608	642	559	600	589	410	438	243	412	492	507
17	558	612	622	574	600	562	418	398	278	410	492	507
18	558	631	649	574	600	561	401	377	278	371	485	477
19	559	649	571	571	600	552	473	375	322	362	478	452
20	574	645	534	540	617	553	410	378	324	362	445	462
21	573	652	543	574	603	556	458	363	316	374	374	466
22	571	671	562	568	600	553	454	441	326	401	375	475
23	576	645	576	616	600	549	438	439	310	406	356	471
24	556	652	576	649	600	562	500	414	357	406	364	468
25	579	656	574	602	597	542	405	340	366	409	343	488
26	597	652	597	599	621	546	460	340	412	422	337	475
27	592	650	615	623	584	543	432	341	420	449	371	493
28	634	641	593	599	568	539	434	342	400	443	371	534
29	633	633	585	609	---	536	443	306	348	441	353	561
30	620	627	608	586	---	535	399	242	342	465	363	550
31	590	---	615	583	---	535	---	243	---	430	373	---
MONTH	540	629	635	608	583	558	486	459	276	406	434	479
YEAR	MAX	792	MIN	195	MEAN	508						

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	9.0	2.0	0.0	3.5	11.5	9.0	17.5	17.0	21.5	24.5	19.0
2	18.0	10.0	4.5	0.0	4.0	11.0	10.0	18.0	17.5	25.0	25.5	24.5
3	18.0	10.0	4.0	0.5	4.5	8.0	10.0	15.0	18.0	28.0	25.0	23.0
4	17.0	9.5	0.5	0.0	4.5	10.5	14.0	13.0	18.0	27.0	25.0	24.0
5	17.0	11.0	0.0	1.0	5.0	9.0	15.5	16.0	20.0	25.0	27.0	25.0
6	17.5	9.0	1.5	0.0	7.0	5.0	17.0	18.0	21.0	25.0	28.0	24.0
7	15.5	8.5	1.0	0.0	6.5	6.0	14.0	20.0	23.0	24.0	20.5	23.0
8	16.0	8.5	0.0	0.0	6.5	7.5	17.0	23.0	21.0	25.0	24.0	25.0
9	16.5	7.0	0.0	0.0	7.5	10.5	15.0	21.0	21.0	29.0	23.0	21.0
10	16.0	7.0	0.0	0.5	7.5	10.5	16.0	21.0	21.0	30.0	22.0	22.0
11	15.5	7.0	0.0	2.0	6.0	8.0	17.0	21.0	21.0	29.0	27.0	23.0
12	16.0	6.5	0.0	3.0	5.0	7.5	14.0	23.0	21.0	27.0	29.0	22.5
13	16.0	7.0	0.0	5.5	6.5	6.5	15.5	22.0	18.0	27.0	27.5	24.5
14	13.0	6.0	0.0	6.0	7.0	9.0	14.0	22.0	17.0	25.0	25.0	23.0
15	14.0	5.5	0.0	5.5	6.5	10.5	15.0	23.0	18.0	27.0	26.0	24.5
16	13.0	4.5	0.5	5.0	7.5	13.0	13.0	22.5	18.0	25.0	25.0	25.5
17	12.0	5.0	0.5	3.5	7.5	8.0	12.5	25.0	19.0	24.5	24.0	24.0
18	13.5	6.5	1.0	5.0	8.0	10.5	12.0	22.0	19.0	25.0	28.0	24.0
19	11.0	6.0	1.5	2.0	8.5	6.5	10.5	23.5	21.0	27.5	25.0	20.0
20	10.5	5.5	1.0	0.0	7.5	7.5	13.0	23.0	23.0	22.0	24.0	24.0
21	10.0	5.0	2.0	2.0	9.0	6.0	14.0	21.5	24.5	23.0	26.5	21.0
22	14.5	5.0	1.5	0.0	9.5	8.0	15.5	22.0	19.0	24.0	25.0	13.5
23	15.5	3.5	4.0	0.5	11.0	9.0	18.0	24.5	18.0	25.0	24.5	18.0
24	12.0	4.5	2.0	0.0	10.0	14.0	16.0	19.5	22.0	24.5	21.0	21.0
25	12.0	6.0	3.0	0.0	10.5	13.5	18.0	18.0	25.0	26.0	20.5	20.0
26	11.5	8.0	1.0	3.5	11.0	12.0	19.0	21.0	27.0	26.0	19.0	18.0
27	12.0	6.5	4.5	3.0	11.0	10.0	18.0	22.5	24.0	27.0	20.5	19.0
28	9.5	6.0	0.0	5.0	11.5	---	17.0	23.5	25.0	28.0	24.0	20.0
29	6.0	6.0	0.0	1.0	---	9.5	16.0	22.0	26.0	27.0	25.0	21.0
30	6.5	1.0	1.0	2.0	---	10.0	16.5	19.0	24.5	26.0	23.5	18.0
31	7.0	---	1.0	4.5	---	11.0	---	17.0	---	20.0	20.0	---
MONTH	13.5	6.5	1.0	2.0	7.5	9.5	14.5	20.5	21.0	25.5	24.5	22.0
YEAR	MAX	30.0	MIN	0.0	MEAN	14.0						

CARSON RIVER BASIN

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10312000 CARSON RIVER NEAR FORT CHURCHILL, NEV.
(Irrigation network station)

LOCATION.--Lat 39°17'30", long 119°18'40", in SW¼SE¼ sec.32, T.17 N., R.24 E., Lyon County, at gaging station 400 ft (122 m) downstream from Buckland Ditch, 2 miles (3 km) west of Ft. Churchill, and 4.5 miles (7.2 km) upstream from Weeks bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,450 sq mi (3,760 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1962 to September 1973 (published as Carson River near Silver Springs, sta. no. 10312020, Oct. 1962-Sept. 1970).

Water temperatures: October 1962 to September 1973 (see note above).

EXTREMES.--1972-73:

Specific conductance: Maximum 840 micromhos Sept. 13; minimum 88 micromhos May 25.

Water temperature: Maximum 27.0°C July 27; minimum, freezing point on several days in December and January.

Period of record:

Specific conductance: Maximum, 840 micromhos Sept. 13, 1973; minimum, 81 micromhos July 3, 1967.

Water temperature: Maximum, 29.0°C Aug. 7, 1972; minimum, freezing point on many days during winter months.

REMARKS.--Water-quality samples are collected from Buckland Ditch, which leaves the river 400 ft (122 m) upstream from the gage, or from river at gage, depending on discharge (more detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev.). Discharge data do not include ditch flow.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT.									
05...	1600	.90	18.5	--	--	--	--	--	--
19...	1210	82	11.5	20	36	8.1	34	4.3	140
NOV.									
21...	1245	131	4.5	22	34	8.0	35	4.0	133
DEC.									
21...	1530	742	2.0	18	11	4.4	13	2.4	69
JAN.									
23...	1000	345	.5	25	20	6.6	22	3.7	112
FEB.									
22...	1115	348	6.0	25	32	8.4	29	3.4	138
MAR.									
22...	1130	320	6.0	23	23	6.0	22	2.6	103
APR.									
20...	1450	420	8.5	21	21	5.0	16	2.5	81
JUNE									
01...	1200	1840	12.5	16	10	2.6	7.5	1.6	54
JULY									
01...	1100	235	19.0	23	25	6.0	23	3.5	107
AUG.									
01...	1110	3.6	23.5	30	59	12	51	5.3	190
30...	1340	3.7	20.0	31	60	14	55	5.4	195

CARSON RIVER BASIN

10312000. CARSON RIVER NEAR FORT CHURCHILL, NEV.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 05...	--	--	--	--	--	--	.13	--	--
19...	0	78	11	--	--	--	--	--	.09
NOV. 21...	0	70	10	--	--	--	--	--	.05
DEC. 21...	0	27	4.4	--	--	--	--	--	.16
JAN. 23...	0	51	8.4	.4	.30	.01	.18	.25	.31
FEB. 22...	0	61	10	--	--	--	--	--	.31
MAR. 22...	0	44	7.4	--	--	--	--	--	.29
APR. 20...	0	36	5.1	--	--	--	--	--	.26
JUNE 01...	0	12	2.7	.1	.05	.00	.06	.48	.05
JULY 01...	0	42	7.2	.4	.06	.00	.02	.66	.06
AUG. 01...	0	150	13	--	--	--	--	--	.00
30...	0	150	14	--	--	--	--	--	.04

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT. 05...	--	.35	--	--	--	--	--	--
19...	.20	--	261	57.8	120	1.3	411	7.9
NOV. 21...	.17	--	249	88.1	120	1.4	380	6.9
DEC. 21...	.08	--	115	230	46	.8	158	7.3
JAN. 23...	.13	.25	194	181	75	1.1	295	7.7
FEB. 22...	.17	--	239	225	110	1.2	358	8.0
MAR. 22...	.21	--	181	156	82	1.1	293	7.7
APR. 20...	.14	--	146	168	73	.8	229	7.5
JUNE 01...	.04	.36	80	397	36	.5	108	7.9
JULY 01...	.22	.36	184	117	87	1.1	279	7.8
AUG. 01...	.10	--	414	4.02	200	1.6	612	8.2
30...	.11	--	426	4.26	210	1.7	643	8.2

10312000 CARSON RIVER NEAR FORT CHURCHILL, NEV.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	430	370	332	302	300	276	156	99	304	624	652
2	562	425	372	304	301	306	275	156	118	310	628	652
3	545	427	385	307	310	306	261	157	122	356	649	655
4	522	415	386	314	308	307	261	144	126	378	636	655
5	429	400	370	335	307	307	221	130	118	411	653	653
6	396	395	384	349	307	302	207	145	120	476	636	656
7	398	368	377	---	310	306	174	179	122	488	632	665
8	409	374	414	---	304	306	174	144	119	510	641	671
9	411	394	474	---	308	289	174	146	120	524	641	665
10	411	397	---	341	332	290	175	137	111	535	653	642
11	412	402	---	288	367	287	209	130	112	556	649	646
12	416	403	---	266	369	252	175	111	128	547	653	656
13	417	386	---	258	371	253	176	---	132	---	645	840
14	417	378	---	214	366	252	172	98	172	556	649	667
15	411	379	---	216	---	289	178	103	170	572	662	669
16	427	372	---	248	369	290	197	104	171	593	667	668
17	427	357	---	254	371	298	225	98	184	593	662	677
18	419	376	---	213	364	292	221	98	195	604	662	673
19	421	378	---	261	362	283	220	93	200	619	662	671
20	392	379	207	272	362	283	220	96	214	623	658	673
21	381	386	---	317	359	282	221	96	243	619	667	665
22	383	379	184	318	349	287	241	104	243	619	649	656
23	363	383	204	298	338	286	251	104	240	619	658	656
24	369	383	233	296	335	294	241	95	238	615	653	656
25	383	372	233	310	330	290	197	88	243	619	653	656
26	388	382	241	299	315	289	167	116	239	619	649	656
27	397	395	258	287	317	262	161	103	301	619	658	653
28	408	382	264	296	307	254	146	96	300	623	662	650
29	424	374	268	306	---	267	125	98	290	615	662	655
30	424	367	277	302	---	267	117	99	280	615	658	648
31	426	---	296	336	---	259	---	93	---	---	667	---
MONTH	426	388	---	291	335	285	202	117	182	543	652	665
YEAR	MAX	840	MIN	88	MEAN	369						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	6.0	3.5	1.0	0.5	8.0	10.0	15.0	14.0	---	22.0	15.5
2	13.0	8.0	2.5	0.0	1.0	6.5	10.5	15.0	14.0	22.0	22.0	17.5
3	15.0	8.5	3.0	0.0	1.5	6.0	10.0	14.5	15.0	19.0	23.0	17.0
4	16.0	9.5	2.5	0.0	2.5	7.0	11.0	14.0	14.5	20.0	22.5	17.0
5	19.0	7.0	2.5	0.5	2.0	10.5	9.5	10.5	16.0	20.0	23.0	16.5
6	13.5	7.0	0.0	0.0	7.0	7.0	9.5	11.0	20.0	20.0	22.0	16.5
7	14.0	6.5	0.0	0.0	6.5	5.5	9.5	16.0	19.0	18.0	19.5	16.0
8	13.5	7.0	0.5	0.0	5.5	8.5	10.0	17.0	20.0	20.0	20.0	15.5
9	13.0	5.5	0.0	0.0	4.5	8.0	10.0	17.0	20.0	21.0	20.0	19.0
10	12.5	6.5	0.0	0.5	5.0	8.0	10.5	15.0	19.0	22.0	20.0	17.0
11	13.5	6.5	0.0	1.0	5.5	8.0	9.5	14.5	22.0	26.0	21.0	16.5
12	13.0	7.0	0.0	1.0	5.0	8.5	10.5	15.5	19.0	22.0	22.0	16.0
13	13.5	6.0	0.0	1.5	5.5	10.0	11.0	---	18.5	20.0	22.0	15.0
14	12.0	8.0	0.0	2.0	5.0	10.0	13.0	14.0	18.0	19.5	21.0	19.5
15	12.0	5.0	0.0	2.0	4.5	5.0	10.0	18.0	17.0	19.5	22.0	17.0
16	11.0	5.0	0.0	4.5	5.0	5.5	9.0	18.0	17.5	22.5	21.0	17.5
17	11.0	7.0	0.0	3.5	5.0	7.5	9.0	17.0	17.0	20.0	20.5	14.0
18	11.5	5.0	0.0	4.0	5.0	5.0	8.5	18.0	16.5	20.0	21.0	14.0
19	11.0	5.0	0.0	2.0	5.0	4.5	10.0	18.0	16.5	21.0	21.0	15.0
20	10.0	5.0	2.0	0.0	5.0	5.0	12.0	11.5	16.0	21.0	19.5	14.0
21	9.5	4.0	0.0	1.0	5.5	4.5	10.5	18.0	16.5	22.0	20.0	14.5
22	10.0	4.5	2.0	0.0	4.0	12.0	10.5	16.0	16.0	21.5	17.5	14.0
23	10.0	3.0	0.5	1.0	5.0	12.0	15.0	17.0	16.0	22.0	18.0	13.5
24	10.0	3.5	1.0	0.0	6.5	6.0	16.0	14.5	18.0	22.5	17.0	14.5
25	9.0	3.5	4.5	0.0	6.0	8.0	14.0	12.0	18.0	24.0	16.0	15.0
26	9.5	3.5	0.0	0.5	5.0	10.0	16.0	11.5	22.0	26.0	15.5	13.0
27	9.0	5.5	2.0	3.5	7.0	8.0	15.5	13.0	23.0	27.0	15.0	13.0
28	8.0	4.0	2.0	1.0	7.5	8.5	14.0	13.0	24.0	26.0	15.5	14.0
29	6.0	4.5	2.0	0.0	---	7.0	13.0	16.0	23.5	25.5	16.0	15.0
30	5.0	3.5	1.0	0.5	---	7.0	11.0	17.0	24.0	24.0	15.0	17.0
31	5.5	---	0.5	0.0	---	8.0	---	16.5	---	---	15.0	---
MONTH	11.5	5.5	1.0	1.0	5.0	7.5	11.5	15.0	18.5	22.0	19.5	15.5
YEAR	MAX	27.0	MIN	0.0	MEAN	11.0						

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NEV.
(Irrigation network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.30 N., R.33 E., Pershing County, at gaging station 1,000 ft (305 m) downstream from Rye Patch Dam, and 1.5 miles (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 sq mi (41,700 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: December 1951 to September 1958, October 1959 to September 1961, May 1962 to September 1973.
Water temperatures: December 1951 to September 1958, October 1959 to September 1961, May 1962 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 1,120 micromhos Feb. 26-28; minimum daily, 850 micromhos July 22.

Water temperature: Maximum daily, 21.5°C on several days in July and August; minimum daily, 4.0°C on several days in December and January.

Period of record:

Specific conductance (1951-58, 1962-73): Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.

Water temperature: Maximum (1951-54, 1956-58, 1959-61, 1962-68, 1969-73), 25.5°C Sept. 21, 1958; minimum (1951-54, 1956-58, 1959-61, 1962-67, 1968-69, 1970-72), 0.5°C on many days during winter months of some years.

REMARKS.--Flow completely regulated by Rye Patch Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)
OCT.									
19...	1435	273	14.0	30	42	17	150	19	294
NOV.									
28...	1115	22	5.5	29	39	17	180	18	274
DEC.									
27...	1025	19	3.0	29	41	17	160	16	287
JAN.									
25...	1330	20	5.0	29	40	18	160	17	292
FEB.									
28...	1350	17	6.0	31	--	17	160	17	292
MAR.									
20...	1235	17	6.0	29	41	17	160	17	313
APR.									
18...	1050	522	8.0	28	41	18	180	13	304
MAY									
16...	1245	904	15.0	29	42	16	136	15	293
JUNE									
13...	1300	759	18.5	31	43	15	110	15	293
JULY									
18...	1205	121	21.0	33	41	15	110	14	249
AUG.									
14...	1255	349	21.0	33	41	16	120	15	260
SEPT.									
20...	1040	236	17.5	35	40	15	130	17	286

HUMBOLDT RIVER BASIN

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10335000 HUMBOLDT RIVER NEAR RYE PATCH, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.									
19...	16	86	150	1.0	.03	.00	.03	.35	.03
NOV.									
28...	16	90	150	--	--	--	--	--	.02
DEC.									
27...	19	86	150	--	--	--	--	--	.00
JAN.									
25...	11	86	160	.9	.00	.00	.06	.33	.00
FEB.									
28...	13	92	160	--	--	--	--	--	.00
MAR.									
20...	0	89	160	--	--	--	--	--	.00
APR.									
18...	0	91	160	1.0	.00	.01	.07	.53	.00
MAY									
16...	0	78	120	--	--	--	--	--	.01
JUNE									
13...	0	71	98	--	--	--	--	--	.01
JULY									
18...	18	70	92	.8	.04	.01	.16	.37	.05
AUG.									
14...	17	66	88	--	--	--	--	--	.00
SEP.									
20...	10	71	89	--	--	--	--	--	.00

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AU- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT.								
19...	.02	.07	656	484	170	4.9	1090	8.7
NOV.								
28...	.03	--	674	40.0	170	6.1	1080	8.7
DEC.								
27...	.03	--	659	33.8	170	5.3	1080	8.5
JAN.								
25...	.02	.07	666	36.0	170	5.3	1110	8.6
FEB.								
28...	.04	--	675E	31.0E	--	--	1140	8.5
MAR.								
20...	.02	--	667	30.6	170	5.3	1170	8.3
APR.								
18...	.06	.09	682	961	180	5.9	1120	8.3
MAY								
16...	.06	--	581	1420	170	4.5	994	8.2
JUNE								
13...	.06	--	528	1080	170	3.7	897	8.3
JULY								
18...	.06	.15	517	169	160	3.7	872	8.4
AUG.								
14...	.07	--	524	494	170	4.0	845	8.5
SEP.								
20...	.10	--	548	349	160	4.5	880	8.5

E: ESTIMATED.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NEV.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	1060	1090	1090	1090	1090	1100	---	912	895	970	852
2	1040	1050	1060	1090	1080	1110	1100	---	912	877	942	853
3	1040	1060	1040	1090	1090	1090	1110	1020	911	876	942	853
4	1050	1060	1080	1090	1090	1110	1110	1020	911	870	942	852
5	1050	1060	1070	1090	1100	1110	1110	1020	896	866	933	852
6	1040	1060	1070	1090	1100	1100	1100	1020	903	876	942	852
7	1040	1070	1070	1090	1100	1100	1120	1010	898	868	933	854
8	1000	1070	1060	1090	1090	1090	1110	1010	896	864	961	854
9	1050	1060	1060	1090	1090	1110	1110	1020	888	864	933	850
10	1050	1080	1090	1090	1090	1110	1100	1010	888	880	942	851
11	1060	1070	1090	1100	1090	1060	1100	995	883	880	925	852
12	1060	1060	1060	1090	1080	1100	1100	992	883	870	925	853
13	1060	1070	1060	1090	1060	1100	1100	990	884	870	951	867
14	1060	1070	1070	1090	1100	1100	1100	986	884	866	951	866
15	1050	1060	1070	1100	1100	1110	1100	981	883	866	933	867
16	1050	1060	1080	1090	1100	1100	1100	977	883	869	942	865
17	1060	1050	1080	1090	1100	1090	1100	959	883	866	933	867
18	1060	1060	1080	1100	1090	1100	1100	943	887	867	933	867
19	1060	1060	1080	1090	1090	1100	1100	945	884	877	942	867
20	1060	1060	1080	1090	1070	1090	1100	956	884	863	933	864
21	1060	1060	1080	1100	1070	1100	1090	945	882	853	951	867
22	1060	1060	1080	1100	1090	1100	1090	937	875	850	925	866
23	1060	1060	1090	1090	1100	1100	1090	934	880	851	951	865
24	1060	1060	1080	1100	1110	1090	1080	940	882	864	933	864
25	1060	1040	1080	1090	1100	1100	1080	935	882	864	961	866
26	1060	1060	1080	1090	1120	1110	1060	931	881	864	951	866
27	1060	1040	1080	1090	1120	1090	1040	933	871	851	951	867
28	1060	1060	1080	1090	1120	1100	1040	928	872	857	942	867
29	1060	1060	1080	1100	---	1090	1020	927	868	856	942	866
30	1060	1050	1080	1100	---	1100	1020	925	875	854	942	869
31	---	---	1080	1100	---	1100	---	920	---	857	951	---
MONTH	1050	1060	1080	1090	1090	1100	1090	969	887	866	942	861
YEAR	MAX	1120	MIN	850	MEAN	1010						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

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

10346000 TRUCKEE RIVER AT FARAD, CALIF.
(Irrigation network station)

LOCATION.--Lat 39°25'41", long 120°01'59", in NE¼ sec.12, T.18 N., R.17 E., Nevada County, at gaging station 0.7 mile (1.1 km) downstream from Farad hydroelectric powerplant, 2.5 miles (4.0 km) north of Floriston, and 3.5 miles (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 sq mi (2,400 sq km).

PERIOD OF RECORD.--Chemical analyses: January 1964 to September 1973 (published as Truckee River at Floriston, Calif., sta. no. 10345900, Jan. 1964 to Sept. 1971).

Water temperatures: January 1964 to September 1973 (see note above).

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 130 micromhos Mar. 1; minimum daily, 58 micromhos May 30.

Water temperature: Maximum daily, 20.0°C Aug. 5, 8; minimum daily, 0.5°C Dec. 12.

Period of record:

Specific conductance (1964-66, 1967-73): Maximum, 141 micromhos Feb. 3, 1964; minimum, 39 micromhos Dec. 23, 1964.

Water temperature: Maximum, 21.0°C Aug. 2, 6, 1971; minimum, freezing point on several days during winter months of most years.

REMARKS.--Water quality at this site is considered comparable with that of station 10345900, Truckee River at Floriston, which was operated 2.5 miles (4.0 km) upstream from present site from January 1964 through September 1971. Daily specific-conductance and temperature data are collected at Farad powerplant, 0.7 mile (1.1 km) upstream from gage.

WATER QUALITY DATA. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT. 18...	1325	442	11.0	14	9.0	2.8	5.9	1.6	46
NOV. 21...	1500	387	4.0	16	11	3.1	7.4	2.0	56
DEC. 18...	1210	817	4.0	14	8.0	2.5	4.9	1.6	44
JAN. 26...	1400	500	3.0	18	11	3.2	6.1	1.4	52
FEB. 21...	1330	426	4.0	17	10	3.3	6.4	1.4	57
MAR. 22...	1040	520	2.5	17	12	3.5	10	2.3	59
APR. 20...	1115	693	5.5	19	9.6	3.0	6.4	1.5	50
MAY 22...	1115	1220	8.0	17	6.8	1.7	6.0	1.4	34
JUNE 25...	1140	695	--	18	8.3	2.4	6.9	2.0	46
JULY 23...	1130	782	16.0	16	8.9	2.9	6.3	1.7	51
AUG. 23...	1200	791	14.0	15	9.1	2.8	5.0	1.7	48
SEP. 24...	1400	745	14.0	14	8.9	2.4	5.6	1.6	49

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.									
18...	0	5.2	6.0	--	--	--	--	--	.05
NOV.									
21...	0	5.5	4.2	.0	.03	.00	.03	.04	.03
DEC.									
18...	0	2.7	4.0	--	--	--	--	--	.13
JAN.									
26...	0	4.1	6.2	--	--	--	--	--	.13
FEB.									
21...	0	5.0	6.3	.0	.05	.00	.03	.13	.05
MAR.									
22...	0	6.2	10	--	--	--	--	--	.03
APR.									
20...	0	5.5	7.6	--	--	--	--	--	.10
MAY									
22...	0	2.7	2.8	.1	.03	.01	.03	.30	.04
JUNE									
25...	0	2.4	2.7	--	--	--	--	--	.01
JULY									
23...	0	4.9	--	--	--	--	--	--	.03
AUG.									
23...	0	3.3	2.2	.1	.03	.00	.01	.20	.03
SEP.									
24...	0	3.4	2.7	--	--	--	--	--	.02

DATE	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
OCT.								
18...	.01	--	67	80.0	34	.4	105	8.0
NOV.								
21...	.00	.03	77	80.5	40	.5	107	7.1
DEC.								
18...	.01	--	60	132	30	.4	87	7.4
JAN.								
26...	.00	--	76	103	41	.4	107	7.7
FEB.								
21...	.01	.05	78	89.7	39	.4	112	8.0
MAR.								
22...	.01	--	90	126	44	.7	137	7.6
APR.								
20...	.01	--	78	146	36	.5	118	7.9
MAY								
22...	.01	.06	55	181	24	.5	67	7.7
JUNE								
25...	.00	--	65	122	31	.6	84	8.1
JULY								
23...	.00	--	70E	150E	34	.5	93	8.0
AUG.								
23...	.00	.31	63	135	34	.4	92	8.0
SEP.								
24...	.03	--	63	127	32	.4	94	7.4

E: ESTIMATED.

PYRAMID AND WINNEMUCCA LAKES BASIN

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10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	102	103	---	105	130	110	---	60	81	92	90
2	105	102	102	99	100	120	112	---	61	---	92	89
3	92	102	101	97	100	119	107	76	63	85	92	86
4	98	95	101	---	103	121	---	75	63	86	94	87
5	91	102	99	98	106	123	109	80	63	88	92	86
6	89	103	98	96	---	115	---	83	61	87	92	84
7	91	100	---	---	---	121	---	81	61	---	93	84
8	90	102	---	---	115	108	---	75	63	88	93	86
9	91	101	---	95	106	107	---	73	71	88	93	88
10	90	102	---	97	107	110	---	74	72	87	94	---
11	91	102	---	101	102	114	---	69	71	87	93	84
12	90	101	98	---	104	113	---	66	69	86	94	85
13	---	102	---	91	112	113	92	62	70	89	94	85
14	96	104	---	---	112	113	94	61	72	87	96	84
15	96	104	---	---	108	110	92	62	74	86	95	84
16	97	103	91	106	107	111	---	60	75	86	94	85
17	98	105	97	100	110	112	95	60	77	86	94	85
18	98	106	83	100	111	109	95	---	79	88	92	85
19	98	106	80	97	110	109	---	---	78	88	92	86
20	96	111	85	---	110	113	97	62	78	89	---	86
21	96	104	---	97	---	110	92	---	80	89	---	86
22	95	104	92	105	---	110	91	67	77	90	91	---
23	96	106	---	101	114	110	91	63	77	---	---	---
24	96	105	93	---	---	112	85	62	77	90	91	85
25	97	102	94	---	123	110	85	60	76	90	90	85
26	99	104	93	104	116	110	84	64	78	90	90	87
27	97	102	98	107	122	111	---	66	81	92	91	88
28	102	101	97	100	---	113	---	65	77	91	93	90
29	102	100	---	103	---	117	78	62	77	91	96	90
30	100	101	---	98	---	114	---	58	77	91	93	91
31	100	---	---	100	---	111	---	59	---	91	94	---
MONTH	96	103	---	---	109	114	---	67	72	88	93	86
YEAR	MAX	130	MIN	58	MEAN	93						

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
RANDOM (INSTANTANEOUS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	7.0	3.0	---	1.5	4.0	4.5	---	10.0	14.5	18.0	14.5
2	12.5	7.5	3.5	2.0	4.0	3.5	3.5	---	9.5	---	17.5	10.5
3	10.5	8.0	4.5	2.0	3.5	3.0	4.5	6.0	10.0	15.0	17.0	14.5
4	13.0	8.0	4.5	---	3.5	2.5	---	6.0	11.0	17.0	17.5	14.5
5	12.0	7.0	1.0	1.0	3.5	2.5	8.0	5.0	12.0	15.0	20.0	12.0
6	13.0	6.0	1.0	2.0	---	4.0	---	8.0	12.0	14.0	16.5	12.0
7	11.0	7.5	---	---	---	4.0	---	9.0	11.5	---	19.5	11.0
8	11.0	7.0	---	---	3.5	4.0	---	7.0	15.0	17.0	20.0	11.0
9	12.0	6.0	---	1.5	5.0	4.0	---	8.0	12.0	15.5	17.5	11.0
10	11.0	6.0	---	3.0	4.0	4.5	---	9.0	12.0	15.5	15.0	---
11	11.0	6.0	---	3.5	2.5	4.0	---	10.0	12.5	15.5	17.0	14.0
12	11.5	5.5	0.5	---	3.0	5.0	---	9.0	12.0	15.0	18.0	14.0
13	---	5.5	---	4.0	3.0	4.0	5.0	7.0	12.0	16.0	17.0	11.5
14	9.0	4.5	---	---	3.0	3.0	5.0	7.0	11.0	15.0	19.5	12.5
15	9.0	5.5	---	---	3.5	2.5	5.0	9.5	10.5	15.5	18.0	11.0
16	9.5	7.0	3.0	4.0	3.0	5.0	---	8.0	9.0	17.5	18.0	11.0
17	9.5	7.0	5.0	2.5	2.5	3.0	7.0	7.5	11.0	17.0	18.0	14.5
18	9.0	5.5	4.5	2.0	2.0	5.5	5.0	---	8.5	17.0	18.0	12.0
19	9.0	5.5	4.5	2.0	2.0	5.5	---	---	12.0	17.0	15.0	13.0
20	9.0	4.0	4.0	---	2.5	5.5	5.0	8.0	15.0	18.0	---	14.0
21	8.5	3.5	---	2.0	---	4.0	8.0	---	11.5	15.5	---	12.0
22	9.5	5.0	3.0	1.5	---	3.0	6.0	11.0	12.0	15.5	15.0	13.0
23	8.5	2.0	---	2.0	4.5	5.0	10.0	9.5	10.5	---	---	---
24	8.0	3.0	4.0	---	---	4.0	7.5	9.0	10.5	18.0	13.0	---
25	7.0	5.0	2.0	---	3.5	5.0	9.0	8.0	11.0	16.0	14.0	13.0
26	7.5	5.5	3.0	3.0	4.0	6.0	7.5	8.0	14.0	16.5	13.5	13.0
27	8.0	6.0	2.5	1.0	3.0	6.5	---	9.5	13.5	18.5	13.0	14.5
28	7.5	4.5	2.0	2.0	---	3.5	---	11.5	14.0	19.0	13.5	12.0
29	6.0	5.0	---	2.0	---	4.0	5.5	13.0	14.0	18.5	13.0	15.0
30	4.0	5.0	---	3.5	---	5.5	---	11.0	13.5	17.5	15.0	11.5
31	5.0	---	---	3.5	---	6.5	---	11.0	---	17.0	14.0	---
MONTH	9.5	5.5	---	---	3.0	4.5	---	8.5	12.0	16.5	16.5	12.5
YEAR	MAX	20.0	MIN	0.5	MEAN	9.0						

PYRAMID AND WINNEMUCCA LAKES BASIN

10351650 TRUCKEE RIVER AT WADSWORTH, NEV.

LOCATION.--Lat 39°38'19", long 119°16'09", in SW¼SW¼ sec.34, T.21 N., R.24 E., Washoe County, temperature recorder at gaging station on right bank, 0.5 mile (0.8 km) downstream from U.S. Highway 40 bridge, and 0.2 mile (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,719 sq mi (4,450 sq km).

PERIOD OF RECORD.--Water temperatures: July 1965 to September 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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

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EXTREMES.--1972-73:

Period of record:

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NEV.
(National stream quality accounting network station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW¼NW¼ sec.18, T.22 N., R.24 E., Washoe County, 1 mile (1 km) upstream from Pyramid Indian Reservation diversion dam, 4 miles (6 km) south of Nixon, and 13 miles (21 km) upstream from mouth.

DRAINAGE AREA.--1,815 sq mi (4,701 sq km).

PERIOD OF RECORD.--Chemical analyses: January 1969 to September 1973 (data prior to January 1973 are unpublished).

Water temperatures: December 1964 to September 1973.

Sediment records: December 1964 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 757 micromhos Dec. 7; minimum, 136 micromhos May 16.

Water temperature: Maximum, 23.5°C Aug. 21; minimum, 0.0°C Jan. 4.

Suspended-sediment concentration: Maximum, 1,460 mg/l Jan. 17; minimum, 7 mg/l Nov. 2, June 20, Aug. 22.

Period of record:

Specific conductance: Maximum, 900 micromhos Dec. 15, 1969; minimum, 96 micromhos May 17 and June 1, 1969.

Water temperature: Maximum, 25.5°C July 27, 1971; minimum, 0.0°C Jan. 4, 1973.

Suspended-sediment concentration: Maximum, 2,530 mg/l Mar. 17, 1967; minimum, 2 mg/l several times during period of record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)
JAN. 17...	1300	1540	4.0	18	13	4.3	18	3.2	73	0	21
FEB. 15...	1100	618	5.5	23	22	9.0	42	4.9	132	0	37
MAR. 15...	1100	628	5.0	19	17	5.9	21	2.7	88	0	21
APR. 18...	1210	904	9.0	22	14	4.8	16	2.5	66	0	15
MAY 16...	1345	1430	17.0	20	11	3.3	9.6	2.2	53	0	11
JUNE 20...	1230	369	20.0	19	18	6.3	21	3.2	96	0	20
JULY 17...	1230	300	22.0	22	20	7.4	22	3.9	105	0	24
AUG. 22...	1005	286	19.5	18	20	7.7	22	4.0	104	0	26
SEP. 19...	1310	314	17.5	19	19	7.0	23	3.6	96	0	24

10351700 TRUCKEE RIVER NEAR NIXON, NEV.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JAN. 17...	17	.2	.51	.01	--	1.8	--	1.2	.16	--	.92
FEB. 15...	41	.3	.52	.02	--	.19	--	.58	.21	--	.34
MAR. 15...	23	.2	.35	.01	--	.17	--	.33	.15	--	.20
APR. 18...	14	.1	.33	.01	--	.11	--	.43	.17	--	.25
MAY 16...	10	.0	.29	.03	--	.07	--	.65	.13	--	.30
JUNE 20...	17	.2	.26	.03	--	.05	--	.50	.23	--	.31
JULY 17...	21	.1	.42	.05	--	.03	--	.63	.27	--	.39
AUG. 22...	18	.1	.29	.03	--	.01	--	.70	.28	--	.35
SEP. 19...	18	.2	.36	.04	.05	.08	.34	.40	.30	.33	.41

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
JAN. 17...	--	136	565	50	1.1	208	7.0	300	--	--
FEB. 15...	--	250	417	92	1.9	423	7.6	20	4	--
MAR. 15...	--	157	266	67	1.1	265	7.9	5	0	2
APR. 18...	--	124	303	55	.9	191	7.9	20	6	40
MAY 16...	6.5	96	371	41	.7	136	7.7	30	TNTC*	B280*
JUNE 20...	--	154	153	71	1.1	246	7.9	1	B30**	170**
JULY 17...	6.0	175	142	80	1.1	278	7.7	10	B25	100
AUG. 22...	--	168	130	82	1.1	271	8.1	1	8***	21***
SEP. 19...	2.5	163	138	76	1.1	271	7.9	4	6	21

* COLLECTED MAY 17, 1450 HR.; WATER TEMP. 17.5°C.

** COLLECTED JUNE 27, 1105 HR.; WATER TEMP. 23.5°C.

*** COLLECTED AT 1410 HR; WATER TEMP. 21.5°C.

B: NON-IDEAL COLONY COUNT.

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
MAY 16...	1345	4000	60	180	20	--	--	0	1	0	0	<20
JULY 17...	1230	750	60	80	10	10	10	0	1	0	0	<25
SEP. 19...	1310	330	70	30	24	8	4	<10	0	0	0	0

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SF) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAY 16...	0	--	6	<100	1	.6	.1	2	2	30	20
JULY 17...	1	20	0	<50	2	.1	.0	2	0	60	10
SEP. 19...	0	<10	2	<50	13	.1	.1	5	4	50	50

BENTHIC INVERTEBRATES^{1/}

DATE IN	DATE OUT	RANGE OF WATER DEPTH (FT)	ORGANISMS
73 04 18	73 05 16	0.1-1.8	8 EPHEMEROPTERA, 3 CHIRONOMIDAE
73 04 18	73 06 20	1(?) - 4.3	3 ZYGOTERA
73 08 22	73 10 17	0.4-1.6	4 COENAGRIONIDAE, 1 CHIRONOMIDAE

1. COLLECTED FROM MULTIPLE-PLATE ARTIFICIAL SUBSTRATE OFF RIGHT
STREAM BANK.

PHYTOPLANKTON

DATE	CODOMINANTS, AND PERCENTAGE OF TOTAL CELLS	TOTAL CELLS/ML
73 01 17	FRAGILARIA, 24%; CYCLOTELLA, 17%	740
73 02 15	FRAGILARIA, 30%; MELOSIRA, 19%; NAVICULA, 19%	6,200
73 03 15	CYCLOTELLA, 31%; NAVICULA, 27%	2,400
73 04 18	NAVICULA, 28%; FRAGILARIA, 16%	4,400
73 05 16	NAVICULA, 35%; FRAGILARIA, 18%	8,400
73 06 20	MELOSIRA, 16%	3,800
73 07 17	SCENEDESMUS, 25%	7,500
73 08 22	MELOSIRA, 36%; NAVICULA, 15%	4,600
73 09 19	MELOSIRA, 32%; NAVICULA, 16%	4,000

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	AIR TEMP- ERATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	FIELD PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
MAY							
15...	1400	27.0	19.0	1530	--	8.1	8.0
15...	1500	24.5	19.0	1570	--	8.0	7.8
15...	1630	27.5	18.0	1630	142	8.0	7.6
15...	1800	27.0	18.0	1600	140	8.0	7.8
15...	1930	23.5	17.0	1570	135	8.0	7.6
15...	2100	20.0	16.0	1530	128	8.0	7.6
15...	2300	16.5	15.5	1480	127	7.9	7.4
16...	0100	18.0	14.5	1420	126	8.2	7.4
16...	0300	15.0	13.5	1370	128	8.2	7.7
16...	0500	10.0	13.5	1310	131	8.2	7.9
16...	0600	9.5	13.0	1300	131	8.2	7.9
16...	0800	18.5	13.5	1310	131	8.0	8.0
16...	1000	23.0	14.0	1350	131	8.0	8.2
16...	1200	28.5	15.5	1410	133	8.0	8.3
16...	1400	35.0	17.0	1490	130	7.9	8.4
AUG.							
21...	1415	29.5	23.5	380	--	9.2	10.6
21...	1950	26.0	23.0	360	246	9.1	9.4
21...	2200	22.5	22.0	346	242	8.9	7.9
21...	2350	20.0	21.0	325	246	8.7	7.0
22...	0215	18.0	20.0	284	256	8.4	6.5
22...	0415	15.5	19.5	281	264	8.1	6.3
22...	0610	12.0	19.0	278	272	7.9	6.3
22...	0810	17.5	18.5	284	273	8.0	6.7
22...	1000	25.5	19.0	287	271	8.5	8.6
22...	1200	30.5	20.5	284	272	8.8	10.6
22...	1345	31.5	21.5	339	270	9.0	11.9
22...	1615	34.5	22.5	384	262	9.2	12.1
22...	1755	31.0	23.0	380	252	8.7	11.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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PYRAMID AND WINNEMUCCA LAKES BASIN

10347800 PEAVINE CREEK NEAR RENO, NEV. (LAT 39°32'35", LONG 119°51'55")

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)
JAN. 17...	1630	.02	3.5	23	23	6.1	12	2.4	37	0

DATE	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	LAB PH (UNITS)
JAN. 17...	83	3.0	.16	171	.01	83	.8	236	7.1

DATE	TIME	DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDIMENT DISCHARGE (T/DAY)
JAN. 17...	1630	.02	3.5	697	.04
JAN. 18...	1230	.00	--	469	.00
FEB. 21...	0940	.16	5.5	189	.08
FEB. 27...	1640	.18	6.5	148	.07
FEB. 28...	1500	.70	10.0	241	.46
MAR. 08...	1030	.08	6.0	494	.11
MAR. 20...	1030	.01	7.0	84	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

09420600 LAKE MEAD AT ICEBERG CANYON, ARIZ.-NEV.
(RIVER MILE 287.5) (LAT 36°11', LONG 114°04')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
14...	0	18.0	150	980	7.4	10.3
14...	10	18.0	143	980	8.4	9.8
14...	30	18.0	143	980	8.3	10.2

09420650 LAKE MEAD AT SANDY POINT, ARIZ.
(RIVER MILE 295.0) (LAT 36°07', LONG 114°07')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
13...	0	18.5	140	990	7.9	8.8
13...	10	18.5	150	990	8.2	8.8
13...	25	18.5	139	990	8.5	8.6
13...	75	18.0	139	990	8.4	8.5
13...	125	15.5	152	990	8.4	9.0
13...	175	14.5	152	980	8.4	9.6

09420700 LAKE MEAD AT VIRGIN CANYON, ARIZ.-NEV.
(RIVER MILE 305.3) (LAT 36°16', LONG 114°24')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
13...	0	18.5	148	1000	8.1	8.1
13...	10	18.5	148	1000	8.2	8.0
13...	25	18.5	140	1000	8.4	8.0
13...	75	18.5	140	1000	8.3	8.0
13...	125	16.5	140	990	8.4	7.8
13...	175	14.0	148	1000	8.2	6.8
13...	225	12.5	158	1010	7.9	6.0
13...	275	12.0	156	1050	8.1	6.0

09420750 LAKE MEAD NEAR OVERTON BEACH, NEV.
(RIVER MILE 27.5) (LAT 36°27', LONG 114°21')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
20...	0	15.5	129	1130	7.3	9.1
20...	5	15.0	132	1130	8.3	9.0

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

09420800 LAKE MEAD AT OVERTON ISLANDS, NEV.
(RIVER MILE 9.5) (LAT 36°01', LONG 114°12')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
20...	0	18.0	130	1030	7.8	8.2
20...	10	17.0	130	1030	8.1	8.2
20...	25	17.0	130	1030	8.2	8.4
20...	75	17.0	130	1030	8.2	8.1
20...	125	17.0	138	1080	8.1	7.2
20...	175	14.0	138	1060	7.8	4.1
20...	225	12.5	138	1040	7.8	5.6
20...	260	12.0	130	1060	7.8	5.6

09420850 LAKE MEAD AT BOULDER CANYON, ARIZ.-NEV.
(RIVER MILE 334.6) (LAT 36°08', LONG 114°37')*

DATE	DEPTH (FT)	TEMPER- ATURE WATER (°C)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	DISSOLVED OXYGEN (MG/L)
NOV.						
15...	0	19.0	135	1050	7.6	7.4
15...	10	19.0	142	1040	7.9	7.2
15...	25	18.5	135	1040	8.0	7.4
15...	75	18.5	133	1040	7.9	7.2
15...	125	16.5	142	1040	7.8	5.0
15...	175	13.5	142	1070	7.7	5.4
15...	225	12.5	140	1060	7.8	6.2
15...	275	12.5	140	1060	7.8	6.4
15...	325	12.0	140	1070	7.8	6.2
15...	380	12.0	142	1070	7.8	6.1

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WALKER LAKE AND CARSON RIVER BASINS

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
10293000 E WALKER R NR BRIDGEPORT CALIF (LAT 38°19'40" LONG 119°12'50")*								
APR. 19...	1430	202	5.5	21	4.7	22	112	0
SEP. 25...	1300	144	13.0	25	4.7	13	115	0
10296000 W WALKER R BELOW LITTLE WALKER R NR COLEVILLE CALIF (LAT 38°22'45" LONG 119°29'00")*								
APR. 19...	1530	230	9.0	11	2.1	5.8	53	0
SEP. 25...	1200	64	9.5	15	4.3	12	79	0
10305500 EF CARSON R NR MARKLEEVILLE CALIF (LAT 38°41'20" LONG 119°45'44")*								
APR. 19...	1130	E75	4.5	12	4.1	8.2	62	0
SEP. 25...	1030	E40	9.0	12	3.6	9.4	65	0
10310000 WF CARSON R AT WOODFORDS CALIF (LAT 38°46'10" LONG 119°49'55")*								
APR. 19...	1000	149	1.5	6.3	1.6	3.2	30	0
SEP. 25...	0945	45	7.0	9.4	2.8	4.0	46	0

* DATA FROM CALIF. DEPT. OF WATER RESOURCES.
E ESTIMATED.

WALKER LAKE AND CARSON RIVER BASINS

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	FIELD PH (UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
10293000 E WALKER R NR BRIDGEPORT CALIF (LAT 38°19'40" LONG 119°12'50")*								
APR. 19...	3.9	--	72	1.1	233	8.0	3	10.5
SEP. 25...	1.3	136	82	.6	212	7.7	25	8.1
10296000 W WALKER R BELOW LITTLE WALKER R NR COLEVILLE CALIF (LAT 38°22'45" LONG 119°29'00")*								
APR. 19...	.8	--	36	.4	100	7.9	0	10.0
SEP. 25...	2.2	79	55	.7	150	7.8	0	10.0
10305500 EF CARSON R NR MARKLEEVILLE CALIF (LAT 38°41'20" LONG 119°45'44")*								
APR. 19...	2.1	--	47	.5	129	7.7	3	11.2
SEP. 25...	7.0	82	45	.6	125	7.7	0	10.0
10310000 WF CARSON R AT WOODFORDS CALIF (LAT 38°46'10" LONG 119°49'55")*								
APR. 19...	.7	--	22	.3	57	7.1	1	11.9
SEP. 25...	1.7	53	35	.3	86	7.3	1	9.6

* DATA FROM CALIF. DEPT. OF WATER RESOURCES.

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