

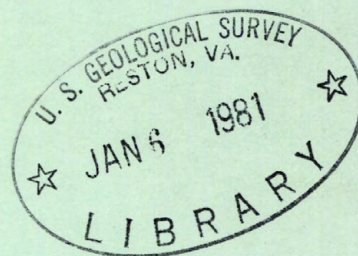
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1972

1972

# 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  
and with other agencies



# CALENDAR FOR WATER YEAR 1972

## OCTOBER 1971

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

## NOVEMBER 1971

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 |    |    |    |    |

## DECEMBER 1971

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

## JANUARY 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

## FEBRUARY 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 |    |    |    |    |

## MARCH 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

## APRIL 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |    |    |    |    |    |    |

## MAY 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |    |    |    |

## JUNE 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

## JULY 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

## AUGUST 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

## SEPTEMBER 1972

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |    |    |    |    |    |    |



1972

# **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  
and with other agencies







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

1973





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FOR WHICH RECORDS ARE PUBLISHED

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X WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,  
FOR WHICH RECORDS ARE PUBLISHED

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

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## WATER RESOURCES DATA FOR NEVADA, 1972

### PART 1. SURFACE-WATER RECORDS

### PART 2. WATER-QUALITY RECORDS

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## INTRODUCTION

Water resources data for the 1972 water year for Nevada including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and data on the chemical and physical characteristics of surface water, are given in this report. Locations of streamflow and reservoir gaging stations are shown in figures 2 and 3, crest-stage partial-record stations in figure 4, and water-quality stations in figure 5. Records for a few pertinent gaging and water-quality stations in bordering States are also included. 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, Patrick A. Glancy, Lynn Harmsen, Orvil C. Kamm, Terrance L. Katzer, David L. Kresch, Jerry D. Larson, Lane K. Nalder, Gregory L. Pope, Carroll V. Schroer, A. S. Van Denburgh, and Mark W. White. 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.

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.

Organizations that supplied data are acknowledged in station descriptions.

## DEFINITION OF TERMS

Definition of terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

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 325,851 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, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

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 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. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Dissolved-solids content of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totalling 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 obtained.

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 ( $\text{CaCO}_3$ ).

Micrograms per liter (mg/l, MG/L) is a precise unit for expressing the very small concentrations of chemical constituents in solution. 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 in solution. Milligrams per liter represents the weight of solute 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 expressed in milligrams per liter is based on the weight of sediment in a 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 continuous- or partial-record stations 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.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by sieve and sedimentation methods.

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:

|         |                             |
|---------|-----------------------------|
| Clay:   | Smaller than 0.004 mm.      |
| Silt:   | Between 0.004 and 0.062 mm. |
| Sand:   | Between 0.062 and 2.0 mm.   |
| Gravel: | Between 2.0 and 64.0 mm.    |

The particle-size distributions given in this report are not necessarily representative of the particle sizes of sediment in transport in the natural 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.

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

| Ion                                               | Multi-<br>ply by | Ion                                            | Multi-<br>ply by |
|---------------------------------------------------|------------------|------------------------------------------------|------------------|
| Aluminum (Al <sup>+3</sup> )*.....                | 0.11119          | Iodide (I <sup>-1</sup> ).....                 | 0.00788          |
| Ammonia as NH <sub>4</sub> <sup>+1</sup> .....    | .05544           | Iron (Fe <sup>+3</sup> )*.....                 | .05372           |
| Barium (Ba <sup>+2</sup> ).....                   | .01456           | Lead (Pb <sup>+2</sup> )*.....                 | .00965           |
| Bicarbonate (HCO <sub>3</sub> <sup>-1</sup> ).... | .01639           | Lithium (Li <sup>+1</sup> )*.....              | .14411           |
| Bromide (Br <sup>-1</sup> ).....                  | .01251           | Magnesium (Mg <sup>+2</sup> ).....             | .08226           |
| Calcium (Ca <sup>+2</sup> ).....                  | .04990           | Manganese (Mn <sup>+2</sup> )*....             | .03640           |
| Carbonate (CO <sub>3</sub> <sup>-2</sup> ).....   | .03333           | Nickel (Ni <sup>+2</sup> )*.....               | .03406           |
| Chloride (Cl <sup>-1</sup> ).....                 | .02821           | Nitrate (NO <sub>3</sub> <sup>-1</sup> ).....  | .01613           |
| Chromium (Cr <sup>+6</sup> )*.....                | .11539           | Nitrite (NO <sub>2</sub> <sup>-1</sup> ).....  | .02174           |
| Cobalt (Co <sup>+2</sup> )*.....                  | .03394           | Phosphate (PO <sub>4</sub> <sup>-3</sup> ).... | .03159           |
| Copper (Cu <sup>+2</sup> )*.....                  | .03148           | Potassium (K <sup>+1</sup> ).....              | .02557           |
| Cyanide (CN <sup>-1</sup> ).....                  | .03844           | Sodium (Na <sup>+1</sup> ).....                | .04350           |
| Fluoride (F <sup>-1</sup> ).....                  | .05264           | Strontium (Sr <sup>+2</sup> )*....             | .02283           |
| Hydrogen (H <sup>+1</sup> ).....                  | .99209           | Sulfate (SO <sub>4</sub> <sup>-2</sup> ).....  | .02082           |
| Hydroxide (OH <sup>-1</sup> ).....                | .05880           | Zinc (Zn <sup>+2</sup> ).....                  | .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)

| Range of<br>concentration<br>in 1000<br>mg/l | Di-<br>vide<br>by | Range of<br>concentration<br>in 1000<br>mg/l | Di-<br>vide<br>by | Range of<br>concentration<br>in 1000<br>mg/l | Di-<br>vide<br>by | Range of<br>concentration<br>in 1000<br>mg/l | Di-<br>vide<br>by |
|----------------------------------------------|-------------------|----------------------------------------------|-------------------|----------------------------------------------|-------------------|----------------------------------------------|-------------------|
| 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.

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 or mostly 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."

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.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes.

#### DOWNSTREAM ORDER AND STATION NUMBERS

Records 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 indentation, each indentation 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. 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.

## SURFACE WATER RECORDS

Collection and Computation of Data

The base 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 base 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 determined 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 determining discharge. Information required for determining 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 determining 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 of 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.

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 cfs (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 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. 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, Washington, D. C. 20244, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

## 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, 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. Water-temperature data represent single instantaneous 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).

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 and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

### Temperature

Water temperatures are measured at most of the water-quality 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, while 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 month.

### 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><br><u>year</u> | <u>WSP</u><br><u>No.</u> | <u>Water</u><br><u>year</u> | <u>WSP</u><br><u>No.</u> | <u>Water</u><br><u>year</u> | <u>WSP</u><br><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                        | a 2098                   |
| 1949                        | 1163                     | 1959                        | 1645                     | 1969                        | a 2148                   |
| 1950                        | 1189                     | 1960                        | 1745                     | 1970                        | a 2158                   |

a In press.

## HYDROLOGIC CONDITIONS

Streamflows for the water year were well above average in the Snake River basin, somewhat above average in the Humboldt River drainage, about eighty percent of average from the east slope of the Sierra Nevada, and in the Virgin River basin, and well below average in some minor basins.

Reservoir storage was generally well above average at the beginning and the close of the water year. Pyramid Lake showed no substantial gain or loss.

Thundershower activity, though scattered, produced some important peak flows.

Figure 1 on page 23, for which two long-term gaging stations are used, shows a comparison of the monthly and yearly mean discharges for the 1972 water year with the median discharge for the reference period 1931-60.

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PART 1. SURFACE WATER RECORDS



## HYDROLOGIC CONDITIONS

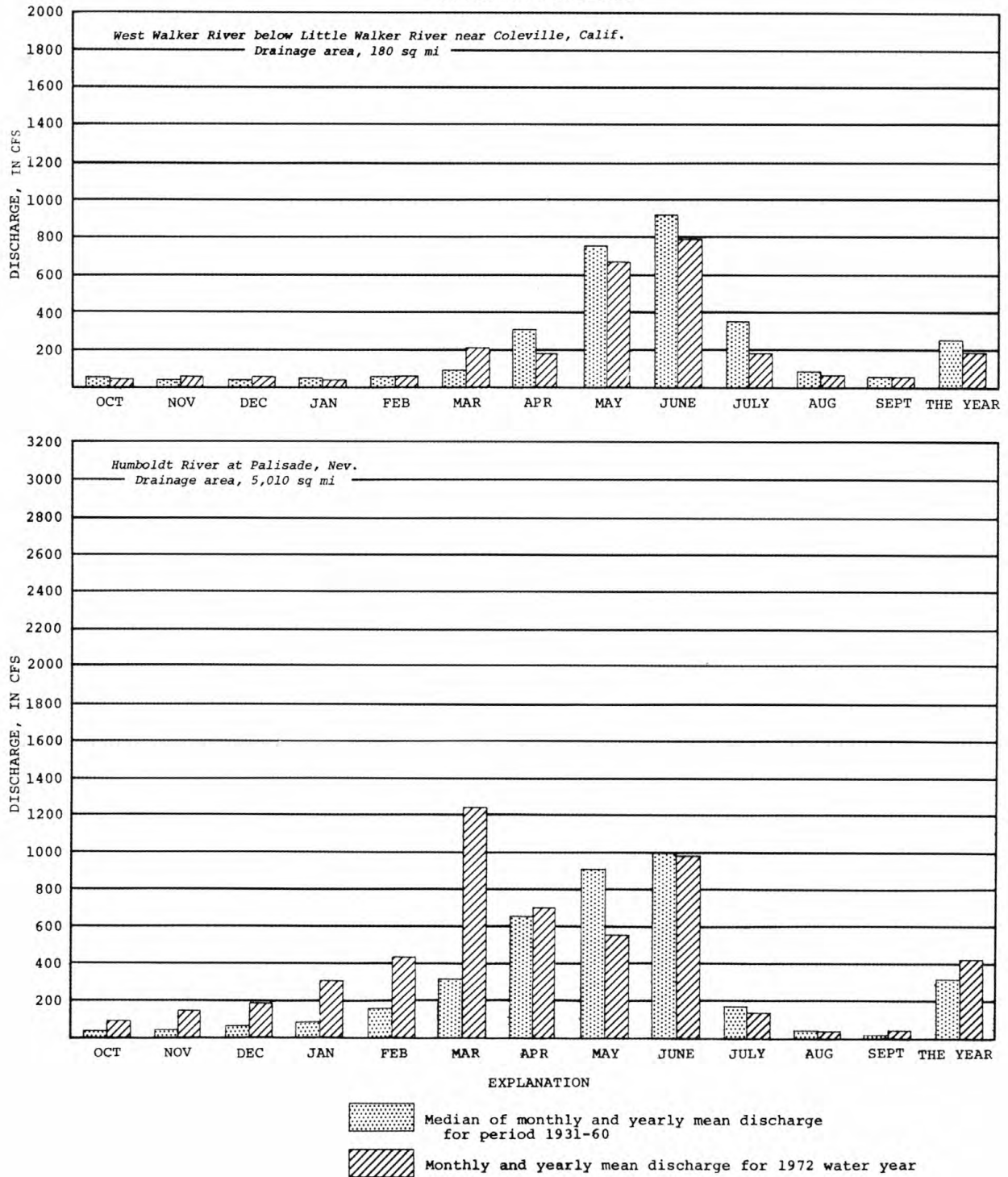


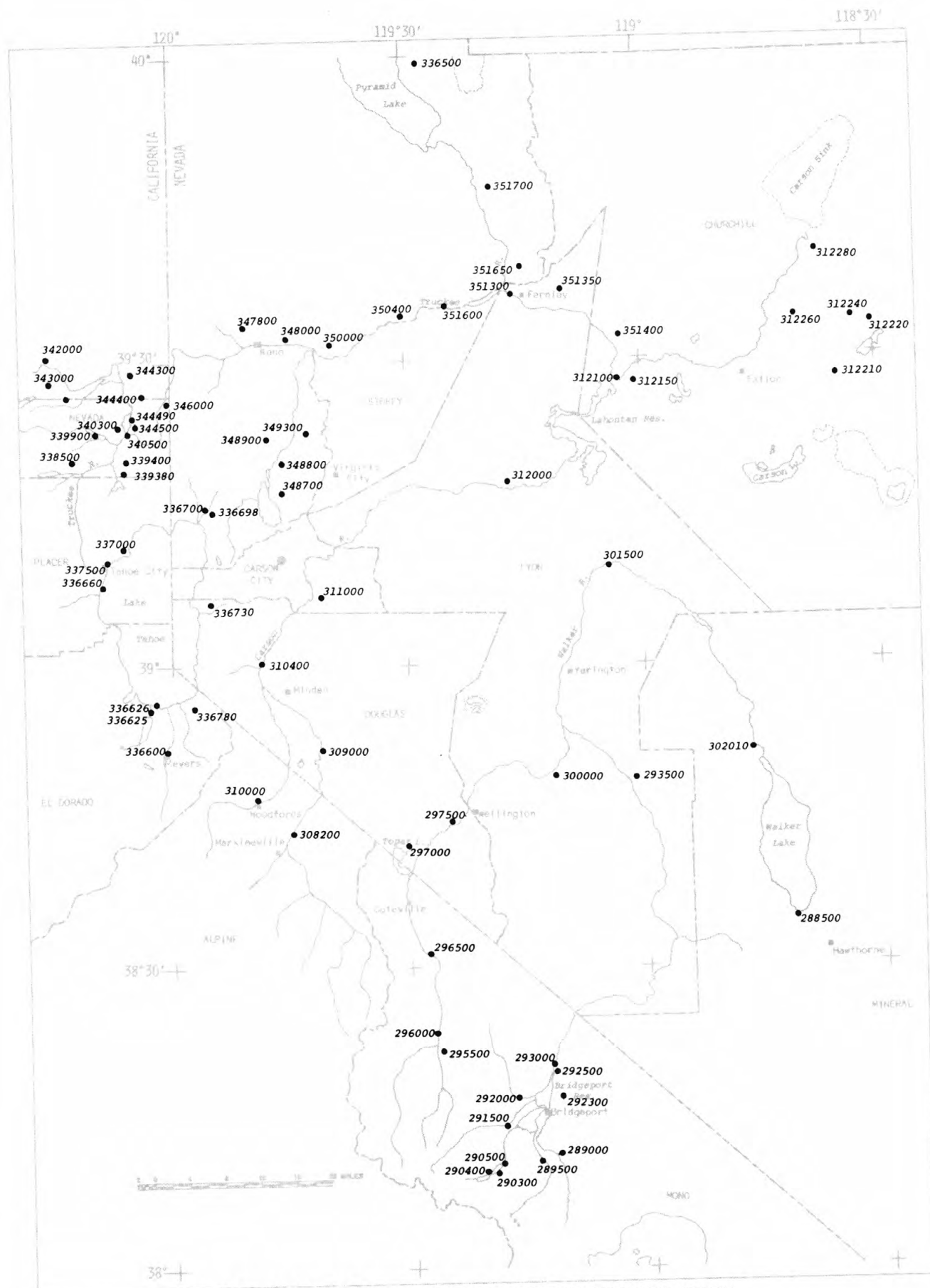
Figure 1.-Comparison of discharge at two long-term representative gaging stations during 1972 water year with median discharge for period 1931-60.















## VIRGIN RIVER BASIN

29

09415000 Virgin River at Littlefield, Ariz.

LOCATION.--Lat 36°53'30", long 113°55'25", in SW<sup>1</sup><sub>4</sub>SW<sup>1</sup><sub>4</sub> sec.4, T.40 N., R.15 W., Mohave County, on right bank 0.5 mile downstream from Beaver Dam Wash, 0.4 mile upstream from Littlefield, and 36 miles upstream from water line of Lake Mead at elevation 1,221 ft above mean sea level.

DRAINAGE AREA.--5,090 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft above mean sea level, datum of 1929. Prior to Oct. 1, 1970, at site 300 ft downstream at same datum. See 1970 Water Resources Data for Nevada for history of changes prior to Oct. 1, 1970.

AVERAGE DISCHARGE.--43 years, 223 cfs (161,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,180 cfs Dec. 25, Sept. 19 (gage-height, 11.80 ft); minimum daily, 52 cfs Apr. 11. Period of record: Maximum discharge, 35,200 cfs Dec. 6, 1966 (gage-height, 15.66 ft, site then in use), from rating curve extended above 1,500 cfs on basis of slope-area measurement of peak flow; minimum, 39 cfs Aug. 4, 6, 9, 1966.

REMARKS.--Records poor. Diversion above station for irrigation of about 23,200 acres. 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB   | MAR   | APR   | MAY   | JUN    | JUL   | AUG    | SEP    |
|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|-------|--------|--------|
| 1     | 69    | 206   | 135    | 234    | 140   | 120   | 60    | 62    | 60     | 65    | 58     | 94     |
| 2     | 69    | 189   | 130    | 226    | 140   | 125   | 60    | 64    | 60     | 88    | 60     | 82     |
| 3     | 71    | 176   | 170    | 212    | 140   | 100   | 82    | 66    | 60     | 100   | 56     | 75     |
| 4     | 71    | 169   | 160    | 182    | 163   | 85    | 94    | 64    | 60     | 75    | 56     | 77     |
| 5     | 71    | 173   | 150    | 173    | 150   | 90    | 75    | 62    | 60     | 90    | 56     | 69     |
| 6     | 71    | 169   | 135    | 179    | 155   | 100   | 66    | 64    | 162    | 65    | 56     | 73     |
| 7     | 73    | 163   | 130    | 173    | 166   | 120   | 62    | 64    | 175    | 60    | 56     | 98     |
| 8     | 71    | 163   | 130    | 157    | 160   | 135   | 62    | 60    | 343    | 56    | 56     | 84     |
| 9     | 71    | 169   | 125    | 157    | 155   | 150   | 60    | 60    | 131    | 58    | 56     | 60     |
| 10    | 73    | 163   | 116    | 154    | 150   | 145   | 58    | 60    | 111    | 65    | 56     | 58     |
| 11    | 80    | 154   | 149    | 151    | 150   | 135   | 52    | 60    | 118    | 91    | 55     | 58     |
| 12    | 77    | 151   | 149    | 151    | 154   | 125   | 54    | 58    | 126    | 89    | 60     | 58     |
| 13    | 75    | 154   | 163    | 157    | 150   | 115   | 56    | 56    | 131    | 60    | 300    | 56     |
| 14    | 75    | 140   | 149    | 160    | 155   | 108   | 64    | 54    | 124    | 55    | 600    | 58     |
| 15    | 84    | 143   | 146    | 160    | 160   | 98    | 80    | 54    | 116    | 55    | 1,000  | 60     |
| 16    | 82    | 192   | 134    | 160    | 165   | 96    | 64    | 54    | 113    | 56    | 200    | 62     |
| 17    | 260   | 206   | 129    | 166    | 165   | 89    | 62    | 54    | 76     | 60    | 80     | 62     |
| 18    | 216   | 179   | 129    | 166    | 165   | 73    | 62    | 54    | 73     | 54    | 75     | 60     |
| 19    | 148   | 179   | 146    | 166    | 170   | 71    | 60    | 54    | 69     | 58    | 80     | 4,740  |
| 20    | 108   | 166   | 151    | 176    | 170   | 75    | 66    | 54    | 62     | 56    | 300    | 3,000  |
| 21    | 98    | 163   | 157    | 179    | 170   | 73    | 80    | 54    | 58     | 60    | 150    | 1,000  |
| 22    | 96    | 169   | 160    | 180    | 170   | 66    | 64    | 54    | 58     | 60    | 100    | 296    |
| 23    | 106   | 163   | 273    | 180    | 170   | 66    | 58    | 56    | 3,300  | 62    | 80     | 282    |
| 24    | 363   | 149   | 398    | 180    | 170   | 62    | 60    | 56    | 1,000  | 64    | 60     | 293    |
| 25    | 767   | 137   | 3,490  | 175    | 169   | 62    | 64    | 56    | 400    | 64    | 58     | 282    |
| 26    | 290   | 143   | 1,430  | 175    | 148   | 64    | 62    | 58    | 170    | 69    | 400    | 262    |
| 27    | 237   | 137   | 680    | 176    | 143   | 62    | 62    | 58    | 110    | 71    | 700    | 223    |
| 28    | 216   | 130   | 356    | 166    | 140   | 62    | 62    | 58    | 90     | 64    | 430    | 163    |
| 29    | 220   | 160   | 316    | 173    | 145   | 60    | 62    | 58    | 70     | 62    | 182    | 124    |
| 30    | 220   | 145   | 268    | 151    | ----- | 60    | 62    | 58    | 67     | 60    | 98     | 91     |
| 31    | 198   | ----- | 251    | 146    | ----- | 60    | ----- | 60    | -----  | 58    | 98     | -----  |
| TOTAL | 4,726 | 4,900 | 10,605 | 5,341  | 4,548 | 2,852 | 1,935 | 1,804 | 7,553  | 2,350 | 5,672  | 12,000 |
| MEAN  | 152   | 163   | 342    | 172    | 157   | 92.0  | 64.5  | 58.2  | 252    | 66.1  | 183    | 400    |
| MAX   | 767   | 206   | 3,490  | 234    | 170   | 150   | 94    | 66    | 3,300  | 100   | 1,000  | 4,740  |
| MIN   | 69    | 130   | 116    | 146    | 140   | 60    | 52    | 54    | 58     | 54    | 55     | 56     |
| AC-FT | 9,370 | 9,720 | 21,040 | 10,590 | 9,020 | 5,660 | 3,840 | 3,580 | 14,980 | 4,070 | 11,250 | 23,800 |

CAL YR 1971 TOTAL 57,260 MEAN 157 MAX 3,490 MIN 60 AC-FT 113,600  
WTR YR 1972 TOTAL 63,986 MEAN 175 MAX 4,740 MIN 52 AC-FT 126,900

## PEAK DISCHARGE (BASE, 1,600 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|------|------|-------|-----------|
| 10-24 | 2100 | 8.35  | 2,400     | 6-23 | Unk. | --    | 5,000     |
| 12-25 | 1200 | 11.80 | 8,180     | 8-15 | Unk. | --    | 2,980     |
| 12-26 | 1800 | 8.50  | 2,320     | 9-19 | 1000 | 11.80 | 8,180     |

NOTE.--No gage-height record for many days during the year.

| CAY         | OCT             | NOV    | DEC    | JAN    | FEB   | MAR   | APR     | MAY   | JUN     | JUL    | AUG      | SEP      |
|-------------|-----------------|--------|--------|--------|-------|-------|---------|-------|---------|--------|----------|----------|
| 1           | 39              | 350    | 126    | 272    | 181   | 139   | 20      | 14    | 1.2     | 4.1    | .60      | 29       |
| 2           | 37              | 300    | 126    | 272    | 173   | 146   | 82      | 9.5   | 1.9     | 13     | 1.2      | 91       |
| 3           | 35              | 275    | 160    | 299    | 165   | 106   | 64      | 10    | 3.8     | 34     | .50      | 16       |
| 4           | 35              | 250    | 150    | 290    | 152   | 96    | 67      | 44    | 10      | 3.8    | .30      | 1.4      |
| 5           | 33              | 245    | 140    | 290    | 242   | 113   | 60      | 21    | 3.8     | 23     | .40      | 4.4      |
| 6           | 31              | 189    | 140    | 237    | 173   | 126   | 52      | 16    | 5.5     | 4.8    | .40      | 86       |
| 7           | 29              | 165    | 135    | 229    | 173   | 152   | 28      | 50    | 263     | 2.4    | .60      | 173      |
| 8           | 29              | 146    | 135    | 245    | 173   | 158   | 26      | 10    | 685     | 1.2    | .40      | 68       |
| 9           | 27              | 158    | 130    | 245    | 173   | 181   | 91      | 7.6   | 420     | 1.2    | .50      | 34       |
| 10          | 27              | 146    | 126    | 229    | 165   | 160   | 27      | 7.6   | 18      | 2.1    | .20      | 45       |
| 11          | 25              | 158    | 158    | 229    | 146   | 130   | 32      | 7.6   | 7.6     | .70    | .10      | 22       |
| 12          | 25              | 113    | 126    | 245    | 126   | 100   | 30      | 7.0   | 9.5     | 2.4    | 0        | 21       |
| 13          | 24              | 146    | 132    | 250    | 113   | 70    | 48      | 7.0   | 5.5     | .60    | 231      | 15       |
| 14          | 24              | 86     | 120    | 253    | 120   | 50    | 45      | 7.0   | 5.5     | .40    | 515      | 21       |
| 15          | 28              | 126    | 96     | 253    | 125   | 45    | 50      | 7.0   | 5.0     | .40    | 958      | 22       |
| 16          | 32              | 181    | 86     | 250    | 130   | 45    | 45      | 6.5   | 5.0     | .40    | 109      | 6.7      |
| 17          | 252             | 165    | 78     | 245    | 130   | 60    | 22      | 6.5   | 5.0     | 1.9    | 30       | 6.7      |
| 18          | 402             | 165    | 64     | 245    | 130   | 45    | 30      | 6.5   | 4.0     | 1.2    | 6.7      | 33       |
| 19          | 392             | 197    | 96     | 245    | 135   | 96    | 45      | 6.0   | 4.0     | 1.2    | 9.8      | 6,270    |
| 20          | 213             | 158    | 132    | 235    | 135   | 68    | 52      | 6.0   | 3.0     | .40    | 205      | 4,850    |
| 21          | 272             | 161    | 78     | 225    | 140   | 60    | 40      | 6.0   | 2.5     | .30    | 62       | 661      |
| 22          | 189             | 175    | 126    | 215    | 140   | 27    | 35      | 5.5   | 2.2     | .40    | 18       | 263      |
| 23          | 290             | 170    | 181    | 205    | 145   | 35    | 32      | 5.5   | 2,830   | .40    | 2.4      | 221      |
| 24          | 263             | 165    | 510    | 195    | 153   | 21    | 8.6     | 5.5   | 551     | 1.4    | 0        | 158      |
| 25          | 1,100           | 229    | 3,650  | 190    | 158   | 24    | 13      | 5.0   | 272     | .60    | 251      | 132      |
| 26          | 392             | 189    | 1,950  | 185    | 181   | 48    | 12      | 5.0   | 126     | 1.2    | 554      | 68       |
| 27          | 229             | 254    | 1,210  | 181    | 197   | 20    | 18      | 5.0   | 91      | .60    | 624      | 55       |
| 28          | 272             | 132    | 460    | 181    | 146   | 28    | 20      | 5.0   | 67      | .40    | 571      | 40       |
| 29          | 317             | 189    | 335    | 181    | 165   | 21    | 15      | 5.0   | 4.8     | .40    | 273      | 12       |
| 30          | 354             | 158    | 221    | 213    | ----- | 52    | 31      | 4.8   | 4.8     | .50    | 96       | 21       |
| 31          | 411             | -----  | 189    | 205    | ----- | 40    | -----   | 4.8   | -----   | 1.0    | 55       | -----    |
| TOTAL       | 5,828           | 5,561  | 11,366 | 7,234  | 4,485 | 2,462 | 1,133.6 | 313.9 | 5,417.6 | 106.40 | 4,576.10 | 13,446.2 |
| MEAN        | 188             | 185    | 367    | 233    | 155   | 79.4  | 37.8    | 10.1  | 181     | 3.43   | 148      | 448      |
| MAX         | 1,100           | 350    | 3,650  | 299    | 242   | 181   | 91      | 50    | 2,830   | 34     | 958      | 6,270    |
| MIN         | 24              | 86     | 64     | 181    | 113   | 20    | 8.6     | 4.8   | 1.2     | .30    | 0        | 1.4      |
| AC-FT       | 11,560          | 11,030 | 22,540 | 14,350 | 8,900 | 4,880 | 2,250   | 623   | 10,750  | 211    | 9,080    | 26,670   |
| CAL YR 1971 | TOTAL 53,121.10 |        |        |        |       |       |         |       |         |        |          |          |
| WTR YR 1972 | TOTAL 61,929.80 |        |        |        |       |       |         |       |         |        |          |          |
|             | MEAN 146        |        |        |        |       |       |         |       |         |        |          |          |
|             | MAX 3,650       |        |        |        |       |       |         |       |         |        |          |          |
|             | MIN 0           |        |        |        |       |       |         |       |         |        |          |          |
|             | AC-FT 105,400   |        |        |        |       |       |         |       |         |        |          |          |
|             | AC-FT 122,800   |        |        |        |       |       |         |       |         |        |          |          |

## VIRGIN RIVER BASIN

31

09415600 Pahranagat Valley tributary near Hiko, Nev.

LOCATION.--Lat 37°29'20", long 115°20'10", in NE $\frac{1}{4}$  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 miles southwest of Hiko, and 47 miles west of Caliente.

DRAINAGE AREA.--17 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--9 years, .003 cfs (2.2 acre-ft per year).

EXTREMES.--Current year: Maximum discharge 162 cfs, June 22 (gage height, 9.99 ft), from slope-area measurement of peak flow; no flow most of year.

Period of record: Maximum discharge, 162 cfs June 22, 1972 (gage height, 9.99 ft), from slope-area measurement of peak flow; no flow most of time.

REMARKS.--Records of flow are poor. 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 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB      | MAR | APR | MAY | JUN | JUL | AUG | SEP  |
|-------------|------------|------------|---------|-------|----------|-----|-----|-----|-----|-----|-----|------|
| 1           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 2           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 3           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 4           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 5           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 6           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 7           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 8           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 9           |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 10          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 11          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 12          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 13          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 14          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 15          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 16          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 17          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 18          |            |            |         |       |          |     |     |     | 0   |     |     | .10  |
| 19          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 20          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 21          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 22          |            |            |         |       |          |     |     |     | 8.6 |     |     | 0    |
| 23          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 24          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 25          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 26          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 27          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 28          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 29          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 30          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| 31          |            |            |         |       |          |     |     |     | 0   |     |     | 0    |
| TOTAL       | 0          | 0          | 0       | 0     | 0        | 0   | 0   | 0   | 8.6 | 0   | 0   | .10  |
| MEAN        | 0          | 0          | 0       | 0     | 0        | 0   | 0   | 0   | .29 | 0   | 0   | .003 |
| MAX         | 0          | 0          | 0       | 0     | 0        | 0   | 0   | 0   | 8.6 | 0   | 0   | .10  |
| MIN         | 0          | 0          | 0       | 0     | 0        | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| AC-FT       | 0          | 0          | 0       | 0     | 0        | 0   | 0   | 0   | 17  | 0   | 0   | .2   |
| CAL YR 1971 | TOTAL 0.00 | MEAN .0000 | MAX .00 | MIN 0 | AC-FT .0 |     |     |     |     |     |     |      |
| WTR YR 1972 | TOTAL 8.70 | MEAN .024  | MAX 8.6 | MIN 0 | AC-FT 17 |     |     |     |     |     |     |      |

LOCATION.--Lat 36°42'40", long 114°41'40", in SE<sub>1/4</sub>SE<sub>1/4</sub> sec.15, T.14 S., R.65 E., Clark County, on left bank 0.1 mile upstream from Battleship Wash, 0.8 mile downstream from Home Ranch, 5 miles northwest of Moapa, and 9.5 miles upstream from Meadow Valley Wash.

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.

AVERAGE DISCHARGE.--35 years (1913-15, 1916-18, 1928-31, 1944-72), 45.4 cfs (32,890 acre-ft per year).

REMARKS.--Records good. Diversions for irrigation above station. Normal flow originates from springs in reach 0.9 to 2.5 miles upstream from station. Flood peaks may be damped by Arrow Canyon Dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT          | NOV   | DEC       | JAN     | FEB    | MAR          | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|--------------|-------|-----------|---------|--------|--------------|-------|-------|-------|-------|-------|-------|
| 1           | 39           | 42    | 45        | 46      | 48     | 40           | 43    | 40    | 41    | 35    | 37    | 36    |
| 2           | 38           | 42    | 45        | 46      | 47     | 39           | 42    | 41    | 40    | 39    | 38    | 40    |
| 3           | 39           | 43    | 46        | 46      | 47     | 40           | 43    | 41    | 41    | 40    | 38    | 39    |
| 4           | 39           | 43    | 45        | 46      | 48     | 43           | 43    | 41    | 40    | 39    | 37    | 40    |
| 5           | 39           | 43    | 46        | 46      | 48     | 42           | 43    | 40    | 39    | 38    | 37    | 38    |
| 6           | 39           | 43    | 46        | 45      | 47     | 42           | 44    | 40    | 39    | 38    | 37    | 41    |
| 7           | 39           | 42    | 45        | 46      | 46     | 43           | 43    | 42    | 38    | 39    | 37    | 41    |
| 8           | 39           | 42    | 45        | 47      | 45     | 43           | 43    | 46    | 39    | 36    | 37    | 40    |
| 9           | 41           | 41    | 46        | 46      | 46     | 43           | 44    | 43    | 38    | 37    | 37    | 38    |
| 10          | 41           | 42    | 46        | 47      | 46     | 43           | 43    | 42    | 38    | 42    | 38    | 38    |
| 11          | 40           | 43    | 46        | 47      | 46     | 43           | 44    | 38    | 38    | 40    | 37    | 38    |
| 12          | 39           | 42    | 46        | 46      | 45     | 43           | 44    | 38    | 38    | 40    | 39    | 39    |
| 13          | 38           | 42    | 46        | 46      | 44     | 43           | 44    | 39    | 37    | 43    | 134   | 39    |
| 14          | 39           | 41    | 46        | 46      | 44     | 43           | 43    | 39    | 37    | 39    | 55    | 40    |
| 15          | 39           | 42    | 47        | 46      | 44     | 43           | 43    | 39    | 37    | 37    | 38    | 38    |
| 16          | 40           | 42    | 45        | 46      | 43     | 44           | 43    | 39    | 36    | 37    | 40    | 39    |
| 17          | 40           | 43    | 46        | 46      | 42     | 44           | 42    | 39    | 36    | 37    | 43    | 39    |
| 18          | 40           | 44    | 46        | 47      | 42     | 45           | 43    | 40    | 36    | 38    | 43    | 47    |
| 19          | 40           | 43    | 46        | 47      | 42     | 44           | 43    | 39    | 37    | 35    | 42    | 204   |
| 20          | 40           | 43    | 46        | 47      | 42     | 44           | 42    | 40    | 36    | 34    | 42    | 315   |
| 21          | 41           | 43    | 45        | 47      | 42     | 44           | 42    | 40    | 36    | 34    | 42    | 37    |
| 22          | 41           | 43    | 45        | 47      | 41     | 44           | 42    | 39    | 38    | 35    | 40    | 36    |
| 23          | 41           | 43    | 46        | 47      | 40     | 43           | 42    | 39    | 35    | 35    | 38    | 37    |
| 24          | 41           | 44    | 48        | 47      | 41     | 43           | 42    | 40    | 34    | 37    | 42    | 39    |
| 25          | 41           | 43    | 47        | 47      | 42     | 44           | 44    | 41    | 36    | 37    | 123   | 40    |
| 26          | 40           | 44    | 49        | 47      | 42     | 44           | 43    | 41    | 36    | 37    | 117   | 39    |
| 27          | 40           | 44    | 47        | 47      | 42     | 43           | 42    | 40    | 36    | 37    | 41    | 42    |
| 28          | 40           | 44    | 48        | 48      | 42     | 43           | 41    | 41    | 37    | 36    | 36    | 42    |
| 29          | 41           | 44    | 47        | 48      | 42     | 43           | 40    | 42    | 37    | 38    | 36    | 40    |
| 30          | 41           | 44    | 46        | 48      | -----  | 43           | 39    | 38    | 34    | 39    | 36    | 39    |
| 31          | 42           | ----- | 46        | 48      | -----  | 42           | ----- | 40    | ----- | 37    | 37    | ----- |
| TOTAL       | 1,237        | 1,284 | 1,429     | 1,446   | 1,276  | 1,330        | 1,279 | 1,247 | 1,120 | 1,165 | 1,474 | 1,620 |
| MEAN        | 39.9         | 42.8  | 46.1      | 46.6    | 44.0   | 42.9         | 42.6  | 40.2  | 37.3  | 37.6  | 47.5  | 54.0  |
| MAX         | 42           | 44    | 49        | 48      | 48     | 45           | 44    | 46    | 41    | 43    | 134   | 315   |
| MIN         | 38           | 41    | 45        | 45      | 40     | 39           | 39    | 38    | 34    | 34    | 36    | 36    |
| AC-FT       | 2,450        | 2,550 | 2,830     | 2,870   | 2,530  | 2,640        | 2,540 | 2,470 | 2,220 | 2,310 | 2,920 | 3,210 |
| CAL YR 1971 | TOTAL 14,352 |       | MEAN 39.3 | MAX 133 | MIN 30 | AC-FT 28,470 |       |       |       |       |       |       |
| WTR YR 1972 | TOTAL 15,907 |       | MEAN 43.5 | MAX 315 | MIN 34 | AC-FT 31,550 |       |       |       |       |       |       |

## 33

LOCATION.--Lat 38°00'10", long 114°12'20", in SW<sup>1</sup>/<sub>4</sub> sec.25, T.2 N., R.69 E., Lincoln County, on right bank in Eagle Canyon, 1.7 miles upstream from Ursine, 14 miles upstream from Patterson Wash, and 18 miles east of Pioche.

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

AVERAGE DISCHARGE.--10 years, 6.63 cfs (4,800 acre-ft per year).

REMARKS.--Records excellent. Several diversions for irrigation above station. Flow regulated by Eagle Valley and Hollinger Reservoirs (total capacity, 1,470 acre-ft).

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1           | 3.8   | 2.2     | 7.0   | 6.7   | 6.0   | 8.3   | 5.4   | 3.6   | 4.0   | 2.9   | 2.7  | 2.6   |
| 2           | 3.8   | 2.2     | 6.5   | 6.3   | 5.8   | 8.0   | 5.2   | 3.7   | 4.0   | 2.9   | 2.6  | 2.6   |
| 3           | 3.8   | 5.0     | 6.3   | 5.8   | 5.7   | 8.2   | 5.0   | 3.7   | 3.9   | 2.8   | 2.6  | 2.6   |
| 4           | 3.6   | 7.2     | 6.3   | 5.7   | 5.8   | 8.3   | 5.1   | 3.8   | 3.9   | 2.7   | 2.6  | 2.7   |
| 5           | 3.6   | 7.8     | 6.1   | 5.5   | 6.0   | 7.8   | 5.1   | 3.8   | 3.9   | 2.8   | 2.6  | 2.7   |
| 6           | 3.8   | 7.6     | 6.7   | 5.4   | 6.4   | 7.5   | 5.1   | 4.0   | 4.0   | 2.9   | 2.6  | 2.7   |
| 7           | 3.8   | 7.2     | 7.2   | 5.5   | 7.0   | 7.3   | 5.0   | 3.9   | 4.4   | 2.8   | 2.6  | 2.7   |
| 8           | 3.9   | 7.0     | 3.9   | 5.5   | 7.7   | 7.2   | 4.8   | 3.8   | 5.2   | 2.7   | 2.6  | 2.6   |
| 9           | 3.9   | 7.0     | 4.6   | 5.5   | 8.7   | 7.1   | 4.0   | 3.8   | 5.4   | 2.7   | 2.7  | 2.6   |
| 10          | 4.1   | 7.2     | 4.6   | 5.5   | 9.4   | 7.0   | 4.1   | 3.8   | 4.7   | 2.7   | 2.7  | 2.4   |
| 11          | 3.9   | 6.7     | 4.6   | 5.5   | 8.7   | 6.7   | 5.7   | 3.8   | 4.1   | 2.6   | 2.7  | 2.4   |
| 12          | 4.1   | 6.7     | 4.6   | 5.7   | 8.3   | 6.7   | 6.4   | 3.8   | 3.9   | 2.6   | 2.7  | 2.4   |
| 13          | 3.4   | 7.0     | 4.6   | 5.9   | 9.1   | 6.8   | 6.4   | 3.7   | 4.0   | 2.5   | 2.9  | 2.4   |
| 14          | 3.4   | 7.4     | 4.4   | 6.5   | 10    | 6.9   | 6.5   | 3.7   | 4.0   | 2.5   | 2.9  | 2.4   |
| 15          | 3.4   | 7.2     | 4.6   | 6.5   | 11    | 6.7   | 6.8   | 3.4   | 3.9   | 2.5   | 2.8  | 2.4   |
| 16          | 3.0   | 6.3     | 4.6   | 6.5   | 12    | 6.2   | 6.4   | 3.3   | 3.3   | 2.7   | 2.8  | 2.4   |
| 17          | 2.4   | 5.9     | 4.4   | 6.7   | 13    | 6.2   | 5.7   | 3.3   | 3.3   | 2.8   | 2.7  | 2.4   |
| 18          | 2.4   | 5.7     | 4.6   | 7.0   | 13    | 6.1   | 5.4   | 3.5   | 3.3   | 2.7   | 2.8  | 2.5   |
| 19          | 2.0   | 5.4     | 4.6   | 8.1   | 13    | 5.9   | 5.6   | 3.4   | 3.2   | 2.7   | 2.8  | 2.4   |
| 20          | 1.8   | 5.4     | 4.6   | 9.8   | 14    | 5.8   | 5.9   | 3.9   | 3.1   | 2.7   | 2.6  | 2.3   |
| 21          | 2.0   | 5.9     | 4.6   | 12    | 14    | 5.6   | 5.8   | 4.1   | 3.1   | 2.7   | 2.6  | 2.3   |
| 22          | 2.0   | 6.7     | 5.4   | 12    | 12    | 5.3   | 5.5   | 3.9   | 3.3   | 2.7   | 2.6  | 2.4   |
| 23          | 2.0   | 7.6     | 13    | 11    | 12    | 4.9   | 5.2   | 4.2   | 3.2   | 2.8   | 2.5  | 2.4   |
| 24          | 1.5   | 7.8     | 40    | 10    | 11    | 4.8   | 4.8   | 4.1   | 3.1   | 2.8   | 2.5  | 2.5   |
| 25          | 2.1   | 7.8     | 122   | 9.0   | 10    | 4.8   | 4.3   | 3.9   | 3.1   | 2.8   | 2.5  | 2.4   |
| 26          | 2.1   | 7.4     | 49    | 7.8   | 9.9   | 4.6   | 4.2   | 3.3   | 2.9   | 2.7   | 2.7  | 2.5   |
| 27          | 1.7   | 7.4     | 25    | 7.2   | 9.9   | 4.5   | 3.9   | 3.3   | 2.9   | 2.7   | 2.7  | 2.6   |
| 28          | 2.2   | 7.2     | 21    | 6.7   | 9.6   | 4.6   | 3.8   | 3.2   | 2.9   | 2.7   | 2.9  | 2.7   |
| 29          | 2.2   | 6.7     | 16    | 7.0   | 9.2   | 5.0   | 3.8   | 3.1   | 2.9   | 2.7   | 2.6  | 2.6   |
| 30          | 2.2   | 7.0     | 12    | 6.5   | ----- | 5.1   | 3.6   | 3.0   | 2.9   | 2.6   | 2.6  | 2.6   |
| 31          | 2.2   | -----   | 8.3   | 6.1   | ----- | 5.3   | ----- | 3.4   | ----- | 2.7   | 2.7  | ----- |
| TOTAL       | 90.1  | 195.6   | 421.1 | 220.9 | 278.2 | 195.2 | 154.5 | 113.2 | 109.8 | 84.1  | 82.9 | 75.2  |
| MEAN        | 2.91  | 6.52    | 13.6  | 7.13  | 9.59  | 6.30  | 5.15  | 3.65  | 3.66  | 2.71  | 2.67 | 2.51  |
| MAX         | 4.1   | 7.8     | 122   | 12    | 14    | 8.3   | 6.8   | 4.2   | 5.4   | 2.9   | 2.9  | 2.7   |
| MIN         | 1.5   | 2.2     | 3.9   | 5.4   | 5.7   | 4.5   | 3.6   | 3.0   | 2.9   | 2.5   | 2.5  | 2.3   |
| AC-FT       | 179   | 388     | 835   | 438   | 552   | 387   | 306   | 225   | 218   | 167   | 164  | 149   |
| CAL YR 1971 | TOTAL | 2,296.4 | MEAN  | 6.29  | MAX   | 122   | MIN   | 1.5   | AC-FT | 4,550 |      |       |
| CTR YR 1972 | TOTAL | 2,020.8 | MEAN  | 5.52  | MAX   | 122   | MIN   |       |       |       |      |       |



## VIRGIN RIVER BASIN

09418200 Mathews Canyon Wash near Caliente, Nev.

LOCATION.--Lat 37°30'25", long 114°13'11", 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 miles upstream from mouth, and 17 miles southeast of Caliente.

DRAINAGE AREA.--34 sq mi, 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 above mean sea level, datum of 1929 (levels by Corps of Engineers).

AVERAGE DISCHARGE.--14 years, 0.463 cfs (335 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 42 cfs Dec. 26 (gage height, 9.05 ft); no flow most of the year.  
Period of record: Maximum discharge, 206 cfs Dec. 29, 1965 (gage height, 11.85 ft); no flow most of the time.

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

Discharge, in cubic feet per second, water year October 1971 to September 1972

|                 |     |                 |     |
|-----------------|-----|-----------------|-----|
| Dec. 25 . . . . | .10 | Dec. 29 . . . . | .90 |
| 26 . . . .      | .28 | 30 . . . .      | .40 |
| 27 . . . .      | 6.8 | 31 . . . .      | .10 |
| 28 . . . .      | 2.2 |                 |     |

| Month                        | Cfs-days | Maximum | Minimum | Mean | Runoff in<br>acre-feet |
|------------------------------|----------|---------|---------|------|------------------------|
| December 1971 . . . . .      | 38.50    | 28      | 0       | 1.24 | 76                     |
| Calendar year 1971 . . . . . | 38.50    | 28      | 0       | .105 | 76                     |
| Water year 1971-72 . . . . . | 38.50    | 28      | 0       | .105 | 76                     |

Note.--Flow occurred only on days listed above. Inspection generally made once a month.

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 downstream from outlet of flood-control dam, 4 miles upstream from mouth, and 14 miles southeast of Caliente.

DRAINAGE AREA.--45 sq mi, 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 (by Corps of Engineers damsite topography).

AVERAGE DISCHARGE.--14 years, 0.96 cfs (697 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 18 cfs Dec. 26 (gage height, 2.68 ft); no flow most of the year.  
Period of record: Maximum discharge, 238 cfs Dec. 7, 1966 (gage height, 3.92 ft); no flow most of the time.

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

Discharge, in cubic feet per second, water year October 1971 to September 1972

|                       |     |
|-----------------------|-----|
| December 26 . . . . . | 9.8 |
| 27 . . . . .          | 2.4 |
| 28 . . . . .          | .15 |

| Month                        | Cfs-days | Maximum | Minimum | Mean | Runoff in<br>acre-feet |
|------------------------------|----------|---------|---------|------|------------------------|
| December 1971 . . . . .      | 12.35    | 9.8     | 0       | .40  | 24                     |
| Calendar year 1971 . . . . . | 12.35    | 9.8     | 0       | .034 | 24                     |
| Water year 1971-72 . . . . . | 12.35    | 9.8     | 0       | .034 | 24                     |

Note.--Flow occurred only on days listed above. Inspection generally made once a month.

## VIRGIN RIVER BASIN

35

09418500 Meadow Valley Wash near Caliente, Nev.

LOCATION.--Lat 37°33'20", long 114°33'50", in NE $\frac{1}{4}$  sec.35, T.4 S., R.66 E., Lincoln County, on right bank 6 miles downstream from Clover Creek, 0.5 mile east of Etna, and 4.5 miles southwest of Caliente.

DRAINAGE AREA.--1,670 sq mi.

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

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

AVERAGE DISCHARGE.--16 years (1951-60, 1965-72, 11.5 cfs (8,330 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs Aug. 27 (gage height, 6.56 ft, from flood marks); minimum daily, 0.40 cfs Aug. 12-17.

Period of record: Maximum discharge, 1,500 cfs June 30, 1956 (gage height, 8.0 ft, from floodmarks); no flow July 26-28, 1966.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG    | SEP   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|--------|-------|
| 1     | 1.7  | 2.9   | 3.8   | 4.2   | 5.3   | 6.1   | 2.5   | 2.7  | 5.8   | 1.1   | .60    | 1.8   |
| 2     | 1.7  | 2.3   | 3.7   | 4.4   | 4.6   | 4.4   | 2.5   | 2.6  | 3.3   | 1.1   | .60    | 1.8   |
| 3     | 1.7  | 2.3   | 4.8   | 4.2   | 4.1   | 2.9   | 2.6   | 2.5  | 3.3   | .90   | .60    | 1.8   |
| 4     | 1.7  | 2.3   | 5.5   | 3.1   | 4.1   | 3.3   | 2.5   | 2.5  | 3.6   | .80   | .60    | 1.8   |
| 5     | 1.7  | 2.3   | 5.2   | 2.6   | 6.0   | 2.8   | 3.0   | 2.3  | 3.8   | .80   | .60    | 1.6   |
| 6     | 1.7  | 2.4   | 5.4   | 2.2   | 8.0   | 2.6   | 3.4   | 2.3  | 3.8   | .90   | .60    | 1.6   |
| 7     | 1.7  | 2.4   | 4.5   | 1.9   | 9.9   | 2.9   | 3.5   | 2.4  | 4.2   | .80   | .60    | 1.6   |
| 8     | 1.7  | 2.6   | 2.8   | 1.9   | 10    | 2.7   | 3.4   | 2.4  | 7.1   | .80   | .70    | 1.6   |
| 9     | 1.8  | 2.8   | 2.9   | 2.7   | 10    | 3.0   | 3.1   | 2.4  | 9.0   | .80   | .70    | 1.5   |
| 10    | 2.0  | 3.1   | 2.7   | 3.4   | 8.7   | 4.2   | 2.3   | 2.2  | 5.4   | .80   | .60    | 1.5   |
| 11    | 1.8  | 2.8   | 2.9   | 3.6   | 6.6   | 6.1   | 2.4   | 2.0  | 3.4   | .90   | .60    | 1.5   |
| 12    | 1.8  | 3.1   | 2.9   | 4.1   | 5.7   | 5.9   | 2.5   | 2.0  | 2.6   | .80   | .40    | 1.5   |
| 13    | 1.7  | 3.4   | 3.2   | 5.5   | 6.7   | 5.8   | 2.9   | 2.0  | 1.5   | .80   | .40    | 1.4   |
| 14    | 1.7  | 2.9   | 3.1   | 7.4   | 7.6   | 6.4   | 2.8   | 2.1  | 1.6   | .80   | .40    | 1.4   |
| 15    | 1.7  | 3.0   | 3.0   | 8.7   | 7.8   | 5.3   | 2.7   | 1.9  | 1.6   | .70   | .40    | 1.3   |
| 16    | 2.2  | 2.4   | 2.6   | 9.7   | 8.6   | 4.1   | 2.6   | 1.9  | 1.6   | .80   | .40    | 1.2   |
| 17    | 2.8  | 1.9   | 2.5   | 9.5   | 8.2   | 3.5   | 2.6   | 2.0  | 1.6   | 1.2   | .40    | 1.2   |
| 18    | 2.3  | 1.8   | 2.4   | 9.9   | 6.7   | 3.7   | 3.0   | 2.3  | 1.5   | 1.0   | 1.2    | 1.5   |
| 19    | 2.3  | 1.7   | 2.4   | 11    | 7.7   | 3.3   | 3.1   | 2.6  | 1.5   | 1.1   | 2.0    | 2.2   |
| 20    | 2.2  | 2.1   | 2.4   | 12    | 8.1   | 3.4   | 3.7   | 2.7  | 1.5   | 1.3   | 2.0    | 2.7   |
| 21    | 2.1  | 2.9   | 2.4   | 12    | 6.8   | 3.9   | 3.6   | 2.2  | 1.5   | 1.3   | 2.1    | 4.1   |
| 22    | 2.1  | 3.8   | 4.4   | 13    | 4.7   | 4.4   | 3.3   | 2.1  | 1.5   | 1.3   | 2.1    | 2.6   |
| 23    | 2.1  | 4.1   | 11    | 13    | 6.5   | 4.2   | 3.1   | 1.9  | 1.5   | 1.3   | 2.1    | 1.4   |
| 24    | 2.2  | 3.9   | 24    | 11    | 6.6   | 3.1   | 2.7   | 1.8  | 1.5   | 1.1   | 2.0    | 1.3   |
| 25    | 3.1  | 4.0   | 40    | 7.9   | 6.4   | 2.9   | 3.3   | 1.7  | 1.5   | 1.0   | 2.1    | 1.3   |
| 26    | 2.3  | 4.0   | 33    | 7.7   | 6.5   | 2.7   | 3.3   | 1.6  | 1.2   | 1.1   | 2.2    | 1.3   |
| 27    | 2.4  | 3.9   | 15    | 7.0   | 6.9   | 2.6   | 3.1   | 1.6  | 1.5   | 1.1   | 70     | 1.3   |
| 28    | 3.3  | 4.1   | 11    | 6.7   | 6.6   | 2.8   | 3.0   | 1.5  | 1.3   | 1.1   | 5.0    | 1.3   |
| 29    | 3.0  | 3.9   | 8.7   | 7.4   | 6.6   | 2.9   | 2.8   | 1.5  | 1.4   | 1.2   | 2.5    | 1.3   |
| 30    | 3.2  | 4.1   | 6.8   | 5.7   | ----- | 2.9   | 2.8   | 1.5  | 1.3   | 1.2   | 1.8    | 1.3   |
| 31    | 3.4  | ----- | 4.5   | 5.3   | ----- | 3.0   | ----- | 8.0  | ----- | .90   | 1.8    | ----- |
| TOTAL | 67.1 | 89.2  | 229.5 | 208.7 | 202.0 | 117.8 | 88.1  | 71.2 | 81.9  | 30.80 | 108.10 | 49.7  |
| MEAN  | 2.16 | 2.97  | 7.40  | 6.73  | 6.97  | 3.80  | 2.94  | 2.30 | 2.73  | .99   | 3.49   | 1.66  |
| MAX   | 3.4  | 4.1   | 40    | 13    | 10    | 6.4   | 3.7   | 8.0  | 9.0   | 1.3   | 70     | 4.1   |
| MIN   | 1.7  | 1.7   | 2.4   | 1.9   | 4.1   | 2.6   | 2.3   | 1.5  | 1.2   | .70   | .40    | 1.2   |
| AC-FT | 133  | 177   | 455   | 414   | 401   | 234   | 175   | 141  | 162   | .61   | 214    | 99    |

CAL YR 1971 TOTAL 2,148.40 MEAN 5.89 MAX 74 MIN .95 AC-FT 4,260  
WTR YR 1972 TOTAL 1,344.10 MEAN 3.67 MAX 70 MIN .40 AC-FT 2,670

Peak discharge (base, 300 cfs).--Aug. 27 (1745) 1,230 cfs (6.56 ft).

## VIRGIN RIVER BASIN

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 downstream from Weiser Wash, 2 miles southwest of Glendale, 2.4 miles downstream from Meadow Valley Wash, and 4.5 miles northwest of Logandale.

DRAINAGE AREA.--6,780 sq mi, approximately, of which about 3,000 sq mi 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 (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 miles downstream at different datum.

AVERAGE DISCHARGE.--22 years (1950-72), 46.2 cfs (33,470 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,860 cfs Sept. 19 (gage height, 15.33 ft); minimum daily, 28 cfs June 30, July 1. Period of record: Maximum discharge, 7,380 cfs Nov. 6, 1960 (gage height, 20.36 ft), from rating curve extended above 460 cfs on basis of slope-area measurements at gage heights 8.42 and 20.36 ft and logarithmic plotting; minimum, 7.6 cfs Sept. 29, 1964, result of temporary storage upstream. Maximum stage known, 30 ft 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 33    | 44    | 44    | 50    | 46    | 39    | 41    | 33    | 38    | 28    | 34    | 35    |
| 2     | 35    | 43    | 45    | 51    | 45    | 37    | 44    | 34    | 35    | 29    | 34    | 35    |
| 3     | 33    | 44    | 43    | 51    | 46    | 37    | 44    | 35    | 36    | 29    | 35    | 35    |
| 4     | 35    | 44    | 42    | 50    | 45    | 40    | 42    | 34    | 34    | 31    | 33    | 35    |
| 5     | 35    | 38    | 42    | 51    | 44    | 39    | 42    | 35    | 32    | 32    | 34    | 38    |
| 6     | 35    | 38    | 43    | 50    | 42    | 41    | 42    | 35    | 34    | 32    | 35    | 38    |
| 7     | 37    | 40    | 43    | 49    | 41    | 40    | 42    | 37    | 34    | 32    | 34    | 39    |
| 8     | 35    | 44    | 43    | 48    | 40    | 39    | 40    | 39    | 36    | 32    | 34    | 37    |
| 9     | 37    | 42    | 43    | 49    | 40    | 41    | 41    | 40    | 36    | 34    | 34    | 34    |
| 10    | 35    | 42    | 43    | 50    | 42    | 42    | 42    | 40    | 34    | 32    | 33    | 33    |
| 11    | 37    | 39    | 43    | 51    | 43    | 42    | 42    | 36    | 34    | 33    | 34    | 34    |
| 12    | 35    | 39    | 41    | 48    | 43    | 43    | 41    | 37    | 34    | 31    | 36    | 33    |
| 13    | 35    | 43    | 42    | 49    | 44    | 42    | 40    | 37    | 34    | 32    | 122   | 32    |
| 14    | 38    | 42    | 43    | 48    | 43    | 41    | 40    | 35    | 34    | 32    | 83    | 29    |
| 15    | 38    | 42    | 44    | 45    | 42    | 41    | 37    | 35    | 32    | 31    | 96    | 32    |
| 16    | 38    | 43    | 44    | 44    | 41    | 41    | 37    | 34    | 32    | 30    | 66    | 36    |
| 17    | 40    | 42    | 44    | 45    | 40    | 42    | 35    | 35    | 32    | 32    | 48    | 33    |
| 18    | 40    | 43    | 43    | 44    | 39    | 43    | 36    | 35    | 34    | 31    | 33    | 106   |
| 19    | 40    | 44    | 43    | 45    | 39    | 43    | 38    | 35    | 34    | 30    | 35    | 660   |
| 20    | 40    | 44    | 43    | 45    | 41    | 43    | 35    | 35    | 36    | 32    | 34    | 35    |
| 21    | 40    | 44    | 43    | 44    | 40    | 41    | 33    | 33    | 34    | 32    | 36    | 35    |
| 22    | 41    | 44    | 44    | 45    | 39    | 41    | 31    | 34    | 32    | 33    | 57    | 36    |
| 23    | 42    | 45    | 47    | 46    | 39    | 43    | 34    | 38    | 32    | 35    | 37    | 39    |
| 24    | 42    | 46    | 48    | 45    | 40    | 42    | 35    | 40    | 32    | 35    | 40    | 40    |
| 25    | 42    | 47    | 51    | 45    | 39    | 43    | 36    | 35    | 32    | 33    | 110   | 40    |
| 26    | 40    | 46    | 55    | 44    | 38    | 43    | 36    | 34    | 30    | 34    | 100   | 41    |
| 27    | 40    | 41    | 68    | 44    | 40    | 42    | 36    | 33    | 30    | 34    | 40    | 39    |
| 28    | 40    | 43    | 68    | 46    | 41    | 41    | 33    | 37    | 30    | 34    | 35    | 38    |
| 29    | 42    | 44    | 58    | 46    | 40    | 42    | 34    | 37    | 28    | 35    | 35    | 35    |
| 30    | 40    | 44    | 53    | 46    | ----- | 42    | 32    | 35    | 28    | 35    | 35    | 36    |
| 31    | 44    | ----- | 51    | 46    | ----- | 39    | ----- | 37    | ----- | 35    | 35    | ----- |
| TOTAL | 1,184 | 1,284 | 1,447 | 1,460 | 1,202 | 1,275 | 1,141 | 1,109 | 993   | 1,000 | 1,487 | 1,768 |
| MEAN  | 38.2  | 42.8  | 46.7  | 47.1  | 41.4  | 41.1  | 38.0  | 35.8  | 33.1  | 32.3  | 48.0  | 58.9  |
| MAX   | 44    | 47    | 68    | 51    | 46    | 43    | 44    | 40    | 38    | 35    | 122   | 660   |
| MIN   | 33    | 38    | 41    | 44    | 38    | 37    | 31    | 33    | 28    | 28    | 33    | 29    |
| AC-FT | 2,350 | 2,550 | 2,870 | 2,900 | 2,380 | 2,530 | 2,260 | 2,200 | 1,970 | 1,980 | 2,950 | 3,510 |

|             |              |           |         |        |              |
|-------------|--------------|-----------|---------|--------|--------------|
| CAL YR 1971 | TOTAL 15,495 | MEAN 42.5 | MAX 251 | MIN 27 | AC-FT 30,730 |
| WTR YR 1972 | TOTAL 15,350 | MEAN 41.9 | MAX 660 | MIN 28 | AC-FT 30,450 |

## PEAK DISCHARGE (BASE, 210 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE. | e Estimated. |
|------|------|-------|-----------|------|------|-------|------------|--------------|
|------|------|-------|-----------|------|------|-------|------------|--------------|

|      |      |      |             |      |      |       |       |                                                                       |
|------|------|------|-------------|------|------|-------|-------|-----------------------------------------------------------------------|
| 8-13 | 2100 | 8.73 | 496         | 9-19 | 0345 | 15.33 | 1,860 | Note.--No gage-height record for most of June, August, and September. |
| 8-25 | unk. | unk. | e about 500 |      |      |       |       |                                                                       |

LAS VEGAS WASH BASIN

37

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 above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 miles north of Charleston Park.

DRAINAGE AREA.--9.20 sq mi.

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 (from topographic map). Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 0.045 cfs (33 acre-ft per year).

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

Period of record: Maximum discharge, 880 cfs July 28, 1969 (gage height, 3.60 ft), 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.

## LAS VEGAS WASH BASIN

09419650 Las Vegas Wash at North Las Vegas, Nev.

LOCATION.--Lat 36°12'40", long 115°06'20", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.13, T.20 S., R.61 E., Clark County, on right bank 100 ft upstream from U.S. Highway 91 and 3.5 miles 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 (from topographic map).

AVERAGE DISCHARGE.--10 years, 0.21 cfs (152 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 222 cfs Aug. 12 (gage height, 1.80 ft); no flow most of year.

Period of record: Maximum discharge, 1,170 cfs Sept. 25, 1967 (gage height, 3.58 ft) 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 1971 TO SEPTEMBER 1972

| DAY         | OCT         | NOV   | DEC       | JAN    | FEB   | MAR       | APR   | MAY | JUN   | JUL | AUG   | SEP   |
|-------------|-------------|-------|-----------|--------|-------|-----------|-------|-----|-------|-----|-------|-------|
| 1           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 2           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 3           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 4           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 5           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 6           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | .10   |
| 7           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 8           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 9           | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 10          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 11          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 12          | 0           |       | 0         |        |       |           |       |     |       |     | 20    | 0     |
| 13          | 0           |       | 0         |        |       |           |       |     |       |     | .98   | 0     |
| 14          | 0           |       | 0         |        |       |           |       |     |       |     | .35   | 0     |
| 15          | 0           |       | 0         |        |       |           |       |     |       |     | 14    | 0     |
| 16          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 17          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 18          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 19          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 20          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 21          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 22          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 23          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 24          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 25          | 0           |       | .02       |        |       |           |       |     |       |     | 0     | 0     |
| 26          | 0           |       | .12       |        |       |           |       |     |       |     | 0     | 0     |
| 27          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 28          | 0           |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 29          | .31         |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 30          | .02         |       | 0         |        |       |           |       |     |       |     | 0     | 0     |
| 31          | 0           | ----- | 0         |        | ----- |           | ----- |     | ----- |     | 0     | ----- |
| TOTAL       | .33         | 0     | .14       | 0      | 0     | 0         | 0     | 0   | 0     | 0   | 35.33 | .10   |
| MEAN        | .011        | 0     | .005      | 0      | 0     | 0         | 0     | 0   | 0     | 0   | 1.14  | .003  |
| MAX         | .31         | 0     | .12       | 0      | 0     | 0         | 0     | 0   | 0     | 0   | 20    | .10   |
| MIN         | 0           | 0     | 0         | 0      | 0     | 0         | 0     | 0   | 0     | 0   | 0     | 0     |
| AC-FT       | .7          | 0     | .3        | 0      | 0     | 0         | 0     | 0   | 0     | 0   | 70    | .2    |
| CAL YR 1971 | TOTAL 50.35 |       | MEAN .14  | MAX 24 | MIN 0 | AC-FT 100 |       |     |       |     |       |       |
| WTR YR 1972 | TOTAL 35.90 |       | MEAN .098 | MAX 20 | MIN 0 | AC-FT 71  |       |     |       |     |       |       |



## 39

LOCATION.--Lat 36°07'05", long 115°08'15", in SE<sub>1</sub>SE<sub>1</sub> sec.15, T.21 S., R.61 E., Clark County, on right bank 90 ft upstream from two 10 x 12-ft box culverts under Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.

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

EXTREMES.--Current year: Maximum discharge (estimated), 32 cfs Sept. 19 (gage height, 0.75 ft); no flow most of the year.

Period of record: Maximum discharge, 218 cfs Aug. 14, 1971 (gage height, 3.12 ft); no flow most of the time.

Flood of Sept. 12, 1969, reached a stage of 7.55 ft, from floodmarks (discharge, 1,500 cfs, from computation of peak flow through culverts).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| 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    | .20   |
| 7           |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 8           |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 9           |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 10          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 11          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 12          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 13          |             |     |           |         |       |          |     | 0    |     |     | 1.1  | 0     |
| 14          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 15          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 16          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 17          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 18          |             |     |           |         |       |          |     | 0    |     |     | 0    | 0     |
| 19          |             |     |           |         |       |          |     | 0    |     |     | 0    | 10    |
| 20          |             |     |           |         |       |          |     | 0    |     |     | 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    | 0     |
| 30          |             |     |           |         |       |          |     | 2.7  |     |     | 0    | 0     |
| 31          |             |     |           |         |       |          |     | .10  |     |     | 0    |       |
| TOTAL       | 0           | 0   | 0         | 0       | 0     | 0        | 0   | 2.80 | 0   | 0   | 1.1  | 10.20 |
| MEAN        | 0           | 0   | 0         | 0       | 0     | 0        | 0   | .090 | 0   | 0   | .036 | .34   |
| MAX         | 0           | 0   | 0         | 0       | 0     | 0        | 0   | 2.7  | 0   | 0   | 1.1  | 10    |
| MIN         | 0           | 0   | 0         | 0       | 0     | 0        | 0   | 0    | 0   | 0   | 0    | 0     |
| AC-FT       | 0           | 0   | 0         | 0       | 0     | 0        | 0   | 5.6  | 0   | 0   | 2.2  | 20    |
| CAL YR 1971 | TOTAL 11.73 |     | MEAN .032 | MAX 9.8 | MIN 0 | AC-FT 23 |     |      |     |     |      |       |
| WTR YR 1972 | TOTAL 14.10 |     | MEAN .039 | MAX 10  | MIN 0 | AC-FT 28 |     |      |     |     |      |       |

## LAS VEGAS WASH BASIN

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 pipe culvert on private road, 3.5 miles north of Henderson, and 6.0 miles upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

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

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

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

AVERAGE DISCHARGE.--15 years, 27.4 cfs (19,850 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 393 cfs Sept. 18 (gage height, 7.87 ft); minimum, 12 cfs July 7.

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

REMARKS.--Records fair. In closed basin above station, 2,150 acres 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 34    | 50    | 51    | 49    | 54    | 36    | 50    | 35    | 49    | 24    | 28    | 42    |
| 2     | 37    | 48    | 49    | 51    | 53    | 37    | 49    | 41    | 45    | 24    | 22    | 42    |
| 3     | 43    | 49    | 50    | 50    | 54    | 37    | 49    | 42    | 39    | 21    | 22    | 47    |
| 4     | 45    | 44    | 51    | 53    | 55    | 35    | 51    | 37    | 35    | 20    | 24    | 49    |
| 5     | 45    | 46    | 50    | 53    | 55    | 42    | 50    | 44    | 37    | 21    | 32    | 50    |
| 6     | 43    | 45    | 49    | 55    | 56    | 41    | 44    | 47    | 38    | 23    | 38    | 51    |
| 7     | 41    | 39    | 49    | 55    | 55    | 42    | 41    | 47    | 40    | 24    | 39    | 57    |
| 8     | 42    | 36    | 48    | 53    | 55    | 39    | 42    | 47    | 41    | 29    | 41    | 55    |
| 9     | 43    | 36    | 48    | 50    | 56    | 40    | 35    | 46    | 45    | 36    | 37    | 54    |
| 10    | 43    | 34    | 49    | 51    | 50    | 40    | 32    | 48    | 44    | 33    | 33    | 51    |
| 11    | 41    | 34    | 49    | 50    | 48    | 43    | 32    | 43    | 42    | 34    | 36    | 49    |
| 12    | 38    | 36    | 48    | 55    | 52    | 47    | 30    | 41    | 42    | 32    | 41    | 48    |
| 13    | 31    | 38    | 50    | 48    | 54    | 46    | 35    | 39    | 42    | 27    | 100   | 43    |
| 14    | 29    | 40    | 51    | 48    | 51    | 42    | 38    | 38    | 41    | 30    | 88    | 41    |
| 15    | 31    | 45    | 54    | 48    | 49    | 39    | 39    | 37    | 44    | 30    | 63    | 40    |
| 16    | 35    | 49    | 52    | 49    | 41    | 43    | 40    | 39    | 46    | 27    | 49    | 37    |
| 17    | 42    | 45    | 51    | 49    | 37    | 47    | 37    | 38    | 45    | 33    | 48    | 38    |
| 18    | 43    | 43    | 50    | 51    | 37    | 46    | 40    | 39    | 42    | 33    | 43    | 101   |
| 19    | 44    | 47    | 51    | 57    | 42    | 37    | 43    | 40    | 36    | 29    | 43    | 114   |
| 20    | 40    | 49    | 51    | 52    | 47    | 32    | 45    | 41    | 34    | 34    | 42    | 50    |
| 21    | 39    | 46    | 51    | 53    | 45    | 34    | 40    | 39    | 34    | 33    | 45    | 42    |
| 22    | 42    | 45    | 51    | 54    | 42    | 32    | 36    | 37    | 33    | 36    | 46    | 40    |
| 23    | 43    | 42    | 51    | 53    | 40    | 30    | 36    | 35    | 33    | 37    | 43    | 39    |
| 24    | 42    | 47    | 53    | 51    | 39    | 31    | 39    | 35    | 33    | 33    | 38    | 36    |
| 25    | 42    | 50    | 55    | 48    | 40    | 39    | 44    | 36    | 34    | 31    | 36    | 30    |
| 26    | 45    | 51    | 51    | 50    | 40    | 40    | 44    | 37    | 33    | 28    | 44    | 38    |
| 27    | 43    | 53    | 49    | 50    | 38    | 42    | 46    | 38    | 31    | 26    | 47    | 40    |
| 28    | 43    | 53    | 56    | 50    | 39    | 43    | 47    | 42    | 27    | 26    | 51    | 46    |
| 29    | 43    | 50    | 57    | 50    | 40    | 46    | 41    | 42    | 26    | 23    | 46    | 47    |
| 30    | 46    | 51    | 52    | 51    | ----- | 47    | 33    | 40    | 22    | 23    | 47    | 47    |
| 31    | 49    | ----- | 53    | 52    | ----- | 51    | ----- | 51    | ----- | 27    | 45    | ----- |
| TOTAL | 1,267 | 1,336 | 1,580 | 1,586 | 1,364 | 1,246 | 1,228 | 1,261 | 1,133 | 887   | 1,357 | 1,464 |
| MEAN  | 40.9  | 44.5  | 51.0  | 51.2  | 47.0  | 40.2  | 40.9  | 40.7  | 37.8  | 28.6  | 43.8  | 48.8  |
| MAX   | 49    | 53    | 57    | 57    | 56    | 51    | 51    | 51    | 49    | 37    | 100   | 114   |
| MIN   | 29    | 34    | 48    | 48    | 37    | 30    | 30    | 35    | 22    | 20    | 22    | 30    |
| AC-FT | 2,510 | 2,650 | 3,130 | 3,150 | 2,710 | 2,470 | 2,440 | 2,500 | 2,250 | 1,760 | 2,690 | 2,900 |

CAL YR 1971 TOTAL 14,226 MEAN 39.0 MAX 62 MIN 16 AC-FT 28,220  
WFR YR 1972 TOTAL 15,709 MEAN 42.9 MAX 114 MIN 20 AC-FT 31,160

Peak discharge (base, 100 cfs).--Aug. 13 (time unknown) e 350 cfs (g.ht. unknown); Sept. 18 (1445) 393 cfs (7.87 ft).

e Estimated.

## LAS VEGAS WASH BASIN

41

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 miles north-northwest of Boulder City.

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

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

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

EXTREMES.--Current year: Maximum discharge, 485 cfs Aug. 14 (gage height, 5.65 ft); minimum daily, 24 cfs July 30.

Period of record: Maximum discharge, 485 cfs Aug. 14, 1972 (gage height, 5.65 ft); minimum, 14 cfs July 7, 8, 1971.

Flood of June 26, 1964, reached a stage of 7.5 ft, from floodmarks (discharge, 1,050 cfs, from indirect measurement of peak flow) and another flood between 1964 and 1969 reached a stage of about 10 ft, from floodmarks (discharge, about 1,700 cfs, from rating curve extended above 300 cfs on basis of theoretical weir and culvert formulas).

REMARKS.--Records good. In closed basin above station, 2,150 acres 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 45    | 60    | 62    | 68    | 68    | 48    | 59    | 35    | 52    | 33    | 32    | 59    |
| 2     | 49    | 62    | 62    | 68    | 68    | 49    | 57    | 39    | 48    | 33    | 28    | 58    |
| 3     | 52    | 62    | 59    | 66    | 67    | 48    | 57    | 40    | 46    | 31    | 26    | 55    |
| 4     | 57    | 60    | 60    | 63    | 67    | 46    | 59    | 38    | 38    | 30    | 27    | 59    |
| 5     | 58    | 57    | 59    | 63    | 69    | 49    | 60    | 37    | 38    | 29    | 31    | 60    |
| 6     | 57    | 57    | 60    | 66    | 69    | 54    | 58    | 42    | 42    | 29    | 37    | 66    |
| 7     | 54    | 58    | 60    | 68    | 69    | 52    | 53    | 44    | 44    | 30    | 41    | 69    |
| 8     | 54    | 54    | 59    | 67    | 69    | 51    | 51    | 44    | 45    | 33    | 42    | 71    |
| 9     | 55    | 48    | 60    | 64    | 69    | 49    | 49    | 44    | 47    | 36    | 43    | 69    |
| 10    | 57    | 48    | 63    | 66    | 68    | 52    | 44    | 44    | 50    | 35    | 38    | 68    |
| 11    | 57    | 47    | 63    | 64    | 63    | 49    | 45    | 45    | 47    | 40    | 37    | 64    |
| 12    | 51    | 47    | 60    | 68    | 66    | 54    | 43    | 40    | 45    | 41    | 44    | 63    |
| 13    | 45    | 48    | 64    | 66    | 67    | 55    | 45    | 40    | 45    | 35    | 96    | 62    |
| 14    | 41    | 48    | 64    | 64    | 67    | 54    | 49    | 38    | 44    | 36    | 164   | 57    |
| 15    | 40    | 52    | 64    | 64    | 66    | 47    | 49    | 36    | 45    | 38    | 96    | 57    |
| 16    | 42    | 57    | 63    | 67    | 62    | 48    | 47    | 36    | 48    | 35    | 66    | 54    |
| 17    | 49    | 60    | 62    | 64    | 55    | 53    | 45    | 38    | 51    | 36    | 54    | 53    |
| 18    | 54    | 57    | 63    | 66    | 53    | 54    | 46    | 37    | 48    | 37    | 53    | 67    |
| 19    | 57    | 53    | 63    | 64    | 55    | 48    | 51    | 39    | 43    | 35    | 47    | 185   |
| 20    | 55    | 54    | 63    | 62    | 62    | 42    | 52    | 40    | 44    | 37    | 48    | 88    |
| 21    | 52    | 59    | 63    | 64    | 60    | 41    | 52    | 40    | 41    | 36    | 49    | 66    |
| 22    | 51    | 57    | 64    | 67    | 59    | 42    | 46    | 37    | 41    | 39    | 53    | 58    |
| 23    | 53    | 57    | 64    | 67    | 55    | 42    | 43    | 36    | 38    | 40    | 51    | 54    |
| 24    | 56    | 53    | 68    | 63    | 52    | 41    | 42    | 34    | 39    | 35    | 49    | 53    |
| 25    | 55    | 58    | 69    | 60    | 51    | 43    | 46    | 35    | 40    | 33    | 44    | 48    |
| 26    | 54    | 60    | 66    | 63    | 51    | 48    | 47    | 38    | 39    | 30    | 47    | 45    |
| 27    | 55    | 62    | 62    | 62    | 47    | 49    | 46    | 41    | 39    | 28    | 53    | 51    |
| 28    | 54    | 63    | 68    | 63    | 49    | 52    | 48    | 44    | 38    | 27    | 63    | 52    |
| 29    | 55    | 62    | 71    | 63    | 51    | 53    | 46    | 45    | 35    | 25    | 60    | 57    |
| 30    | 55    | 60    | 69    | 64    | ----- | 54    | 39    | 46    | 34    | 24    | 57    | 55    |
| 31    | 59    | ----- | 68    | 64    | ----- | 57    | ----- | 45    | ----- | 30    | 59    | ----- |
| TOTAL | 1,628 | 1,680 | 1,965 | 2,008 | 1,774 | 1,524 | 1,474 | 1,237 | 1,294 | 1,036 | 1,635 | 1,923 |
| MEAN  | 52.5  | 56.0  | 63.4  | 64.8  | 61.2  | 49.2  | 49.1  | 39.9  | 43.1  | 33.4  | 52.7  | 64.1  |
| MAX   | 59    | 63    | 71    | 68    | 69    | 57    | 60    | 46    | 52    | 41    | 164   | 185   |
| MIN   | 40    | 47    | 59    | 60    | 47    | 41    | 39    | 34    | 34    | 24    | 76    | 45    |
| AC-FT | 3,230 | 3,330 | 3,900 | 3,980 | 3,520 | 3,020 | 2,920 | 2,450 | 2,570 | 2,050 | 3,240 | 3,810 |

CAL YR 1971 TOTAL 17,542 MEAN 48.1 MAX 72 MIN 17 AC-FT 34,790  
WTR YR 1972 TOTAL 19,178 MEAN 52.4 MAX 185 MIN 24 AC-FT 38,040

# COLORADO RIVER MAIN STEM

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

42

LOCATION.--Lat 36°00'58", long 114°44'13", in NE $\frac{1}{4}$ SW $\frac{1}{4}$  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 sq mi, 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 above mean sea level, used locally as at mean sea level, powerhouse datum.

EXTREMES.--Current year: Maximum contents, 17,939,000 acre-ft Feb. 6 (gage height, 1,162.59 ft); minimum, 16,887,000 acre-ft Oct. 1 (gage height, 1,153.62 ft).

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

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr. 1, 1967), 29,755,000 acre-ft, consisting of the following: dead storage, 2,378,000 acre-ft below gage height 895.0 ft (gate sills in outlet towers); usable contents, 26,159,000 acre-ft between gage heights 895.0 and 1,221.4 ft (top of automatic spillway gates in raised position); and uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, and power development. Figures given herein represent usable contents. 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 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 1971 TO SEPTEMBER 1972

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1   | 16,887 | 16,976 | 17,250 | 17,677 | 17,900 | 17,717 | 17,170 | 17,007 | 16,977 | 17,012 | 17,015 | 17,196 |
| 2   | 16,888 | 16,977 | 17,251 | 17,703 | 17,894 | 17,690 | 17,173 | 16,993 | 16,976 | 17,028 | 17,016 | 17,215 |
| 3   | 16,911 | 16,977 | 17,256 | 17,703 | 17,897 | 17,670 | 17,153 | 16,985 | 16,999 | 17,024 | 17,021 | 17,229 |
| 4   | 16,910 | 16,981 | 17,276 | 17,691 | 17,902 | 17,670 | 17,129 | 16,989 | 17,028 | 17,032 | 17,025 | 17,236 |
| 5   | 16,909 | 16,989 | 17,299 | 17,689 | 17,921 | 17,670 | 17,106 | 16,983 | 17,017 | 17,019 | 17,037 | 17,230 |
| 6   | 16,912 | 16,993 | 17,310 | 17,698 | 17,939 | 17,652 | 17,080 | 17,001 | 17,010 | 16,997 | 17,052 | 17,225 |
| 7   | 16,912 | 17,010 | 17,314 | 17,722 | 17,938 | 17,631 | 17,051 | 17,017 | 17,009 | 16,980 | 17,053 | 17,225 |
| 8   | 16,911 | 17,017 | 17,317 | 17,743 | 17,935 | 17,605 | 17,056 | 17,005 | 17,009 | 16,970 | 17,046 | 17,228 |
| 9   | 16,918 | 17,019 | 17,329 | 17,765 | 17,924 | 17,578 | 17,060 | 16,990 | 17,007 | 16,983 | 17,045 | 17,240 |
| 10  | 16,927 | 17,016 | 17,338 | 17,769 | 17,914 | 17,554 | 17,036 | 16,977 | 17,016 | 16,983 | 17,044 | 17,257 |
| 11  | 16,925 | 17,025 | 17,357 | 17,769 | 17,910 | 17,556 | 17,013 | 16,974 | 17,031 | 16,974 | 17,048 | 17,260 |
| 12  | 16,926 | 17,032 | 17,376 | 17,766 | 17,918 | 17,562 | 16,978 | 16,974 | 17,027 | 16,965 | 17,068 | 17,257 |
| 13  | 16,917 | 17,050 | 17,386 | 17,776 | 17,926 | 17,545 | 16,965 | 16,990 | 17,015 | 16,963 | 17,097 | 17,257 |
| 14  | 16,912 | 17,066 | 17,391 | 17,787 | 17,920 | 17,526 | 16,962 | 17,008 | 16,997 | 16,962 | 17,107 | 17,259 |
| 15  | 16,914 | 17,075 | 17,399 | 17,805 | 17,910 | 17,497 | 16,974 | 17,004 | 16,994 | 16,976 | 17,108 | 17,266 |
| 16  | 16,926 | 17,076 | 17,412 | 17,824 | 17,894 | 17,475 | 17,002 | 16,992 | 16,989 | 16,983 | 17,108 | 17,286 |
| 17  | 16,943 | 17,075 | 17,427 | 17,831 | 17,888 | 17,456 | 17,002 | 16,983 | 17,008 | 16,999 | 17,118 | 17,317 |
| 18  | 16,939 | 17,084 | 17,447 | 17,834 | 17,880 | 17,443 | 16,996 | 16,978 | 17,027 | 16,991 | 17,126 | 17,337 |
| 19  | 16,942 | 17,098 | 17,472 | 17,829 | 17,883 | 17,442 | 16,991 | 16,968 | 17,025 | 16,980 | 17,144 | 17,348 |
| 20  | 16,941 | 17,115 | 17,485 | 17,834 | 17,884 | 17,420 | 16,990 | 16,977 | 17,019 | 16,980 | 17,168 | 17,368 |
| 21  | 16,942 | 17,136 | 17,493 | 17,842 | 17,873 | 17,397 | 16,990 | 16,988 | 17,001 | 16,984 | 17,172 | 17,382 |
| 22  | 16,944 | 17,152 | 17,515 | 17,857 | 17,854 | 17,368 | 17,008 | 16,970 | 17,010 | 16,997 | 17,165 | 17,389 |
| 23  | 16,954 | 17,167 | 17,536 | 17,875 | 17,838 | 17,351 | 17,030 | 16,951 | 17,012 | 17,014 | 17,166 | 17,403 |
| 24  | 16,963 | 17,184 | 17,561 | 17,877 | 17,820 | 17,334 | 17,025 | 16,930 | 17,025 | 17,013 | 17,178 | 17,419 |
| 25  | 16,966 | 17,208 | 17,588 | 17,868 | 17,802 | 17,326 | 17,021 | 16,927 | 17,037 | 17,009 | 17,193 | 17,426 |
| 26  | 16,965 | 17,227 | 17,613 | 17,859 | 17,792 | 17,327 | 17,014 | 16,930 | 17,030 | 16,999 | 17,208 | 17,426 |
| 27  | 16,955 | 17,238 | 17,615 | 17,867 | 17,787 | 17,299 | 17,007 | 16,954 | 17,017 | 16,992 | 17,223 | 17,424 |
| 28  | 16,950 | 17,251 | 17,616 | 17,871 | 17,763 | 17,267 | 16,999 | 16,977 | 17,006 | 16,992 | 17,217 | 17,431 |
| 29  | 16,955 | 17,256 | 17,615 | 17,883 | 17,741 | 17,237 | 17,006 | 16,992 | 17,001 | 17,009 | 17,201 | 17,436 |
| 30  | 16,965 | 17,258 | 17,629 | 17,898 | -----  | 17,204 | 17,015 | 16,982 | 16,999 | 17,028 | 17,194 | 17,451 |
| 31  | 16,976 | -----  | 17,645 | 17,901 | -----  | 17,174 | -----  | 16,970 | -----  | 17,027 | 17,193 | -----  |

(\*) 1,154.40 1,156.84 1,160.13 1,162.27 1,160.94 1,156.12 1,154.74 1,154.35 1,154.60 1,154.84 1,156.28 1,158.49

(†) +90,000 +282,000 +387,000 +256,000 -160,000 -567,000 -159,000 -45,000 +29,000 +28,000 +166,000 +258,000

(\*) 4,500 3,730 3,100 2,820 2,900 4,670 4,850 6,990 8,140 9,180 8,240 7,170

(\*\*) 7.7 6.0 6.8 4.2 2.9 4.2 6.2 7.4 7.5 9.4 8.3 7.9

(††) 73,700 57,700 66,600 41,800 29,000 41,200 59,500 70,700 71,800 89,900 79,800 76,900

CAL YR 1971..... †+834,000 †45,190 \*\* 80.9 †† 762,400

WTR YR 1972..... †+565,000 †66,290 \*\* 78.5 †† 758,600

\* 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 1

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.

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

AVERAGE DISCHARGE.--38 years (1934-72), 13,520 cfs (9,795,000 acre-ft per year), unadjusted for storage in Lake Mead.

EXTREMES.--Current year: Maximum daily discharge, 22,400 cfs Mar. 31; minimum daily, 3,120 cfs Nov. 25.  
Period of record: Maximum daily discharge, 36,000 cfs Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily discharge, 152 cfs 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.

|    | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1  | 11,400 | 11,000 | 8,820  | 4,200  | 11,200 | 16,700 | 10,000 | 17,100 | 15,400 | 8,620  | 17,400 | 13,600 |
| 2  | 4,500  | 10,600 | 10,300 | 5,960  | 14,400 | 16,400 | 5,070  | 17,600 | 16,400 | 7,290  | 13,500 | 6,970  |
| 3  | 3,710  | 10,000 | 9,680  | 12,800 | 14,000 | 16,100 | 19,100 | 16,600 | 6,900  | 14,900 | 12,900 | 7,670  |
| 4  | 11,500 | 11,600 | 5,060  | 13,000 | 13,800 | 7,800  | 18,400 | 14,700 | 4,710  | 5,540  | 14,000 | 10,900 |
| 5  | 11,400 | 10,600 | 5,470  | 12,800 | 5,340  | 6,800  | 18,400 | 18,700 | 16,700 | 16,200 | 8,550  | 16,100 |
| 6  | 10,800 | 6,460  | 9,780  | 11,900 | 4,220  | 15,100 | 19,500 | 6,620  | 14,000 | 20,300 | 6,670  | 13,000 |
| 7  | 9,550  | 4,270  | 10,100 | 10,200 | 12,400 | 15,500 | 19,200 | 7,510  | 13,500 | 16,500 | 13,300 | 12,600 |
| 8  | 10,700 | 9,570  | 9,750  | 5,030  | 11,500 | 15,900 | 11,100 | 18,500 | 14,100 | 14,500 | 14,400 | 11,700 |
| 9  | 5,240  | 10,400 | 9,050  | 5,810  | 11,900 | 16,500 | 6,500  | 17,000 | 13,700 | 6,750  | 15,000 | 7,470  |
| 10 | 4,500  | 10,700 | 9,800  | 10,300 | 12,800 | 15,800 | 21,100 | 17,500 | 6,780  | 13,600 | 15,800 | 5,270  |
| 11 | 11,100 | 9,680  | 5,840  | 11,500 | 12,400 | 8,880  | 19,800 | 16,100 | 4,550  | 15,900 | 15,100 | 11,500 |
| 12 | 11,000 | 9,620  | 5,650  | 9,640  | 6,600  | 4,200  | 20,300 | 16,600 | 14,900 | 14,900 | 7,060  | 13,900 |
| 13 | 12,400 | 5,220  | 11,000 | 10,300 | 5,320  | 15,100 | 20,400 | 10,400 | 15,500 | 15,700 | 4,170  | 13,200 |
| 14 | 8,560  | 5,080  | 11,300 | 10,500 | 13,300 | 16,000 | 17,200 | 5,460  | 18,500 | 15,800 | 12,400 | 14,900 |
| 15 | 9,590  | 10,100 | 8,570  | 4,460  | 13,200 | 17,900 | 10,100 | 17,500 | 17,500 | 8,380  | 9,220  | 11,500 |
| 16 | 4,320  | 10,300 | 8,740  | 4,370  | 12,600 | 16,900 | 4,370  | 17,400 | 17,100 | 5,350  | 12,700 | 8,200  |
| 17 | 3,620  | 10,300 | 11,300 | 9,630  | 12,600 | 17,000 | 16,700 | 16,900 | 5,610  | 12,000 | 12,200 | 4,380  |
| 18 | 8,690  | 8,130  | 6,660  | 10,700 | 11,200 | 9,090  | 17,100 | 17,900 | 5,830  | 14,700 | 11,900 | 12,700 |
| 19 | 9,360  | 6,710  | 5,610  | 11,300 | 6,300  | 5,240  | 20,200 | 17,500 | 14,100 | 14,700 | 7,580  | 10,600 |
| 20 | 8,500  | 4,180  | 9,710  | 10,300 | 4,470  | 17,100 | 17,700 | 5,570  | 15,400 | 12,000 | 5,740  | 12,800 |
| 21 | 8,420  | 4,560  | 9,020  | 9,810  | 11,300 | 15,500 | 17,200 | 4,940  | 16,100 | 11,800 | 15,800 | 11,600 |
| 22 | 9,880  | 6,040  | 8,450  | 4,590  | 12,100 | 17,200 | 7,560  | 19,100 | 12,000 | 7,590  | 15,800 | 11,000 |
| 23 | 4,110  | 6,420  | 8,100  | 5,200  | 13,200 | 15,500 | 5,310  | 17,600 | 14,700 | 6,260  | 16,100 | 7,000  |
| 24 | 3,880  | 6,200  | 5,150  | 9,780  | 10,200 | 16,700 | 15,400 | 16,100 | 7,360  | 13,300 | 10,500 | 5,280  |
| 25 | 5,390  | 3,120  | 3,190  | 13,800 | 13,600 | 7,510  | 15,000 | 16,300 | 7,190  | 12,500 | 9,790  | 10,100 |
| 26 | 9,220  | 5,990  | 4,520  | 10,900 | 10,300 | 4,920  | 16,200 | 16,400 | 16,900 | 14,500 | 7,510  | 11,100 |
| 27 | 9,560  | 4,410  | 9,940  | 12,600 | 7,780  | 21,300 | 18,500 | 7,240  | 19,200 | 18,100 | 5,810  | 11,800 |
| 28 | 10,900 | 3,700  | 8,900  | 11,800 | 14,700 | 22,000 | 16,900 | 4,650  | 19,600 | 16,800 | 16,400 | 13,100 |
| 29 | 9,760  | 6,170  | 9,380  | 6,790  | 18,000 | 21,400 | 9,700  | 6,400  | 18,400 | 8,520  | 18,000 | 12,400 |
| 30 | 6,2    |        |        |        |        |        |        |        |        |        |        |        |



## COLORADO RIVER MAIN STEM

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

LOCATION.--Lat 35°11'50", long 114°34'07", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> 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 miles west of Kingman, Ariz., and 67 miles downstream from Hoover Dam.

DRAINAGE AREA.--169,300 sq mi, 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, 1,751,000 acre-ft June 2, 3 (elevation, 644.90 ft); minimum, 1,388,000 acre-ft Aug. 28 (elevation, 631.19 ft).

Period of record: Maximum contents, 1,811,000 acre-ft May 24, 1958, May 29, 1963; maximum elevation, 647.04 ft May 29, 1963; minimum contents (since 1952), 1,168,000 acre-ft Sept. 8, 1953 (elevation, 622.15 ft).

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft between elevations 533.39 ft (lowest point of penstock outlet) and 647.0 ft (top of spillway gates). A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft below elevation 533.39 ft. Lake is used for power development, 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 |

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY | OCT    | NOV     | DEC     | JAN     | FEB     | MAR     | APR    | MAY     | JUN     | JUL      | AUG     | SEP     |
|-----|--------|---------|---------|---------|---------|---------|--------|---------|---------|----------|---------|---------|
| 1   | 1,451  | 1,451   | 1,485   | 1,531   | 1,644   | 1,676   | 1,674  | 1,692   | 1,738   | 1,674    | 1,502   | 1,463   |
| 2   | 1,447  | 1,458   | 1,492   | 1,526   | 1,657   | 1,686   | 1,661  | 1,699   | 1,751   | 1,662    | 1,500   | 1,456   |
| 3   | 1,439  | 1,461   | 1,500   | 1,539   | 1,666   | 1,690   | 1,666  | 1,704   | 1,737   | 1,655    | 1,494   | 1,450   |
| 4   | 1,445  | 1,468   | 1,499   | 1,543   | 1,671   | 1,680   | 1,670  | 1,703   | 1,723   | 1,635    | 1,489   | 1,449   |
| 5   | 1,448  | 1,477   | 1,497   | 1,549   | 1,663   | 1,674   | 1,677  | 1,706   | 1,727   | 1,635    | 1,472   | 1,459   |
| 6   | 1,452  | 1,472   | 1,504   | 1,554   | 1,653   | 1,676   | 1,683  | 1,685   | 1,726   | 1,649    | 1,460   | 1,459   |
| 7   | 1,452  | 1,464   | 1,511   | 1,556   | 1,658   | 1,678   | 1,687  | 1,677   | 1,730   | 1,653    | 1,454   | 1,460   |
| 8   | 1,456  | 1,468   | 1,516   | 1,552   | 1,660   | 1,681   | 1,677  | 1,679   | 1,738   | 1,653    | 1,455   | 1,456   |
| 9   | 1,448  | 1,473   | 1,517   | 1,547   | 1,663   | 1,684   | 1,665  | 1,688   | 1,739   | 1,644    | 1,464   | 1,446   |
| 10  | 1,439  | 1,480   | 1,516   | 1,546   | 1,664   | 1,687   | 1,674  | 1,696   | 1,727   | 1,642    | 1,470   | 1,437   |
| 11  | 1,442  | 1,485   | 1,510   | 1,556   | 1,667   | 1,677   | 1,678  | 1,702   | 1,711   | 1,642    | 1,470   | 1,436   |
| 12  | 1,445  | 1,490   | 1,503   | 1,563   | 1,658   | 1,664   | 1,685  | 1,707   | 1,715   | 1,642    | 1,456   | 1,434   |
| 13  | 1,450  | 1,486   | 1,512   | 1,572   | 1,647   | 1,664   | 1,700  | 1,699   | 1,720   | 1,637    | 1,442   | 1,436   |
| 14  | 1,448  | 1,485   | 1,515   | 1,580   | 1,652   | 1,668   | 1,711  | 1,684   | 1,738   | 1,631    | 1,437   | 1,440   |
| 15  | 1,444  | 1,489   | 1,520   | 1,574   | 1,658   | 1,677   | 1,708  | 1,690   | 1,740   | 1,609    | 1,429   | 1,438   |
| 16  | 1,434  | 1,492   | 1,522   | 1,568   | 1,661   | 1,681   | 1,694  | 1,700   | 1,740   | 1,596    | 1,429   | 1,428   |
| 17  | 1,422  | 1,497   | 1,522   | 1,573   | 1,666   | 1,688   | 1,697  | 1,707   | 1,721   | 1,585    | 1,430   | 1,418   |
| 18  | 1,424  | 1,496   | 1,517   | 1,581   | 1,666   | 1,677   | 1,703  | 1,712   | 1,710   | 1,586    | 1,429   | 1,420   |
| 19  | 1,430  | 1,494   | 1,513   | 1,591   | 1,657   | 1,667   | 1,712  | 1,720   | 1,707   | 1,586    | 1,421   | 1,426   |
| 20  | 1,433  | 1,482   | 1,516   | 1,597   | 1,646   | 1,669   | 1,716  | 1,704   | 1,708   | 1,576    | 1,409   | 1,431   |
| 21  | 1,437  | 1,480   | 1,524   | 1,603   | 1,644   | 1,665   | 1,716  | 1,690   | 1,712   | 1,566    | 1,414   | 1,431   |
| 22  | 1,439  | 1,478   | 1,530   | 1,598   | 1,642   | 1,666   | 1,696  | 1,702   | 1,704   | 1,545    | 1,421   | 1,426   |
| 23  | 1,429  | 1,480   | 1,538   | 1,598   | 1,646   | 1,664   | 1,682  | 1,716   | 1,698   | 1,533    | 1,427   | 1,414   |
| 24  | 1,422  | 1,480   | 1,535   | 1,601   | 1,646   | 1,662   | 1,681  | 1,733   | 1,682   | 1,525    | 1,419   | 1,407   |
| 25  | 1,416  | 1,475   | 1,527   | 1,614   | 1,651   | 1,642   | 1,682  | 1,743   | 1,672   | 1,518    | 1,411   | 1,402   |
| 26  | 1,423  | 1,477   | 1,525   | 1,622   | 1,651   | 1,633   | 1,689  | 1,743   | 1,674   | 1,518    | 1,401   | 1,404   |
| 27  | 1,427  | 1,474   | 1,525   | 1,630   | 1,647   | 1,641   | 1,696  | 1,734   | 1,683   | 1,526    | 1,390   | 1,406   |
| 28  | 1,439  | 1,472   | 1,530   | 1,638   | 1,652   | 1,652   | 1,703  | 1,721   | 1,690   | 1,529    | 1,402   | 1,410   |
| 29  | 1,441  | 1,474   | 1,538   | 1,636   | 1,666   | 1,664   | 1,697  | 1,709   | 1,693   | 1,515    | 1,420   | 1,410   |
| 30  | 1,440  | 1,477   | 1,536   | 1,628   | -----   | 1,674   | 1,689  | 1,710   | 1,692   | 1,507    | 1,438   | 1,404   |
| 31  | 1,441  | -----   | 1,538   | 1,633   | -----   | 1,686   | -----  | 1,723   | -----   | 1,503    | 1,454   | -----   |
| MAX | 1,456  | 1,497   | 1,538   | 1,638   | 1,671   | 1,690   | 1,716  | 1,743   | 1,751   | 1,674    | 1,502   | 1,463   |
| MIN | 1,416  | 1,451   | 1,485   | 1,526   | 1,642   | 1,633   | 1,661  | 1,677   | 1,672   | 1,503    | 1,390   | 1,402   |
| (+) | 633.25 | 634.65  | 637.00  | 640.58  | 641.80  | 642.55  | 642.64 | 643.88  | 642.76  | 635.65   | 633.78  | 631.80  |
| (#) | 0      | +36,000 | +61,000 | +95,000 | +33,000 | +20,000 | +3,000 | +34,000 | -31,000 | -189,000 | -49,000 | -50,000 |

CAL YR 1971 MAX 1,804 MIN 1,416 +15,000  
WTR YR 1972 MAX 1,751 MIN 1,390 +37,000

+ 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

45

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 mile downstream from Davis Dam, 29 miles west of Kingman, Ariz., and 68 miles downstream from Hoover Dam.

DRAINAGE AREA.--169,300 sq mi, 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 above mean sea level; gage readings have been reduced to elevations above mean sea level. 1905-7, nonrecording gage at site 4.8 miles downstream at datum about 13.4 ft lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mile downstream at present datum. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft upstream at present datum.

AVERAGE DISCHARGE.--23 years (1949-72), 12,760 cfs (9,245,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 26,600 cfs July 15 (elevation, 506.00 ft); minimum daily, 4,610 cfs Nov. 28.

1905-7: Maximum daily discharge, 116,000 cfs June 20, 1906; minimum daily, 2,850 cfs Jan. 5, 1906.

1949-72: Maximum discharge, 31,200 cfs Apr. 22, 1952 (elevation, 513.91 ft); 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 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT             | NOV     | DEC         | JAN     | FEB        | MAR     | APR       | MAY     | JUN             | JUL     | AUG     | SEP     |
|-------------|-----------------|---------|-------------|---------|------------|---------|-----------|---------|-----------------|---------|---------|---------|
| 1           | 6,860           | 5,230   | 6,730       | 7,280   | 7,700      | 10,500  | 17,700    | 14,900  | 7,520           | 18,900  | 16,800  | 10,300  |
| 2           | 6,720           | 7,090   | 5,860       | 7,190   | 6,300      | 11,400  | 13,000    | 14,700  | 9,750           | 13,100  | 15,200  | 11,200  |
| 3           | 7,710           | 7,670   | 5,960       | 8,240   | 8,970      | 14,200  | 17,800    | 14,600  | 14,300          | 19,100  | 16,300  | 9,720   |
| 4           | 7,650           | 7,630   | 5,920       | 9,090   | 10,500     | 13,600  | 16,600    | 16,300  | 13,200          | 15,900  | 16,200  | 11,700  |
| 5           | 9,550           | 7,550   | 5,880       | 9,720   | 9,830      | 10,000  | 15,300    | 16,800  | 14,700          | 16,800  | 18,100  | 11,000  |
| 6           | 8,730           | 7,980   | 6,750       | 9,310   | 9,820      | 14,700  | 17,200    | 18,300  | 14,000          | 13,800  | 13,200  | 12,300  |
| 7           | 9,450           | 7,860   | 6,620       | 8,230   | 10,400     | 15,000  | 17,200    | 13,600  | 13,300          | 14,100  | 16,500  | 12,500  |
| 8           | 9,100           | 8,060   | 5,590       | 8,180   | 10,500     | 14,900  | 17,200    | 15,500  | 9,570           | 14,700  | 15,100  | 12,500  |
| 9           | 9,040           | 8,550   | 6,970       | 7,770   | 11,400     | 15,300  | 12,600    | 14,700  | 13,700          | 11,800  | 9,980   | 13,300  |
| 10          | 9,540           | 7,050   | 9,290       | 9,210   | 11,400     | 15,000  | 17,400    | 12,800  | 13,700          | 14,200  | 12,200  | 9,750   |
| 11          | 9,810           | 7,120   | 9,880       | 6,970   | 11,100     | 14,600  | 18,000    | 12,900  | 13,000          | 16,000  | 15,400  | 12,900  |
| 12          | 9,710           | 6,980   | 8,200       | 5,580   | 11,500     | 10,200  | 16,200    | 14,200  | 13,200          | 16,000  | 15,400  | 14,900  |
| 13          | 9,590           | 7,020   | 8,290       | 6,390   | 10,200     | 16,100  | 14,900    | 14,800  | 13,200          | 18,000  | 12,800  | 12,900  |
| 14          | 9,750           | 6,970   | 7,980       | 6,580   | 11,400     | 15,100  | 11,300    | 14,000  | 11,700          | 19,100  | 14,800  | 12,400  |
| 15          | 10,900          | 7,980   | 6,390       | 7,030   | 10,300     | 14,100  | 11,600    | 14,800  | 14,300          | 20,000  | 13,700  | 12,800  |
| 16          | 10,800          | 9,140   | 8,580       | 6,900   | 11,000     | 14,800  | 11,600    | 12,600  | 17,100          | 13,700  | 12,100  | 13,400  |
| 17          | 9,520           | 8,060   | 9,180       | 6,680   | 10,300     | 13,100  | 15,400    | 13,800  | 16,400          | 17,800  | 12,200  | 9,740   |
| 18          | 8,320           | 9,150   | 9,160       | 5,870   | 11,000     | 15,000  | 15,700    | 14,900  | 11,800          | 14,300  | 12,400  | 12,000  |
| 19          | 6,190           | 8,120   | 7,790       | 5,850   | 11,000     | 11,100  | 15,700    | 14,800  | 16,200          | 14,500  | 12,300  | 8,110   |
| 20          | 6,790           | 8,490   | 8,130       | 7,130   | 11,100     | 17,100  | 15,800    | 14,700  | 15,000          | 17,600  | 12,200  | 9,210   |
| 21          | 6,990           | 6,450   | 5,300       | 6,810   | 12,200     | 17,900  | 18,000    | 12,700  | 14,200          | 17,600  | 12,500  | 11,300  |
| 22          | 8,730           | 7,010   | 5,000       | 7,080   | 13,000     | 17,500  | 19,000    | 13,100  | 16,400          | 18,700  | 12,800  | 13,300  |
| 23          | 8,880           | 5,770   | 5,210       | 7,290   | 11,400     | 17,600  | 13,200    | 10,900  | 18,500          | 13,200  | 12,700  | 13,200  |
| 24          | 7,880           | 5,560   | 6,660       | 7,110   | 10,100     | 17,800  | 17,000    | 8,130   | 16,400          | 17,900  | 14,900  | 9,890   |
| 25          | 8,480           | 5,490   | 5,650       | 6,880   | 11,300     | 17,900  | 14,400    | 12,200  | 12,800          | 16,800  | 14,800  | 10,800  |
| 26          | 5,690           | 5,090   | 6,640       | 7,850   | 11,300     | 11,800  | 13,500    | 16,700  | 15,600          | 14,600  | 12,900  | 11,000  |
| 27          | 6,430           | 6,380   | 9,340       | 8,230   | 10,100     | 18,100  | 14,100    | 12,700  | 15,200          | 14,500  | 11,600  | 10,900  |
| 28          | 6,430           | 4,610   | 6,770       | 8,880   | 11,600     | 16,800  | 13,400    | 12,000  | 16,100          | 15,200  | 9,730   | 12,000  |
| 29          | 7,070           | 4,760   | 6,370       | 8,800   | 11,400     | 16,800  | 13,400    | 12,400  | 18,100          | 16,900  | 7,930   | 11,800  |
| 30          | 6,580           | 6,000   | 7,860       | 7,780   | -----      | 16,700  | 12,300    | 16,800  | 19,600          | 12,900  | 8,130   | 10,700  |
| 31          | 5,770           | -----   | 7,280       | 7,290   | -----      | 15,600  | -----     | 12,400  | -----           | 18,100  | 11,300  | -----   |
| TOTAL       | 254,660         | 210,720 | 221,230     | 233,200 | 308,120    | 460,300 | 456,500   | 433,130 | 428,540         | 495,800 | 412,170 | 347,520 |
| MEAN        | 8,215           | 7,024   | 7,136       | 7,523   | 10,620     | 14,850  | 15,220    | 13,970  | 14,280          | 15,990  | 13,300  | 11,580  |
| MAX         | 10,900          | 9,150   | 9,880       | 9,720   | 13,000     | 18,100  | 19,000    | 18,300  | 19,600          | 20,000  | 18,100  | 14,900  |
| MIN         | 5,690           | 4,610   | 5,000       | 5,580   | 6,300      | 10,000  | 11,300    | 8,130   | 7,520           | 11,800  | 7,930   | 8,110   |
| AC-FT       | 505,100         | 418,000 | 438,800     | 462,600 | 611,200    | 913,000 | 905,500   | 859,100 | 850,000         | 983,400 | 817,500 | 689,300 |
| CAL YR 1971 | TOTAL 4,157,780 |         | MEAN 11,390 |         | MAX 18,800 |         | MIN 4,610 |         | AC-FT 8,247,000 |         |         |         |
| WTR YR 1972 | TOTAL 4,261,890 |         | MEAN 11,640 |         | MAX 20,000 |         | MIN 4,610 |         | AC-FT 8,453,000 |         |         |         |

## RUBY VALLEY

10244620 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 mile above Horse Creek and 3.5 miles northeast of Arthur.

DRAINAGE AREA.--10.3 sq mi.

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

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

AVERAGE DISCHARGE.--8 years, 11.5 cfs (8,330 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 81 cfs May 31 (gage height, 2.19 ft); minimum, 1.5 cfs Sept. 16, 17.

Period of record: Maximum discharge, 152 cfs June 20, 1967 (gage height, 2.32 ft); minimum daily, 0.77 cfs Sept. 6-9, 1966.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 3.5   | 3.9   | 3.5   | 3.4   | 3.3   | 5.0   | 11    | 20    | 61    | 18    | 4.4  | 2.1   |
| 2     | 4.3   | 3.9   | 3.6   | 3.5   | 3.2   | 8.0   | 12    | 21    | 59    | 18    | 4.0  | 2.1   |
| 3     | 4.8   | 3.9   | 3.5   | 3.3   | 3.2   | 11    | 11    | 24    | 60    | 17    | 3.6  | 2.0   |
| 4     | 5.0   | 4.1   | 3.4   | 3.3   | 3.3   | 10    | 10    | 29    | 53    | 16    | 3.3  | 2.0   |
| 5     | 4.1   | 3.7   | 3.5   | 3.5   | 3.3   | 10    | 10    | 33    | 50    | 15    | 3.1  | 3.2   |
| 6     | 3.7   | 3.5   | 3.6   | 3.5   | 3.3   | 10    | 11    | 37    | 53    | 15    | 2.9  | 2.3   |
| 7     | 3.3   | 3.9   | 3.4   | 3.3   | 3.5   | 9.0   | 11    | 36    | 48    | 13    | 2.7  | 2.0   |
| 8     | 3.3   | 3.7   | 3.3   | 3.3   | 3.5   | 8.5   | 11    | 37    | 53    | 13    | 2.6  | 1.9   |
| 9     | 3.3   | 3.7   | 3.5   | 3.3   | 3.5   | 10    | 11    | 35    | 51    | 12    | 2.5  | 1.9   |
| 10    | 3.5   | 3.7   | 3.5   | 3.3   | 3.5   | 10    | 11    | 34    | 45    | 12    | 2.4  | 1.8   |
| 11    | 3.3   | 3.7   | 3.5   | 3.5   | 3.7   | 10    | 12    | 34    | 41    | 12    | 2.3  | 2.1   |
| 12    | 3.3   | 3.9   | 3.4   | 3.5   | 3.7   | 11    | 13    | 36    | 37    | 11    | 2.7  | 2.1   |
| 13    | 3.5   | 3.7   | 3.5   | 3.7   | 3.8   | 11    | 12    | 40    | 37    | 10    | 3.3  | 1.9   |
| 14    | 3.3   | 3.3   | 3.5   | 3.5   | 3.7   | 11    | 12    | 47    | 37    | 10    | 3.9  | 1.8   |
| 15    | 3.5   | 3.3   | 3.5   | 3.4   | 3.6   | 11    | 12    | 49    | 35    | 9.9   | 3.5  | 1.8   |
| 16    | 3.9   | 3.4   | 3.5   | 3.3   | 3.7   | 11    | 13    | 53    | 35    | 8.5   | 2.8  | 1.7   |
| 17    | 3.9   | 3.5   | 3.5   | 3.3   | 4.0   | 11    | 13    | 54    | 35    | 7.7   | 2.5  | 1.7   |
| 18    | 3.7   | 3.5   | 3.5   | 4.1   | 3.9   | 12    | 13    | 49    | 34    | 7.5   | 2.4  | 1.9   |
| 19    | 3.7   | 3.3   | 3.3   | 4.5   | 4.1   | 12    | 12    | 45    | 31    | 7.1   | 2.5  | 3.0   |
| 20    | 3.7   | 3.5   | 3.5   | 4.1   | 4.1   | 13    | 12    | 44    | 23    | 6.9   | 2.3  | 2.1   |
| 21    | 3.7   | 3.3   | 3.5   | 3.9   | 4.2   | 14    | 12    | 39    | 28    | 7.0   | 2.2  | 2.0   |
| 22    | 3.3   | 3.1   | 3.5   | 4.1   | 4.3   | 15    | 12    | 34    | 27    | 6.3   | 2.0  | 2.0   |
| 23    | 3.3   | 3.0   | 3.5   | 3.9   | 4.3   | 16    | 13    | 33    | 24    | 5.6   | 2.0  | 1.9   |
| 24    | 3.5   | 3.1   | 3.7   | 3.7   | 4.2   | 17    | 15    | 34    | 22    | 5.1   | 2.0  | 2.0   |
| 25    | 3.5   | 3.0   | 3.7   | 3.9   | 3.9   | 17    | 17    | 36    | 21    | 4.9   | 2.0  | 2.1   |
| 26    | 3.7   | 3.3   | 3.5   | 3.8   | 4.1   | 15    | 16    | 39    | 19    | 4.6   | 1.9  | 2.2   |
| 27    | 3.9   | 3.6   | 3.4   | 3.7   | 4.6   | 14    | 17    | 43    | 19    | 5.0   | 1.9  | 2.3   |
| 28    | 3.5   | 3.7   | 3.5   | 3.5   | 5.0   | 13    | 20    | 47    | 20    | 4.4   | 2.7  | 2.3   |
| 29    | 3.4   | 3.9   | 3.4   | 3.3   | 5.2   | 12    | 23    | 50    | 19    | 4.1   | 2.6  | 2.2   |
| 30    | 3.9   | 3.7   | 3.3   | 3.3   | ----- | 12    | 21    | 49    | 19    | 4.3   | 2.3  | 2.2   |
| 31    | 3.9   | ----- | 3.4   | 3.4   | ----- | 11    | ----- | 57    | ----- | 4.7   | 2.1  | ----- |
| TOTAL | 114.2 | 106.8 | 107.9 | 111.1 | 111.7 | 360.5 | 399   | 1,218 | 1,101 | 295.6 | 83.4 | 62.6  |
| MEAN  | 3.68  | 3.56  | 3.48  | 3.58  | 3.85  | 11.6  | 13.3  | 39.3  | 36.7  | 9.54  | 2.69 | 2.09  |
| MAX   | 5.0   | 4.1   | 3.7   | 4.5   | 5.2   | 17    | 23    | 57    | 61    | 18    | 4.4  | 3.2   |
| MIN   | 3.3   | 3.0   | 3.3   | 3.3   | 3.2   | 5.0   | 10    | 20    | 19    | 4.1   | 1.9  | 1.7   |
| AC-FT | 227   | 212   | 214   | 220   | 222   | 715   | 791   | 2,420 | 2,180 | 586   | 165  | 124   |

CAL YR 1971 TOTAL 6,863.2 MEAN 18.8 MAX 107 MIN 1.8 AC-FT 13,610  
 WTR YR 1972 TOTAL 4,071.8 MEAN 11.1 MAX 61 MIN 1.7 AC-FT 8,080

## PEAK DISCHARGE (BASE, 60 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE | NOTE                                           |
|------|------|-------|-----------|------|------|-------|-----------|------------------------------------------------|
| 5-16 | 2200 | 2.05  | 62        | 6-08 | 2300 | 2.03  | 60        | NOTE.--No gage-height record Feb. 12 to May 1. |
| 5-31 | 2100 | 2.19  | 81        |      |      |       |           |                                                |

STEPTOE VALLEY

47

10244950 Steptoe Creek near Ely, Nev.  
(Hydrologic bench-mark station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.32, T.16 N., R.65 E., White Pine County, on left bank 0.1 mile upstream from Clear Creek, 0.8 mile upstream from Cave Creek, and 11 miles east-southeast of Ely.

DRAINAGE AREA.--11.1 sq mi.

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

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

AVERAGE DISCHARGE.--6 years, 7.09 cfs (5,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 9.3 cfs June 3, 8 (gage height, 1.96 ft); minimum, 3.0 cfs Mar. 1.  
Period of record: Maximum discharge, 34 cfs May 30, 31, 1969 (gage height, 2.58 ft); maximum gage height, 2.73 ft June 19, 1967;  
minimum discharge, 2.0 cfs Dec. 22, 1966.

REMARKS.--Records excellent. Water-quality records for the current year are published in Part 2 of this report. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 6.4   | 5.9   | 4.2   | 4.7   | 4.0   | 3.7   | 4.5   | 5.0   | 8.4   | 7.0   | 5.0   | 4.7   |
| 2     | 6.4   | 6.0   | 4.3   | 4.5   | 3.9   | 4.0   | 4.4   | 5.1   | 8.6   | 7.0   | 5.0   | 4.6   |
| 3     | 6.2   | 5.6   | 4.9   | 4.2   | 4.1   | 4.2   | 4.3   | 5.3   | 8.8   | 7.0   | 5.0   | 4.5   |
| 4     | 6.2   | 5.5   | 4.8   | 4.1   | 4.2   | 4.1   | 4.3   | 5.6   | 8.8   | 6.8   | 5.0   | 4.5   |
| 5     | 6.1   | 5.5   | 4.7   | 4.5   | 3.9   | 4.2   | 4.3   | 5.5   | 8.5   | 6.7   | 4.9   | 4.9   |
| 6     | 6.0   | 5.3   | 4.7   | 4.4   | 3.8   | 4.2   | 4.4   | 5.4   | 8.5   | 6.7   | 4.8   | 4.7   |
| 7     | 6.0   | 5.4   | 3.9   | 4.2   | 3.8   | 4.2   | 4.3   | 5.3   | 8.9   | 6.6   | 4.8   | 4.7   |
| 8     | 6.0   | 5.4   | 3.8   | 4.2   | 3.8   | 4.4   | 4.3   | 5.5   | 9.0   | 6.5   | 4.7   | 4.6   |
| 9     | 6.2   | 5.3   | 4.4   | 4.2   | 3.8   | 4.5   | 4.3   | 5.7   | 8.9   | 6.5   | 4.9   | 4.6   |
| 10    | 6.2   | 5.2   | 4.7   | 4.2   | 3.8   | 4.5   | 4.4   | 5.6   | 9.0   | 6.5   | 5.0   | 4.6   |
| 11    | 6.2   | 5.2   | 4.5   | 4.2   | 3.9   | 4.7   | 4.5   | 5.4   | 9.0   | 6.5   | 5.0   | 4.6   |
| 12    | 6.1   | 5.2   | 4.5   | 4.2   | 4.0   | 4.7   | 4.4   | 5.4   | 8.9   | 6.4   | 5.0   | 4.4   |
| 13    | 6.0   | 5.2   | 4.5   | 4.2   | 4.0   | 4.7   | 4.1   | 5.5   | 8.9   | 6.2   | 5.0   | 4.3   |
| 14    | 6.0   | 5.2   | 4.4   | 4.2   | 3.8   | 4.7   | 4.1   | 5.7   | 8.7   | 6.2   | 5.0   | 4.2   |
| 15    | 6.1   | 4.8   | 4.5   | 4.2   | 3.8   | 4.7   | 4.4   | 5.9   | 8.7   | 6.1   | 5.0   | 4.2   |
| 16    | 6.2   | 5.0   | 4.5   | 4.2   | 3.6   | 4.6   | 4.5   | 6.4   | 8.7   | 6.0   | 5.0   | 4.2   |
| 17    | 6.2   | 4.6   | 4.5   | 4.2   | 3.6   | 4.7   | 4.5   | 6.9   | 8.7   | 6.0   | 5.0   | 4.2   |
| 18    | 6.2   | 4.7   | 4.6   | 4.2   | 3.6   | 4.8   | 4.3   | 7.0   | 8.8   | 5.9   | 5.0   | 4.3   |
| 19    | 6.2   | 4.6   | 4.5   | 4.2   | 3.7   | 5.0   | 4.2   | 6.9   | 8.6   | 5.7   | 4.7   | 4.3   |
| 20    | 6.0   | 5.1   | 4.5   | 4.4   | 3.7   | 4.8   | 4.4   | 6.8   | 8.4   | 5.7   | 4.7   | 4.2   |
| 21    | 6.0   | 5.0   | 4.5   | 4.4   | 3.8   | 4.7   | 4.5   | 6.7   | 8.3   | 5.7   | 4.7   | 4.2   |
| 22    | 6.0   | 4.9   | 4.5   | 4.5   | 3.8   | 4.7   | 4.5   | 6.5   | 8.4   | 5.7   | 4.6   | 4.2   |
| 23    | 6.0   | 4.7   | 4.5   | 4.3   | 3.8   | 4.9   | 4.5   | 6.4   | 8.2   | 5.7   | 4.5   | 4.2   |
| 24    | 6.0   | 4.7   | 4.6   | 4.1   | 3.8   | 4.8   | 4.7   | 6.3   | 8.0   | 5.7   | 4.5   | 4.2   |
| 25    | 6.0   | 4.7   | 4.7   | 4.2   | 3.8   | 4.7   | 4.7   | 6.4   | 7.8   | 5.6   | 4.5   | 4.2   |
| 26    | 6.0   | 4.7   | 3.7   | 3.9   | 3.8   | 4.6   | 4.7   | 6.7   | 7.6   | 5.5   | 4.5   | 4.2   |
| 27    | 6.0   | 4.7   | 3.9   | 4.1   | 3.8   | 4.4   | 4.7   | 6.9   | 7.4   | 5.5   | 4.5   | 4.2   |
| 28    | 5.5   | 4.6   | 4.5   | 4.2   | 3.9   | 4.4   | 4.7   | 7.2   | 7.3   | 5.4   | 4.5   | 4.2   |
| 29    | 5.1   | 4.7   | 4.5   | 4.0   | 3.8   | 4.6   | 4.9   | 7.8   | 7.1   | 5.2   | 4.5   | 4.1   |
| 30    | 5.6   | 4.6   | 4.7   | 3.9   | ----- | 4.3   | 5.0   | 8.0   | 7.0   | 5.0   | 4.5   | 4.1   |
| 31    | 6.1   | ----- | 4.4   | 4.1   | ----- | 4.4   | ----- | 8.1   | ----- | 5.1   | 4.8   | ----- |
| TOTAL | 187.2 | 152.0 | 137.9 | 131.1 | 111.1 | 139.9 | 133.8 | 192.9 | 251.9 | 188.1 | 148.6 | 131.1 |
| MEAN  | 6.04  | 5.07  | 4.45  | 4.23  | 3.83  | 4.51  | 4.46  | 6.22  | 8.40  | 6.07  | 4.79  | 4.37  |
| MAX   | 6.4   | 6.0   | 4.9   | 4.7   | 4.2   | 5.0   | 5.0   | 8.1   | 9.0   | 7.0   | 5.0   | 4.9   |
| MIN   | 5.1   | 4.6   | 3.7   | 3.9   | 3.6   | 3.7   | 4.1   | 5.0   | 7.0   | 5.0   | 4.5   | 4.1   |
| AC-FT | 371   | 301   | 274   | 260   | 220   | 277   | 265   | 383   | 500   | 373   | 295   | 260   |

CAL YR 1971 TOTAL 2,883.1 MEAN 7.90 MAX 24 MIN 2.7 AC-FT 5,720  
WTR YR 1972 TOTAL 1,905.6 MEAN 5.21 MAX 9.0 MIN 3.6 AC-FT 3,780

## NEWARK VALLEY

10245800 Newark Valley tributary near Hamilton, Nev.

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

DRAINAGE AREA.--157 sq mi.

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 (from topographic map). October 1961 to August 1962, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 0.161 cfs (117 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10 cfs Sept. 5 (gage height, 0.70 ft); no flow most of the year.

Period of record: Maximum discharge, 238 cfs July 31, 1968, by slope-area measurement of peak flow (gage height, 4.55 ft); no flow most of the time.

REMARKS.--Records of flow fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 2     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 3     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 4     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 5     |     |     |     |     |     |     |     |     |     |     |     | 2.6  |
| 6     |     |     |     |     |     |     |     |     |     |     |     | .20  |
| 7     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 8     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 9     |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 10    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 11    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 12    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 13    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 14    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 15    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 16    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 17    |     |     |     |     |     |     |     |     |     |     |     | 0    |
| 18    |     |     |     |     |     |     |     |     |     |     |     | .31  |
| 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   | 0   | 3.11 |
| MEAN  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | .10  |
| MAX   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2.6  |
| 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   | 6.2  |

CAL YR 1971 TOTAL 125.10 MEAN .34 MAX 59 MIN 0 AC-FT 248  
WTR YR 1972 TOTAL 3.11 MEAN .009 MAX 2.6 MIN 0 AC-FT 6

Peak discharge (base, 10 cfs).--Sept. 5 (0415) 10 cfs (0.70 ft).



## RAILROAD VALLEY

49

10246846 Little Curreant Creek near Currant, Nev.

LOCATION.--Lat 38°50'50", long 115°22'00", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.5 T.11 N., R.59 E., Nye County, on right bank 0.2 mile upstream from reservoir diversion, 2.5 miles upstream from mouth, and 9 miles northeast of Currant.

DRAINAGE AREA.--12.9 sq mi.

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

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

AVERAGE DISCHARGE.--8 years, 3.08 cfs (2,230 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3.7 cfs June 4-7 (gage height, 1.31 ft); maximum gage height, 1.55 ft Feb. 2 (backwater from ice); no flow Aug. 8-11, 23-25.

Period of record: Maximum discharge, 366 cfs Dec. 6, 1966 (gage height, 4.1 ft, from floodmarks), from rating curve extended above 60 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|----------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| 1           | .84   | .73      | .54   | .56   | .68   | .80   | 2.3   | 1.7  | 3.4   | 1.0   | .08  | .08   |
| 2           | .73   | .75      | .39   | .55   | .61   | .84   | 2.2   | 1.8  | 3.3   | .95   | .06  | .08   |
| 3           | .72   | .73      | .65   | .49   | .67   | .92   | 2.1   | 1.8  | 3.5   | .91   | .05  | .07   |
| 4           | .70   | .72      | .62   | .49   | .69   | .92   | 1.9   | 2.0  | 3.6   | .85   | .04  | .06   |
| 5           | .70   | .71      | .56   | .52   | .58   | .92   | 1.9   | 2.0  | 3.7   | .82   | .03  | .11   |
| 6           | .70   | .68      | .60   | .55   | .44   | .92   | 1.8   | 2.1  | 3.7   | .78   | .03  | .12   |
| 7           | .70   | .68      | .44   | .51   | .42   | .92   | 1.8   | 2.3  | 3.5   | .73   | .01  | .12   |
| 8           | .69   | .69      | .39   | .49   | .47   | .92   | 1.8   | 2.3  | 3.4   | .62   | 0    | .11   |
| 9           | .68   | .68      | .47   | .50   | .52   | 1.0   | 1.8   | 2.5  | 3.2   | .58   | 0    | .09   |
| 10          | .69   | .73      | .58   | .49   | .56   | 1.1   | 1.9   | 2.6  | 3.1   | .55   | 0    | .06   |
| 11          | .70   | .72      | .54   | .49   | .58   | 1.2   | 2.0   | 3.0  | 3.0   | .51   | 0    | .09   |
| 12          | .69   | .71      | .48   | .52   | .60   | 1.4   | 1.9   | 2.9  | 2.8   | .48   | .01  | .10   |
| 13          | .72   | .75      | .44   | .58   | .56   | 1.5   | 1.7   | 2.8  | 2.6   | .45   | .02  | .08   |
| 14          | .75   | .75      | .46   | .58   | .56   | 1.6   | 1.6   | 2.7  | 2.5   | .42   | .02  | .06   |
| 15          | .69   | .60      | .44   | .59   | .60   | 1.7   | 1.5   | 2.7  | 2.3   | .40   | .03  | .04   |
| 16          | .78   | .75      | .48   | .60   | .61   | 1.9   | 1.5   | 2.7  | 2.2   | .34   | .02  | .03   |
| 17          | .73   | .65      | .48   | .60   | .62   | 2.0   | 1.5   | 2.8  | 2.1   | .32   | .03  | .01   |
| 18          | .75   | .69      | .45   | .61   | .66   | 2.2   | 1.6   | 2.9  | 2.0   | .31   | .03  | .09   |
| 19          | .75   | .61      | .46   | .61   | .68   | 2.6   | 1.6   | 3.0  | 1.9   | .28   | .04  | .13   |
| 20          | .72   | .66      | .48   | .61   | .69   | 2.8   | 1.5   | 3.0  | 1.8   | .31   | .03  | .09   |
| 21          | .69   | .61      | .49   | .61   | .74   | 3.0   | 1.5   | 2.9  | 1.7   | .30   | .02  | .08   |
| 22          | .70   | .61      | .51   | .61   | .76   | 3.1   | 1.5   | 2.7  | 1.8   | .26   | .01  | .06   |
| 23          | .68   | .63      | .51   | .61   | .80   | 3.1   | 1.4   | 2.5  | 1.7   | .19   | 0    | .07   |
| 24          | .70   | .61      | .55   | .55   | .78   | 3.1   | 1.4   | 2.4  | 1.6   | .15   | 0    | .06   |
| 25          | .77   | .61      | .54   | .66   | .75   | 3.1   | 1.5   | 2.4  | 1.6   | .13   | 0    | .09   |
| 26          | .72   | .61      | .48   | .63   | .75   | 3.1   | 1.5   | 2.6  | 1.5   | .10   | .02  | .09   |
| 27          | .77   | .61      | .51   | .61   | .75   | 3.1   | 1.5   | 2.7  | 1.4   | .09   | .06  | .08   |
| 28          | .81   | .59      | .56   | .64   | .75   | 2.8   | 1.5   | 2.8  | 1.3   | .09   | .08  | .07   |
| 29          | .54   | .61      | .50   | .55   | .79   | 2.8   | 1.5   | 3.0  | 1.2   | .07   | .07  | .07   |
| 30          | .76   | .60      | .59   | .55   | ----- | 2.7   | 1.7   | 3.2  | 1.1   | .05   | .04  | .07   |
| 31          | .79   | -----    | .55   | .68   | ----- | 2.5   | ----- | 3.4  | ----- | .10   | .04  | ----- |
| TOTAL       | 22.36 | 20.08    | 15.74 | 17.64 | 18.67 | 60.56 | 50.9  | 80.2 | 72.5  | 13.14 | .87  | 2.36  |
| MEAN        | .72   | .67      | .51   | .57   | .64   | 1.95  | 1.70  | 2.59 | 2.42  | .42   | .028 | .079  |
| MAX         | .84   | .75      | .65   | .68   | .80   | 3.1   | 2.3   | 3.4  | 3.7   | 1.0   | .08  | .13   |
| MIN         | .54   | .59      | .39   | .49   | .42   | .80   | 1.4   | 1.7  | 1.1   | .05   | 0    | .01   |
| AC-FT       | 44    | 40       | 31    | 35    | 37    | 120   | 101   | 159  | 144   | 26    | 1.7  | 4.7   |
| CAL YR 1971 | TOTAL | 1,079.38 | MEAN  | 2.96  | MAX   | 18    | MIN   | .02  | AC-FT | 2,140 |      |       |
| WTR YR 1972 | TOTAL | 375.02   | MEAN  | 1.02  | MAX   | 3.7   | MIN   | 0    | AC-FT | 744   |      |       |

## SAND SPRING VALLEY

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 mile northwest of Coyote Summit, and 5.3 miles south of Tempiute.

DRAINAGE AREA.--1.48 sq mi.

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, approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on right bank) and datum.

AVERAGE DISCHARGE.--7 years, 0.003 cfs (2.2 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 33 cfs Sept. 18 (gage height, 3.40 ft), no flow most of year.

Period of record: Maximum discharge, 130 cfs Aug. 6, 1968 (gage height, 6.36 ft, from floodmarks) from indirect measurement of peak flow; no flow most of the time.

REMARKS.--Records of flow are poor. No regulation above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB       | MAR | APR   | MAY | JUN   | JUL | AUG  | SEP   |
|-------------|------------|------------|---------|-------|-----------|-----|-------|-----|-------|-----|------|-------|
| 1           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 2           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 3           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 4           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 5           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 6           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 7           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 8           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 9           |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 10          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 11          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 12          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 13          |            |            |         |       |           |     |       |     |       |     | 1.4  | 0     |
| 14          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 15          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 16          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 17          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 18          |            |            |         |       |           |     |       |     |       |     | 0    | 2.5   |
| 19          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 20          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 21          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 22          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 23          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 24          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 25          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 26          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 27          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 28          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 29          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 30          |            |            |         |       |           |     |       |     |       |     | 0    | 0     |
| 31          |            | -----      |         |       | -----     |     | ----- |     | ----- |     | 0    | ----- |
| TOTAL       | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | 0     | 0   | 1.4  | 2.5   |
| MEAN        | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | 0     | 0   | .045 | .083  |
| MAX         | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | 0     | 0   | 1.4  | 2.5   |
| 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   | 2.8  | 5.0   |
| CAL YR 1971 | TOTAL 0.00 | MEAN .0000 | MAX .00 | MIN 0 | AC-FT .0  |     |       |     |       |     |      |       |
| WTR YR 1972 | TOTAL 3.90 | MEAN .011  | MAX 2.5 | MIN 0 | AC-FT 7.7 |     |       |     |       |     |      |       |

NOTE.--No gage-height record during periods of flow.

ELDORADO VALLEY

51

10248510 (revised) Eldorado Valley tributary near Nelson, Nev.

LOCATION.--Lat 35°48'35", long 114°53'05", in E<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub> sec.36, T.24 S., R.63 E., Clark County, on right bank upstream side of culvert on State Highway 60 and 8 miles northwest of Nelson.

DRAINAGE AREA.--1.41 sq mi.

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, approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on left bank) and datum.

AVERAGE DISCHARGE.--7 years, 0.013 cfs (9.4 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 232 cfs June 8, (gage height, 7.27 ft); no flow most of the year.

Period of record: Maximum discharge, 530 cfs Aug. 4, 1970 (gage height of pond, 9.00 ft); no flow most of the time.

REMARKS.--Records of flow are poor. No regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB       | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------------|------------|---------|-------|-----------|-----|-----|-----|-----|-----|-----|-----|
| 1           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 2           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 3           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 4           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 5           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 6           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 7           |            |            |         |       |           |     |     |     | 0   |     |     |     |
| 8           |            |            |         |       |           |     |     |     | 4.6 |     |     |     |
| 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   | 4.6 | 0   | 0   | 0   |
| MEAN        | 0          | 0          | 0       | 0     | 0         | 0   | 0   | 0   | .15 | 0   | 0   | 0   |
| MAX         | 0          | 0          | 0       | 0     | 0         | 0   | 0   | 0   | 4.6 | 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   | 9.1 | 0   | 0   | 0   |
| CAL YR 1971 | TOTAL 0.00 | MEAN .0000 | MAX .00 | MIN 0 | AC-FT .0  |     |     |     |     |     |     |     |
| WTR YR 1972 | TOTAL 4.60 | MEAN .013  | MAX 4.6 | MIN 0 | AC-FT 9.1 |     |     |     |     |     |     |     |



## BIG SMOKY AND IONE VALLEYS

53

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 upstream from diversion, 3 miles west of State Highway 8A, and 15 miles northwest of Round Mountain.

DRAINAGE AREA.--20 sq mi, 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 (from topographic map).

AVERAGE DISCHARGE.--7 years, 5.20 cfs (3,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 13 cfs June 6 (gage height, 2.26 ft); maximum gage height, 2.62 ft Jan. 30 (backwater from ice); minimum discharge, 0.11 cfs Sept. 4.

Period of record: Maximum discharge, 105 cfs June 17, 1969 (gage height, 3.21 ft); minimum, 0.11 cfs Sept. 4, 1972.

REMARKS.--Records excellent except those for winter periods, 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 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP   |
|-------|------|-------|------|------|-------|-------|-------|-------|-------|------|-------|-------|
| 1     | 2.1  | 1.9   | 2.1  | 2.4  | 2.4   | 2.3   | 4.1   | 5.8   | 9.9   | 3.3  | 1.3   | 1.1   |
| 2     | 2.1  | 2.0   | 1.6  | 2.5  | 2.1   | 2.6   | 3.8   | 6.2   | 10    | 3.2  | 1.2   | 1.1   |
| 3     | 2.1  | 2.0   | 1.7  | 2.4  | 2.2   | 3.2   | 3.8   | 6.9   | 10    | 3.2  | 1.1   | 1.0   |
| 4     | 2.1  | 2.0   | 1.4  | 2.0  | 2.3   | 8.8   | 3.8   | 7.4   | 9.9   | 3.0  | 1.0   | .92   |
| 5     | 2.0  | 2.0   | 1.6  | 2.4  | 2.4   | 3.7   | 3.8   | 7.8   | 9.4   | 2.8  | 1.0   | 4.1   |
| 6     | 2.0  | 1.9   | 1.6  | 2.5  | 2.4   | 3.8   | 4.0   | 8.0   | 9.6   | 2.7  | .92   | 3.3   |
| 7     | 1.8  | 1.9   | 1.2  | 2.5  | 2.1   | 3.8   | 4.0   | 7.8   | 11    | 2.6  | .86   | 2.5   |
| 8     | 1.8  | 1.9   | 1.2  | 2.5  | 2.0   | 4.0   | 4.0   | 7.8   | 10    | 2.5  | .86   | 2.1   |
| 9     | 1.8  | 1.9   | 1.4  | 2.5  | 2.0   | 4.3   | 4.1   | 8.0   | 9.9   | 2.4  | .80   | 1.9   |
| 10    | 1.8  | 1.9   | 1.6  | 2.6  | 2.0   | 4.6   | 4.4   | 7.8   | 9.1   | 2.3  | .80   | 1.7   |
| 11    | 1.8  | 1.9   | 2.1  | 2.6  | 2.0   | 5.0   | 4.6   | 7.4   | 9.1   | 2.2  | .70   | 1.7   |
| 12    | 1.8  | 2.2   | 2.3  | 2.6  | 2.0   | 5.0   | 4.3   | 7.4   | 8.5   | 2.1  | .75   | 1.7   |
| 13    | 1.8  | 2.1   | 2.3  | 2.6  | 2.0   | 5.1   | 4.1   | 7.6   | 7.8   | 2.0  | 1.3   | 1.6   |
| 14    | 1.7  | 2.0   | 2.3  | 2.6  | 2.0   | 5.3   | 3.8   | 8.0   | 7.4   | 1.9  | 1.6   | 1.6   |
| 15    | 1.8  | 2.1   | 2.3  | 2.4  | 2.0   | 5.3   | 4.1   | 8.5   | 7.1   | 1.8  | 1.3   | 1.6   |
| 16    | 2.0  | 2.1   | 2.2  | 2.6  | 2.0   | 5.3   | 4.1   | 9.4   | 6.7   | 1.7  | 1.2   | 1.5   |
| 17    | 1.9  | 1.5   | 2.2  | 2.8  | 2.0   | 5.5   | 4.1   | 10    | 6.5   | 1.6  | 1.0   | 1.4   |
| 18    | 2.0  | 1.4   | 2.2  | 2.9  | 2.0   | 5.7   | 4.1   | 10    | 6.0   | 1.6  | .98   | 1.5   |
| 19    | 2.1  | 1.4   | 2.2  | 3.0  | 2.1   | 5.7   | 3.7   | 10    | 5.7   | 1.6  | .98   | 1.6   |
| 20    | 2.2  | 2.1   | 2.3  | 3.0  | 2.2   | 5.7   | 3.7   | 10    | 5.5   | 1.6  | .92   | 1.5   |
| 21    | 2.3  | 2.2   | 2.3  | 3.0  | 2.3   | 6.0   | 3.8   | 9.4   | 5.1   | 1.7  | .86   | 1.5   |
| 22    | 2.2  | 2.1   | 2.4  | 3.0  | 2.3   | 6.0   | 4.0   | 8.5   | 5.5   | 1.6  | .80   | 1.4   |
| 23    | 2.2  | 2.0   | 2.4  | 2.9  | 2.3   | 5.7   | 4.1   | 7.6   | 5.7   | 1.6  | .80   | 1.4   |
| 24    | 2.3  | 2.0   | 2.4  | 2.5  | 2.2   | 5.5   | 4.4   | 7.4   | 5.1   | 1.4  | .80   | 1.3   |
| 25    | 2.2  | 1.9   | 2.5  | 2.1  | 2.2   | 5.5   | 4.6   | 7.4   | 4.8   | 1.4  | .80   | 1.3   |
| 26    | 2.1  | 1.9   | 2.1  | 2.1  | 2.2   | 5.1   | 4.6   | 7.4   | 4.6   | 1.3  | .75   | 1.3   |
| 27    | 2.1  | 2.1   | 2.0  | 2.0  | 2.3   | 4.6   | 4.8   | 7.8   | 4.3   | 1.3  | .75   | 1.3   |
| 28    | 1.9  | 2.2   | 2.0  | 2.0  | 2.3   | 4.3   | 5.1   | 8.0   | 4.0   | 1.3  | .86   | 1.4   |
| 29    | 1.4  | 2.1   | 2.2  | 2.0  | 2.4   | 4.6   | 5.7   | 8.5   | 3.8   | 1.2  | .92   | 1.4   |
| 30    | 1.4  | 2.1   | 2.4  | 2.0  | ----- | 4.1   | 5.7   | 9.1   | 3.6   | 1.3  | .92   | 1.4   |
| 31    | 2.0  | ----- | 2.3  | 2.5  | ----- | 4.1   | ----- | 9.4   | ----- | 1.4  | .92   | ----- |
| TOTAL | 60.8 | 58.8  | 62.8 | 77.5 | 62.7  | 150.2 | 127.2 | 252.3 | 215.6 | 61.6 | 29.75 | 49.12 |
| MEAN  | 1.96 | 1.96  | 2.03 | 2.50 | 2.16  | 4.85  | 4.24  | 8.14  | 7.19  | 1.99 | .96   | 1.64  |
| MAX   | 2.3  | 2.2   | 2.5  | 3.0  | 2.4   | 8.8   | 5.7   | 10    | 11    | 3.3  | 1.6   | 4.1   |
| MIN   | 1.4  | 1.4   | 1.2  | 2.0  | 2.0   | 2.3   | 3.7   | 5.8   | 3.6   | 1.2  | .70   | .92   |
| AC-FT | 121  | 117   | 125  | 154  | 124   | 298   | 252   | 500   | 428   | 122  | 59    | 97    |

CAL YR 1971 TOTAL 1,741.30 MEAN 4.77 MAX 23 MIN .80 AC-FT 3,450  
WTR YR 1972 TOTAL 1,208.37 MEAN 3.30 MAX 11 MIN .70 AC-FT 2,400

Peak discharge (base, 20 cfs).--No peak above base.



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 miles east of Lander County line, and 10 miles east of Eastgate.

DRAINAGE AREA.--2.14 sq mi.

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 (from topographic map). Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 0.038 cfs (28 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1.0 cfs Aug. 28 (gage height, 1.21 ft); no flow most of the year.

Period of record: Maximum discharge, 179 cfs Aug. 24, 1961 (gage height, 8.2 ft, 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 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB       | MAR | APR   | MAY  | JUN   | JUL | AUG  | SEP   |
|-------------|------------|------------|---------|-------|-----------|-----|-------|------|-------|-----|------|-------|
| 1           |            |            |         |       |           |     | 0     | .10  | .10   |     | 0    |       |
| 2           |            |            |         |       |           |     | 0     | .10  | .10   |     | 0    |       |
| 3           |            |            |         |       |           |     | 0     | .10  | .10   |     | 0    |       |
| 4           |            |            |         |       |           |     | 0     | .10  | 0     |     | 0    |       |
| 5           |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 6           |            |            |         |       |           |     | 0     | .10  | 0     |     | 0    |       |
| 7           |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 8           |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 9           |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 10          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 11          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 12          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 13          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 14          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 15          |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 16          |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 17          |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 18          |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 19          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 20          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 21          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 22          |            |            |         |       |           |     | 0     | 0    | 0     |     | 0    |       |
| 23          |            |            |         |       |           |     | .10   | 0    | 0     |     | 0    |       |
| 24          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 25          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 26          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 27          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 28          |            |            |         |       |           |     | .10   | .10  | 0     |     | .10  |       |
| 29          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 30          |            |            |         |       |           |     | .10   | .10  | 0     |     | 0    |       |
| 31          |            | -----      |         |       | -----     |     | ----- | .10  | ----- |     | 0    | ----- |
| TOTAL       | 0          | 0          | 0       | 0     | 0         | 0   | 1.50  | 1.50 | .30   | 0   | .10  | 0     |
| MEAN        | 0          | 0          | 0       | 0     | 0         | 0   | .050  | .048 | .010  | 0   | .003 | 0     |
| MAX         | 0          | 0          | 0       | 0     | 0         | 0   | .10   | .10  | .10   | 0   | .10  | 0     |
| MIN         | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0    | 0     | 0   | 0    | 0     |
| AC-FT       | 0          | 0          | 0       | 0     | 0         | 0   | 3.0   | 3.0  | .6    | 0   | .2   | 0     |
| CAL YR 1971 | TOTAL 9.20 | MEAN .025  | MAX 1.0 | MIN 0 | AC-FT 18  |     |       |      |       |     |      |       |
| WTR YR 1972 | TOTAL 3.40 | MEAN .0090 | MAX .10 | MIN 0 | AC-FT 6.7 |     |       |      |       |     |      |       |

NOTE.--No gage-height record during most periods of flow.

## FISH LAKE VALLEY

55

10249900 Chiatovich Creek near Dyer, Nev.

LOCATION.--Lat 37°50'00", long 118°12'10", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.28, T.1 S., R.34 E., Esmeralda County, on left bank 300 ft downstream from Middle Creek, 5 miles west of State Highway 3A, and 10 miles northwest of Dyer.

DRAINAGE AREA.--37.3 sq mi.

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

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

AVERAGE DISCHARGE.--12 years, 8.96 cfs (6,490 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 15 cfs Oct. 30 (gage height, 1.43 ft); maximum gage height, 1.52 ft Dec. 9 (backwater from ice); minimum discharge, 3.5 cfs Jan. 24, Aug. 22-26.

Period of record: Maximum discharge, 527 cfs July 31, 1965 (gage height, about 5.0 ft), on basis of slope-area measurement of peak flow; minimum, 1.0 cfs Feb. 18, 1961, result of freezeup.

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

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 9.7   | 8.8   | 7.2   | 6.8   | 6.6   | 6.6   | 5.4   | 5.6   | 4.6   | 4.8   | 5.2   | 4.6   |
| 2     | 10    | 8.7   | 8.1   | 6.8   | 7.3   | 7.0   | 5.4   | 5.4   | 4.8   | 4.7   | 4.9   | 4.4   |
| 3     | 9.8   | 8.7   | 7.7   | 6.4   | 7.7   | 7.3   | 5.3   | 5.4   | 4.8   | 5.1   | 4.8   | 4.2   |
| 4     | 9.8   | 8.8   | 8.0   | 5.8   | 7.1   | 7.5   | 5.3   | 5.4   | 4.9   | 5.1   | 4.8   | 5.0   |
| 5     | 9.8   | 8.7   | 9.2   | 6.4   | 6.7   | 7.0   | 5.3   | 5.5   | 5.2   | 5.1   | 4.8   | 7.4   |
| 6     | 10    | 8.6   | 8.1   | 6.6   | 6.6   | 6.9   | 5.2   | 5.7   | 6.8   | 5.1   | 4.7   | 5.8   |
| 7     | 9.7   | 8.6   | 6.7   | 7.2   | 6.6   | 6.9   | 5.2   | 5.2   | 6.6   | 5.1   | 4.6   | 5.1   |
| 8     | 9.7   | 8.5   | 6.5   | 7.2   | 6.6   | 6.9   | 5.2   | 5.2   | 6.6   | 5.2   | 4.5   | 5.0   |
| 9     | 9.7   | 8.6   | 7.4   | 7.2   | 6.6   | 6.9   | 5.3   | 5.7   | 5.9   | 5.2   | 4.6   | 4.9   |
| 10    | 9.6   | 8.6   | 7.0   | 7.2   | 6.6   | 6.9   | 5.5   | 5.5   | 5.3   | 5.3   | 4.7   | 4.6   |
| 11    | 9.6   | 8.7   | 7.0   | 7.2   | 6.5   | 6.5   | 5.6   | 5.4   | 5.1   | 5.2   | 4.8   | 4.9   |
| 12    | 9.7   | 9.1   | 7.0   | 7.3   | 6.7   | 6.5   | 5.4   | 5.3   | 4.8   | 5.0   | 4.7   | 5.1   |
| 13    | 9.7   | 8.5   | 7.0   | 7.4   | 6.7   | 6.5   | 5.2   | 5.3   | 4.8   | 4.8   | 4.4   | 5.1   |
| 14    | 9.5   | 7.6   | 7.0   | 7.2   | 6.7   | 6.5   | 4.9   | 5.3   | 4.7   | 4.8   | 4.4   | 5.1   |
| 15    | 9.6   | 8.1   | 7.0   | 7.2   | 6.7   | 6.5   | 5.3   | 5.3   | 4.7   | 4.7   | 4.3   | 5.1   |
| 16    | 9.7   | 8.0   | 7.0   | 7.2   | 6.8   | 6.0   | 5.2   | 5.2   | 4.8   | 4.8   | 4.2   | 5.0   |
| 17    | 9.8   | 8.5   | 7.5   | 7.2   | 6.8   | 6.0   | 5.1   | 4.9   | 4.8   | 4.7   | 4.2   | 5.1   |
| 18    | 9.8   | 8.3   | 8.2   | 7.3   | 6.8   | 6.0   | 5.2   | 4.9   | 4.7   | 4.7   | 4.4   | 5.2   |
| 19    | 10    | 8.5   | 8.0   | 7.5   | 6.8   | 6.0   | 5.1   | 5.3   | 4.8   | 4.6   | 4.4   | 5.4   |
| 20    | 9.9   | 8.3   | 7.9   | 7.1   | 6.8   | 6.0   | 5.1   | 5.3   | 4.8   | 5.0   | 4.3   | 5.4   |
| 21    | 9.9   | 8.5   | 7.9   | 7.2   | 6.7   | 5.5   | 5.0   | 5.2   | 4.8   | 5.1   | 4.2   | 5.3   |
| 22    | 9.8   | 8.4   | 8.5   | 7.2   | 6.6   | 5.5   | 5.0   | 5.3   | 5.0   | 4.9   | 4.1   | 5.3   |
| 23    | 9.6   | 8.3   | 8.2   | 7.1   | 6.5   | 5.2   | 4.9   | 5.2   | 4.9   | 4.7   | 4.1   | 5.3   |
| 24    | 9.6   | 8.3   | 8.1   | 6.7   | 6.6   | 5.4   | 5.1   | 5.1   | 5.1   | 4.9   | 4.1   | 5.3   |
| 25    | 9.5   | 8.2   | 7.9   | 6.5   | 6.7   | 5.4   | 5.0   | 4.8   | 5.1   | 5.0   | 4.1   | 5.3   |
| 26    | 9.4   | 8.3   | 7.5   | 6.4   | 6.8   | 5.1   | 4.9   | 4.5   | 5.1   | 5.0   | 4.0   | 5.5   |
| 27    | 9.2   | 8.1   | 6.9   | 6.4   | 6.9   | 4.5   | 5.1   | 4.4   | 5.0   | 5.0   | 4.0   | 5.5   |
| 28    | 8.0   | 8.3   | 6.9   | 6.2   | 6.9   | 5.4   | 5.1   | 4.4   | 4.9   | 4.9   | 4.5   | 5.5   |
| 29    | 8.1   | 8.0   | 6.9   | 6.8   | 6.6   | 5.3   | 5.2   | 4.4   | 4.8   | 5.0   | 4.6   | 5.5   |
| 30    | 10    | 8.1   | 6.9   | 6.4   | ----- | 5.4   | 5.5   | 4.6   | 4.9   | 5.6   | 4.4   | 5.5   |
| 31    | 8.8   | ----- | 6.5   | 6.2   | ----- | 5.3   | ----- | 4.8   | ----- | 5.5   | 4.6   | ----- |
| TOTAL | 297.0 | 252.7 | 231.7 | 213.3 | 196.0 | 190.4 | 156.0 | 159.5 | 153.1 | 154.6 | 138.4 | 156.4 |
| MEAN  | 9.58  | 8.42  | 7.47  | 6.88  | 6.76  | 6.14  | 5.20  | 5.15  | 5.10  | 4.99  | 4.46  | 5.21  |
| MAX   | 10    | 9.1   | 9.2   | 7.5   | 7.7   | 7.5   | 5.6   | 5.7   | 6.8   | 5.6   | 5.2   | 7.4   |
| MIN   | 8.0   | 7.6   | 6.5   | 5.8   | 6.5   | 4.5   | 4.9   | 4.4   | 4.6   | 4.6   | 4.0   | 4.2   |
| AC-FT | 589   | 501   | 460   | 423   | 389   | 378   | 309   | 316   | 304   | 307   | 275   | 310   |

CAL YR 1971 TOTAL 2,785.4 MEAN 7.63 MAX 11 MIN 4.6 AC-FT 5,520  
WTR YR 1972 TOTAL 2,299.1 MEAN 6.28 MAX 10 MIN 4.0 AC-FT 4,560

Peak discharge (base, 20 cfs).--No peak above base.

## PAHRUMP AND MESQUITE VALLEYS

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 mile downstream from county road, 13.7 miles west of Blue Diamond, and 24 miles southeast of Pahrump.

DRAINAGE AREA.--52.8 sq mi.

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

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

AVERAGE DISCHARGE.--6 years, 0.498 cfs (361 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, (estimated) 4.0 cfs June 4 (gage height, unknown); no flow most of the year.

Period of record: Maximum discharge, 4,150 cfs Jan. 25, 1969, from indirect measurement of peak flow; no flow most of the time.

REMARKS.--Records of flow are poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB       | MAR | APR   | MAY | JUN   | JUL | AUG   | SEP |
|-------------|------------|------------|---------|-------|-----------|-----|-------|-----|-------|-----|-------|-----|
| 1           |            |            |         |       |           |     |       |     | 0     |     |       |     |
| 2           |            |            |         |       |           |     |       |     | 0     |     |       |     |
| 3           |            |            |         |       |           |     |       |     | 0     |     |       |     |
| 4           |            |            |         |       |           |     |       |     | .06   |     |       |     |
| 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          |            | -----      |         |       | -----     |     | ----- |     | ----- |     | ----- |     |
| TOTAL       | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | .06   | 0   | 0     | 0   |
| MEAN        | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | .002  | 0   | 0     | 0   |
| MAX         | 0          | 0          | 0       | 0     | 0         | 0   | 0     | 0   | .06   | 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   | .1    | 0   | 0     | 0   |
| CAL YR 1971 | TOTAL 2.36 | MEAN .0070 | MAX 1.5 | MIN 0 | AC-FT 4.7 |     |       |     |       |     |       |     |
| WTR YR 1972 | TOTAL 0.06 | MEAN .0002 | MAX .06 | MIN 0 | AC-FT .1  |     |       |     |       |     |       |     |

## WALKER LAKE BASIN

57

10288500 Walker Lake near Hawthorne, Nev.

LOCATION.--Lat 38°35'05", long 118°42'15", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.8 N., R.29 E., Mineral County, 5.5 miles 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 &amp; Geodetic Survey bench mark at U.S. Naval Depot).

EXTREMES.--Period of record: Maximum elevation observed, 4,051.8 ft Mar. 13, 1928 (Indian Service); minimum observed, 3,969.7 ft Jan. 8, 1969.

An elevation of 4,078.0 ft, adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey.

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

## Elevation, in feet, water year October 1971 to September 1972

|                 |         |                 |         |
|-----------------|---------|-----------------|---------|
| Oct. 12 . . . . | 3,973.7 | Apr. 14 . . . . | 3,972.5 |
| Nov. 9 . . . .  | 3,972.8 | May 8 . . . .   | 3,972.3 |
| Dec. 2 . . . .  | 3,971.6 | June 4 . . . .  | 3,972.2 |
| Jan. 5 . . . .  | 3,972.5 | June 22 . . . . | 3,972.1 |
| Feb. 1 . . . .  | 3,972.5 | July 26 . . . . | 3,971.5 |
| Feb. 29 . . . . | 3,972.6 | Aug. 24 . . . . | 3,970.9 |

## 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

10289000 Virginia Creek near Bridgeport, Calif.

LOCATION.--Lat 38°11'30", long 119°12'30", near center of W½ sec.22, T.4 N., R.25 E., Mono County, on right bank 1.2 miles downstream from Clearwater Creek, 3 miles upstream from mouth, and 4.2 miles southeast of Bridgeport.

DRAINAGE AREA.--63.6 sq mi.

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

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

AVERAGE DISCHARGE.--19 years, 16.3 cfs (11,810 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 33 cfs June 1 (gage height, 3.10 ft); minimum, 1.5 cfs Aug. 3-6.

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

REMARKS.--Records excellent 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 above station.

REVISIONS.--WSP 1927: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG  | SEP   |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|
| 1     | 11   | 12    | 9.8   | 9.5   | 11    | 14    | 12    | 11   | 31    | 8.3   | 2.6  | 3.7   |
| 2     | 11   | 12    | 9.9   | 9.5   | 9.5   | 16    | 13    | 12   | 30    | 8.3   | 2.1  | 3.2   |
| 3     | 11   | 12    | 11    | 10    | 10    | 22    | 12    | 13   | 29    | 8.5   | 2.3  | 3.1   |
| 4     | 11   | 12    | 12    | 9.0   | 11    | 28    | 12    | 14   | 27    | 7.2   | 2.0  | 4.0   |
| 5     | 11   | 12    | 13    | 9.5   | 11    | 31    | 14    | 14   | 26    | 6.6   | 1.9  | 13    |
| 6     | 11   | 11    | 12    | 10    | 11    | 29    | 17    | 14   | 24    | 6.2   | 2.0  | 7.2   |
| 7     | 11   | 11    | 9.2   | 11    | 11    | 26    | 16    | 14   | 26    | 5.9   | 2.2  | 5.4   |
| 8     | 11   | 11    | 9.0   | 11    | 11    | 29    | 13    | 11   | 24    | 5.5   | 2.2  | 5.8   |
| 9     | 11   | 11    | 9.4   | 11    | 12    | 31    | 12    | 12   | 22    | 5.0   | 2.3  | 5.4   |
| 10    | 11   | 11    | 9.4   | 11    | 11    | 33    | 12    | 12   | 20    | 4.8   | 2.6  | 4.9   |
| 11    | 11   | 20    | 9.0   | 11    | 11    | 31    | 13    | 12   | 16    | 5.0   | 2.3  | 4.7   |
| 12    | 11   | 21    | 9.0   | 11    | 11    | 27    | 14    | 11   | 16    | 4.5   | 2.2  | 4.9   |
| 13    | 11   | 14    | 8.8   | 11    | 11    | 28    | 14    | 11   | 16    | 4.4   | 2.4  | 5.1   |
| 14    | 11   | 10    | 9.5   | 11    | 12    | 26    | 15    | 12   | 18    | 4.2   | 2.9  | 4.9   |
| 15    | 11   | 15    | 9.0   | 11    | 12    | 25    | 18    | 14   | 19    | 4.0   | 2.7  | 4.8   |
| 16    | 11   | 13    | 9.4   | 11    | 12    | 26    | 15    | 16   | 21    | 3.8   | 2.2  | 4.9   |
| 17    | 12   | 13    | 9.4   | 11    | 12    | 27    | 13    | 20   | 21    | 3.6   | 2.1  | 5.0   |
| 18    | 12   | 12    | 10    | 11    | 12    | 25    | 13    | 18   | 21    | 3.5   | 3.0  | 4.8   |
| 19    | 12   | 13    | 10    | 11    | 12    | 22    | 12    | 22   | 19    | 3.3   | 4.8  | 4.8   |
| 20    | 12   | 13    | 10    | 11    | 12    | 22    | 12    | 22   | 18    | 3.4   | 3.2  | 6.4   |
| 21    | 12   | 13    | 9.8   | 12    | 13    | 22    | 11    | 19   | 16    | 3.2   | 2.9  | 6.4   |
| 22    | 12   | 13    | 9.7   | 11    | 13    | 20    | 11    | 16   | 16    | 3.0   | 2.6  | 6.5   |
| 23    | 12   | 12    | 10    | 11    | 12    | 17    | 11    | 12   | 17    | 3.1   | 2.5  | 6.5   |
| 24    | 12   | 12    | 11    | 10    | 13    | 17    | 11    | 12   | 14    | 3.0   | 2.4  | 6.4   |
| 25    | 12   | 11    | 10    | 12    | 13    | 17    | 10    | 13   | 12    | 2.9   | 2.3  | 6.5   |
| 26    | 12   | 12    | 9.5   | 11    | 13    | 15    | 9.8   | 14   | 11    | 2.9   | 2.3  | 6.8   |
| 27    | 11   | 12    | 9.0   | 10    | 14    | 15    | 9.6   | 16   | 11    | 2.8   | 2.4  | 6.7   |
| 28    | 10   | 13    | 9.0   | 11    | 15    | 14    | 9.8   | 19   | 11    | 2.7   | 3.1  | 6.6   |
| 29    | 10   | 12    | 9.0   | 10    | 15    | 13    | 11    | 22   | 8.6   | 2.8   | 4.1  | 6.5   |
| 30    | 12   | 12    | 9.0   | 9.5   | ----- | 13    | 11    | 25   | 8.2   | 3.7   | 3.8  | 6.5   |
| 31    | 13   | ----- | 9.0   | 10    | ----- | 12    | ----- | 30   | ----- | 3.3   | 4.3  | ----- |
| TOTAL | 352  | 381   | 303.8 | 329.0 | 346.5 | 693   | 377.2 | 483  | 568.8 | 139.4 | 82.4 | 171.4 |
| MEAN  | 11.4 | 12.7  | 9.80  | 10.6  | 11.9  | 22.4  | 12.6  | 15.6 | 19.0  | 4.50  | 2.66 | 5.71  |
| MAX   | 13   | 21    | 13    | 12    | 15    | 33    | 18    | 30   | 31    | 8.5   | 4.8  | 13    |
| MIN   | 10   | 10    | 8.8   | 9.0   | 9.5   | 12    | 9.6   | 11   | 8.2   | 2.7   | 1.9  | 3.1   |
| AC-FT | 698  | 756   | 603   | 653   | 687   | 1,370 | 748   | 958  | 1,130 | 277   | 163  | 340   |

CAL YR 1971 TOTAL 5,757.0 MEAN 15.8 MAX 39 MIN 5.7 AC-FT 11,420  
WTR YR 1972 TOTAL 4,227.5 MEAN 11.6 MAX 33 MIN 1.9 AC-FT 8,390

Peak discharge (base, 50 cfs).--No peak above base.



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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 downstream from county road bridge, 0.1 mile upstream from diversion to Summers Creek, and 5.5 miles south of Bridgeport.

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

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

AVERAGE DISCHARGE.--19 years, 28.6 cfs (20,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 111 cfs June 1 (gage height, 2.57 ft); maximum gage height, 3.20 ft Dec. 30 (backwater from ice); minimum discharge, 3.3 cfs Nov. 2, 3.

Period of record: Maximum discharge, 351 cfs July 4, 1967 (gage height, 3.26 ft); maximum gage height, 4.09 ft Feb. 25, 1962 (backwater from ice); minimum discharge, 1.4 cfs 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.

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1           | 11    | 5.6     | 9.0   | 6.0   | 7.0   | 7.6   | 12    | 26    | 106   | 61     | 23    | 8.2   |
| 2           | 11    | 5.6     | 10    | 5.5   | 6.0   | 9.4   | 13    | 29    | 99    | 58     | 21    | 7.8   |
| 3           | 11    | 5.6     | 21    | 5.0   | 6.5   | 11    | 13    | 32    | 94    | 55     | 20    | 7.5   |
| 4           | 11    | 5.6     | 20    | 4.5   | 7.0   | 13    | 14    | 34    | 96    | 52     | 18    | 6.4   |
| 5           | 11    | 5.6     | 12    | 5.0   | 7.5   | 14    | 16    | 30    | 90    | 46     | 18    | 11    |
| 6           | 11    | 5.6     | 8.9   | 6.0   | 7.0   | 17    | 17    | 30    | 82    | 41     | 17    | 12    |
| 7           | 11    | 5.6     | 8.0   | 6.5   | 6.5   | 19    | 16    | 33    | 88    | 37     | 16    | 10    |
| 8           | 8.0   | 5.6     | 7.0   | 6.0   | 6.5   | 19    | 16    | 30    | 86    | 34     | 16    | 9.0   |
| 9           | 7.5   | 5.8     | 8.0   | 5.5   | 6.5   | 21    | 15    | 30    | 84    | 32     | 16    | 8.4   |
| 10          | 7.7   | 6.0     | 7.5   | 6.0   | 6.5   | 22    | 14    | 29    | 80    | 31     | 16    | 7.9   |
| 11          | 7.7   | 8.7     | 7.5   | 6.0   | 6.5   | 20    | 14    | 30    | 68    | 31     | 15    | 7.5   |
| 12          | 7.7   | 15      | 7.0   | 6.0   | 6.5   | 19    | 15    | 33    | 64    | 31     | 15    | 7.2   |
| 13          | 7.7   | 9.6     | 6.0   | 6.0   | 6.5   | 19    | 16    | 35    | 68    | 31     | 14    | 6.8   |
| 14          | 7.5   | 8.0     | 7.0   | 5.5   | 6.5   | 19    | 17    | 39    | 74    | 31     | 14    | 6.5   |
| 15          | 7.2   | 8.0     | 6.5   | 5.5   | 7.0   | 18    | 17    | 43    | 84    | 30     | 13    | 5.8   |
| 16          | 7.2   | 8.5     | 6.5   | 5.5   | 6.5   | 18    | 17    | 46    | 88    | 30     | 12    | 5.5   |
| 17          | 6.9   | 8.0     | 6.5   | 6.0   | 7.0   | 20    | 16    | 46    | 88    | 30     | 11    | 5.3   |
| 18          | 6.3   | 8.0     | 5.8   | 6.5   | 7.5   | 22    | 16    | 44    | 88    | 31     | 12    | 5.1   |
| 19          | 7.5   | 8.0     | 5.4   | 6.5   | 7.5   | 21    | 15    | 43    | 84    | 37     | 12    | 5.0   |
| 20          | 6.9   | 8.5     | 5.0   | 6.5   | 7.2   | 21    | 15    | 38    | 84    | 35     | 11    | 4.9   |
| 21          | 6.9   | 8.5     | 5.5   | 7.0   | 7.2   | 22    | 15    | 34    | 84    | 33     | 11    | 4.7   |
| 22          | 6.9   | 8.2     | 7.0   | 7.5   | 7.2   | 21    | 15    | 32    | 80    | 31     | 11    | 4.5   |
| 23          | 6.6   | 8.3     | 5.9   | 7.2   | 7.2   | 19    | 16    | 33    | 71    | 30     | 12    | 4.5   |
| 24          | 6.3   | 8.1     | 6.9   | 7.0   | 7.2   | 18    | 18    | 37    | 61    | 29     | 11    | 4.4   |
| 25          | 6.3   | 7.6     | 7.6   | 7.2   | 8.0   | 18    | 17    | 42    | 55    | 28     | 11    | 4.4   |
| 26          | 6.3   | 7.8     | 8.0   | 7.2   | 8.3   | 16    | 17    | 46    | 54    | 27     | 11    | 4.5   |
| 27          | 6.3   | 8.0     | 8.7   | 6.5   | 8.7   | 15    | 19    | 54    | 54    | 26     | 11    | 4.7   |
| 28          | 5.0   | 9.0     | 8.4   | 7.0   | 9.0   | 14    | 23    | 71    | 55    | 25     | 9.4   | 4.6   |
| 29          | 5.0   | 8.8     | 8.0   | 6.6   | 9.0   | 14    | 24    | 80    | 57    | 24     | 9.3   | 4.5   |
| 30          | 5.0   | 8.7     | 7.0   | 5.0   | ----- | 13    | 24    | 94    | 54    | 24     | 8.7   | 4.8   |
| 31          | 6.0   | -----   | 6.0   | 5.6   | ----- | 12    | ----- | 104   | ----- | 24     | 8.5   | ----- |
| TOTAL       | 239.4 | 229.9   | 253.6 | 189.8 | 207.5 | 532.0 | 492   | 1,327 | 2,320 | 1,065  | 423.9 | 193.4 |
| MEAN        | 7.72  | 7.66    | 8.18  | 6.12  | 7.16  | 17.2  | 16.4  | 42.8  | 77.3  | 34.4   | 13.7  | 6.45  |
| MAX         | 11    | 15      | 21    | 7.5   | 9.0   | 22    | 24    | 104   | 106   | 61     | 23    | 12    |
| MIN         | 5.0   | 5.6     | 5.0   | 4.5   | 6.0   | 7.6   | 12    | 26    | 54    | 24     | 8.5   | 4.4   |
| AC-FT       | 475   | 456     | 503   | 376   | 412   | 1,060 | 976   | 2,630 | 4,600 | 2,110  | 841   | 384   |
| CAL YR 1971 | TOTAL | 9,986.3 | MEAN  | 27.4  | MAX   | 121   | MIN   | 5.0   | AC-FT | 19,810 |       |       |
| WTR YR 1972 | TOTAL | 7,473.5 | MEAN  | 20.4  | MAX   | 106   | MIN   | 4.4   | AC-FT | 14,820 |       |       |

## WALKER LAKE BASIN

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 miles southwest of Bridgeport.

DRAINAGE AREA.--29.5 sq mi.

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, 2,600 acre-ft June 1 (elevation, 7,208.67 ft); minimum, 510 acre-ft Sept. 27-30.  
 Period of record: Maximum contents observed, 2,900 acre-ft June 22, July 5, 6, 1967 (elevation, 7,209.58 ft); minimum observed, 62 acre-ft Oct. 31, Nov. 1, 1964 (elevation, 7,200.22 ft).  
 No contents Oct. 17, 1961.

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

## ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Date                         | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) |
|------------------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30. . . . .            | 7,207.18            | 2,130                   |                                   |
| Oct. 31. . . . .             | 7,207.17            | 2,120                   | +10                               |
| Nov. 30. . . . .             | 7,207.20            | 2,130                   | +10                               |
| Dec. 31. . . . .             | 7,207.35            | 2,180                   | +50                               |
| Calendar year 1971 . . . . . | -                   | -                       | +320                              |
| Jan. 31. . . . .             | 7,207.21            | 2,140                   | -40                               |
| Feb. 29. . . . .             | 7,207.20            | 2,130                   | -10                               |
| Mar. 31. . . . .             | 7,207.41            | 2,200                   | +70                               |
| Apr. 30. . . . .             | 7,207.51            | 2,230                   | +30                               |
| May 31. . . . .              | 7,208.63            | 2,590                   | +360                              |
| June 30. . . . .             | 7,208.19            | 2,450                   | -140                              |
| July 31. . . . .             | 7,207.62            | 2,270                   | -180                              |
| Aug. 31. . . . .             | 7,202.21            | 619                     | -1,651                            |
| Sept. 30. . . . .            | 7,201.83            | 512                     | -107                              |
| Water year 1971-72 . . . . . | -                   | -                       | +1,618                            |

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 miles southwest of Bridgeport.

DRAINAGE AREA.--38.9 sq mi.

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 observed, 4,870 acre-ft June 10 (elevation, 7,202.02 ft); minimum observed, 760 acre-ft Sept. 30.  
 Period of record: Maximum contents, 5,490 acre-ft June 6, 1969 (elevation, 7,203.51 ft); 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 between elevations 7,190 (natural rim) and 7,200 ft (spillway crest). One transarea diversion out of Tamarack Creek into Summers Creek.

## ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Date                         | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) |
|------------------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30. . . . .            | 7,193.37            | 1,350                   |                                   |
| Oct. 31. . . . .             | 7,193.77            | 1,510                   | +160                              |
| Nov. 30. . . . .             | 7,195.46            | 2,180                   | +670                              |
| Dec. 31. . . . .             | -                   | g 3,500                 | +1,320                            |
| Calendar year 1971 . . . . . | -                   | -                       | +1,750                            |
| Jan. 27. . . . .             | 7,200.55            | 4,240                   | +740                              |
| Feb. 24. . . . .             | 7,200.35            | 4,160                   | -80                               |
| Mar. 29. . . . .             | 7,200.57            | 4,250                   | +90                               |
| Apr. 30. . . . .             | 7,197.05            | 2,820                   | -1,430                            |
| May 31. . . . .              | 7,198.66            | 3,460                   | +640                              |
| June 30. . . . .             | 7,201.72            | 4,740                   | +1,280                            |
| July 31. . . . .             | 7,198.35            | 3,340                   | -1,400                            |
| Aug. 31. . . . .             | 7,193.42            | 1,370                   | -1,970                            |
| Sept. 30. . . . .            | -                   | g 760                   | -610                              |
| Water year 1971-72 . . . . . | -                   | -                       | -590                              |

g Contents interpolated.

LOCATION.--Lat 38°10'20", long 119°19'25", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.28, T.4 N., R.24 E., Mono County, on left bank 0.2 mile downstream from Twin Lakes and 8 miles southwest of Bridgeport.

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

AVERAGE DISCHARGE.--19 years, 58.8 cfs (42,600 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 197 cfs June 9, 10 (gage height, 3.22 ft); minimum daily, 0.40 cfs Dec. 13-15.

Period of record: Maximum discharge, 492 cfs June 20, 1963; maximum gage height, 4.62 ft June 6, 1969; no flow for many days in some years.

Maximum discharge known, 660 cfs June 21, 1911 (gage height, 5.2 ft), at site 2.5 miles downstream.

REMARKS.--Records excellent 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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV       | DEC   | JAN    | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|-----------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1           | 31    | 14        | 2.6   | 1.0    | 15    | 15    | 24    | 75    | 95    | 139    | 99    | 53    |
| 2           | 31    | 14        | 2.1   | .90    | 15    | 15    | 24    | 74    | 94    | 139    | 108   | 51    |
| 3           | 31    | 14        | 1.9   | 1.0    | 15    | 15    | 23    | 73    | 95    | 135    | 117   | 49    |
| 4           | 31    | 14        | 1.9   | 1.1    | 15    | 17    | 24    | 72    | 112   | 132    | 115   | 47    |
| 5           | 23    | 14        | 1.9   | 1.4    | 16    | 18    | 27    | 72    | 124   | 124    | 129   | 47    |
| 6           | 14    | 14        | 1.4   | 1.2    | 17    | 19    | 31    | 70    | 142   | 117    | 131   | 46    |
| 7           | 14    | 14        | 1.2   | 1.2    | 17    | 20    | 30    | 68    | 168   | 108    | 130   | 45    |
| 8           | 15    | 14        | 1.2   | 1.4    | 16    | 21    | 30    | 67    | 186   | 99     | 128   | 44    |
| 9           | 15    | 14        | .94   | 1.4    | 16    | 19    | 27    | 67    | 188   | 90     | 126   | 43    |
| 10          | 14    | 14        | .70   | 1.4    | 16    | 18    | 26    | 67    | 195   | 88     | 125   | 41    |
| 11          | 11    | 14        | .60   | 1.4    | 15    | 20    | 26    | 67    | 188   | 85     | 122   | 40    |
| 12          | 11    | 15        | .50   | 1.4    | 15    | 22    | 29    | 68    | 177   | 84     | 119   | 40    |
| 13          | 11    | 14        | .40   | 1.4    | 15    | 22    | 28    | 70    | 168   | 88     | 116   | 39    |
| 14          | 15    | 13        | .40   | 1.4    | 15    | 24    | 26    | 71    | 168   | 85     | 112   | 38    |
| 15          | 17    | 13        | .40   | 1.4    | 14    | 25    | 26    | 74    | 175   | 84     | 108   | 37    |
| 16          | 17    | 14        | .60   | 1.4    | 14    | 26    | 26    | 76    | 182   | 84     | 99    | 37    |
| 17          | 16    | 14        | .60   | 1.4    | 14    | 25    | 49    | 76    | 189   | 89     | 93    | 36    |
| 18          | 15    | 12        | .60   | 2.1    | 14    | 26    | 75    | 80    | 191   | 90     | 91    | 35    |
| 19          | 14    | 8.0       | .70   | 3.5    | 14    | 26    | 65    | 93    | 188   | 84     | 89    | 33    |
| 20          | 14    | 8.0       | .70   | 5.0    | 14    | 27    | 61    | 93    | 184   | 77     | 86    | 33    |
| 21          | 14    | 7.7       | .70   | 6.5    | 14    | 28    | 68    | 92    | 182   | 73     | 83    | 32    |
| 22          | 14    | 7.1       | 1.4   | 7.7    | 15    | 36    | 97    | 92    | 177   | 84     | 81    | 31    |
| 23          | 14    | 6.8       | 1.7   | 8.4    | 15    | 36    | 107   | 92    | 168   | 82     | 78    | 30    |
| 24          | 14    | 6.2       | 1.5   | 9.6    | 15    | 34    | 92    | 92    | 156   | 89     | 75    | 28    |
| 25          | 14    | 4.7       | 1.2   | 11     | 15    | 34    | 89    | 92    | 145   | 92     | 72    | 27    |
| 26          | 14    | 4.4       | 1.2   | 13     | 14    | 29    | 88    | 88    | 138   | 94     | 68    | 26    |
| 27          | 14    | 3.8       | 1.2   | 15     | 14    | 27    | 85    | 83    | 133   | 123    | 65    | 25    |
| 28          | 14    | 2.9       | 1.2   | 17     | 14    | 27    | 81    | 84    | 132   | 137    | 62    | 24    |
| 29          | 14    | 2.4       | 1.1   | 17     | 14    | 26    | 78    | 86    | 133   | 134    | 60    | 23    |
| 30          | 14    | 2.6       | 1.1   | 17     | ----- | 25    | 76    | 89    | 136   | 112    | 57    | 22    |
| 31          | 14    | -----     | 1.1   | 17     | ----- | 24    | ----- | 93    | ----- | 96     | 55    | ----- |
| TOTAL       | 514   | 313.6     | 34.74 | 171.60 | 432   | 746   | 1,533 | 2,456 | 4,709 | 3,137  | 2,999 | 1,102 |
| MEAN        | 16.6  | 10.5      | 1.12  | 5.54   | 14.9  | 24.1  | 51.1  | 79.2  | 157   | 101    | 96.7  | 36.7  |
| MAX         | 31    | 15        | 2.6   | 17     | 17    | 36    | 102   | 93    | 195   | 139    | 131   | 53    |
| MIN         | 11    | 2.4       | .40   | .90    | 14    | 15    | 23    | 67    | 94    | 73     | 55    | 22    |
| AC-FT       | 1,020 | 622       | 69    | 340    | 857   | 1,480 | 3,040 | 4,870 | 9,340 | 6,220  | 5,950 | 2,190 |
| CAL YR 1971 | TOTAL | 20,559.54 | MEAN  | 56.3   | MAX   | 266   | MIN   | .40   | AC-FT | 40,780 |       |       |
| WTR YR 1972 | TOTAL | 18,147.94 | MEAN  | 49.6   | MAX   | 195   | MIN   | .40   | AC-FT | 36,000 |       |       |

## WALKER LAKE BASIN

10291500 Buckeye Creek near Bridgeport, Calif.

LOCATION.--Lat 38°14'20", long 119°19'30", in NE¼NE¼ sec.4, T.4 N., R.24 E., Mono County, on right bank at Buckeye Hot Springs, 0.6 mile downstream from Eagle Creek, and 5.5 miles southwest of Bridgeport.

DRAINAGE AREA.--44.1 sq mi.

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 (from topographic map). November 1910 to September 1914, nonrecording gage at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--20 years (1911-12, 1953-72), 59.0 cfs (42,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 287 cfs May 31, June 1 (gage height, 3.11 ft); minimum 9.6 cfs Jan. 23 (but may have been less during periods of ice effect).

Period of record: Maximum discharge, 947 cfs Feb. 1, 1963 (gage height, 4.41 ft) from rating curve extended above 360 cfs on basis of slope-area measurement at gage height 4.00 ft and logarithmic plotting; minimum, 3.3 cfs Dec. 12, 1959, result of freezeup. Flood of June 21, 1911, reached an observed stage of 4.8 ft (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 1971 TO SEPTEMBER 1972

| DAY         | OCT          | NOV       | DEC     | JAN    | FEB          | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|--------------|-----------|---------|--------|--------------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 25           | 20        | 18      | 14     | 18           | 21    | 32    | 69    | 219   | 95    | 31    | 36    |
| 2           | 25           | 19        | 18      | 15     | 16           | 25    | 32    | 79    | 200   | 88    | 29    | 25    |
| 3           | 25           | 19        | 18      | 16     | 16           | 34    | 34    | 88    | 204   | 83    | 28    | 22    |
| 4           | 24           | 19        | 19      | 12     | 17           | 35    | 37    | 94    | 196   | 78    | 27    | 22    |
| 5           | 23           | 19        | 18      | 14     | 17           | 34    | 39    | 87    | 175   | 73    | 26    | 44    |
| 6           | 23           | 18        | 20      | 15     | 17           | 35    | 38    | 87    | 174   | 67    | 26    | 31    |
| 7           | 23           | 18        | 19      | 17     | 16           | 36    | 35    | 92    | 179   | 62    | 26    | 25    |
| 8           | 23           | 18        | 17      | 16     | 16           | 41    | 33    | 82    | 182   | 57    | 25    | 23    |
| 9           | 22           | 18        | 19      | 14     | 17           | 45    | 33    | 81    | 209   | 54    | 25    | 22    |
| 10          | 22           | 18        | 18      | 15     | 16           | 46    | 33    | 73    | 166   | 54    | 24    | 22    |
| 11          | 21           | 33        | 18      | 16     | 17           | 42    | 33    | 88    | 141   | 53    | 23    | 21    |
| 12          | 21           | 33        | 18      | 16     | 16           | 42    | 32    | 102   | 147   | 53    | 23    | 21    |
| 13          | 21           | 22        | 17      | 16     | 16           | 40    | 32    | 117   | 156   | 53    | 22    | 20    |
| 14          | 21           | 20        | 17      | 15     | 16           | 39    | 32    | 132   | 165   | 51    | 22    | 20    |
| 15          | 21           | 20        | 16      | 15     | 17           | 40    | 34    | 147   | 167   | 49    | 22    | 19    |
| 16          | 21           | 21        | 18      | 14     | 16           | 43    | 36    | 149   | 165   | 50    | 21    | 19    |
| 17          | 21           | 20        | 20      | 14     | 16           | 49    | 34    | 136   | 158   | 48    | 21    | 19    |
| 18          | 21           | 19        | 20      | 15     | 18           | 54    | 33    | 123   | 151   | 47    | 22    | 18    |
| 19          | 21           | 18        | 20      | 17     | 18           | 50    | 31    | 124   | 150   | 43    | 22    | 18    |
| 20          | 21           | 19        | 20      | 18     | 19           | 53    | 31    | 95    | 148   | 41    | 20    | 18    |
| 21          | 21           | 20        | 20      | 19     | 19           | 55    | 33    | 78    | 138   | 38    | 20    | 18    |
| 22          | 21           | 19        | 21      | 19     | 19           | 49    | 33    | 71    | 134   | 36    | 19    | 18    |
| 23          | 20           | 19        | 22      | 17     | 17           | 42    | 36    | 80    | 124   | 35    | 19    | 18    |
| 24          | 21           | 19        | 23      | 16     | 17           | 39    | 40    | 103   | 111   | 34    | 19    | 17    |
| 25          | 21           | 19        | 23      | 18     | 21           | 39    | 36    | 123   | 103   | 32    | 18    | 17    |
| 26          | 21           | 20        | 19      | 17     | 19           | 36    | 37    | 148   | 102   | 31    | 18    | 17    |
| 27          | 20           | 20        | 17      | 16     | 20           | 34    | 43    | 170   | 101   | 31    | 18    | 17    |
| 28          | 18           | 23        | 16      | 16     | 21           | 33    | 55    | 182   | 102   | 30    | 19    | 17    |
| 29          | 17           | 21        | 15      | 15     | 21           | 33    | 61    | 202   | 103   | 30    | 20    | 17    |
| 30          | 18           | 20        | 14      | 15     | -----        | 32    | 60    | 216   | 101   | 35    | 22    | 17    |
| 31          | 20           | -----     | 13      | 15     | -----        | 32    | ----- | 224   | ----- | 34    | 35    | ----- |
| TOTAL       | 663          | 611       | 571     | 487    | 509          | 1,228 | 1,108 | 3,642 | 4,571 | 1,565 | 712   | 638   |
| MEAN        | 21.4         | 20.4      | 18.4    | 15.7   | 17.6         | 39.6  | 36.9  | 117   | 152   | 50.5  | 23.0  | 21.3  |
| MAX         | 25           | 33        | 23      | 19     | 21           | 55    | 61    | 224   | 219   | 95    | 35    | 44    |
| MIN         | 17           | 18        | 13      | 12     | 16           | 21    | 31    | 69    | 101   | 30    | 18    | 17    |
| AC-FT       | 1,320        | 1,210     | 1,130   | 966    | 1,010        | 2,440 | 2,200 | 7,220 | 9,070 | 3,100 | 1,410 | 1,270 |
| CAL YR 1971 | TOTAL 21,490 | MEAN 58.9 | MAX 308 | MIN 12 | AC-FT 42,630 |       |       |       |       |       |       |       |
| WTR YR 1972 | TOTAL 16,305 | MEAN 44.5 | MAX 224 | MIN 12 | AC-FT 32,340 |       |       |       |       |       |       |       |

## PEAK DISCHARGE (BASE, 100 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 5-4  | 0300 | 2.41  | 106       | 6-9  | 1800 | 2.90  | 218       |
| 5-16 | 0100 | 2.77  | 182       | 6-14 | 2400 | 2.84  | 201       |
| 5-31 | 2400 | 3.11  | 287       |      |      |       |           |

## WALKER LAKE BASIN

63

10292000 Swauger Creek near Bridgeport, Calif.  
(Formerly published as Swager Creek)

LOCATION.--Lat 38°17'00", long 119°17'50", in SE¼NW¼ sec.23, T.5 N., R.24 E., Mono County, on right bank 0.8 mile downstream from Yaney Canyon and 4 miles northwest of Bridgeport.

DRAINAGE AREA.--52.8 sq mi.

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 (from topographic map). June 1911 to September 1915, nonrecording gages at approximately same site at different datums.

AVERAGE DISCHARGE.--20 years (1911-12, 1953-72), 12.4 cfs (8,980 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 120 cfs Mar. 3 (gage height, 3.08 ft); maximum gage height, 3.24 ft Jan. 5 (backwater from ice); minimum discharge, 1.6 cfs Aug. 8-11, 15-18, 22, 23.

Period of record: Maximum discharge, 585 cfs Dec. 23, 1955 (gage height, 6.24 ft), from rating curve extended above 175 cfs on basis of slope-area measurement for peak flow; minimum observed, 0.50 cfs Apr. 20, 1912, Feb. 28, 1969.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation of about 1,000 acres above station.

REVISIONS.--WSP 1927: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1     | 7.6   | 6.9   | 7.8   | 5.0   | 8.2   | 14    | 12    | 13    | 16    | 3.6  | 2.7  | 3.8   |
| 2     | 6.6   | 7.1   | 8.7   | 5.4   | 7.0   | 24    | 13    | 14    | 16    | 2.8  | 2.4  | 4.3   |
| 3     | 6.5   | 7.3   | 9.0   | 5.6   | 7.5   | 53    | 14    | 14    | 16    | 2.6  | 2.6  | 3.8   |
| 4     | 6.4   | 7.6   | 8.7   | 4.5   | 9.0   | 34    | 14    | 15    | 17    | 3.1  | 2.2  | 3.9   |
| 5     | 6.6   | 7.6   | 9.8   | 5.0   | 9.0   | 26    | 18    | 16    | 18    | 3.8  | 2.0  | 5.6   |
| 6     | 6.5   | 7.2   | 9.0   | 6.0   | 9.0   | 23    | 18    | 16    | 20    | 2.5  | 2.0  | 4.1   |
| 7     | 6.5   | 7.2   | 6.5   | 7.0   | 9.0   | 23    | 16    | 16    | 19    | 2.3  | 1.9  | 4.0   |
| 8     | 6.2   | 7.0   | 6.0   | 6.5   | 9.0   | 24    | 14    | 15    | 18    | 2.5  | 1.8  | 5.2   |
| 9     | 5.9   | 7.5   | 7.0   | 6.0   | 8.7   | 23    | 14    | 11    | 17    | 2.6  | 1.8  | 6.9   |
| 10    | 6.2   | 7.5   | 8.1   | 6.5   | 8.0   | 22    | 13    | 6.2   | 13    | 2.6  | 1.9  | 6.4   |
| 11    | 6.2   | 13    | 7.5   | 7.0   | 8.5   | 22    | 16    | 6.7   | 9.7   | 1.9  | 1.8  | 6.1   |
| 12    | 6.2   | 13    | 8.1   | 7.5   | 8.7   | 22    | 16    | 8.1   | 11    | 1.9  | 2.2  | 6.5   |
| 13    | 6.1   | 8.9   | 7.0   | 7.5   | 8.7   | 22    | 16    | 9.3   | 12    | 2.3  | 2.8  | 6.7   |
| 14    | 5.9   | 6.4   | 6.8   | 7.0   | 9.0   | 20    | 15    | 10    | 9.1   | 2.6  | 2.1  | 6.6   |
| 15    | 6.3   | 7.0   | 6.5   | 7.0   | 9.0   | 21    | 18    | 9.2   | 6.4   | 2.1  | 1.7  | 6.5   |
| 16    | 6.8   | 7.5   | 7.0   | 7.0   | 9.0   | 22    | 17    | 8.4   | 5.5   | 1.8  | 1.7  | 6.2   |
| 17    | 6.8   | 7.5   | 7.5   | 7.5   | 9.0   | 23    | 16    | 9.8   | 6.2   | 2.2  | 1.7  | 6.2   |
| 18    | 7.1   | 7.6   | 8.4   | 8.0   | 9.4   | 22    | 15    | 10    | 6.4   | 2.3  | 1.8  | 6.1   |
| 19    | 7.2   | 7.5   | 8.4   | 9.4   | 10    | 20    | 13    | 14    | 5.5   | 2.4  | 1.8  | 6.2   |
| 20    | 7.2   | 8.4   | 8.4   | 9.4   | 11    | 20    | 13    | 15    | 4.7   | 2.6  | 1.9  | 6.3   |
| 21    | 7.2   | 8.8   | 8.1   | 9.8   | 11    | 20    | 14    | 12    | 5.5   | 2.6  | 1.9  | 6.0   |
| 22    | 7.2   | 8.7   | 8.0   | 9.8   | 11    | 19    | 13    | 13    | 6.0   | 2.7  | 1.8  | 6.1   |
| 23    | 7.2   | 9.0   | 7.2   | 9.0   | 10    | 17    | 14    | 12    | 5.1   | 3.2  | 1.8  | 6.1   |
| 24    | 7.5   | 8.7   | 9.4   | 8.0   | 11    | 18    | 14    | 11    | 5.1   | 3.7  | 2.0  | 6.0   |
| 25    | 7.5   | 8.7   | 6.3   | 9.4   | 11    | 17    | 13    | 12    | 5.9   | 3.2  | 2.0  | 6.1   |
| 26    | 7.5   | 9.4   | 5.8   | 8.0   | 13    | 15    | 13    | 12    | 5.1   | 2.2  | 2.7  | 6.0   |
| 27    | 7.2   | 9.4   | 5.5   | 7.5   | 14    | 14    | 12    | 14    | 4.3   | 2.0  | 2.6  | 6.0   |
| 28    | 6.3   | 11    | 5.0   | 8.4   | 16    | 13    | 11    | 14    | 4.0   | 2.0  | 2.9  | 5.9   |
| 29    | 6.0   | 9.8   | 6.0   | 7.5   | 14    | 12    | 12    | 16    | 3.1   | 2.3  | 2.8  | 5.9   |
| 30    | 6.8   | 9.0   | 5.2   | 7.0   | ----- | 11    | 13    | 16    | 3.6   | 3.9  | 2.7  | 5.9   |
| 31    | 7.5   | ----- | 4.8   | 7.0   | ----- | 11    | ----- | 16    | ----- | 3.6  | 2.9  | ----- |
| TOTAL | 208.7 | 252.2 | 227.5 | 226.2 | 287.7 | 647   | 430   | 384.7 | 294.2 | 81.9 | 66.9 | 171.4 |
| MEAN  | 6.73  | 8.41  | 7.34  | 7.30  | 9.92  | 20.9  | 14.3  | 12.4  | 9.81  | 2.64 | 2.16 | 5.71  |
| MAX   | 7.6   | 13    | 9.8   | 9.8   | 16    | 53    | 18    | 16    | 20    | 3.9  | 2.9  | 6.9   |
| MIN   | 5.9   | 6.4   | 4.8   | 4.5   | 7.0   | 11    | 11    | 6.2   | 3.1   | 1.8  | 1.7  | 3.8   |
| AC-FT | 414   | 500   | 451   | 449   | 571   | 1,280 | 853   | 763   | 584   | 162  | 133  | 340   |

CAL YR 1971 TOTAL 4,688.9 MEAN 12.8 MAX 37 MIN 2.1 AC-FT 9,300  
WTR YR 1972 TOTAL 3,278.4 MEAN 8.96 MAX 53 MIN 1.7 AC-FT 6,500

Peak discharge (base, 25 cfs).--March 3 (1500) 120 cfs (3.08 ft); March 17 (2000) 28 cfs (2.17 ft).

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 mile upstream from Rock Springs Canyon, and 2.4 miles north of Bridgeport.

DRAINAGE AREA.--0.79 sq mi.

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

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

AVERAGE DISCHARGE.--9 years, 0.077 cfs (56 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5.0 cfs Feb. 24 (gage height, 3.95 ft); no flow most of year.  
Period of record: Maximum discharge, 98 cfs Mar. 16, 1967 (gage height, 10.91 ft); no flow most of the time.

REMARKS.--Records of flow poor. No diversion above station. Mean daily flows of 0.05 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV        | DEC     | JAN   | FEB       | MAR | APR   | MAY | JUN   | JUL | AUG | SEP   |
|-------------|------------|------------|---------|-------|-----------|-----|-------|-----|-------|-----|-----|-------|
| 1           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 2           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 3           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 4           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 5           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 6           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 7           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 8           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 9           |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 10          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 11          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 12          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 13          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 14          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 15          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 16          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 17          |            |            |         | .05   | 0         |     |       |     |       |     |     |       |
| 18          |            |            |         | .40   | 0         |     |       |     |       |     |     |       |
| 19          |            |            |         | .48   | 0         |     |       |     |       |     |     |       |
| 20          |            |            |         | .11   | 0         |     |       |     |       |     |     |       |
| 21          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 22          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 23          |            |            |         | .31   | .65       |     |       |     |       |     |     |       |
| 24          |            |            |         | 0     | 2.5       |     |       |     |       |     |     |       |
| 25          |            |            |         | 0     | 2.5       |     |       |     |       |     |     |       |
| 26          |            |            |         | 0     | 1.6       |     |       |     |       |     |     |       |
| 27          |            |            |         | 0     | .22       |     |       |     |       |     |     |       |
| 28          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 29          |            |            |         | 0     | 0         |     |       |     |       |     |     |       |
| 30          |            |            |         | 0     | -----     |     |       |     |       |     |     |       |
| 31          |            | -----      |         | 0     | -----     |     | ----- |     | ----- |     |     | ----- |
| TOTAL       | 0          | 0          | 0       | 1.35  | 7.47      | 0   | 0     | 0   | 0     | 0   | 0   | 0     |
| MEAN        | 0          | 0          | 0       | .044  | .26       | 0   | 0     | 0   | 0     | 0   | 0   | 0     |
| MAX         | 0          | 0          | 0       | .48   | 2.5       | 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       | 2.7   | 15        | 0   | 0     | 0   | 0     | 0   | 0   | 0     |
| CAL YR 1971 | TOTAL 2.60 | MEAN .0070 | MAX 1.5 | MIN 0 | AC-FT 5.2 |     |       |     |       |     |     |       |
| WTR YR 1972 | TOTAL 8.82 | MEAN .024  | MAX 2.5 | MIN 0 | AC-FT 17  |     |       |     |       |     |     |       |



## WALKER LAKE BASIN

65

10292500 Bridgeport Reservoir near Bridgeport, Calif.

LOCATION.--Lat 38°19'30", long 119°12'40", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 34, T.6 N., R.25 E., Mono County, at Bridgeport Dam on East Walker River, 4.5 miles north of Bridgeport.

DRAINAGE AREA.--358 sq mi.

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, 43,370 acre-ft Mar. 21, 22 (elevation, 6,460.32 ft); minimum, 5,840 acre-ft Sept. 30 (elevation, 6,439.51 ft).

Period of record: Maximum contents, 44,580 acre-ft June 12, 1938, June 25, 26, 1958 (elevation, 6,460.7 ft); 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 between elevations 6,415 (approximate elevation of bottom of reservoir) and 6,460 ft (crest of spillway). Elevation of sill of outlet gate, 6,412 ft. No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

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 1971 TO SEPTEMBER 1972

| DAY | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1   | 19,700   | 21,500   | 26,530   | 30,850   | 35,040   | 41,290   | 42,020   | 35,170   | 26,420   | 30,360   | 18,960   | 8,790    |
| 2   | 19,700   | 21,700   | 26,640   | 30,970   | 35,170   | 41,730   | 42,020   | 34,640   | 26,530   | 30,120   | 18,690   | 8,490    |
| 3   | 19,800   | 21,800   | 26,750   | 31,090   | 35,300   | 42,020   | 41,880   | 34,110   | 26,640   | 29,880   | 18,440   | 8,180    |
| 4   | 19,880   | 21,990   | 26,980   | 31,090   | 35,440   | 42,020   | 41,880   | 33,730   | 26,980   | 29,520   | 18,350   | 7,890    |
| 5   | 19,980   | 22,090   | 27,200   | 31,330   | 35,570   | 41,730   | 41,730   | 33,220   | 27,090   | 29,040   | 18,260   | 7,650    |
| 6   | 20,070   | 22,290   | 27,200   | 31,450   | 35,700   | 41,730   | 41,730   | 32,710   | 27,320   | 28,580   | 18,260   | 7,600    |
| 7   | 20,070   | 22,380   | 27,320   | 31,700   | 35,830   | 41,880   | 41,730   | 32,330   | 27,660   | 28,120   | 18,010   | 7,410    |
| 8   | 20,070   | 22,580   | 27,440   | 31,820   | 35,960   | 41,880   | 41,580   | 31,820   | 28,010   | 27,660   | 17,750   | 7,220    |
| 9   | 20,070   | 22,680   | 27,550   | 31,950   | 36,100   | 42,020   | 41,440   | 31,210   | 28,360   | 27,090   | 17,490   | 7,120    |
| 10  | 20,070   | 22,790   | 27,660   | 32,080   | 36,230   | 42,170   | 41,290   | 30,850   | 28,580   | 26,640   | 17,060   | 7,030    |
| 11  | 20,070   | 23,200   | 27,780   | 32,200   | 36,360   | 42,460   | 41,150   | 30,490   | 28,700   | 26,310   | 16,660   | 6,940    |
| 12  | 20,070   | 23,620   | 27,900   | 32,330   | 36,500   | 42,610   | 41,000   | 30,120   | 28,820   | 25,870   | 16,190   | 6,860    |
| 13  | 20,070   | 23,720   | 28,010   | 32,460   | 36,630   | 42,760   | 40,850   | 29,760   | 29,040   | 25,540   | 15,790   | 6,810    |
| 14  | 20,160   | 23,930   | 28,120   | 32,590   | 36,760   | 42,760   | 40,850   | 29,520   | 29,160   | 25,100   | 15,320   | 6,770    |
| 15  | 20,160   | 24,040   | 28,240   | 32,710   | 36,900   | 42,920   | 40,710   | 29,280   | 29,280   | 24,770   | 14,950   | 6,720    |
| 16  | 20,160   | 24,240   | 28,360   | 32,840   | 37,040   | 42,920   | 40,560   | 28,930   | 29,640   | 24,350   | 14,580   | 6,680    |
| 17  | 20,070   | 24,350   | 28,470   | 32,970   | 37,180   | 42,920   | 40,120   | 28,700   | 30,000   | 24,040   | 14,210   | 6,640    |
| 18  | 19,980   | 24,560   | 28,580   | 33,220   | 37,320   | 43,070   | 39,980   | 28,360   | 30,360   | 23,720   | 13,790   | 6,540    |
| 19  | 20,070   | 24,660   | 28,700   | 33,350   | 37,590   | 43,070   | 39,830   | 28,120   | 30,730   | 23,410   | 13,720   | 6,500    |
| 20  | 20,160   | 24,770   | 28,820   | 33,480   | 37,730   | 43,220   | 39,540   | 27,900   | 30,970   | 23,000   | 13,240   | 6,370    |
| 21  | 20,250   | 24,990   | 28,930   | 33,600   | 38,010   | 43,220   | 39,260   | 27,660   | 31,210   | 22,680   | 12,900   | 6,330    |
| 22  | 20,440   | 25,210   | 29,400   | 33,730   | 38,150   | 43,070   | 39,120   | 27,320   | 31,210   | 22,380   | 12,500   | 6,240    |
| 23  | 20,440   | 25,320   | 29,520   | 33,730   | 38,430   | 43,070   | 38,980   | 27,090   | 31,210   | 21,990   | 12,130   | 6,200    |
| 24  | 20,530   | 25,430   | 29,760   | 33,980   | 38,570   | 42,920   | 38,290   | 26,860   | 31,090   | 21,500   | 11,690   | 6,120    |
| 25  | 20,720   | 25,650   | 29,880   | 34,110   | 38,980   | 42,610   | 38,010   | 26,750   | 31,090   | 21,110   | 11,690   | 6,080    |
| 26  | 20,820   | 25,760   | 30,000   | 34,240   | 39,260   | 42,460   | 37,590   | 26,640   | 31,090   | 20,820   | 11,030   | 6,040    |
| 27  | 20,820   | 25,980   | 30,120   | 34,380   | 39,830   | 42,310   | 37,180   | 26,530   | 30,970   | 20,440   | 10,670   | 5,960    |
| 28  | 20,920   | 26,090   | 30,240   | 34,510   | 40,420   | 42,310   | 36,760   | 26,420   | 30,970   | 20,160   | 10,200   | 5,920    |
| 29  | 21,110   | 26,310   | 30,360   | 34,640   | 41,000   | 42,170   | 36,100   | 26,310   | 30,850   | 19,800   | 9,820    | 5,880    |
| 30  | 21,310   | 26,420   | 30,490   | 34,770   | -----    | 42,310   | 35,570   | 26,310   | 30,610   | 19,520   | 9,480    | 5,840    |
| 31  | 21,400   | -----    | 30,610   | 35,040   | -----    | 42,310   | -----    | 26,310   | -----    | 19,240   | 9,100    | -----    |
| MAX | 21,400   | 26,420   | 30,610   | 35,040   | 41,000   | 43,220   | 42,020   | 35,170   | 31,210   | 30,360   | 18,960   | 8,790    |
| MIN | 19,700   | 21,500   | 26,530   | 30,850   | 35,040   | 41,290   | 35,570   | 26,310   | 26,420   | 19,240   | 9,100    | 5,840    |
| (+) | 6,451.40 | 6,453.81 | 6,455.62 | 6,457.33 | 6,459.48 | 6,459.96 | 6,457.57 | 6,453.77 | 6,455.62 | 6,450.23 | 6,443.01 | 6,439.51 |
| (+) | +1,700   | +5,020   | +4,190   | +4,430   | +5,960   | +1,310   | -6,740   | -9,260   | +4,300   | -11,370  | -10,140  | -3,260   |

CAL YR 1971 MAX 43,070 MIN 19,610 ++2,830  
 WTR YR 1972 MAX 43,370 MIN 5,840 +-13,860

+ ELEVATION, IN FEET, AT END OF MONTH.

\* CHANGE IN CONTENTS, IN ACRE-FEET.

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, on right bank 1,500 ft downstream from Bridgeport Reservoir, 5 miles north of Bridgeport, and 10 miles upstream from Sweetwater Creek.

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

AVERAGE DISCHARGE.--49 years (1922-24, 1925-72), 137 cfs (99,260 acre-ft per year), unadjusted.

REMARKS.--Records excellent. 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV       | DEC   | JAN    | FEB   | MAR   | APR    | MAY    | JUN    | JUL     | AUG    | SEP   |
|-------------|-------|-----------|-------|--------|-------|-------|--------|--------|--------|---------|--------|-------|
| 1           | 52    | 10        | 10    | 9.6    | 10    | 76    | 113    | 302    | 261    | 237     | 147    | 204   |
| 2           | 52    | 10        | 10    | 9.6    | 10    | 53    | 113    | 299    | 261    | 279     | 147    | 200   |
| 3           | 52    | 10        | 10    | 9.6    | 10    | 73    | 117    | 297    | 261    | 284     | 134    | 184   |
| 4           | 53    | 9.6       | 10    | 9.6    | 10    | 211   | 123    | 286    | 254    | 313     | 100    | 182   |
| 5           | 53    | 9.6       | 10    | 10     | 10    | 272   | 123    | 281    | 249    | 316     | 100    | 182   |
| 6           | 64    | 9.6       | 10    | 10     | 10    | 176   | 125    | 279    | 234    | 322     | 100    | 182   |
| 7           | 71    | 9.6       | 10    | 10     | 10    | 145   | 132    | 279    | 232    | 310     | 111    | 174   |
| 8           | 71    | 9.6       | 10    | 10     | 10    | 122   | 132    | 279    | 220    | 305     | 158    | 145   |
| 9           | 71    | 9.6       | 10    | 10     | 10    | 98    | 132    | 276    | 200    | 289     | 186    | 122   |
| 10          | 71    | 9.6       | 10    | 10     | 10    | 76    | 132    | 254    | 191    | 269     | 222    | 120   |
| 11          | 71    | 9.6       | 10    | 10     | 10    | 76    | 130    | 174    | 191    | 237     | 229    | 113   |
| 12          | 71    | 9.6       | 10    | 10     | 10    | 76    | 130    | 63     | 186    | 234     | 229    | 92    |
| 13          | 71    | 9.6       | 10    | 10     | 10    | 99    | 130    | 49     | 165    | 229     | 229    | 79    |
| 14          | 73    | 10        | 10    | 10     | 10    | 115   | 130    | 47     | 151    | 234     | 225    | 79    |
| 15          | 73    | 10        | 10    | 10     | 10    | 117   | 134    | 48     | 145    | 232     | 216    | 79    |
| 16          | 73    | 10        | 10    | 10     | 10    | 118   | 149    | 51     | 127    | 216     | 216    | 79    |
| 17          | 73    | 10        | 10    | 10     | 10    | 118   | 153    | 154    | 127    | 209     | 207    | 79    |
| 18          | 46    | 10        | 10    | 10     | 10    | 120   | 164    | 246    | 127    | 193     | 197    | 79    |
| 19          | 35    | 10        | 10    | 10     | 10    | 108   | 170    | 254    | 129    | 191     | 195    | 79    |
| 20          | 22    | 10        | 10    | 11     | 10    | 98    | 176    | 251    | 141    | 184     | 195    | 79    |
| 21          | 21    | 10        | 10    | 11     | 10    | 122   | 191    | 241    | 154    | 191     | 200    | 80    |
| 22          | 10    | 10        | 10    | 11     | 10    | 149   | 195    | 237    | 168    | 195     | 218    | 80    |
| 23          | 10    | 10        | 10    | 9.6    | 11    | 147   | 206    | 225    | 192    | 202     | 237    | 80    |
| 24          | 10    | 10        | 10    | 9.60   | 10    | 158   | 213    | 204    | 178    | 202     | 249    | 80    |
| 25          | 10    | 10        | 10    | 9.60   | 10    | 158   | 234    | 200    | 166    | 202     | 249    | 80    |
| 26          | 10    | 10        | 10    | 9.60   | 10    | 153   | 251    | 193    | 166    | 206     | 246    | 80    |
| 27          | 10    | 10        | 10    | 9.60   | 10    | 145   | 254    | 191    | 172    | 204     | 244    | 80    |
| 28          | 10    | 10        | 10    | 9.3    | 10    | 120   | 261    | 204    | 191    | 195     | 244    | 83    |
| 29          | 10    | 10        | 10    | 10     | 10    | 113   | 271    | 222    | 197    | 195     | 234    | 89    |
| 30          | 10    | 10        | 10    | 10     | ----- | 113   | 302    | 232    | 209    | 195     | 216    | 89    |
| 31          | 10    | -----     | 9.6   | 10     | ----- | 113   | -----  | 261    | -----  | 186     | 204    | ----- |
| TOTAL       | 1,339 | 256.0     | 309.6 | 268.10 | 291   | 3,808 | 5,086  | 6,579  | 5,636  | 7,256   | 6,086  | 3,353 |
| MEAN        | 43.2  | 9.87      | 9.99  | 8.65   | 10.0  | 123   | 170    | 212    | 188    | 234     | 196    | 112   |
| MAX         | 73    | 10        | 10    | 11     | 11    | 292   | 302    | 302    | 261    | 322     | 249    | 204   |
| MIN         | 10    | 9.6       | 9.6   | 9.60   | 10    | 36    | 113    | 47     | 127    | 184     | 100    | 79    |
| AC-FT       | 2,660 | 587       | 614   | 532    | 577   | 7,550 | 10,090 | 13,050 | 11,180 | 14,390  | 12,070 | 6,650 |
| CAL YR 1971 | TOTAL | 51,586.90 | MEAN  | 141    | MAX   | 555   | MIN    | 8.5    | AC-FT  | 102,300 |        |       |
| WTR YR 1972 | TOTAL | 40,307.70 | MEAN  | 110    | MAX   | 322   | MIN    | 9.950  | AC-FT  | 79,950  |        |       |

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| DAY         | OCT          | NOV   | DEC      | JAN     | FEB    | MAR          | APR   | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------------|--------------|-------|----------|---------|--------|--------------|-------|--------|--------|--------|-------|-------|
| 1           | 80           | 44    | 37       | 25      | 36     | 37           | 110   | 266    | 220    | 144    | 144   | 168   |
| 2           | 76           | 41    | 35       | 24      | 39     | 34           | 107   | 275    | 224    | 160    | 131   | 170   |
| 3           | 77           | 42    | 33       | 20      | 35     | 51           | 105   | 266    | 238    | 182    | 127   | 166   |
| 4           | 76           | 42    | 29       | 14      | 33     | 66           | 103   | 266    | 238    | 192    | 129   | 156   |
| 5           | 75           | 41    | 33       | 15      | 31     | 166          | 110   | 262    | 229    | 218    | 91    | 168   |
| 6           | 76           | 39    | 34       | 16      | 32     | 253          | 108   | 257    | 220    | 231    | 81    | 160   |
| 7           | 76           | 39    | 37       | 17      | 34     | 184          | 108   | 253    | 220    | 235    | 76    | 160   |
| 8           | 83           | 39    | 30       | 18      | 33     | 158          | 112   | 253    | 255    | 240    | 73    | 152   |
| 9           | 81           | 38    | 28       | 19      | 33     | 136          | 116   | 253    | 229    | 242    | 95    | 144   |
| 10          | 80           | 37    | 27       | 21      | 33     | 110          | 117   | 242    | 200    | 238    | 125   | 137   |
| 11          | 83           | 37    | 26       | 22      | 31     | 81           | 119   | 218    | 184    | 222    | 146   | 137   |
| 12          | 83           | 38    | 25       | 24      | 30     | 69           | 123   | 194    | 182    | 192    | 154   | 125   |
| 13          | 84           | 44    | 25       | 25      | 31     | 70           | 132   | 188    | 176    | 184    | 160   | 110   |
| 14          | 84           | 41    | 25       | 27      | 30     | 73           | 132   | 184    | 164    | 172    | 160   | 101   |
| 15          | 85           | 38    | 23       | 29      | 31     | 89           | 132   | 178    | 152    | 176    | 158   | 103   |
| 16          | 92           | 40    | 22       | 28      | 30     | 100          | 138   | 176    | 146    | 174    | 160   | 102   |
| 17          | 98           | 39    | 21       | 27      | 30     | 108          | 146   | 178    | 138    | 164    | 156   | 99    |
| 18          | 99           | 36    | 21       | 26      | 29     | 107          | 150   | 184    | 136    | 160    | 152   | 97    |
| 19          | 91           | 38    | 22       | 27      | 30     | 101          | 156   | 210    | 132    | 148    | 146   | 92    |
| 20          | 77           | 35    | 21       | 28      | 30     | 100          | 160   | 218    | 125    | 146    | 142   | 88    |
| 21          | 66           | 35    | 18       | 30      | 32     | 89           | 158   | 222    | 129    | 146    | 140   | 90    |
| 22          | 61           | 37    | 20       | 32      | 32     | 95           | 166   | 216    | 136    | 146    | 142   | 86    |
| 23          | 56           | 37    | 22       | 34      | 34     | 117          | 170   | 204    | 146    | 148    | 148   | 88    |
| 24          | 50           | 36    | 24       | 35      | 31     | 123          | 178   | 186    | 148    | 156    | 160   | 92    |
| 25          | 47           | 36    | 26       | 30      | 31     | 136          | 178   | 170    | 142    | 154    | 174   | 91    |
| 26          | 45           | 36    | 28       | 28      | 35     | 142          | 194   | 164    | 136    | 156    | 184   | 92    |
| 27          | 44           | 34    | 27       | 29      | 34     | 138          | 212   | 156    | 134    | 152    | 184   | 90    |
| 28          | 46           | 35    | 26       | 36      | 35     | 136          | 210   | 166    | 134    | 142    | 188   | 87    |
| 29          | 45           | 35    | 27       | 30      | 36     | 125          | 218   | 168    | 140    | 142    | 198   | 88    |
| 30          | 42           | 36    | 26       | 28      | -----  | 112          | 240   | 178    | 140    | 144    | 198   | 95    |
| 31          | 43           | ----- | 24       | 30      | -----  | 108          | ----- | 190    | -----  | 150    | 182   | ----- |
| TOTAL       | 2,201        | 1,145 | 822      | 794     | 941    | 3,414        | 4,408 | 6,541  | 5,193  | 5,456  | 4,504 | 3,525 |
| MEAN        | 71.0         | 38.2  | 26.5     | 25.6    | 32.4   | 110          | 147   | 211    | 173    | 176    | 145   | 118   |
| MAX         | 99           | 44    | 37       | 36      | 39     | 253          | 240   | 275    | 255    | 242    | 198   | 170   |
| MIN         | 42           | 34    | 18       | 14      | 29     | 34           | 103   | 156    | 125    | 142    | 73    | 86    |
| AC-FT       | 4,370        | 2,270 | 1,630    | 1,570   | 1,870  | 6,770        | 8,740 | 12,970 | 10,300 | 10,820 | 8,930 | 6,990 |
| CAL YR 1971 | TOTAL 48,954 |       | MEAN 134 | MAX 515 | MIN 18 | AC-FT 97,100 |       |        |        |        |       |       |
| WTR YR 1972 | TOTAL 38,944 |       | MEAN 106 | MAX 275 | MIN 14 | AC-FT 77,250 |       |        |        |        |       |       |

## WALKER LAKE BASIN

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 mile north of Sonora Junction, 1.5 miles upstream from mouth, and 14 miles northwest of Bridgeport.

DRAINAGE AREA.--63.0 sq mi.

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 (from topographic map). April to August 1910, nonrecording gage at site 1 mile upstream at different datum.

AVERAGE DISCHARGE.--28 years (1944-72) 50.7 cfs (36,730 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 255 cfs May 31 (gage height, 1.91 ft); minimum, 6.3 cfs Aug. 14.

Period of record: Maximum discharge, 1,510 cfs Jan. 31, 1963 (gage height, 3.22 ft) from rating curve extended above 350 cfs on basis of slope-area measurement at gage height 2.80 ft and logarithmic plotting; maximum gage height recorded, 3.63 ft Jan. 3, 1945, (backwater from ice); minimum discharge recorded, 4.9 cfs 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 23    | 17    | 20    | 14   | 16    | 24    | 24    | 42    | 202   | 67    | 22   | 20    |
| 2     | 22    | 14    | 18    | 14   | 12    | 34    | 26    | 48    | 192   | 64    | 21   | 15    |
| 3     | 22    | 14    | 18    | 16   | 13    | 44    | 27    | 51    | 183   | 61    | 20   | 14    |
| 4     | 21    | 16    | 20    | 10   | 15    | 41    | 28    | 49    | 179   | 57    | 19   | 14    |
| 5     | 21    | 14    | 18    | 14   | 15    | 35    | 33    | 47    | 156   | 53    | 19   | 25    |
| 6     | 20    | 14    | 19    | 18   | 14    | 33    | 32    | 50    | 153   | 51    | 18   | 16    |
| 7     | 20    | 14    | 16    | 21   | 13    | 33    | 29    | 52    | 156   | 48    | 18   | 14    |
| 8     | 19    | 14    | 14    | 18   | 12    | 35    | 26    | 47    | 156   | 45    | 17   | 14    |
| 9     | 19    | 16    | 20    | 14   | 12    | 35    | 25    | 49    | 165   | 42    | 17   | 13    |
| 10    | 19    | 16    | 18    | 16   | 12    | 36    | 24    | 45    | 133   | 41    | 16   | 13    |
| 11    | 19    | 39    | 17    | 16   | 12    | 34    | 26    | 47    | 120   | 39    | 14   | 14    |
| 12    | 19    | 28    | 18    | 18   | 12    | 33    | 27    | 55    | 125   | 38    | 13   | 16    |
| 13    | 18    | 22    | 16    | 16   | 12    | 32    | 28    | 65    | 123   | 35    | 13   | 16    |
| 14    | 18    | 20    | 15    | 15   | 12    | 31    | 30    | 76    | 130   | 33    | 12   | 16    |
| 15    | 18    | 23    | 14    | 14   | 12    | 31    | 32    | 87    | 133   | 31    | 10   | 16    |
| 16    | 18    | 22    | 14    | 12   | 12    | 32    | 31    | 93    | 135   | 31    | 11   | 16    |
| 17    | 19    | 18    | 16    | 12   | 12    | 35    | 28    | 87    | 130   | 29    | 12   | 16    |
| 18    | 20    | 16    | 16    | 15   | 15    | 35    | 28    | 87    | 125   | 29    | 13   | 16    |
| 19    | 20    | 16    | 18    | 15   | 16    | 34    | 26    | 93    | 118   | 28    | 13   | 15    |
| 20    | 20    | 18    | 20    | 14   | 17    | 34    | 25    | 80    | 113   | 27    | 12   | 15    |
| 21    | 19    | 18    | 20    | 14   | 18    | 35    | 25    | 68    | 107   | 28    | 12   | 15    |
| 22    | 18    | 18    | 21    | 14   | 17    | 33    | 26    | 64    | 102   | 27    | 11   | 15    |
| 23    | 17    | 18    | 22    | 14   | 16    | 31    | 27    | 65    | 93    | 26    | 11   | 15    |
| 24    | 18    | 18    | 23    | 12   | 18    | 30    | 29    | 73    | 85    | 26    | 11   | 15    |
| 25    | 18    | 18    | 23    | 20   | 18    | 29    | 27    | 85    | 80    | 26    | 11   | 15    |
| 26    | 18    | 20    | 22    | 18   | 20    | 27    | 28    | 102   | 79    | 25    | 11   | 15    |
| 27    | 18    | 20    | 20    | 16   | 25    | 27    | 31    | 123   | 76    | 24    | 11   | 15    |
| 28    | 16    | 24    | 16    | 20   | 32    | 26    | 35    | 133   | 76    | 22    | 12   | 15    |
| 29    | 15    | 29    | 14    | 17   | 26    | 24    | 37    | 159   | 73    | 23    | 13   | 15    |
| 30    | 16    | 20    | 14    | 12   | ----- | 26    | 38    | 179   | 71    | 27    | 14   | 15    |
| 31    | 19    | ----- | 14    | 14   | ----- | 24    | ----- | 199   | ----- | 25    | 20   | ----- |
| TOTAL | 587   | 574   | 554   | 473  | 456   | 993   | 858   | 2,500 | 3,769 | 1,128 | 447  | 464   |
| MEAN  | 18.9  | 19.1  | 17.9  | 15.3 | 15.7  | 32.0  | 28.6  | 80.6  | 126   | 36.4  | 14.4 | 15.5  |
| MAX   | 23    | 39    | 23    | 21   | 32    | 44    | 38    | 199   | 202   | 67    | 22   | 25    |
| MIN   | 15    | 14    | 14    | 10   | 12    | 24    | 24    | 42    | 71    | 22    | 10   | 13    |
| AC-FT | 1,160 | 1,140 | 1,100 | 938  | 904   | 1,970 | 1,700 | 4,960 | 7,480 | 2,240 | 887  | 920   |

CAL YR 1971 TOTAL 19,314 MEAN 52.9 MAX 264 MIN 12 AC-FT 38,310  
 WTR YR 1972 TOTAL 12,803 MEAN 35.0 MAX 202 MIN 10 AC-FT 25,390

Peak discharge (base, 200 cfs).--May 31 (2200) 255 cfs (1.91 ft).

## WALKER LAKE BASIN

69

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

DRAINAGE AREA.--180 sq mi.

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 above mean sea level, datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft downstream at datum 1.00 ft higher.

AVERAGE DISCHARGE.--34 years, 258 cfs (186,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,620 cfs May 31 (gage height, 4.42 ft); minimum, 24 cfs Oct. 29.  
Period of record: Maximum discharge, 6,220 cfs Nov. 20, 1950 (gage height, 8.10 ft), from rating curve extended above 1,900 cfs on basis of slope-area measurement of peak flow; minimum, 4.0 cfs Nov. 18, 1948, result of freezeup.  
Maximum discharge observed prior to 1938, 5,800 cfs 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 miles 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 1971 TO SEPTEMBER 1972

| DAY   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-----|-----|-----|
| 1     | 54    | 46    | 50    | 46    | 46    | 77     | 148    | 354    | 1,350  | 404    | 86    | 80    |     |     |     |
| 2     | 56    | 42    | 48    | 48    | 49    | 105    | 152    | 419    | 1,230  | 362    | 80    | 62    |     |     |     |
| 3     | 55    | 42    | 44    | 48    | 46    | 153    | 168    | 462    | 1,190  | 336    | 85    | 58    |     |     |     |
| 4     | 53    | 43    | 43    | 36    | 60    | 160    | 190    | 483    | 1,100  | 315    | 82    | 56    |     |     |     |
| 5     | 51    | 42    | 45    | 40    | 60    | 162    | 206    | 477    | 777    | 291    | 78    | 82    |     |     |     |
| 6     | 50    | 40    | 54    | 45    | 54    | 164    | 199    | 502    | 756    | 258    | 76    | 85    |     |     |     |
| 7     | 49    | 41    | 50    | 46    | 52    | 175    | 183    | 491    | 1,030  | 234    | 75    | 68    |     |     |     |
| 8     | 48    | 37    | 47    | 47    | 52    | 194    | 168    | 421    | 1,010  | 210    | 73    | 61    |     |     |     |
| 9     | 47    | 39    | 46    | 48    | 43    | 219    | 161    | 420    | 1,140  | 198    | 73    | 57    |     |     |     |
| 10    | 46    | 39    | 47    | 49    | 38    | 235    | 154    | 395    | 876    | 195    | 70    | 54    |     |     |     |
| 11    | 46    | 37    | 50    | 50    | 37    | 232    | 160    | 459    | 589    | 192    | 65    | 55    |     |     |     |
| 12    | 45    | 35    | 59    | 50    | 44    | 226    | 150    | 544    | 731    | 190    | 63    | 55    |     |     |     |
| 13    | 44    | 33    | 59    | 50    | 41    | 212    | 157    | 646    | 791    | 185    | 62    | 53    |     |     |     |
| 14    | 43    | 49    | 56    | 49    | 45    | 218    | 155    | 734    | 851    | 173    | 61    | 51    |     |     |     |
| 15    | 43    | 56    | 53    | 49    | 44    | 225    | 160    | 824    | 871    | 165    | 59    | 50    |     |     |     |
| 16    | 44    | 55    | 50    | 50    | 40    | 225    | 168    | 834    | 866    | 163    | 60    | 46    |     |     |     |
| 17    | 45    | 54    | 56    | 50    | 39    | 267    | 161    | 772    | 316    | 157    | 58    | 44    |     |     |     |
| 18    | 46    | 54    | 55    | 50    | 42    | 282    | 154    | 689    | 798    | 155    | 59    | 43    |     |     |     |
| 19    | 48    | 54    | 51    | 59    | 51    | 267    | 142    | 660    | 771    | 141    | 59    | 42    |     |     |     |
| 20    | 49    | 52    | 50    | 54    | 56    | 273    | 135    | 494    | 750    | 131    | 55    | 41    |     |     |     |
| 21    | 49    | 46    | 47    | 53    | 59    | 291    | 139    | 393    | 682    | 119    | 54    | 40    |     |     |     |
| 22    | 48    | 49    | 45    | 51    | 57    | 273    | 146    | 356    | 626    | 110    | 52    | 39    |     |     |     |
| 23    | 45    | 43    | 45    | 51    | 57    | 231    | 162    | 400    | 566    | 103    | 50    | 39    |     |     |     |
| 24    | 46    | 48    | 55    | 48    | 54    | 212    | 182    | 538    | 480    | 97     | 48    | 37    |     |     |     |
| 25    | 46    | 46    | 53    | 47    | 62    | 205    | 168    | 674    | 439    | 90     | 47    | 37    |     |     |     |
| 26    | 45    | 49    | 52    | 45    | 68    | 190    | 169    | 853    | 440    | 86     | 47    | 38    |     |     |     |
| 27    | 43    | 53    | 51    | 41    | 73    | 185    | 202    | 1,030  | 447    | 83     | 46    | 38    |     |     |     |
| 28    | 40    | 64    | 52    | 39    | 90    | 169    | 274    | 1,130  | 455    | 80     | 47    | 38    |     |     |     |
| 29    | 43    | 57    | 55    | 38    | 87    | 161    | 306    | 1,260  | 460    | 80     | 52    | 37    |     |     |     |
| 30    | 51    | 56    | 45    | 38    | ----- | 153    | 306    | 1,330  | 440    | 90     | 55    | 37    |     |     |     |
| 31    | 44    | ----- | 45    | 40    | ----- | 154    | -----  | 1,370  | -----  | 95     | 72    | ----- |     |     |     |
| TOTAL | 1,462 | 1,548 | 1,558 | 1,455 | 1,546 | 6,295  | 5,325  | 20,414 | 23,828 | 5,488  | 1,949 | 1,523 |     |     |     |
| MEAN  | 47.2  | 51.6  | 50.3  | 46.9  | 53.3  | 203    | 178    | 659    | 794    | 177    | 62.9  | 50.8  |     |     |     |
| MAX   | 56    | 95    | 59    | 59    | 90    | 291    | 306    | 1,370  | 1,350  | 404    | 86    | 85    |     |     |     |
| MIN   | 40    | 39    | 43    | 36    | 37    | 77     | 135    | 354    | 439    | 80     | 46    | 37    |     |     |     |
| AC-FT | 2,900 | 3,070 | 3,090 | 2,890 | 3,070 | 12,490 | 10,560 | 40,490 | 47,260 | 10,890 | 3,870 | 3,020 |     |     |     |

CAL YR 1971 TOTAL 95,615 MEAN 262 MAX 1,740 MIN 39 AC-FT 189,700  
WTF YR 1972 TOTAL 72,391 MEAN 198 MAX 1,370 MIN 36 AC-FT 143,600

Peak discharge (base, 1,120 cfs).--May 31 (2400) 1,620 cfs (4.42 ft); June 9 (1600) 1,190 cfs (3.86 ft).



## WALKER LAKE BASIN

10296500 West Walker River near Coleville, Calif.

LOCATION.--Lat 38°30'55", long 119°27'15", in NW 1/4 sec. 28, T.8 N., R.23 E., Mono County, on left bank 0.2 mile downstream from Rock Creek and 5 miles southeast of Coleville.

DRAINAGE AREA.--271 sq mi.

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 (from topographic map). Prior to July 31, 1908, nonrecording gage at site 0.5 mile upstream at different datum. Mar. 1, 1909, to Aug. 31, 1910, nonrecording gage, and June 18, 1915, to Aug. 15, 1919, water-stage recorder near present site at different datums. Aug. 16, 1919, to Mar. 31, 1938, water-stage recorder at site 1,000 ft upstream at different datum. May 26, 1957, to Sept. 10, 1963, water-stage recorder at site 10 ft downstream at datum 0.38 ft lower.

AVERAGE DISCHARGE.--43 years (1902-7, 1909-10, 1915-37, 1957-72), 273 cfs (197,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,650 cfs June 1 (gage height, 3.16 ft); minimum, 38 cfs Dec. 8, but may have been less during periods of ice effect.

Period of record: Maximum discharge, 6,500 cfs Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 cfs 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 miles 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 72    | 59    | 63    | 50    | 64    | 86     | 161    | 352    | 1,430  | 458    | 95    | 99    |
| 2     | 74    | 60    | 61    | 50    | 76    | 106    | 162    | 402    | 1,280  | 420    | 85    | 90    |
| 3     | 74    | 58    | 60    | 50    | 62    | 143    | 177    | 447    | 1,240  | 399    | 93    | 73    |
| 4     | 72    | 60    | 64    | 40    | 63    | 162    | 193    | 458    | 1,150  | 372    | 90    | 70    |
| 5     | 71    | 57    | 67    | 45    | 60    | 164    | 214    | 463    | 1,020  | 348    | 85    | 93    |
| 6     | 69    | 56    | 66    | 47    | 59    | 166    | 206    | 484    | 976    | 309    | 93    | 107   |
| 7     | 67    | 56    | 57    | 48    | 58    | 175    | 199    | 490    | 1,060  | 277    | 80    | 85    |
| 8     | 64    | 55    | 54    | 48    | 56    | 192    | 180    | 437    | 1,050  | 256    | 78    | 79    |
| 9     | 64    | 55    | 53    | 49    | 54    | 212    | 175    | 437    | 1,150  | 238    | 78    | 73    |
| 10    | 63    | 55    | 52    | 50    | 50    | 226    | 168    | 402    | 928    | 238    | 80    | 66    |
| 11    | 61    | 83    | 55    | 50    | 53    | 228    | 175    | 452    | 720    | 226    | 75    | 66    |
| 12    | 61    | 114   | 56    | 50    | 56    | 228    | 160    | 512    | 746    | 226    | 70    | 68    |
| 13    | 61    | 81    | 57    | 50    | 57    | 222    | 171    | 613    | 805    | 218    | 68    | 66    |
| 14    | 60    | 63    | 59    | 50    | 56    | 220    | 166    | 697    | 864    | 210    | 70    | 66    |
| 15    | 60    | 60    | 64    | 50    | 54    | 223    | 173    | 814    | 878    | 198    | 68    | 63    |
| 16    | 61    | 60    | 60    | 50    | 52    | 228    | 184    | 820    | 878    | 194    | 68    | 61    |
| 17    | 61    | 62    | 58    | 50    | 50    | 253    | 174    | 775    | 831    | 187    | 68    | 57    |
| 18    | 63    | 66    | 57    | 50    | 56    | 293    | 170    | 677    | 824    | 183    | 68    | 55    |
| 19    | 63    | 66    | 58    | 50    | 67    | 270    | 158    | 671    | 798    | 172    | 70    | 52    |
| 20    | 64    | 67    | 53    | 50    | 71    | 276    | 150    | 512    | 779    | 157    | 63    | 52    |
| 21    | 63    | 63    | 57    | 50    | 72    | 295    | 152    | 412    | 714    | 144    | 61    | 52    |
| 22    | 63    | 61    | 56    | 52    | 74    | 282    | 159    | 370    | 649    | 131    | 59    | 50    |
| 23    | 61    | 60    | 57    | 62    | 71    | 245    | 172    | 393    | 601    | 121    | 57    | 48    |
| 24    | 61    | 60    | 55    | 53    | 66    | 228    | 191    | 495    | 524    | 115    | 55    | 48    |
| 25    | 61    | 58    | 55    | 50    | 75    | 219    | 180    | 601    | 480    | 107    | 52    | 49    |
| 26    | 60    | 60    | 58    | 49    | 79    | 205    | 182    | 789    | 475    | 101    | 55    | 48    |
| 27    | 61    | 64    | 57    | 49    | 83    | 197    | 202    | 960    | 480    | 95     | 55    | 48    |
| 28    | 57    | 72    | 53    | 49    | 96    | 183    | 266    | 1,080  | 486    | 88     | 55    | 48    |
| 29    | 57    | 69    | 51    | 49    | 101   | 176    | 305    | 1,220  | 497    | 88     | 63    | 46    |
| 30    | 63    | 67    | 50    | 50    | ----- | 167    | 305    | 1,340  | 480    | 98     | 63    | 46    |
| 31    | 63    | ----- | 50    | 58    | ----- | 168    | -----  | 1,420  | -----  | 107    | 80    | ----- |
| TOTAL | 1,975 | 1,926 | 1,778 | 1,549 | 1,891 | 6,428  | 5,630  | 20,004 | 24,793 | 6,481  | 2,190 | 1,911 |
| MEAN  | 63.7  | 64.2  | 57.4  | 49.9  | 65.2  | 207    | 188    | 645    | 826    | 209    | 70.6  | 63.7  |
| MAX   | 74    | 114   | 67    | 62    | 101   | 295    | 305    | 1,420  | 1,430  | 458    | 95    | 107   |
| MIN   | 57    | 55    | 50    | 40    | 50    | 86     | 150    | 352    | 475    | 88     | 52    | 46    |
| AC-FT | 3,920 | 3,820 | 3,530 | 3,070 | 3,750 | 12,750 | 11,170 | 39,680 | 49,180 | 12,860 | 4,340 | 3,790 |

CAL YR 1971 TOTAL 97,173 MEAN 266 MAX 1,650 MIN 50 AC-FT 192,700  
 WTR YR 1972 TOTAL 76,555 MEAN 209 MAX 1,430 MIN 40 AC-FT 151,800

Peak discharge (base, 1,120 cfs).--June 1 (0400) 1,650 cfs (3.16 ft); June 9 (1800) 1,200 cfs (2.66 ft).



## WALKER LAKE BASIN

71

10297000 Topaz Lake near Topaz, Calif.

LOCATION.--Lat 38°41'35", long 119°31'10", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.33, T.10 N., R.22 E., Douglas County, at outlet works of Topaz Lake on West Walker River, 5.5 miles 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, 58,320 acre-ft June 22 (elevation 5,004.51 ft); minimum, 9,520 acre-ft Sept. 30 (elevation, 4,978.38 ft).

Period of record: Maximum contents, 60,240 acre-ft June 30, 1941 (elevation 5,005.35 ft); 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 between elevations 4,972.3 (lowest practical elevation for diversion through tunnel, bottom of outlet tunnel at elevation 4,970 ft) and 5,005 ft (3 ft below top of levee). Usable capacity of reservoir increased from about 45,000 to 59,440 acre-ft 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 of lake volume below the point of controllable storage). In 1971 a bathymetric survey by Geological Survey provided figures of contents so near those of Table No. 1, dated 8-27-40, that it will be continued in use. 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 | 5,005 | 59,440 |
| 4,990 | 28,970 |       |        |

## CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1           | 21,020   | 20,730   | 25,670   | 31,120   | 36,880   | 42,180   | 49,550   | 39,730   | 45,050   | 55,740   | 31,170   | 14,050   |
| 2           | 21,000   | 20,850   | 25,840   | 31,320   | 37,000   | 42,350   | 49,250   | 39,410   | 46,390   | 55,130   | 30,710   | 13,740   |
| 3           | 21,020   | 20,970   | 25,980   | 31,510   | 37,170   | 42,590   | 48,860   | 39,210   | 47,490   | 54,530   | 30,250   | 13,450   |
| 4           | 21,030   | 21,080   | 26,100   | 31,530   | 37,320   | 42,960   | 48,430   | 39,050   | 48,560   | 53,800   | 29,760   | 13,140   |
| 5           | 21,070   | 21,200   | 26,240   | 31,760   | 37,480   | 43,330   | 47,070   | 38,980   | 49,440   | 53,090   | 29,290   | 12,910   |
| 6           | 21,080   | 21,320   | 26,450   | 31,850   | 37,650   | 43,700   | 47,860   | 38,720   | 50,110   | 52,140   | 28,800   | 12,700   |
| 7           | 21,100   | 21,440   | 26,540   | 32,050   | 37,880   | 44,070   | 47,600   | 38,520   | 50,830   | 51,180   | 28,320   | 12,520   |
| 8           | 21,080   | 21,580   | 26,620   | 32,330   | 38,060   | 44,450   | 47,320   | 38,230   | 51,680   | 50,240   | 27,800   | 12,330   |
| 9           | 21,070   | 21,740   | 26,800   | 32,480   | 38,190   | 44,860   | 47,030   | 37,730   | 52,580   | 49,310   | 27,280   | 12,210   |
| 10          | 21,030   | 21,830   | 26,880   | 32,680   | 38,390   | 45,320   | 46,710   | 37,280   | 53,750   | 48,240   | 26,740   | 12,100   |
| 11          | 21,000   | 22,030   | 27,000   | 32,840   | 38,580   | 45,760   | 46,220   | 36,790   | 54,400   | 47,280   | 26,160   | 11,950   |
| 12          | 20,970   | 22,340   | 27,140   | 33,000   | 38,740   | 46,220   | 45,950   | 36,540   | 54,910   | 46,390   | 25,540   | 11,840   |
| 13          | 20,920   | 22,590   | 27,280   | 33,180   | 38,940   | 46,560   | 45,620   | 36,500   | 55,360   | 45,530   | 24,900   | 11,730   |
| 14          | 20,830   | 22,830   | 27,370   | 33,330   | 39,110   | 46,960   | 45,280   | 36,730   | 55,920   | 44,760   | 24,350   | 11,610   |
| 15          | 20,710   | 22,980   | 27,540   | 33,510   | 39,290   | 47,280   | 45,010   | 37,130   | 56,440   | 43,930   | 23,670   | 11,480   |
| 16          | 20,590   | 23,170   | 27,660   | 33,630   | 39,470   | 47,540   | 44,590   | 37,610   | 56,910   | 43,150   | 22,900   | 11,320   |
| 17          | 20,480   | 23,340   | 27,780   | 33,800   | 39,670   | 47,790   | 44,410   | 38,100   | 57,270   | 42,240   | 22,150   | 11,130   |
| 18          | 20,360   | 23,500   | 27,920   | 33,960   | 39,850   | 48,090   | 44,090   | 38,310   | 57,540   | 41,310   | 21,440   | 10,930   |
| 19          | 20,280   | 23,650   | 28,060   | 34,160   | 40,030   | 48,450   | 43,760   | 38,430   | 57,790   | 40,320   | 20,730   | 10,730   |
| 20          | 20,260   | 23,790   | 28,180   | 34,340   | 40,200   | 48,770   | 43,450   | 38,780   | 58,020   | 39,330   | 20,120   | 10,560   |
| 21          | 20,260   | 23,960   | 28,320   | 34,540   | 40,380   | 49,140   | 43,150   | 39,030   | 58,230   | 38,350   | 19,550   | 10,440   |
| 22          | 20,280   | 24,090   | 28,570   | 34,870   | 40,670   | 49,480   | 42,840   | 38,940   | 58,320   | 37,420   | 18,930   | 10,310   |
| 23          | 20,280   | 24,260   | 29,180   | 35,280   | 40,790   | 49,680   | 42,490   | 38,720   | 58,270   | 36,600   | 18,380   | 10,160   |
| 24          | 20,280   | 24,420   | 29,440   | 35,520   | 40,870   | 49,850   | 42,140   | 38,540   | 58,110   | 35,860   | 17,750   | 10,070   |
| 25          | 20,280   | 24,590   | 29,810   | 35,670   | 41,110   | 49,980   | 41,820   | 38,560   | 57,890   | 35,210   | 17,250   | 9,950    |
| 26          | 20,340   | 24,730   | 30,110   | 35,860   | 41,270   | 49,940   | 41,470   | 38,840   | 57,640   | 34,540   | 16,690   | 9,890    |
| 27          | 20,310   | 24,900   | 30,340   | 36,030   | 41,470   | 49,960   | 41,110   | 39,470   | 57,390   | 33,920   | 16,140   | 9,820    |
| 28          | 20,390   | 25,090   | 30,480   | 36,220   | 41,680   | 49,920   | 40,670   | 40,320   | 57,050   | 33,330   | 15,700   | 9,740    |
| 29          | 20,460   | 25,330   | 30,640   | 36,370   | 41,880   | 49,850   | 40,420   | 41,270   | 56,770   | 32,750   | 15,320   | 9,630    |
| 30          | 20,530   | 25,470   | 30,820   | 36,520   | -----    | 49,810   | 40,080   | 42,350   | 56,320   | 32,240   | 14,920   | 9,520    |
| 31          | 20,580   | -----    | 30,940   | 36,690   | -----    | 49,700   | -----    | 43,600   | -----    | 31,710   | 14,300   | -----    |
| MAX         | 21,100   | 25,470   | 30,940   | 36,690   | 41,880   | 49,980   | 49,550   | 43,600   | 58,320   | 55,740   | 31,170   | 14,050   |
| MIN         | 20,260   | 20,730   | 25,670   | 31,120   | 36,880   | 42,180   | 40,080   | 36,500   | 45,050   | 31,710   | 14,300   | 9,520    |
| (+)         | 4,985.11 | 4,987.98 | 4,991.12 | 4,994.27 | 4,996.90 | 5,000.63 | 4,996.01 | 4,997.74 | 5,003.63 | 4,991.55 | 4,981.33 | 4,978.38 |
| (+)         | -470     | +4,890   | +5,470   | +5,750   | +5,190   | +7,820   | -9,620   | +3,520   | +12,720  | -24,610  | -17,410  | -4,780   |
| CAL YR 1971 | MAX      | 30,940   | MIN      | 17,760   | #        | +650     |          |          |          |          |          |          |
| WTR YR 1972 | MAX      | 58,320   | MIN      | 9,520    | #        | -11,530  |          |          |          |          |          |          |

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

(+) CHANGE IN CONTENTS, IN ACRE-FEET.

LOCATION.--Lat 38°43'40", long 119°25'40", in NE<sub>4</sub>SE<sub>4</sub> sec.17, T.10 N., R.23 E., Douglas County, on left bank 20 ft upstream from Hoyer Bridge, 2 miles upstream from head of Saroni Canal, and 4 miles southwest of Wellington.

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.

AVERAGE DISCHARGE.--25 years (1920-23, 1925-32, 1957-72), 231 cfs (167,400 acre-ft per year), unadjusted.

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 above station. Records include releases from Topaz Lake and all return flow from Antelope Valley.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN    | JUL     | AUG    | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|---------|--------|-------|
| 1           | 75    | 35     | 30    | 27    | 29    | 28    | 203    | 400    | 518    | 583     | 273    | 185   |
| 2           | 75    | 33     | 30    | 26    | 27    | 27    | 276    | 425    | 565    | 543     | 248    | 171   |
| 3           | 65    | 33     | 30    | 26    | 28    | 27    | 292    | 447    | 553    | 535     | 273    | 168   |
| 4           | 65    | 33     | 30    | 25    | 29    | 27    | 283    | 469    | 556    | 546     | 267    | 165   |
| 5           | 61    | 33     | 30    | 25    | 31    | 27    | 269    | 488    | 553    | 604     | 265    | 164   |
| 6           | 72    | 32     | 30    | 25    | 30    | 27    | 269    | 508    | 545    | 628     | 273    | 147   |
| 7           | 82    | 32     | 30    | 25    | 31    | 28    | 269    | 500    | 550    | 574     | 284    | 130   |
| 8           | 83    | 32     | 28    | 25    | 31    | 28    | 269    | 525    | 523    | 538     | 271    | 114   |
| 9           | 92    | 30     | 30    | 24    | 31    | 28    | 269    | 543    | 464    | 559     | 292    | 95    |
| 10          | 93    | 30     | 30    | 25    | 31    | 28    | 271    | 550    | 420    | 545     | 310    | 89    |
| 11          | 90    | 31     | 31    | 25    | 31    | 28    | 278    | 515    | 392    | 505     | 308    | 84    |
| 12          | 92    | 31     | 29    | 25    | 31    | 28    | 282    | 488    | 387    | 500     | 304    | 81    |
| 13          | 99    | 31     | 32    | 25    | 31    | 28    | 269    | 471    | 387    | 469     | 302    | 84    |
| 14          | 108   | 31     | 31    | 25    | 31    | 32    | 259    | 471    | 394    | 464     | 306    | 101   |
| 15          | 115   | 31     | 28    | 26    | 30    | 66    | 257    | 478    | 452    | 462     | 351    | 101   |
| 16          | 119   | 31     | 26    | 28    | 29    | 71    | 252    | 486    | 483    | 459     | 385    | 107   |
| 17          | 120   | 31     | 26    | 29    | 28    | 70    | 254    | 510    | 486    | 471     | 379    | 120   |
| 18          | 116   | 31     | 26    | 32    | 28    | 69    | 250    | 535    | 481    | 505     | 360    | 119   |
| 19          | 98    | 31     | 26    | 34    | 28    | 72    | 240    | 540    | 483    | 485     | 341    | 115   |
| 20          | 89    | 31     | 26    | 35    | 28    | 72    | 239    | 498    | 486    | 478     | 326    | 104   |
| 21          | 67    | 31     | 27    | 36    | 28    | 75    | 239    | 452    | 486    | 474     | 320    | 103   |
| 22          | 66    | 31     | 30    | 43    | 28    | 92    | 240    | 450    | 486    | 443     | 312    | 101   |
| 23          | 83    | 31     | 44    | 53    | 27    | 98    | 246    | 443    | 505    | 414     | 210    | 99    |
| 24          | 85    | 31     | 38    | 45    | 27    | 109   | 250    | 441    | 486    | 372     | 302    | 85    |
| 25          | 82    | 31     | 38    | 32    | 28    | 112   | 265    | 441    | 478    | 347     | 282    | 78    |
| 26          | 68    | 31     | 34    | 30    | 27    | 136   | 280    | 431    | 464    | 354     | 282    | 65    |
| 27          | 67    | 31     | 36    | 29    | 27    | 140   | 288    | 469    | 452    | 337     | 267    | 64    |
| 28          | 63    | 31     | 32    | 29    | 27    | 173   | 308    | 518    | 486    | 328     | 224    | 82    |
| 29          | 54    | 30     | 31    | 29    | 27    | 167   | 330    | 553    | 500    | 314     | 211    | 98    |
| 30          | 46    | 30     | 30    | 29    | ----- | 156   | 383    | 583    | 543    | 304     | 204    | 97    |
| 31          | 45    | -----  | 28    | 29    | ----- | 177   | -----  | 540    | -----  | 302     | 190    | ----- |
| TOTAL       | 2,535 | 941    | 947   | 921   | 839   | 2,246 | 8,084  | 15,168 | 14,564 | 14,483  | 9,022  | 3,316 |
| MEAN        | 81.8  | 31.4   | 30.5  | 29.7  | 28.9  | 72.5  | 269    | 489    | 485    | 467     | 291    | 111   |
| MAX         | 120   | 35     | 44    | 53    | 31    | 177   | 383    | 583    | 565    | 628     | 385    | 185   |
| MIN         | 45    | 30     | 26    | 24    | 27    | 27    | 203    | 400    | 387    | 302     | 190    | 64    |
| AC-FT       | 5,030 | 1,870  | 1,880 | 1,830 | 1,660 | 4,450 | 16,030 | 30,090 | 28,890 | 28,730  | 17,900 | 6,580 |
| CAL YR 1971 | TOTAL | 93,801 | MEAN  | 257   | MAX   | 1,400 | MIN    | 25     | AC-FT  | 186,100 |        |       |
| WTR YR 1972 | TOTAL | 73,066 | MEAN  | 200   | MAX   | 628   | MIN    | 24     | AC-FT  | 144,900 |        |       |

## WALKER LAKE BASIN

73

10300000 West Walker River near Hudson, Nev.

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, on left bank 0.5 mile upstream from Wilson Canyon and 3 miles southeast of Hudson.

DRAINAGE AREA.--964 sq mi.

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 (from topographic map). Prior to May 1921, nonrecording gage at site 2.5 miles upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

AVERAGE DISCHARGE.--35 years (1914-24, 1947-72), 193 cfs (139,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 444 cfs May 30 (gage height, 2.28 ft); minimum daily, 40 cfs Jan. 4.

Period of record: Maximum discharge, 2,700 cfs Dec. 24, 1955 (gage height, 7.42 ft, from floodmarks); minimum, 3.8 cfs 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1     | 85    | 67    | 52    | 43    | 45    | 57    | 130    | 268    | 356    | 344    | 196   | 100   |
| 2     | 83    | 62    | 51    | 42    | 43    | 57    | 182    | 244    | 396    | 311    | 175   | 96    |
| 3     | 83    | 57    | 51    | 45    | 47    | 57    | 220    | 272    | 356    | 316    | 192   | 94    |
| 4     | 77    | 59    | 51    | 40    | 51    | 57    | 212    | 304    | 368    | 360    | 186   | 91    |
| 5     | 75    | 57    | 51    | 42    | 54    | 57    | 193    | 304    | 360    | 353    | 181   | 96    |
| 6     | 66    | 57    | 51    | 42    | 52    | 57    | 201    | 300    | 388    | 363    | 185   | 86    |
| 7     | 69    | 55    | 50    | 42    | 51    | 55    | 201    | 284    | 404    | 330    | 186   | 77    |
| 8     | 69    | 54    | 47    | 42    | 51    | 57    | 193    | 292    | 408    | 298    | 160   | 65    |
| 9     | 73    | 54    | 47    | 42    | 51    | 55    | 201    | 316    | 392    | 306    | 169   | 58    |
| 10    | 75    | 54    | 49    | 43    | 51    | 54    | 212    | 336    | 340    | 320    | 173   | 59    |
| 11    | 73    | 55    | 48    | 46    | 51    | 55    | 224    | 324    | 316    | 304    | 156   | 60    |
| 12    | 69    | 59    | 51    | 46    | 51    | 57    | 232    | 308    | 296    | 264    | 134   | 54    |
| 13    | 69    | 55    | 48    | 46    | 49    | 59    | 240    | 308    | 276    | 258    | 132   | 52    |
| 14    | 73    | 55    | 47    | 48    | 52    | 49    | 240    | 308    | 252    | 246    | 137   | 51    |
| 15    | 79    | 54    | 47    | 49    | 52    | 45    | 252    | 324    | 240    | 248    | 166   | 54    |
| 16    | 83    | 55    | 47    | 46    | 51    | 57    | 256    | 324    | 244    | 255    | 186   | 57    |
| 17    | 85    | 55    | 47    | 46    | 49    | 55    | 240    | 324    | 268    | 251    | 196   | 66    |
| 18    | 87    | 55    | 47    | 49    | 49    | 55    | 223    | 348    | 276    | 256    | 191   | 80    |
| 19    | 97    | 57    | 47    | 49    | 49    | 52    | 212    | 340    | 284    | 241    | 172   | 85    |
| 20    | 95    | 57    | 47    | 49    | 48    | 52    | 204    | 384    | 300    | 234    | 166   | 84    |
| 21    | 69    | 55    | 48    | 51    | 49    | 54    | 201    | 348    | 300    | 235    | 156   | 84    |
| 22    | 66    | 55    | 67    | 52    | 54    | 59    | 201    | 336    | 306    | 232    | 147   | 84    |
| 23    | 66    | 55    | 79    | 57    | 55    | 64    | 197    | 324    | 326    | 234    | 149   | 86    |
| 24    | 64    | 55    | 67    | 54    | 55    | 69    | 201    | 312    | 312    | 214    | 144   | 82    |
| 25    | 66    | 54    | 62    | 51    | 55    | 75    | 212    | 300    | 319    | 189    | 126   | 79    |
| 26    | 69    | 55    | 61    | 48    | 55    | 75    | 216    | 300    | 323    | 203    | 121   | 76    |
| 27    | 69    | 54    | 59    | 46    | 57    | 94    | 212    | 300    | 309    | 200    | 118   | 67    |
| 28    | 73    | 54    | 55    | 46    | 55    | 111   | 236    | 336    | 316    | 193    | 101   | 71    |
| 29    | 73    | 54    | 49    | 45    | 57    | 127   | 208    | 380    | 307    | 193    | 87    | 78    |
| 30    | 73    | 52    | 45    | 45    | ----- | 121   | 244    | 412    | 330    | 199    | 94    | 80    |
| 31    | 73    | ----- | 44    | 45    | ----- | 121   | -----  | 384    | -----  | 210    | 102   | ----- |
| TOTAL | 2,308 | 1,676 | 1,612 | 1,436 | 1,489 | 2,069 | 6,401  | 10,004 | 9,668  | 9,160  | 4,783 | 2,252 |
| MEAN  | 74.5  | 55.9  | 52.0  | 46.3  | 51.3  | 66.7  | 213    | 323    | 322    | 263    | 154   | 75.1  |
| MAX   | 87    | 67    | 79    | 57    | 57    | 127   | 256    | 412    | 408    | 363    | 196   | 100   |
| MIN   | 64    | 52    | 44    | 40    | 43    | 45    | 130    | 268    | 240    | 189    | 87    | 51    |
| AC-FT | 4,580 | 3,320 | 3,200 | 2,850 | 2,950 | 4,100 | 12,700 | 19,840 | 19,180 | 16,190 | 9,490 | 4,470 |

CAL YR 1971 TOTAL 67,950 MEAN 186 MAX 1,290 MIN 35 AC-FT 134,800  
WTR YR 1972 TOTAL 51,858 MEAN 142 MAX 412 MIN 40 AC-FT 102,900

LOCATION.--Lat 39°09'10", long 119°05'50", in SE $\frac{1}{4}$  NW $\frac{1}{4}$  sec.20, T.15 N., R.26 E., Lyon County, on left bank 600 ft upstream from timber bridge at Julian Ranch, 1.8 miles downstream from Southern Pacific Railroad bridge, 4.6 miles east of Wabaska, and 16 miles 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.--47 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-72), 158 cfs (114,500 acre-ft per year).

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir (combined capacity, 101,900 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

|             |              |           |           |        |               |
|-------------|--------------|-----------|-----------|--------|---------------|
| CAL YR 1971 | TOTAL 9C,994 | MEAN 249  | MAX 1,010 | MIN 29 | AC-FT 180,500 |
| WTR YR 1972 | TOTAL 32,250 | MEAN 88.1 | MAX 287   | MIN 15 | AC-FT 63,970  |

## WALKER LAKE BASIN

75

10302010 Reese River Canyon near Schurz, Nev.

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

DRAINAGE AREA.--14 sq mi, 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 (from topographic map). October 1962 to September 1966, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--6 years, 0.014 cfs (10 acre-feet per year).

EXTREMES.--Current year: Maximum discharge, 50 cfs Sept. 19 (gage height, 4.43 ft); no flow most of the year.  
Period of record: Maximum discharge, 1,870 cfs July 31, 1965 (gage height, 9.25 ft, 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 1971 TO SEPTEMBER 1972

| DAY         | OCT        | NOV   | DEC | JAN       | FEB     | MAR   | APR       | MAY | JUN   | JUL | AUG | SEP  |
|-------------|------------|-------|-----|-----------|---------|-------|-----------|-----|-------|-----|-----|------|
| 1           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 2           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 3           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 4           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 5           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 6           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 7           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 8           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 9           |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 10          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 11          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 12          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 13          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 14          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 15          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 16          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 17          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 18          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 19          |            |       |     | 0         |         |       |           |     |       |     |     | 2.1  |
| 20          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 21          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 22          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 23          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 24          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 25          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 26          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 27          |            |       |     | 1.6       |         |       |           |     |       |     |     | 0    |
| 28          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 29          |            |       |     | 0         |         |       |           |     |       |     |     | 0    |
| 30          |            |       |     | 0         | -----   |       |           |     |       |     |     | 0    |
| 31          |            | ----- |     | 0         | -----   |       |           |     | ----- |     |     | 0    |
| TOTAL       | 0          | 0     | 0   | 1.6       | 0       | 0     | 0         | 0   | 0     | 0   | 0   | 2.1  |
| MEAN        | 0          | 0     | 0   | .052      | 0       | 0     | 0         | 0   | 0     | 0   | 0   | .070 |
| MAX         | 0          | 0     | 0   | 1.6       | 0       | 0     | 0         | 0   | 0     | 0   | 0   | 2.1  |
| MIN         | 0          | 0     | 0   | 0         | 0       | 0     | 0         | 0   | 0     | 0   | 0   | 0    |
| AC-FT       | 0          | 0     | 0   | 3.2       | 0       | 0     | 0         | 0   | 0     | 0   | 0   | 4.2  |
| CAL YR 1971 | TOTAL 3.70 |       |     | MEAN .010 | MAX 2.1 | MIN 0 | AC-FT 7.3 |     |       |     |     |      |
| WTR YR 1972 | TOTAL 3.70 |       |     | MEAN .010 | MAX 2.1 | MIN 0 | AC-FT 7.3 |     |       |     |     |      |

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



## CARSON RIVER BASIN

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 mile downstream from Markleeville Creek and 1.5 miles north-northeast of Markleeville.

DRAINAGE AREA.--276 sq mi.

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

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

AVERAGE DISCHARGE.--12 years, 363 cfs (263,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs May 31 (gage height, 4.86 ft); minimum, 34 cfs Sept. 23.

Period of record: Maximum discharge, 15,100 cfs Jan. 31, 1963 (gage height, 10.21 ft, present datum); minimum, 16 cfs 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). Water-quality records for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 91    | 70    | 99    | 85    | 100   | 207    | 261    | 635    | 1,460  | 316    | 101   | 116   |
| 2     | 94    | 77    | 93    | 95    | 85    | 261    | 274    | 736    | 1,300  | 292    | 87    | 88    |
| 3     | 99    | 77    | 93    | 85    | 90    | 429    | 316    | 918    | 1,200  | 274    | 86    | 72    |
| 4     | 93    | 77    | 101   | 80    | 100   | 451    | 355    | 373    | 1,190  | 256    | 83    | 70    |
| 5     | 89    | 75    | 99    | 85    | 110   | 424    | 446    | 965    | 1,100  | 235    | 84    | 80    |
| 6     | 85    | 70    | 104   | 90    | 110   | 413    | 402    | 956    | 1,050  | 215    | 90    | 73    |
| 7     | 88    | 72    | 82    | 95    | 110   | 407    | 350    | 897    | 1,080  | 199    | 107   | 65    |
| 8     | 84    | 67    | 80    | 90    | 110   | 440    | 330    | 780    | 1,040  | 199    | 106   | 60    |
| 9     | 88    | 70    | 95    | 90    | 110   | 479    | 316    | 765    | 1,130  | 189    | 104   | 55    |
| 10    | 85    | 70    | 100   | 85    | 110   | 484    | 305    | 729    | 889    | 189    | 101   | 52    |
| 11    | 85    | 249   | 91    | 90    | 112   | 468    | 330    | 773    | 729    | 178    | 76    | 57    |
| 12    | 95    | 265   | 105   | 95    | 114   | 451    | 306    | 841    | 709    | 185    | 77    | 71    |
| 13    | 82    | 134   | 90    | 90    | 116   | 435    | 301    | 931    | 715    | 173    | 92    | 71    |
| 14    | 82    | 88    | 95    | 90    | 122   | 446    | 301    | 1,050  | 729    | 167    | 90    | 69    |
| 15    | 82    | 64    | 100   | 95    | 122   | 429    | 321    | 1,170  | 722    | 164    | 90    | 68    |
| 16    | 82    | 93    | 125   | 90    | 119   | 440    | 355    | 1,160  | 701    | 192    | 93    | 67    |
| 17    | 85    | 92    | 147   | 100   | 125   | 501    | 345    | 1,050  | 667    | 181    | 95    | 66    |
| 18    | 88    | 88    | 164   | 120   | 134   | 531    | 330    | 914    | 648    | 160    | 97    | 65    |
| 19    | 84    | 90    | 157   | 130   | 144   | 495    | 301    | 881    | 622    | 151    | 100   | 65    |
| 20    | 85    | 90    | 151   | 140   | 154   | 513    | 292    | 708    | 597    | 151    | 82    | 65    |
| 21    | 85    | 91    | 144   | 160   | 171   | 555    | 311    | 597    | 567    | 151    | 77    | 59    |
| 22    | 82    | 98    | 479   | 160   | 185   | 543    | 350    | 567    | 531    | 144    | 78    | 47    |
| 23    | 82    | 85    | 301   | 141   | 160   | 440    | 391    | 615    | 495    | 137    | 73    | 44    |
| 24    | 82    | 88    | 178   | 104   | 141   | 391    | 429    | 708    | 451    | 134    | 71    | 49    |
| 25    | 82    | 82    | 128   | 100   | 151   | 391    | 370    | 803    | 418    | 134    | 65    | 49    |
| 26    | 82    | 33    | 122   | 95    | 171   | 355    | 365    | 939    | 402    | 131    | 53    | 52    |
| 27    | 85    | 129   | 115   | 90    | 185   | 330    | 424    | 1,110  | 385    | 125    | 54    | 56    |
| 28    | 70    | 141   | 110   | 95    | 235   | 301    | 543    | 1,220  | 375    | 125    | 56    | 54    |
| 29    | 60    | 113   | 105   | 90    | 269   | 287    | 591    | 1,310  | 360    | 119    | 69    | 51    |
| 30    | 75    | 113   | 100   | 85    | ----- | 274    | 579    | 1,410  | 335    | 119    | 71    | 52    |
| 31    | 80    | ----- | 90    | 110   | ----- | 274    | -----  | 1,470  | -----  | 116    | 108   | ----- |
| TOTAL | 2,613 | 3,020 | 4,043 | 3,140 | 3,965 | 12,845 | 10,891 | 28,421 | 22,596 | 5,506  | 2,615 | 1,908 |
| MEAN  | 84.3  | 101   | 130   | 101   | 127   | 414    | 363    | 917    | 753    | 178    | 84.4  | 63.6  |
| MAX   | 99    | 265   | 479   | 160   | 269   | 555    | 591    | 1,470  | 1,460  | 316    | 108   | 116   |
| MIN   | 60    | 67    | 80    | 80    | 85    | 207    | 261    | 567    | 335    | 116    | 53    | 44    |
| AC-FT | 5,180 | 5,990 | 8,020 | 6,230 | 7,860 | 25,480 | 21,600 | 56,370 | 44,820 | 10,920 | 5,190 | 3,780 |

CAL YR 1971 TOTAL 136,162 MEAN 373 MAX 1,820 MIN 50 AC-FT 270,100  
 WTR YR 1972 TOTAL 101,563 MEAN 277 MAX 1,470 MIN 44 AC-FT 201,500

Peak discharge (base, 1,300 cfs).--May 14 (2400) 1,450 cfs (4.57 ft); May 31 (2400) 1,770 cfs (4.86 ft).



## CARSON RIVER BASIN

77

10309000 East Fork Carson River near Gardnerville, Nev.

LOCATION.--Lat 38°50'50", long 119°42'10", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.2, T.11 N., R.20 E., Douglas County, on left bank 0.1 mile downstream from Horseshoe Bend, 2 miles east of Mud Lake Reservoir, 4.5 miles downstream from Bryant Creek, and 7 miles southeast of Gardnerville.

DRAINAGE AREA.--341 sq mi.

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 above mean sea level (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 miles of present site at various datums.

AVERAGE DISCHARGE.--46 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-72), 390 cfs (282,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,520 cfs June 1 (gage-height, 3.45 ft); minimum, 51 cfs Sept. 23.

Period of record: Maximum discharge 17,600 cfs Dec. 23, 1955 (gage height, 11.88 ft), from rating curve extended above 6,000 cfs on basis of slope-area measurements at gage heights 9.66 and 11.88 ft; minimum observed, 8 cfs 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). Water temperatures through Sept. 24 are published in Part 2 of this report.

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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 109   | 93    | 124   | 100   | 90    | 219    | 268    | 676    | 1,330  | 300    | 111   | 134   |
| 2     | 106   | 92    | 116   | 105   | 85    | 256    | 276    | 731    | 1,230  | 280    | 95    | 95    |
| 3     | 106   | 90    | 109   | 90    | 90    | 430    | 312    | 822    | 1,170  | 260    | 90    | 81    |
| 4     | 106   | 92    | 125   | 80    | 100   | 490    | 358    | 864    | 1,140  | 245    | 90    | 75    |
| 5     | 104   | 90    | 119   | 90    | 110   | 450    | 435    | 548    | 1,090  | 226    | 89    | 81    |
| 6     | 99    | 85    | 126   | 95    | 119   | 435    | 417    | 549    | 1,030  | 208    | 88    | 79    |
| 7     | 99    | 85    | 109   | 105   | 109   | 426    | 359    | 906    | 1,050  | 191    | 109   | 71    |
| 8     | 99    | 85    | 82    | 100   | 106   | 450    | 332    | 754    | 1,040  | 191    | 106   | 67    |
| 9     | 95    | 83    | 95    | 100   | 106   | 490    | 320    | 780    | 1,090  | 182    | 109   | 63    |
| 10    | 92    | 83    | 100   | 95    | 104   | 495    | 308    | 738    | 927    | 182    | 106   | 58    |
| 11    | 90    | 105   | 95    | 100   | 106   | 490    | 332    | 780    | 752    | 173    | 83    | 58    |
| 12    | 88    | 140   | 105   | 105   | 114   | 470    | 308    | 836    | 717    | 176    | 79    | 75    |
| 13    | 85    | 170   | 95    | 100   | 116   | 440    | 308    | 920    | 710    | 173    | 90    | 73    |
| 14    | 82    | 111   | 100   | 95    | 124   | 460    | 300    | 1,040  | 724    | 161    | 92    | 71    |
| 15    | 81    | 105   | 105   | 90    | 124   | 440    | 324    | 1,130  | 724    | 153    | 92    | 69    |
| 16    | 90    | 100   | 109   | 95    | 124   | 440    | 359    | 1,130  | 704    | 185    | 92    | 69    |
| 17    | 92    | 99    | 136   | 100   | 129   | 500    | 349    | 1,070  | 668    | 179    | 97    | 69    |
| 18    | 92    | 111   | 155   | 110   | 136   | 542    | 349    | 948    | 656    | 161    | 104   | 67    |
| 19    | 95    | 101   | 158   | 120   | 147   | 505    | 300    | 934    | 626    | 150    | 104   | 67    |
| 20    | 95    | 106   | 153   | 134   | 164   | 510    | 296    | 773    | 596    | 150    | 90    | 67    |
| 21    | 92    | 109   | 147   | 147   | 176   | 566    | 308    | 638    | 566    | 150    | 79    | 67    |
| 22    | 90    | 111   | 354   | 161   | 205   | 560    | 340    | 590    | 520    | 150    | 79    | 55    |
| 23    | 88    | 109   | 245   | 145   | 173   | 455    | 385    | 632    | 480    | 139    | 77    | 51    |
| 24    | 88    | 111   | 167   | 104   | 150   | 408    | 430    | 731    | 440    | 134    | 75    | 56    |
| 25    | 90    | 109   | 164   | 100   | 155   | 394    | 376    | 822    | 403    | 136    | 71    | 56    |
| 26    | 90    | 106   | 129   | 95    | 176   | 363    | 363    | 948    | 381    | 131    | 61    | 61    |
| 27    | 89    | 150   | 115   | 90    | 188   | 336    | 408    | 1,080  | 367    | 129    | 60    | 61    |
| 28    | 88    | 155   | 110   | 95    | 233   | 308    | 530    | 1,180  | 358    | 126    | 60    | 63    |
| 29    | 63    | 142   | 105   | 90    | 300   | 296    | 596    | 1,250  | 345    | 124    | 69    | 60    |
| 30    | 81    | 136   | 100   | 85    | ----- | 276    | 572    | 1,290  | 320    | 124    | 69    | 60    |
| 31    | 104   | ----- | 95    | 95    | ----- | 280    | -----  | 1,330  | -----  | 124    | 92    | ----- |
| TOTAL | 2,866 | 3,549 | 4,055 | 3,226 | 4,059 | 13,170 | 10,916 | 28,209 | 22,154 | 5,393  | 2,707 | 2,079 |
| MEAN  | 92.5  | 118   | 131   | 104   | 140   | 425    | 364    | 910    | 738    | 174    | 87.3  | 69.3  |
| MAX   | 109   | 340   | 354   | 161   | 300   | 566    | 596    | 1,330  | 1,330  | 300    | 111   | 134   |
| MIN   | 63    | 83    | 82    | 80    | 85    | 219    | 268    | 590    | 320    | 124    | 60    | 51    |
| AC-FT | 5,680 | 7,040 | 8,040 | 6,400 | 8,050 | 26,120 | 21,650 | 55,950 | 43,940 | 10,700 | 5,370 | 4,120 |

CAL YR 1971 TOTAL 142,815 MEAN 391 MAX 1,880 MIN 63 AC-FT 293,300

WTR YR 1972 TOTAL 102,383 MEAN 290 MAX 1,330 MIN 51 AC-FT 203,100

Peak discharge (base, 1,300 cfs).--June 1 (0400) 1,520 cfs (3.45 ft).

## CARSON RIVER BASIN

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 mile downstream from bridge on State Highway 88-89, 0.6 mile southwest of Woodfords, and 3.8 miles downstream from Willow Creek.

DRAINAGE AREA.--65.6 sq mi.

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 mile 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 (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 lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft downstream at datum 3.06 ft lower.

AVERAGE DISCHARGE.--41 years (1900-1907, 1938-72), 114 cfs (82,590 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 387 cfs May 5 (gage height, 2.82 ft); minimum, 16 cfs Aug. 26, 27.

Period of record: Maximum discharge, 4,890 cfs Feb. 1, 1963 (gage height, 9.0 ft), on basis of slope-area measurement of peak flow; minimum, about 5 cfs Dec. 23, 1961.

Flood of Dec. 11, 1937, reached a stage of 8.0 ft (present datum), from floodmarks (discharge, 3,500 cfs 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). 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1     | 56    | 29    | 35    | 30    | 34    | 44    | 112   | 238    | 271   | 69    | 62    | 39    |
| 2     | 56    | 29    | 29    | 31    | 30    | 51    | 133   | 262    | 256   | 64    | 61    | 37    |
| 3     | 36    | 29    | 32    | 28    | 32    | 83    | 158   | 268    | 232   | 61    | 60    | 24    |
| 4     | 29    | 28    | 35    | 25    | 32    | 120   | 180   | 277    | 226   | 56    | 57    | 22    |
| 5     | 28    | 28    | 36    | 28    | 31    | 131   | 214   | 314    | 229   | 54    | 50    | 24    |
| 6     | 28    | 28    | 35    | 33    | 31    | 131   | 187   | 324    | 235   | 69    | 22    | 23    |
| 7     | 27    | 28    | 29    | 33    | 31    | 145   | 163   | 292    | 229   | 73    | 20    | 22    |
| 8     | 26    | 27    | 27    | 33    | 31    | 163   | 147   | 259    | 214   | 72    | 19    | 21    |
| 9     | 26    | 27    | 34    | 33    | 31    | 177   | 141   | 247    | 235   | 57    | 20    | 20    |
| 10    | 25    | 26    | 30    | 32    | 31    | 192   | 137   | 244    | 200   | 41    | 19    | 20    |
| 11    | 26    | 65    | 31    | 31    | 31    | 184   | 135   | 250    | 163   | 53    | 18    | 22    |
| 12    | 26    | 71    | 27    | 33    | 32    | 177   | 112   | 250    | 149   | 55    | 18    | 28    |
| 13    | 26    | 38    | 28    | 32    | 33    | 177   | 118   | 260    | 145   | 52    | 18    | 28    |
| 14    | 25    | 34    | 28    | 32    | 33    | 182   | 133   | 275    | 149   | 50    | 28    | 31    |
| 15    | 26    | 35    | 28    | 32    | 33    | 172   | 147   | 280    | 152   | 46    | 52    | 31    |
| 16    | 27    | 31    | 29    | 32    | 33    | 182   | 167   | 270    | 145   | 41    | 51    | 28    |
| 17    | 29    | 31    | 32    | 33    | 33    | 206   | 158   | 256    | 137   | 43    | 48    | 22    |
| 18    | 29    | 31    | 31    | 33    | 34    | 212   | 137   | 241    | 135   | 73    | 42    | 20    |
| 19    | 29    | 29    | 31    | 33    | 35    | 198   | 120   | 244    | 131   | 88    | 28    | 20    |
| 20    | 29    | 29    | 31    | 34    | 37    | 212   | 121   | 220    | 123   | 90    | 20    | 19    |
| 21    | 28    | 29    | 31    | 34    | 39    | 226   | 135   | 184    | 116   | 88    | 19    | 19    |
| 22    | 28    | 29    | 34    | 35    | 35    | 206   | 158   | 172    | 109   | 76    | 18    | 19    |
| 23    | 28    | 29    | 29    | 32    | 33    | 167   | 177   | 177    | 105   | 34    | 17    | 19    |
| 24    | 28    | 30    | 31    | 34    | 29    | 154   | 184   | 195    | 96    | 26    | 17    | 19    |
| 25    | 28    | 29    | 31    | 34    | 33    | 160   | 152   | 206    | 88    | 24    | 17    | 20    |
| 26    | 28    | 38    | 30    | 30    | 36    | 135   | 158   | 226    | 83    | 24    | 16    | 33    |
| 27    | 28    | 51    | 28    | 26    | 39    | 123   | 182   | 250    | 81    | 24    | 16    | 42    |
| 28    | 26    | 50    | 30    | 28    | 44    | 112   | 214   | 262    | 81    | 29    | 17    | 37    |
| 29    | 25    | 38    | 32    | 27    | 47    | 109   | 220   | 268    | 80    | 32    | 34    | 28    |
| 30    | 29    | 40    | 30    | 26    | ----- | 109   | 220   | 271    | 75    | 33    | 44    | 26    |
| 31    | 30    | ----- | 30    | 30    | ----- | 112   | ----- | 268    | ----- | 45    | 50    | ----- |
| TOTAL | 915   | 1,036 | 954   | 967   | 983   | 4,752 | 4,720 | 7,750  | 4,670 | 1,642 | 978   | 763   |
| MEAN  | 29.5  | 34.5  | 30.8  | 31.2  | 33.9  | 153   | 157   | 250    | 156   | 53.0  | 31.5  | 25.4  |
| MAX   | 56    | 71    | 36    | 35    | 47    | 226   | 220   | 324    | 271   | 90    | 62    | 42    |
| MIN   | 25    | 26    | 27    | 25    | 29    | 44    | 112   | 172    | 75    | 24    | 16    | 19    |
| AC-FT | 1,810 | 2,050 | 1,890 | 1,920 | 1,950 | 9,430 | 9,360 | 15,370 | 9,260 | 3,260 | 1,940 | 1,510 |

CAL YR 1971 TOTAL 42,812 MEAN 117 MAX 444 MIN 20 AC-FT 84,920  
WTR YR 1972 TOTAL 30,130 MEAN 82.3 MAX 324 MIN 16 AC-FT 59,760

Peak discharge (base, 500 cfs).--No peaks above base.

## CARSON RIVER BASIN

79

10310400 Daggett Creek near Genoa, Nev.

LOCATION.--Lat 38°57'55", long 119°50'55", in SW 1/4 sec.28, T.13 N., R.19 E., Douglas County, on left bank in Haines Canyon, 0.55 mile upstream from Foothill Road, and 3.5 miles south-southwest of Genoa.

DRAINAGE AREA.--3.82 sq mi.

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 (from topographic map).

AVERAGE DISCHARGE.--7 years, 2.36 cfs (1,710 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10 cfs Sept. 26 (gage height, 1.09 ft); minimum, 0.72 cfs July 7, 28, 29, 31.

Period of record: Maximum discharge, 63 cfs Aug. 5, 1971 (gage height, 2.78 ft, from floodmarks), from rating curve extended above 6 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.60 cfs on many days during August 1966.

REMARKS.--Records good. No diversions above station. Since October 1968 flow includes treated sewer effluent pumped intermittently from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC  | JAN  | FEB   | MAR  | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|------|-------|------|------|-------|------|-------|------|-------|-------|-------|-------|
| 1     | 2.3  | 2.3   | 2.6  | 2.0  | 1.6   | 2.1  | 1.8   | 2.0  | 1.9   | 1.2   | .98   | 1.1   |
| 2     | 2.6  | 2.6   | 1.6  | 2.1  | 1.5   | 2.4  | 1.8   | 2.3  | 1.8   | 1.2   | .98   | 1.1   |
| 3     | 2.6  | 2.1   | 1.5  | 2.1  | 1.5   | 3.0  | 1.8   | 2.3  | 1.8   | 1.1   | .97   | 1.1   |
| 4     | 2.6  | 2.1   | 1.5  | 1.9  | 1.6   | 2.9  | 1.9   | 2.4  | 1.8   | 1.1   | .97   | 1.2   |
| 5     | 2.6  | 2.3   | 1.6  | 2.0  | 1.6   | 2.8  | 2.5   | 2.4  | 1.9   | 1.1   | .97   | 1.2   |
| 6     | 2.8  | 1.9   | 1.6  | 2.1  | 1.6   | 2.8  | 2.1   | 2.4  | 2.0   | 1.1   | .97   | 1.1   |
| 7     | 2.8  | 1.7   | 1.5  | 1.9  | 1.6   | 2.7  | 1.9   | 2.3  | 2.7   | 1.1   | .95   | 1.1   |
| 8     | 2.8  | 1.8   | 1.4  | 1.9  | 1.8   | 2.7  | 1.9   | 2.2  | 2.3   | 1.1   | .94   | 1.1   |
| 9     | 2.8  | 1.7   | 1.6  | 1.9  | 1.8   | 2.7  | 1.8   | 2.1  | 2.0   | 1.1   | .95   | 1.1   |
| 10    | 2.8  | 1.6   | 1.6  | 1.9  | 1.8   | 2.6  | 1.8   | 2.1  | 2.0   | 1.1   | .96   | 1.0   |
| 11    | 2.8  | 2.5   | 1.6  | 2.1  | 1.8   | 2.6  | 2.2   | 2.1  | 1.8   | 1.1   | .96   | 1.0   |
| 12    | 2.6  | 1.8   | 1.7  | 2.1  | 1.9   | 2.6  | 1.9   | 2.2  | 1.8   | 1.0   | .95   | 1.1   |
| 13    | 2.6  | 2.8   | 1.6  | 2.1  | 1.9   | 2.6  | 1.9   | 2.3  | 1.7   | .99   | .96   | 1.1   |
| 14    | 2.3  | 4.2   | 1.6  | 1.9  | 1.9   | 2.5  | 1.8   | 2.3  | 1.6   | .97   | .98   | 1.1   |
| 15    | 2.3  | 4.1   | 1.6  | 1.9  | 2.1   | 2.4  | 2.0   | 2.3  | 1.6   | .97   | .98   | 1.0   |
| 16    | 2.6  | 3.8   | 1.6  | 1.9  | 2.1   | 2.5  | 1.9   | 2.3  | 1.6   | .96   | .97   | 1.1   |
| 17    | 2.8  | 3.6   | 1.6  | 1.9  | 2.1   | 2.6  | 1.8   | 2.1  | 1.6   | .96   | 1.0   | 1.1   |
| 18    | 2.1  | 3.5   | 1.6  | 2.1  | 2.0   | 2.6  | 1.6   | 2.1  | 1.6   | .96   | 1.4   | 1.1   |
| 19    | 2.8  | 3.3   | 1.5  | 2.1  | 2.1   | 2.5  | 1.7   | 2.4  | 1.5   | .96   | 1.1   | 1.1   |
| 20    | 2.8  | 3.3   | 1.5  | 1.9  | 2.1   | 2.6  | 1.7   | 2.1  | 1.4   | 1.0   | 1.1   | 1.1   |
| 21    | 2.8  | 3.1   | 1.6  | 2.1  | 2.2   | 2.4  | 1.7   | 2.1  | 1.4   | .99   | 1.0   | 1.1   |
| 22    | 2.8  | 3.0   | 2.5  | 1.7  | 2.4   | 2.4  | 1.8   | 2.0  | 1.4   | .97   | .95   | .95   |
| 23    | 2.8  | 3.3   | 1.3  | 1.6  | 2.1   | 2.2  | 1.8   | 2.0  | 1.4   | .97   | .95   | .92   |
| 24    | 2.8  | 3.8   | 1.4  | 1.5  | 2.1   | 2.2  | 1.8   | 1.9  | 1.5   | .96   | .95   | .94   |
| 25    | 3.0  | 3.8   | 1.5  | 1.6  | 2.2   | 2.2  | 1.7   | 1.9  | 1.5   | .95   | .97   | .99   |
| 26    | 3.0  | 3.6   | 1.5  | 1.6  | 2.1   | 1.9  | 1.7   | 1.9  | 1.4   | .94   | .94   | 1.8   |
| 27    | 1.9  | 3.2   | 1.8  | 1.6  | 2.1   | 2.0  | 1.7   | 2.0  | 1.4   | .93   | .98   | 1.5   |
| 28    | 1.3  | 3.5   | 2.2  | 1.5  | 2.4   | 2.0  | 1.8   | 2.0  | 1.3   | .89   | .97   | 1.2   |
| 29    | 1.3  | 3.8   | 1.9  | 1.5  | 2.4   | 2.0  | 2.0   | 1.9  | 1.3   | .89   | .93   | 1.2   |
| 30    | 1.4  | 3.8   | 1.9  | 1.5  | ----- | 1.9  | 2.0   | 1.9  | 1.2   | .96   | .96   | 1.3   |
| 31    | 1.6  | ----- | 1.9  | 1.5  | ----- | 1.9  | ----- | 1.9  | ----- | .91   | .98   | ----- |
| TOTAL | 77.1 | 87.9  | 51.9 | 57.5 | 56.4  | 75.3 | 55.8  | 66.2 | 50.2  | 31.43 | 30.62 | 33.80 |
| MEAN  | 2.49 | 2.93  | 1.67 | 1.85 | 1.94  | 2.43 | 1.86  | 2.14 | 1.67  | 1.01  | .99   | 1.13  |
| MAX   | 3.0  | 4.2   | 2.6  | 2.1  | 2.4   | 3.0  | 2.5   | 2.4  | 2.7   | 1.2   | 1.4   | 1.8   |
| MIN   | 1.3  | 1.6   | 1.3  | 1.5  | 1.5   | 1.9  | 1.6   | 1.9  | 1.2   | .89   | .93   | .92   |
| AC-FT | 153  | 174   | 103  | 114  | 112   | 149  | 111   | 131  | 100   | 62    | 61    | 67    |

CAL YR 1971 TOTAL 1,044.70 MEAN 2.86 MAX 8.3 MIN 1.3 AC-FT 2,070  
WTR YR 1972 TOTAL 674.15 MEAN 1.84 MAX 4.2 MIN .89 AC-FT 1,340

## CARSON RIVER BASIN

10311000 Carson River near Carson City, Nev.

LOCATION.--Lat 39°06'30", long 119°42'40", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.2, T.14 N., R.20 E., Carson City, on left bank 2 miles downstream from Clear Creek, 3 miles upstream from Lloyd Bridge on road to Mexican Dam, and 5 miles southeast of Carson City Post Office.

DRAINAGE AREA.--876 sq mi.

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

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

AVERAGE DISCHARGE.--33 years, 402 cfs (291,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,330 cfs June 1 (gage height, 4.33 ft); minimum, 7.0 cfs Aug. 12.

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

REMARKS.--Records excellent except those for winter periods, 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 1971 TO SEPTEMBER 1972

| DAY         | JCT   | NOV       | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG   | SEP   |
|-------------|-------|-----------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| 1           | 109   | 153       | 238    | 215    | 215    | 380    | 297    | 385    | 1,210  | 92      | 12    | 8.7   |
| 2           | 150   | 160       | 224    | 190    | 200    | 341    | 262    | 488    | 1,180  | 82      | 12    | 11    |
| 3           | 141   | 159       | 204    | 190    | 205    | 422    | 265    | 650    | 1,110  | 72      | 13    | 16    |
| 4           | 141   | 161       | 192    | 170    | 215    | 637    | 293    | 741    | 1,020  | 66      | 11    | 20    |
| 5           | 142   | 159       | 206    | 175    | 237    | 643    | 350    | 809    | 990    | 76      | 9.3   | 25    |
| 6           | 129   | 147       | 211    | 180    | 230    | 630    | 558    | 858    | 908    | 56      | 8.7   | 21    |
| 7           | 116   | 142       | 206    | 180    | 237    | 624    | 494    | 865    | 1,010  | 46      | 10    | 19    |
| 8           | 94    | 134       | 193    | 185    | 234    | 643    | 406    | 837    | 1,110  | 49      | 8.8   | 19    |
| 9           | 105   | 133       | 170    | 185    | 230    | 702    | 355    | 809    | 1,150  | 47      | 9.4   | 21    |
| 10          | 103   | 125       | 190    | 200    | 234    | 734    | 314    | 754    | 1,150  | 44      | 11    | 16    |
| 11          | 103   | 132       | 199    | 205    | 230    | 747    | 258    | 728    | 908    | 49      | 9.3   | 18    |
| 12          | 92    | 360       | 190    | 210    | 237    | 721    | 314    | 767    | 781    | 45      | 8.0   | 16    |
| 13          | 79    | 394       | 190    | 210    | 237    | 695    | 314    | 802    | 708    | 34      | 8.2   | 24    |
| 14          | 80    | 264       | 175    | 205    | 244    | 689    | 350    | 865    | 643    | 37      | 8.0   | 33    |
| 15          | 76    | 274       | 190    | 200    | 248    | 663    | 350    | 1,030  | 582    | 24      | 8.3   | 33    |
| 16          | 81    | 200       | 180    | 200    | 241    | 637    | 350    | 1,100  | 516    | 17      | 9.2   | 28    |
| 17          | 121   | 182       | 170    | 215    | 241    | 663    | 370    | 1,020  | 422    | 17      | 11    | 23    |
| 18          | 159   | 169       | 180    | 250    | 244    | 715    | 332    | 938    | 429    | 15      | 13    | 21    |
| 19          | 165   | 179       | 200    | 273    | 255    | 702    | 273    | 908    | 408    | 18      | 22    | 26    |
| 20          | 163   | 166       | 206    | 273    | 269    | 669    | 248    | 975    | 385    | 15      | 32    | 32    |
| 21          | 166   | 168       | 200    | 360    | 285    | 663    | 224    | 844    | 332    | 14      | 30    | 32    |
| 22          | 162   | 173       | 310    | 689    | 323    | 689    | 237    | 689    | 347    | 22      | 30    | 36    |
| 23          | 160   | 173       | 707    | 734    | 323    | 618    | 237    | 663    | 314    | 23      | 22    | 36    |
| 24          | 151   | 167       | 435    | 375    | 281    | 534    | 227    | 618    | 297    | 20      | 18    | 34    |
| 25          | 152   | 163       | 400    | 285    | 265    | 488    | 277    | 606    | 291    | 19      | 15    | 31    |
| 26          | 157   | 173       | 332    | 270    | 277    | 455    | 251    | 721    | 252    | 19      | 13    | 40    |
| 27          | 157   | 187       | 300    | 221    | 301    | 400    | 241    | 872    | 228    | 16      | 11    | 47    |
| 28          | 148   | 230       | 240    | 215    | 319    | 370    | 277    | 953    | 185    | 17      | 10    | 56    |
| 29          | 148   | 277       | 220    | 190    | 390    | 370    | 346    | 1,080  | 159    | 15      | 9.4   | 54    |
| 30          | 135   | 260       | 210    | 200    | -----  | 350    | 400    | 1,150  | 113    | 14      | 11    | 61    |
| 31          | 140   | -----     | 215    | 210    | -----  | 310    | -----  | 1,180  | -----  | 13      | 11    | ----- |
| TOTAL       | 4,024 | 5,703     | 7,488  | 7,860  | 7,447  | 17,904 | 9,470  | 25,705 | 19,138 | 1,093   | 414.6 | 857.7 |
| MEAN        | 130   | 190       | 242    | 254    | 257    | 578    | 316    | 829    | 638    | 35.3    | 13.4  | 28.6  |
| MAX         | 166   | 394       | 707    | 734    | 390    | 747    | 558    | 1,180  | 1,210  | 92      | 32    | 61    |
| MIN         | 76    | 125       | 170    | 170    | 200    | 310    | 224    | 385    | 113    | 13      | 8.0   | 8.7   |
| AC-FT       | 7,980 | 11,310    | 14,850 | 15,590 | 14,770 | 35,510 | 18,780 | 50,990 | 37,960 | 2,170   | 822   | 1,700 |
| WTR YR 1971 | TOTAL | 164,865.0 | MEAN   | 452    | MAX    | 1,870  | MIN    | 29     | AC-FT  | 327,000 |       |       |
| WTR YR 1972 | TOTAL | 107,104.3 | MEAN   | 293    | MAX    | 1,210  | MIN    | 8.0    | AC-FT  | 212,400 |       |       |

Peak discharge (base, 1,600 cfs).--No peak above base.

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 downstream from Buckland ditch, 2 miles west of Fort Churchill, and 4.5 miles upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,450 sq mi, 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 above mean sea level. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 miles upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 miles upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft higher (levels by Truckee-Carson Irrigation District).

AVERAGE DISCHARGE.--61 years, 364 cfs (263,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs June 10 (gage height, 4.23 ft); minimum, 0.32 cfs Sept. 26-29.

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

REMARKS.--Records excellent except those for winter periods and doubtful gage-height record, which are fair. Many diversions for irrigation above station, including diversions for irrigation of 720 acres between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft 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 1971 TO SEPTEMBER 1972

| DAY   | OCT     | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 8.4     | 121    | 246    | 210    | 210    | 375    | 286    | 295    | 1,020  | 60     | .78   | .42   |
| 2     | 27      | 131    | 235    | 200    | 190    | 350    | 274    | 290    | 1,090  | 27     | .71   | .42   |
| 3     | 50      | 137    | 220    | 170    | 220    | 335    | 243    | 380    | 1,090  | 17     | .71   | .42   |
| 4     | 62      | 139    | 203    | 150    | 240    | 435    | 235    | 513    | 1,030  | 13     | .71   | .42   |
| 5     | 82      | 137    | 193    | 160    | 258    | 627    | 254    | 588    | 948    | 9.2    | .53   | .42   |
| 6     | 84      | 137    | 200    | 160    | 250    | 641    | 304    | 662    | 922    | 5.2    | .49   | .42   |
| 7     | 80      | 131    | 203    | 160    | 246    | 634    | 451    | 720    | 930    | 1.5    | .49   | .39   |
| 8     | 68      | 128    | 177    | 165    | 250    | 627    | 380    | 713    | 1,080  | .95    | .49   | .42   |
| 9     | 62      | 123    | 153    | 170    | 246    | 655    | 313    | 676    | 1,160  | .86    | .45   | .42   |
| 10    | 68      | 123    | 168    | 170    | 243    | 690    | 295    | 648    | 1,200  | .78    | .45   | .42   |
| 11    | 66      | 118    | 193    | 170    | 243    | 720    | 254    | 588    | 1,060  | .78    | .45   | .45   |
| 12    | 63      | 126    | 197    | 170    | 243    | 720    | 217    | 601    | 829    | .71    | .42   | .42   |
| 13    | 57      | 331    | 183    | 200    | 246    | 676    | 246    | 634    | 690    | .71    | .45   | .42   |
| 14    | 42      | 317    | 168    | 210    | 246    | 641    | 246    | 655    | 620    | .71    | .45   | .42   |
| 15    | 30      | 250    | 177    | 200    | 246    | 655    | 266    | 735    | 543    | .86    | .45   | .42   |
| 16    | 31      | 203    | 162    | 200    | 250    | 620    | 278    | 871    | 501    | .86    | .45   | .42   |
| 17    | 42      | 193    | 170    | 200    | 246    | 607    | 278    | 896    | 446    | .86    | .45   | .39   |
| 18    | 72      | 177    | 170    | 210    | 243    | 641    | 286    | 854    | 375    | .86    | .45   | .39   |
| 19    | 116     | 165    | 180    | 220    | 246    | 683    | 258    | 837    | 360    | .71    | .53   | .39   |
| 20    | 126     | 171    | 190    | 250    | 258    | 655    | 224    | 896    | 335    | .64    | .49   | .39   |
| 21    | 126     | 159    | 190    | 313    | 270    | 607    | 190    | 888    | 304    | .78    | .49   | .39   |
| 22    | 131     | 162    | 246    | 402    | 286    | 620    | 168    | 758    | 274    | .71    | .49   | .39   |
| 23    | 131     | 168    | 418    | 720    | 317    | 641    | 171    | 620    | 282    | .64    | .42   | .39   |
| 24    | 131     | 168    | 588    | 601    | 304    | 555    | 177    | 588    | 250    | .64    | .42   | .39   |
| 25    | 126     | 165    | 424    | 360    | 278    | 501    | 165    | 531    | 235    | .64    | .45   | .35   |
| 26    | 118     | 165    | 380    | 290    | 270    | 457    | 193    | 501    | 228    | .64    | .45   | .32   |
| 27    | 126     | 168    | 304    | 278    | 278    | 424    | 180    | 641    | 193    | .71    | .45   | .32   |
| 28    | 137     | 183    | 274    | 230    | 295    | 380    | 187    | 773    | 162    | .78    | .42   | .32   |
| 29    | 131     | 220    | 250    | 220    | 313    | 350    | 213    | 871    | 121    | .78    | .42   | .32   |
| 30    | 128     | 258    | 230    | 200    | -----  | 345    | 270    | 984    | 98     | .78    | .42   | 1.2   |
| 31    | 123     | -----  | 220    | 210    | -----  | 313    | -----  | 1,000  | -----  | .86    | .42   | ----- |
| TOTAL | 4,675.2 | 5,174  | 7,312  | 7,569  | 7,431  | 17,180 | 7,502  | 21,207 | 18,376 | 151.15 | 15.25 | 12.67 |
| MEAN  | 86.3    | 172    | 236    | 244    | 256    | 554    | 250    | 684    | 613    | 4.88   | .49   | .42   |
| MAX   | 137     | 331    | 588    | 720    | 317    | 720    | 451    | 1,000  | 1,200  | .60    | .78   | 1.2   |
| MIN   | 8.2     | 118    | 153    | 150    | 190    | 313    | 165    | 290    | 98     | .64    | .42   | .32   |
| AC-FT | 5,310   | 10,260 | 14,500 | 15,010 | 14,740 | 34,080 | 14,880 | 42,060 | 36,450 | 300    | 30    | 25    |

CAL YR 1971 TOTAL 147,044.57 MEAN 403 MAX 1,850 MIN .82 AC-FT 291,700  
 WTR YR 1972 TOTAL 94,606.27 MEAN 258 MAX 1,200 MIN .32 AC-FT 187,700

Peak discharge (base, 1,400 cfs).--No peak above base.

NOTE.--Gage-height record doubtful July 8 to Aug. 28.



## CARSON RIVER BASIN

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 miles 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 lower than datum of 1929, supplementary adjustment of 1956, according to levels by Bureau of Reclamation during 1966).

EXTREMES.--Current year: Maximum contents observed, 310,100 acre-ft June 15, 16 (elevation, 4,163.16 ft); minimum observed, 133,700 acre-ft Sept. 30 (elevation, 4,141.13 ft).

Period of record: Maximum contents observed (20-inch flashboard on weir), \*328,600 acre-ft June 16, 1942 (elevation, 4,164.43 ft); minimum observed, \*91 acre-ft Sept. 7-9, 1929 (elevation, 4,070.0 ft).

REMARKS.--Reservoir is formed by earth- and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft between elevations, 4,060.0 (invert of outlet conduit) and 4,162.0 ft (spillway crest); includes 91 acre-ft of dead storage below elevation 4,070.0 ft. Surface area at spillway elevation, 12,120 acres. Water is used for irrigation of 87,500 acres 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)

|       |         |       |         |
|-------|---------|-------|---------|
| 4,140 | 127,800 | 4,160 | 272,600 |
| 4,150 | 187,200 | 4,164 | 322,100 |

## CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1           | 177,600  | 181,800  | 208,800  | 236,300  | 253,800  | 268,600  | 285,500  | 277,000  | 294,400  | 286,600  | 211,800  | 154,200  |
| 2           | 176,900  | 182,100  | 210,300  | 236,900  | 254,200  | 269,300  | 284,300  | 276,900  | 295,000  | 284,000  | 209,900  | 152,800  |
| 3           | 176,600  | 182,700  | 211,700  | 236,900  | 254,500  | 269,700  | 283,400  | 276,600  | 296,000  | 281,300  | 207,600  | 151,500  |
| 4           | 176,400  | 182,500  | 213,300  | 237,000  | 255,000  | 271,000  | 282,600  | 276,500  | 296,700  | 278,500  | 205,700  | 150,300  |
| 5           | 176,500  | 183,400  | 214,500  | 238,100  | 255,400  | 272,200  | 282,400  | 276,600  | 297,600  | 276,100  | 203,700  | 149,300  |
| 6           | 176,600  | 184,100  | 215,300  | 238,200  | 255,700  | 273,700  | 282,300  | 276,800  | 298,300  | 273,600  | 201,900  | 148,700  |
| 7           | 176,700  | 184,500  | 216,400  | 239,200  | 256,400  | 275,200  | 282,400  | 277,300  | 299,200  | 271,200  | 199,900  | 148,000  |
| 8           | 176,700  | 184,900  | 218,000  | 239,900  | 257,100  | 277,000  | 283,000  | 277,700  | 300,700  | 268,800  | 198,200  | 147,300  |
| 9           | 176,600  | 185,400  | 219,300  | 240,200  | 257,700  | 278,400  | 284,000  | 279,000  | 302,500  | 266,400  | 195,900  | 146,700  |
| 10          | 176,200  | 185,400  | 220,400  | 240,600  | 258,200  | 280,000  | 284,400  | 279,600  | 304,500  | 264,000  | 194,000  | 146,000  |
| 11          | 176,000  | 186,000  | 221,300  | 241,300  | 258,700  | 281,700  | 285,500  | 280,200  | 306,500  | 261,800  | 191,900  | 145,400  |
| 12          | 175,900  | 186,300  | 223,400  | 241,900  | 259,300  | 283,400  | 285,800  | 280,800  | 307,900  | 259,500  | 189,700  | 144,700  |
| 13          | 175,700  | 185,500  | 223,800  | 242,300  | 259,700  | 285,200  | 285,500  | 281,300  | 309,000  | 257,100  | 187,600  | 144,100  |
| 14          | 175,500  | 187,900  | 225,300  | 242,800  | 260,200  | 286,800  | 285,800  | 282,000  | 309,600  | 254,600  | 185,500  | 143,500  |
| 15          | 175,600  | 188,700  | 225,500  | 243,400  | 260,700  | 288,400  | 285,800  | 282,600  | 310,100  | 251,600  | 183,200  | 142,700  |
| 16          | 175,300  | 190,000  | 225,800  | 243,800  | 261,300  | 289,700  | 285,500  | 283,300  | 310,100  | 249,600  | 181,300  | 142,200  |
| 17          | 175,400  | 191,400  | 225,900  | 244,400  | 261,700  | 290,900  | 285,300  | 284,000  | 309,700  | 247,000  | 179,200  | 141,500  |
| 18          | 175,600  | 192,600  | 226,500  | 244,900  | 262,300  | 292,300  | 284,900  | 285,000  | 309,400  | 244,400  | 177,300  | 140,600  |
| 19          | 175,800  | 193,900  | 226,500  | 245,300  | 262,700  | 292,500  | 284,900  | 286,000  | 308,600  | 241,500  | 175,500  | 139,800  |
| 20          | 176,200  | 195,200  | 227,200  | 246,000  | 263,200  | 293,100  | 285,200  | 287,300  | 307,700  | 238,600  | 174,000  | 139,000  |
| 21          | 176,600  | 196,400  | 227,800  | 246,500  | 263,800  | 293,200  | 284,900  | 288,100  | 306,600  | 236,300  | 172,200  | 138,300  |
| 22          | 176,500  | 197,600  | 228,900  | 247,600  | 264,700  | 293,100  | 284,500  | 289,100  | 303,900  | 233,500  | 170,700  | 137,600  |
| 23          | 177,900  | 198,700  | 229,700  | 248,200  | 264,500  | 293,200  | 283,900  | 290,600  | 303,000  | 231,400  | 168,900  | 136,600  |
| 24          | 177,700  | 200,200  | 230,500  | 249,300  | 265,100  | 293,000  | 283,000  | 291,500  | 300,900  | 229,000  | 167,300  | 135,900  |
| 25          | 178,200  | 201,300  | 231,400  | 250,800  | 265,500  | 292,500  | 281,700  | 292,000  | 299,200  | 226,900  | 165,400  | 135,300  |
| 26          | 178,700  | 202,600  | 233,100  | 251,300  | 266,300  | 291,200  | 281,000  | 292,500  | 297,600  | 224,600  | 163,800  | 134,600  |
| 27          | 179,300  | 203,900  | 233,700  | 251,800  | 266,800  | 290,400  | 280,300  | 292,600  | 295,500  | 222,400  | 162,200  | 134,000  |
| 28          | 179,500  | 204,800  | 234,200  | 252,300  | 267,500  | 289,700  | 279,400  | 292,600  | 293,600  | 220,000  | 160,600  | 133,900  |
| 29          | 180,200  | 205,900  | 234,800  | 252,800  | 268,000  | 288,800  | 278,200  | 292,600  | 291,500  | 217,900  | 158,900  | 133,800  |
| 30          | 180,900  | 207,700  | 235,400  | 253,200  | -----    | 287,500  | 277,400  | 293,100  | 289,200  | 215,600  | 157,400  | 133,700  |
| 31          | 181,100  | -----    | 235,700  | 253,700  | -----    | 286,500  | -----    | 293,800  | -----    | 213,700  | 155,900  | -----    |
| MAX         | 181,100  | 207,700  | 235,700  | 253,700  | 268,000  | 293,200  | 285,800  | 293,800  | 310,100  | 286,600  | 211,800  | 154,200  |
| MIN         | 175,300  | 181,800  | 208,800  | 236,300  | 253,800  | 268,600  | 277,400  | 276,500  | 289,200  | 213,700  | 155,900  | 133,700  |
| (+)         | 4,149.11 | 4,152.79 | 4,156.17 | 4,158.13 | 4,159.57 | 4,161.26 | 4,160.45 | 4,161.89 | 4,161.50 | 4,153.55 | 4,145.07 | 4,141.13 |
| (#)         | +1,700   | +27,700  | +28,000  | +18,000  | +14,300  | +18,500  | -9,100   | +16,400  | -4,600   | -75,500  | -57,800  | -22,200  |
| CAL YR 1971 |          |          |          |          |          |          |          |          |          |          |          |          |
| WTR YR 1972 | MAX      | 310,000  | MIN      | 133,700  |          |          |          |          |          |          |          |          |

+ ELEVATION, IN FEET, AT END OF MONTH.

# CHANGE IN CONTENTS, IN ACRE-FEET.

\* Computed on basis of capacity table dated 1972.

## CARSON RIVER BASIN

83

10312150 Carson River below Lahontan Reservoir, near Fallon, Nev.

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, on left bank 1.1 miles downstream from Lahontan Dam, and 15 miles west of Fallon.

DRAINAGE AREA.--1,950 sq mi, approximately (not counting inflow from Truckee Canal).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,040 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 589 cfs (426,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs July 1 (gage height, 6.03 ft); minimum daily, 3.2 cfs Feb. 19, 20.

Period of record: Maximum discharge, 2,300 cfs July 5, 6, 1967 (gage height, 7.71 ft); minimum daily, 2.2 cfs Dec. 28, 1971.

REMARKS.--Records excellent. Flow regulated by Lahontan Reservoir (capacity 295,100 acre-ft) and other upstream regulations. One diversion (approximately 2,500 acre-ft per year) between gage and Lahontan Reservoir.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT    | NOV       | DEC   | JAN   | FEB   | MAR      | APR    | MAY    | JUN    | JUL     | AUG    | SEP    |
|-------------|--------|-----------|-------|-------|-------|----------|--------|--------|--------|---------|--------|--------|
| 1           | 470    | 161       | 5.2   | 4.3   | 3.5   | 4.3      | 756    | 804    | 1,160  | 1,230   | 942    | 852    |
| 2           | 470    | 207       | 5.2   | 4.3   | 3.5   | 4.5      | 762    | 756    | 1,180  | 1,230   | 948    | 792    |
| 3           | 470    | 193       | 5.2   | 4.3   | 3.5   | 4.4      | 756    | 828    | 1,120  | 1,170   | 948    | 744    |
| 4           | 470    | 183       | 5.2   | 4.3   | 3.4   | 4.3      | 726    | 888    | 1,110  | 1,030   | 930    | 726    |
| 5           | 488    | 195       | 5.2   | 4.3   | 3.4   | 4.4      | 684    | 894    | 1,100  | 1,010   | 930    | 666    |
| 6           | 491    | 205       | 5.1   | 4.3   | 3.4   | 4.3      | 684    | 900    | 1,070  | 1,010   | 930    | 576    |
| 7           | 463    | 206       | 5.1   | 4.3   | 3.4   | 4.3      | 720    | 900    | 948    | 1,010   | 924    | 542    |
| 8           | 448    | 226       | 5.1   | 4.1   | 3.4   | 4.3      | 720    | 906    | 822    | 1,010   | 954    | 542    |
| 9           | 455    | 258       | 5.0   | 3.9   | 3.4   | 4.5      | 714    | 918    | 714    | 1,010   | 954    | 537    |
| 10          | 454    | 273       | 5.0   | 3.9   | 3.4   | 4.4      | 714    | 918    | 606    | 996     | 960    | 537    |
| 11          | 456    | 273       | 5.0   | 4.1   | 3.5   | 4.4      | 714    | 918    | 588    | 1,010   | 972    | 505    |
| 12          | 450    | 275       | 4.9   | 4.1   | 3.3   | 4.3      | 762    | 906    | 624    | 1,060   | 972    | 515    |
| 13          | 435    | 277       | 4.8   | 4.1   | 3.3   | 4.3      | 762    | 918    | 654    | 1,090   | 972    | 554    |
| 14          | 404    | 285       | 4.8   | 3.9   | 3.4   | 4.3      | 756    | 906    | 666    | 1,160   | 972    | 559    |
| 15          | 404    | 141       | 4.7   | 3.9   | 3.4   | 96       | 756    | 918    | 684    | 1,200   | 996    | 548    |
| 16          | 391    | 18        | 4.6   | 3.9   | 3.4   | 142      | 756    | 954    | 702    | 1,210   | 966    | 542    |
| 17          | 362    | 14        | 4.5   | 3.9   | 3.4   | 186      | 756    | 996    | 696    | 1,230   | 936    | 537    |
| 18          | 322    | 5.5       | 4.5   | 3.9   | 3.4   | 245      | 756    | 1,020  | 678    | 1,230   | 912    | 537    |
| 19          | 271    | 5.3       | 4.5   | 3.9   | 3.2   | 327      | 750    | 1,020  | 744    | 1,230   | 894    | 526    |
| 20          | 265    | 5.3       | 4.5   | 3.9   | 3.2   | 510      | 798    | 996    | 894    | 1,210   | 894    | 485    |
| 21          | 265    | 5.2       | 4.5   | 3.9   | 3.7   | 662      | 804    | 870    | 930    | 1,150   | 870    | 470    |
| 22          | 264    | 5.1       | 5.3   | 4.0   | 5.0   | 740      | 816    | 816    | 1,020  | 1,080   | 816    | 515    |
| 23          | 262    | 5.0       | 4.4   | 3.8   | 4.5   | 764      | 828    | 834    | 996    | 1,060   | 822    | 554    |
| 24          | 274    | 5.0       | 4.3   | 3.7   | 4.3   | 877      | 822    | 864    | 990    | 1,070   | 828    | 554    |
| 25          | 283    | 5.0       | 4.4   | 3.7   | 4.3   | 888      | 828    | 888    | 972    | 1,080   | 846    | 554    |
| 26          | 283    | 5.0       | 4.3   | 3.7   | 4.2   | 840      | 828    | 906    | 996    | 1,080   | 846    | 521    |
| 27          | 283    | 5.0       | 4.3   | 3.7   | 4.2   | 876      | 822    | 960    | 1,110  | 1,080   | 846    | 396    |
| 28          | 202    | 5.0       | 4.3   | 3.5   | 4.4   | 870      | 852    | 1,000  | 1,110  | 1,040   | 870    | 365    |
| 29          | 147    | 5.1       | 4.3   | 3.5   | 4.4   | 876      | 858    | 1,000  | 1,130  | 1,030   | 882    | 392    |
| 30          | 146    | 5.1       | 4.4   | 3.6   | ----- | 882      | 858    | 1,010  | 1,220  | 1,030   | 882    | 425    |
| 31          | 145    | -----     | 4.3   | 3.5   | ----- | 846      | -----  | 1,070  | -----  | 978     | 870    | -----  |
| TOTAL       | 10,993 | 3,466.6   | 146.9 | 122.2 | 106.8 | 10,688.0 | 23,118 | 28,482 | 27,234 | 34,014  | 28,284 | 16,568 |
| MEAN        | 355    | 116       | 4.74  | 3.94  | 3.68  | 345      | 771    | 919    | 908    | 1,097   | 912    | 552    |
| MAX         | 491    | 285       | 5.3   | 4.3   | 5.0   | 888      | 858    | 1,070  | 1,220  | 1,230   | 996    | 852    |
| MIN         | 145    | 5.0       | 4.3   | 3.5   | 3.2   | 4.3      | 684    | 756    | 588    | 978     | 816    | 365    |
| AC-FT       | 21,800 | 6,880     | 291   | 242   | 212   | 21,200   | 45,850 | 56,490 | 54,020 | 67,470  | 56,100 | 32,860 |
| CAL YR 1971 | TOTAL  | 182,127.2 | MEAN  | 499   | MAX   | 1,260    | MIN    | 2.3    | AC-FT  | 361,200 |        |        |
| WTR YR 1972 | TOTAL  | 183,223.5 | MEAN  | 501   | MAX   | 1,230    | MIN    | 3.2    | AC-FT  | 363,400 |        |        |

## CARSON RIVER BASIN

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 mile downstream from a channel to Stillwater Slough and 10 miles 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 mile downstream from Stillwater Slough and 2.3 miles 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 mile downstream from diversion out of Paiute Drain and 3 miles 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 miles 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 1971 to September 1972

| Month              | Stillwater Diversion Canal | Stillwater Slough Cutoff Drain | Paiute Diversion Drain | Indian Lakes Canal | Total  |
|--------------------|----------------------------|--------------------------------|------------------------|--------------------|--------|
| October . . .      | 4,330                      | 2,260                          | 329                    | 2,110              | 9,030  |
| November. . .      | 2,730                      | 1,300                          | 36                     | 1,520              | 5,590  |
| December. . .      | 898                        | 446                            | 19                     | 1,520              | 2,880  |
| Calendar year 1971 | 43,010                     | 19,860                         | 5,280                  | 17,580             | 85,730 |
| January . . .      | 633                        | 423                            | 61                     | 1,420              | 2,540  |
| February. . .      | 738                        | 303                            | 28                     | 990                | 2,060  |
| March . . . .      | 1,470                      | 1,020                          | 23                     | 1,120              | 3,630  |
| April . . . .      | 2,220                      | 2,220                          | 374                    | 1,650              | 6,460  |
| May . . . . .      | 3,670                      | 3,190                          | 482                    | 1,050              | 8,390  |
| June. . . . .      | 4,400                      | 3,010                          | 1,080                  | 1,550              | 10,040 |
| July. . . . .      | 4,520                      | 3,130                          | 1,470                  | 801                | 9,920  |
| August. . . .      | 4,270                      | 3,020                          | 1,360                  | 1,040              | 9,690  |
| September . .      | 2,820                      | 2,490                          | 1,080                  | 941                | 7,330  |
| Water year 1971-72 | 32,690                     | 22,810                         | 6,350                  | 15,710             | 77,560 |

## CARSON RIVER BASIN

85

10312280 Carson River below Fallon, Nev.

LOCATION.--Lat 39°40'10", long 118°39'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.19, T.21 N., R.30 E., Churchill County, on right bank 15 miles 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 (from topographic map).

AVERAGE DISCHARGE.--6 years, 69.2 cfs (50,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 60 cfs Oct. 27, 28 (gage height, 1.94 ft); minimum daily, 0.73 cfs Mar. 15-17.  
Period of record: Maximum discharge, 1,030 cfs July 9, 1967 (gage height, 6.60 ft); no flow for many days in 1968.

REMARKS.--Records good except those for winter periods, which are poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir (capacity, 295,100 acre-ft). 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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|-------|----------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1           | 5.2   | 52       | 4.9   | 1.5   | 1.6   | 1.2   | 6.6   | 12     | 2.0    | 11    | 4.0   | 7.0   |
| 2           | 4.9   | 50       | 4.5   | 1.2   | 1.0   | 1.2   | 18    | 15     | 3.6    | 4.9   | 3.1   | 8.5   |
| 3           | 5.7   | 52       | 4.9   | 1.0   | 1.2   | 1.2   | 20    | 9.9    | 8.9    | 3.6   | 2.9   | 21    |
| 4           | 12    | 51       | 6.0   | .90   | 1.4   | 1.2   | 33    | 9.2    | 4.5    | 2.7   | 4.3   | 28    |
| 5           | 13    | 40       | 4.5   | .80   | 1.6   | 1.0   | 22    | 12     | 3.1    | 2.0   | 4.3   | 28    |
| 6           | 9.6   | 29       | 2.7   | .80   | 2.5   | 1.0   | 15    | 8.5    | 7.3    | 1.4   | 1.8   | 15    |
| 7           | 11    | 27       | 2.9   | .80   | 2.7   | 1.0   | 9.2   | 4.9    | 7.6    | 2.4   | 1.3   | 4.7   |
| 8           | 8.2   | 26       | 2.2   | .80   | 2.5   | 1.0   | 13    | 6.6    | 14     | 1.3   | 2.2   | 4.0   |
| 9           | 5.7   | 13       | 2.5   | .80   | 2.7   | 1.0   | 11    | 7.6    | 27     | 4.3   | 1.8   | 14    |
| 10          | 4.9   | 9.2      | 2.9   | 2.0   | 1.5   | .94   | 7.6   | 5.2    | 12     | 3.3   | 1.4   | 14    |
| 11          | 3.8   | 15       | 2.9   | 2.5   | 1.5   | .84   | 7.9   | 6.6    | 6.0    | 4.7   | 2.4   | 8.9   |
| 12          | 5.7   | 12       | 2.7   | 3.0   | 2.5   | .84   | 13    | 4.5    | 6.3    | 2.9   | 2.9   | 6.6   |
| 13          | 7.9   | 9.2      | 2.5   | 4.0   | 2.2   | .84   | 20    | 3.3    | 5.2    | 1.3   | 2.2   | 8.2   |
| 14          | 8.2   | 8.5      | 2.4   | 4.0   | 2.2   | .84   | 14    | 2.4    | 4.5    | 3.1   | 2.4   | 17    |
| 15          | 11    | 12       | 2.3   | 3.5   | 2.2   | .73   | 23    | 9.2    | 3.6    | 3.3   | 4.0   | 7.6   |
| 16          | 15    | 18       | 2.3   | 3.5   | 2.0   | .73   | 14    | 2.2    | 3.3    | 1.8   | 3.8   | 8.9   |
| 17          | 14    | 26       | 2.3   | 3.5   | 1.8   | .73   | 11    | 2.5    | 2.9    | 2.7   | 3.1   | 5.7   |
| 18          | 18    | 43       | 2.3   | 4.0   | 1.8   | .84   | 11    | 2.0    | 2.9    | 2.4   | 2.5   | 7.3   |
| 19          | 39    | 37       | 2.4   | 4.3   | 1.8   | 2.5   | 8.9   | 6.6    | 1.8    | 6.0   | 4.3   | 6.0   |
| 20          | 49    | 22       | 2.4   | 3.3   | 1.6   | 5.7   | 9.9   | 21     | 2.9    | 7.3   | 5.4   | 4.9   |
| 21          | 47    | 17       | 2.5   | 3.3   | 1.4   | 5.2   | 22    | 19     | 2.9    | 7.9   | 4.0   | 7.6   |
| 22          | 40    | 15       | 2.9   | 3.1   | 1.3   | 3.8   | 31    | 11     | 4.7    | 5.2   | 2.7   | 3.8   |
| 23          | 46    | 13       | 3.6   | 2.9   | 1.4   | 2.9   | 14    | 4.9    | 2.0    | 3.1   | 2.2   | 3.6   |
| 24          | 49    | 9.9      | 2.9   | 2.5   | 1.3   | 12    | 21    | 2.9    | 3.1    | 2.9   | 3.6   | 2.9   |
| 25          | 47    | 7.9      | 2.9   | 2.5   | 1.6   | 15    | 25    | 2.0    | 2.0    | 2.5   | 3.6   | 2.9   |
| 26          | 46    | 7.0      | 4.0   | 2.5   | 1.8   | 14    | 14    | .94    | 1.2    | 2.5   | 2.9   | 2.9   |
| 27          | 51    | 6.3      | 5.4   | 2.5   | 1.6   | 7.0   | 17    | 5.4    | .94    | 7.0   | 3.3   | 2.9   |
| 28          | 53    | 5.7      | 4.9   | 2.4   | 1.4   | 2.5   | 12    | 1.3    | 1.4    | 6.3   | 4.0   | 3.3   |
| 29          | 46    | 5.7      | 4.9   | 2.2   | 1.4   | 2.4   | 9.2   | 1.6    | 7.9    | 3.6   | 5.7   | 2.4   |
| 30          | 42    | 5.2      | 3.3   | 2.1   | ----- | 2.4   | 5.4   | 2.9    | 5.2    | 3.1   | 6.0   | 1.8   |
| 31          | 40    | -----    | 2.2   | 2.0   | ----- | 4.7   | ----- | 2.4    | -----  | 4.5   | 7.6   | ----- |
| TOTAL       | 758.8 | 644.6    | 102.0 | 74.20 | 51.5  | 97.23 | 458.7 | 205.54 | 160.74 | 121.0 | 105.7 | 259.4 |
| MEAN        | 24.5  | 21.5     | 3.29  | 2.39  | 1.78  | 3.14  | 15.3  | 6.63   | 5.36   | 3.90  | 3.41  | 8.65  |
| MAX         | 53    | 52       | 6.0   | 4.3   | 2.7   | 15    | 33    | 21     | 27     | 11    | 7.6   | 28    |
| MIN         | 3.8   | 5.2      | 2.2   | .80   | 1.0   | .73   | 5.4   | .94    | .94    | 1.3   | 1.3   | 1.8   |
| AC-FT       | 1,510 | 1,280    | 202   | 147   | 102   | 193   | 910   | 408    | 319    | 240   | 210   | 515   |
| CAL YR 1971 | TOTAL | 3,499.20 | MEAN  | 9.59  | MAX   | 69    | MIN   | .70    | AC-FT  | 6,940 |       |       |
| WTR YR 1972 | TOTAL | 3,039.41 | MEAN  | 8.30  | MAX   | 53    | MIN   | .73    | AC-FT  | 6,030 |       |       |

## HUMBOLDT RIVER BASIN

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 mile upstream from Hot Springs Creek, 7 miles north of Cross Ranch, and 13 miles north of Deeth.

DRAINAGE AREA.--415 sq mi.

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 (from river-profile map). Prior to Nov. 3, 1950, at site 1.2 miles downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft higher.

AVERAGE DISCHARGE.--29 years, 61.1 cfs (44,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 458 cfs Mar. 19 (gage height, 4.75 ft); minimum, 2.0 cfs Aug. 23, 27, 28.  
Period of record: Maximum discharge, 4,210 cfs Feb. 12, 1962 (gage height, 7.63 ft), from rating curve extended above 1,000 cfs 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 good. Several diversions for irrigation of 7,150 acres (Humboldt Decree) above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT             | NOV       | DEC     | JAN     | FEB          | MAR    | APR    | MAY    | JUN    | JUL   | AUG  | SEP   |
|-------------|-----------------|-----------|---------|---------|--------------|--------|--------|--------|--------|-------|------|-------|
| 1           | 9.2             | 17        | 30      | 21      | 37           | 89     | 189    | 223    | 374    | 49    | 6.2  | 2.7   |
| 2           | 11              | 18        | 26      | 23      | 35           | 88     | 189    | 202    | 390    | 46    | 5.9  | 2.2   |
| 3           | 9.8             | 19        | 24      | 20      | 32           | 134    | 198    | 185    | 420    | 42    | 5.7  | 2.4   |
| 4           | 9.9             | 20        | 25      | 18      | 31           | 201    | 212    | 189    | 436    | 39    | 5.2  | 2.1   |
| 5           | 12              | 20        | 25      | 19      | 28           | 228    | 223    | 209    | 400    | 38    | 5.0  | 2.4   |
| 6           | 11              | 19        | 26      | 20      | 27           | 181    | 237    | 243    | 368    | 37    | 4.5  | 2.7   |
| 7           | 11              | 19        | 27      | 20      | 28           | 202    | 254    | 296    | 340    | 33    | 4.2  | 3.3   |
| 8           | 11              | 18        | 25      | 21      | 34           | 209    | 266    | 354    | 346    | 30    | 4.0  | 2.9   |
| 9           | 12              | 19        | 21      | 21      | 33           | 205    | 258    | 374    | 392    | 28    | 3.5  | 2.6   |
| 10          | 12              | 20        | 21      | 23      | 31           | 226    | 254    | 368    | 430    | 26    | 3.3  | 2.6   |
| 11          | 16              | 21        | 20      | 24      | 30           | 268    | 260    | 346    | 386    | 23    | 3.1  | 2.9   |
| 12          | 13              | 22        | 20      | 23      | 31           | 316    | 268    | 320    | 320    | 20    | 2.7  | 2.9   |
| 13          | 13              | 24        | 21      | 23      | 38           | 346    | 260    | 298    | 252    | 19    | 2.9  | 2.9   |
| 14          | 12              | 25        | 20      | 24      | 41           | 370    | 235    | 304    | 210    | 16    | 3.3  | 2.9   |
| 15          | 12              | 25        | 19      | 23      | 34           | 414    | 214    | 324    | 189    | 14    | 3.1  | 2.9   |
| 16          | 12              | 22        | 20      | 22      | 54           | 432    | 200    | 354    | 170    | 14    | 2.9  | 3.5   |
| 17          | 14              | 20        | 18      | 22      | 57           | 416    | 193    | 386    | 166    | 13    | 2.6  | 4.0   |
| 18          | 16              | 19        | 18      | 22      | 49           | 424    | 185    | 404    | 163    | 12    | 2.4  | 3.6   |
| 19          | 16              | 18        | 17      | 25      | 52           | 442    | 178    | 418    | 148    | 11    | 2.4  | 3.8   |
| 20          | 16              | 20        | 22      | 29      | 56           | 442    | 170    | 392    | 127    | 10    | 2.2  | 3.6   |
| 21          | 17              | 21        | 27      | 43      | 59           | 398    | 163    | 378    | 118    | 9.7   | 2.2  | 3.5   |
| 22          | 17              | 23        | 33      | 101     | 60           | 362    | 161    | 350    | 102    | 9.0   | 2.2  | 3.5   |
| 23          | 16              | 23        | 28      | 77      | 62           | 356    | 163    | 314    | 88     | 8.4   | 2.1  | 4.2   |
| 24          | 16              | 23        | 23      | 71      | 63           | 372    | 167    | 264    | 83     | 8.1   | 2.2  | 3.8   |
| 25          | 16              | 24        | 24      | 79      | 61           | 372    | 192    | 232    | 83     | 7.7   | 2.1  | 3.8   |
| 26          | 16              | 26        | 24      | 58      | 59           | 336    | 197    | 202    | 76     | 7.1   | 2.2  | 3.8   |
| 27          | 20              | 28        | 21      | 55      | 68           | 296    | 189    | 192    | 63     | 6.7   | 2.1  | 4.5   |
| 28          | 20              | 33        | 21      | 54      | 83           | 258    | 185    | 205    | 59     | 6.2   | 2.1  | 4.7   |
| 29          | 20              | 30        | 23      | 50      | 92           | 239    | 189    | 234    | 56     | 5.7   | 2.4  | 5.4   |
| 30          | 19              | 30        | 22      | 45      | -----        | 221    | 214    | 272    | 53     | 5.7   | 2.4  | 5.7   |
| 31          | 18              | -----     | 20      | 40      | -----        | 202    | -----  | 326    | -----  | 5.9   | 2.2  | ----- |
| TOTAL       | 443.9           | 666       | 711     | 1,116   | 1,365        | 9,045  | 6,263  | 9,158  | 6,808  | 600.2 | 99.3 | 101.8 |
| MEAN        | 14.3            | 22.2      | 22.9    | 36.0    | 47.1         | 292    | 209    | 295    | 227    | 19.4  | 3.20 | 3.39  |
| MAX         | 20              | 33        | 33      | 101     | 92           | 442    | 268    | 418    | 436    | 49    | 6.2  | 5.7   |
| MIN         | 9.2             | 17        | 17      | 18      | 27           | 88     | 161    | 185    | 53     | 5.7   | 2.1  | 2.1   |
| AC-FT       | 880             | 1,320     | 1,410   | 2,210   | 2,710        | 17,940 | 12,420 | 18,160 | 13,500 | 1,190 | 197  | 202   |
| CAL YR 1971 | TOTAL 41,283.61 | MEAN 113  | MAX 546 | MIN .82 | AC-FT 81,890 |        |        |        |        |       |      |       |
| WTR YR 1972 | TOTAL 36,377.20 | MEAN 99.4 | MAX 442 | MIN 2.1 | AC-FT 72,150 |        |        |        |        |       |      |       |

## PEAK DISCHARGE (BASE, 200 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 3-19 | 2200 | 4.75  | 458       | 6-04 | 0400 | 4.67  | 442       |
| 5-19 | 0200 | 4.57  | 422       |      |      |       |           |



## HUMBOLDT RIVER BASIN

87

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 downstream from Elko-Lamoille powerplant, and 3 miles south of Lamoille.

DRAINAGE AREA.--25 sq mi, 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 (from topographic map). Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums.

AVERAGE DISCHARGE.--36 years (1915-22, 1943-72), 43.8 cfs (31,730 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 617 cfs June 8 (gage height, 3.65 ft); minimum, 1.9 cfs Nov. 6.

Period of record: Maximum discharge recorded, 794 cfs June 4, 1957, caused by failure of diversion dam 200 ft upstream, but may have been exceeded in June 1917 when gage washed out; minimum, 0.10 cfs Feb. 24, 1969.

REMARKS.--Records good. Records include flow of McDermott ditch, which diverts about 200 ft upstream from station. Elko-Lamoille powerplant diverts about 6 miles upstream, but flow is returned to channel at powerplant 300 ft upstream from station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 8.6   | 6.4   | 4.4   | 4.2   | 5.4   | 5.7   | 18    | 41    | 363    | 90    | 17    | 7.2   |
| 2     | 8.5   | 6.8   | 5.0   | 4.5   | 5.2   | 7.8   | 19    | 52    | 375    | 86    | 16    | 7.2   |
| 3     | 8.0   | 6.4   | 4.8   | 4.1   | 5.3   | 11    | 18    | 68    | 365    | 81    | 15    | 6.8   |
| 4     | 8.1   | 6.4   | 4.5   | 3.7   | 5.6   | 9.8   | 17    | 85    | 331    | 76    | 14    | 6.8   |
| 5     | 8.4   | 6.4   | 5.0   | 5.0   | 5.8   | 9.9   | 18    | 105   | 315    | 72    | 13    | 21    |
| 6     | 8.6   | 5.2   | 5.6   | 5.6   | 5.7   | 10    | 19    | 118   | 306    | 67    | 12    | 15    |
| 7     | 8.5   | 5.6   | 4.8   | 5.6   | 5.9   | 10    | 18    | 111   | 322    | 61    | 12    | 11    |
| 8     | 8.3   | 5.6   | 4.5   | 5.6   | 6.2   | 10    | 18    | 122   | 409    | 54    | 11    | 9.2   |
| 9     | 8.1   | 6.0   | 4.0   | 5.6   | 6.0   | 11    | 18    | 115   | 448    | 51    | 11    | 8.9   |
| 10    | 8.2   | 6.0   | 4.3   | 5.6   | 6.0   | 11    | 18    | 109   | 332    | 51    | 10    | 8.4   |
| 11    | 8.0   | 6.0   | 4.5   | 5.6   | 6.0   | 12    | 19    | 115   | 260    | 49    | 9.9   | 9.7   |
| 12    | 8.0   | 6.8   | 4.5   | 5.6   | 6.4   | 13    | 20    | 127   | 234    | 46    | 10    | 9.1   |
| 13    | 7.9   | 6.8   | 4.3   | 6.0   | 6.4   | 13    | 19    | 148   | 215    | 45    | 11    | 8.3   |
| 14    | 7.5   | 6.4   | 4.5   | 6.0   | 6.4   | 13    | 19    | 170   | 203    | 47    | 14    | 8.0   |
| 15    | 7.6   | 6.4   | 4.7   | 5.6   | 6.4   | 13    | 19    | 194   | 190    | 46    | 12    | 7.6   |
| 16    | 7.7   | 4.8   | 4.4   | 5.6   | 6.0   | 13    | 20    | 217   | 191    | 42    | 10    | 7.6   |
| 17    | 7.6   | 5.0   | 4.3   | 5.6   | 6.0   | 14    | 21    | 220   | 174    | 39    | 9.9   | 7.2   |
| 18    | 4.8   | 4.9   | 4.1   | 6.4   | 6.0   | 15    | 21    | 211   | 166    | 36    | 9.4   | 8.0   |
| 19    | 3.4   | 4.8   | 3.8   | 6.8   | 6.0   | 15    | 20    | 190   | 159    | 35    | 9.1   | 13    |
| 20    | 4.8   | 4.5   | 4.0   | 6.0   | 6.4   | 17    | 20    | 171   | 146    | 32    | 8.7   | 10    |
| 21    | 7.6   | 5.2   | 4.5   | 6.0   | 6.0   | 18    | 20    | 147   | 147    | 29    | 8.4   | 9.0   |
| 22    | 7.6   | 4.8   | 5.2   | 6.4   | 6.0   | 21    | 22    | 133   | 131    | 26    | 7.9   | 8.5   |
| 23    | 7.2   | 4.8   | 5.6   | 5.6   | 5.6   | 22    | 24    | 126   | 116    | 23    | 7.6   | 8.0   |
| 24    | 7.2   | 5.2   | 5.6   | 5.6   | 5.6   | 22    | 28    | 133   | 107    | 21    | 7.6   | 8.0   |
| 25    | 6.8   | 4.8   | 5.6   | 6.4   | 6.0   | 23    | 30    | 149   | 100    | 21    | 7.2   | 7.6   |
| 26    | 5.6   | 6.8   | 4.8   | 6.4   | 6.4   | 21    | 29    | 176   | 94     | 19    | 6.8   | 7.6   |
| 27    | 4.4   | 6.0   | 4.0   | 6.0   | 6.0   | 20    | 30    | 212   | 95     | 18    | 6.8   | 7.6   |
| 28    | 6.4   | 6.0   | 4.3   | 5.7   | 6.4   | 21    | 33    | 249   | 97     | 18    | 8.0   | 7.6   |
| 29    | 6.4   | 6.0   | 4.3   | 5.4   | 6.4   | 20    | 39    | 293   | 95     | 17    | 8.0   | 7.6   |
| 30    | 6.4   | 5.6   | 4.3   | 5.4   | ----- | 18    | 38    | 323   | 93     | 17    | 7.2   | 7.2   |
| 31    | 6.8   | ----- | 4.0   | 5.6   | ----- | 18    | ----- | 352   | -----  | 19    | 7.2   | ----- |
| TOTAL | 223.0 | 172.4 | 142.2 | 173.2 | 173.5 | 458.2 | 672   | 4,982 | 6,579  | 1,334 | 317.7 | 268.7 |
| MEAN  | 7.19  | 5.75  | 4.59  | 5.59  | 5.98  | 14.8  | 22.4  | 161   | 219    | 43.0  | 10.2  | 8.96  |
| MAX   | 8.6   | 6.8   | 5.6   | 6.8   | 6.4   | 23    | 39    | 352   | 448    | 90    | 17    | 21    |
| MIN   | 3.4   | 4.5   | 3.8   | 3.7   | 5.2   | 5.7   | 17    | 41    | 93     | 17    | 6.8   | 6.8   |
| AC-FT | 442   | 342   | 282   | 344   | 344   | 909   | 1,330 | 9,880 | 13,050 | 2,650 | 630   | 533   |

CAL YR 1971 TOTAL 22,533.6 MEAN 61.7 MAX 519 MIN 3.4 AC-FT 44,700  
 WTR YR 1972 TOTAL 15,495.9 MEAN 42.3 MAX 448 MIN 3.4 AC-FT 30,740

Peak discharge (base, 310 cfs).--June 2 (2000) 378 cfs (3.14 ft); June 8 (2300) 617 cfs (3.65 ft)

## HUMBOLDT RIVER BASIN

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 mile downstream from Fry Canyon, 1 mile upstream from Doheny Ranch, and 9 miles northwest of North Fork.

DRAINAGE AREA.--11 sq mi, 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 (from topographic map).

AVERAGE DISCHARGE.--7 years, 11.5 cfs (8,330 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 113 cfs June 6 (gage height, 3.55 ft); minimum, 0.60 cfs Nov. 6.

Period of record: Maximum discharge, 151 cfs Jan. 18, 1971 (gage height, 3.93 ft); minimum, 0.60 cfs Oct. 27, 1970, Nov. 6, 1971.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 1.2   | 1.1   | 1.8   | 1.1   | 1.2   | 5.1   | 11    | 27    | 90    | 17    | 3.2  | 1.4   |
| 2     | 1.2   | 1.1   | 1.9   | 1.2   | 1.1   | 6.0   | 15    | 31    | 85    | 16    | 3.1  | 1.6   |
| 3     | 1.2   | 1.2   | 1.8   | 1.1   | 1.0   | 22    | 16    | 41    | 80    | 14    | 3.0  | 1.5   |
| 4     | 1.2   | 1.3   | 2.0   | 1.0   | 1.0   | 18    | 19    | 52    | 72    | 13    | 2.8  | 1.3   |
| 5     | 1.1   | 1.2   | 2.1   | 1.1   | 1.1   | 20    | 28    | 62    | 64    | 13    | 2.7  | 1.5   |
| 6     | 1.0   | 1.2   | 1.9   | 1.2   | 1.1   | 20    | 37    | 64    | 75    | 12    | 2.5  | 1.4   |
| 7     | .98   | 1.2   | 1.8   | 1.2   | 1.1   | 18    | 34    | 66    | 86    | 11    | 2.4  | 1.3   |
| 8     | .98   | 1.2   | 1.6   | 1.2   | 1.1   | 17    | 29    | 63    | 82    | 10    | 2.4  | 1.3   |
| 9     | .97   | 1.2   | 1.6   | 1.3   | 1.1   | 21    | 28    | 54    | 80    | 9.4   | 2.3  | 1.2   |
| 10    | .95   | 1.1   | 1.7   | 1.4   | 1.0   | 27    | 26    | 49    | 68    | 8.9   | 2.2  | 1.3   |
| 11    | .94   | 1.1   | 1.8   | 1.5   | 1.1   | 27    | 23    | 49    | 57    | 8.5   | 2.1  | 1.6   |
| 12    | .95   | 1.3   | 1.8   | .95   | 1.0   | 25    | 21    | 51    | 47    | 8.4   | 2.0  | 1.5   |
| 13    | .96   | 1.3   | 1.7   | 1.3   | 1.0   | 30    | 19    | 55    | 43    | 7.9   | 2.2  | 1.4   |
| 14    | 1.0   | 1.3   | 1.7   | 1.5   | 1.0   | 32    | 17    | 61    | 41    | 7.6   | 2.1  | 1.3   |
| 15    | 1.1   | 1.3   | 1.8   | 1.4   | 1.0   | 28    | 16    | 66    | 40    | 7.3   | 2.0  | 1.2   |
| 16    | 1.2   | 1.1   | 1.9   | 1.3   | 1.0   | 29    | 18    | 69    | 41    | 6.7   | 1.8  | 1.3   |
| 17    | 1.1   | 1.1   | 1.7   | 1.4   | 1.1   | 32    | 17    | 69    | 40    | 6.2   | 1.8  | 1.2   |
| 18    | 1.1   | 1.1   | 1.5   | 1.7   | 1.4   | 31    | 16    | 59    | 37    | 5.9   | 1.8  | 1.2   |
| 19    | 1.1   | 1.2   | 1.3   | 2.2   | 1.6   | 25    | 15    | 55    | 33    | 5.5   | 1.8  | 1.3   |
| 20    | 1.2   | 1.3   | 1.3   | 2.8   | 2.0   | 21    | 15    | 51    | 28    | 5.5   | 1.6  | 1.2   |
| 21    | 1.2   | 1.4   | 1.3   | 2.3   | 2.4   | 22    | 17    | 46    | 27    | 5.2   | 1.6  | 1.2   |
| 22    | 1.1   | 1.4   | 1.4   | 2.2   | 3.3   | 24    | 19    | 37    | 26    | 5.0   | 1.5  | 1.2   |
| 23    | 1.1   | 1.3   | 1.4   | 1.9   | 2.9   | 26    | 23    | 37    | 24    | 4.7   | 1.5  | 1.2   |
| 24    | 1.1   | 1.2   | 1.8   | 1.5   | 2.5   | 21    | 27    | 42    | 22    | 4.5   | 1.5  | 1.2   |
| 25    | 1.1   | 1.2   | 1.7   | 1.9   | 2.3   | 18    | 23    | 47    | 20    | 4.4   | 1.5  | 1.2   |
| 26    | 1.1   | 3.1   | .93   | 1.8   | 2.2   | 15    | 21    | 52    | 19    | 4.3   | 1.4  | 1.3   |
| 27    | 1.1   | 4.0   | 1.1   | 1.7   | 2.2   | 13    | 22    | 59    | 19    | 4.0   | 1.4  | 1.4   |
| 28    | .98   | 3.1   | 1.2   | 1.5   | 5.3   | 11    | 31    | 67    | 18    | 3.8   | 1.4  | 1.3   |
| 29    | .93   | 2.5   | 1.2   | 1.3   | 7.6   | 10    | 36    | 77    | 18    | 3.6   | 1.4  | 1.2   |
| 30    | .96   | 2.5   | 1.3   | 1.2   | ----- | 8.9   | 28    | 84    | 17    | 3.5   | 1.3  | 1.2   |
| 31    | 1.1   | ----- | 1.2   | 1.3   | ----- | 8.9   | ----- | 87    | ----- | 3.5   | 1.3  | ----- |
| TOTAL | 33.20 | 45.6  | 49.23 | 46.45 | 53.7  | 631.9 | 667   | 1,729 | 1,399 | 240.3 | 61.6 | 39.4  |
| MEAN  | 1.07  | 1.52  | 1.59  | 1.50  | 1.85  | 20.4  | 22.2  | 55.8  | 46.6  | 7.75  | 1.99 | 1.31  |
| MAX   | 1.2   | 4.0   | 2.1   | 2.8   | 7.6   | 32    | 37    | 87    | 90    | 17    | 3.2  | 1.6   |
| MIN   | .93   | 1.1   | .93   | .95   | 1.0   | 5.1   | 11    | 27    | 17    | 3.5   | 1.3  | 1.2   |
| AC-FT | 66    | 90    | 98    | 92    | 107   | 1,250 | 1,320 | 3,430 | 2,770 | 477   | 122  | 78    |

CAL YR 1971 TOTAL 6,674.81 MEAN 18.3 MAX 125 MIN .93 AC-FT 13,240  
WTR YR 1972 TOTAL 4,996.38 MEAN 13.7 MAX 90 MIN .93 AC-FT 9,910

## PEAK DISCHARGE (BASE, 65 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 5-07 | 1900 | 3.19  | 77        | 5-31 | 1800 | 3.40  | 99        |
| 5-16 | 1800 | 3.32  | 84        | 6-06 | 2100 | 3.55  | 113       |

## HUMBOLDT RIVER BASIN

89

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 downstream from Devils Gate Canyon, 16 miles north of Halleck, and 26 miles upstream from mouth.

DRAINAGE AREA.--830 sq mi, 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 above mean sea level (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.2 mile upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 250 ft downstream at same datum.

AVERAGE DISCHARGE.--37 years, 73.6 cfs (53,320 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,480 cfs Mar. 4 (gage height, 9.23 ft); minimum 6.9 cfs Aug. 26-29.

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

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

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT            | NOV   | DEC      | JAN   | FEB       | MAR    | APR     | MAY   | JUN          | JUL   | AUG   | SEP   |
|-------------|----------------|-------|----------|-------|-----------|--------|---------|-------|--------------|-------|-------|-------|
| 1           | 19             | 23    | 30       | 18    | 115       | 119    | 245     | 144   | 177          | 64    | 16    | 8.7   |
| 2           | 19             | 24    | 25       | 19    | 100       | 125    | 255     | 129   | 190          | 56    | 16    | 9.0   |
| 3           | 19             | 24    | 24       | 18    | 95        | 978    | 240     | 128   | 218          | 51    | 16    | 9.6   |
| 4           | 19             | 25    | 25       | 17    | 105       | 1,320  | 225     | 129   | 248          | 47    | 15    | 10    |
| 5           | 19             | 27    | 27       | 19    | 110       | 733    | 200     | 128   | 260          | 46    | 15    | 11    |
| 6           | 19             | 25    | 28       | 21    | 110       | 707    | 203     | 145   | 310          | 44    | 15    | 11    |
| 7           | 19             | 23    | 25       | 22    | 105       | 735    | 218     | 170   | 278          | 39    | 14    | 11    |
| 8           | 19             | 25    | 23       | 24    | 100       | 614    | 210     | 181   | 284          | 36    | 13    | 10    |
| 9           | 18             | 28    | 23       | 25    | 95        | 558    | 200     | 177   | 333          | 33    | 12    | 10    |
| 10          | 18             | 27    | 24       | 28    | 95        | 643    | 196     | 180   | 466          | 30    | 11    | 9.6   |
| 11          | 19             | 28    | 25       | 31    | 100       | 676    | 201     | 171   | 415          | 29    | 11    | 10    |
| 12          | 18             | 30    | 26       | 32    | 95        | 602    | 221     | 160   | 323          | 27    | 10    | 11    |
| 13          | 18             | 31    | 25       | 33    | 110       | 595    | 215     | 152   | 272          | 25    | 11    | 11    |
| 14          | 19             | 31    | 24       | 35    | 105       | 570    | 200     | 156   | 233          | 23    | 10    | 11    |
| 15          | 19             | 30    | 25       | 35    | 105       | 530    | 202     | 151   | 204          | 23    | 9.6   | 11    |
| 16          | 21             | 28    | 26       | 36    | 110       | 525    | 194     | 163   | 190          | 22    | 9.0   | 11    |
| 17          | 21             | 26    | 24       | 40    | 120       | 520    | 173     | 172   | 184          | 21    | 8.7   | 11    |
| 18          | 21             | 27    | 23       | 50    | 125       | 500    | 159     | 171   | 185          | 19    | 8.8   | 12    |
| 19          | 21             | 27    | 21       | 90    | 103       | 480    | 154     | 180   | 179          | 16    | 8.9   | 13    |
| 20          | 21             | 30    | 20       | 170   | 108       | 490    | 154     | 188   | 162          | 15    | 8.8   | 13    |
| 21          | 22             | 31    | 20       | 327   | 107       | 490    | 151     | 208   | 149          | 15    | 8.8   | 13    |
| 22          | 22             | 30    | 21       | 431   | 109       | 465    | 147     | 251   | 132          | 15    | 8.5   | 12    |
| 23          | 22             | 31    | 23       | 347   | 93        | 430    | 146     | 251   | 114          | 16    | 8.1   | 13    |
| 24          | 22             | 30    | 27       | 222   | 80        | 400    | 145     | 187   | 107          | 18    | 7.9   | 13    |
| 25          | 22             | 31    | 32       | 183   | 67        | 360    | 151     | 152   | 99           | 18    | 7.4   | 13    |
| 26          | 22             | 31    | 29       | 191   | 63        | 340    | 154     | 134   | 92           | 16    | 7.3   | 14    |
| 27          | 22             | 33    | 25       | 165   | 68        | 330    | 148     | 124   | 86           | 16    | 7.2   | 15    |
| 28          | 20             | 35    | 23       | 140   | 103       | 310    | 146     | 106   | 81           | 15    | 7.8   | 16    |
| 29          | 18             | 35    | 23       | 120   | 148       | 280    | 140     | 125   | 77           | 15    | 8.5   | 16    |
| 30          | 19             | 33    | 22       | 110   | -----     | 250    | 140     | 138   | 69           | 16    | 7.8   | 16    |
| 31          | 22             | ----- | 20       | 120   | -----     | 240    | -----   | 156   | -----        | 17    | 9.0   | ----- |
| TOTAL       | 619            | 859   | 758      | 3,119 | 2,949     | 15,915 | 5,533   | 5,007 | 6,117        | 843   | 327.1 | 354.9 |
| MEAN        | 20.0           | 28.6  | 24.5     | 101   | 102       | 513    | 184     | 162   | 204          | 27.2  | 10.6  | 11.8  |
| MAX         | 22             | 35    | 32       | 431   | 148       | 1,320  | 255     | 251   | 466          | 64    | 16    | 16    |
| MIN         | 18             | 23    | 20       | 17    | 63        | 119    | 140     | 106   | 69           | 15    | 7.2   | 8.7   |
| AC-FT       | 1,230          | 1,700 | 1,500    | 6,190 | 5,850     | 31,570 | 10,970  | 9,930 | 12,130       | 1,670 | 649   | 704   |
| CAL YR 1971 | TOTAL 47,538.0 |       | MEAN 130 |       | MAX 1,970 |        | MIN 13  |       | AC-FT 94,290 |       |       |       |
| WTR YR 1972 | TOTAL 42,401.0 |       | MEAN 116 |       | MAX 1,320 |        | MIN 7.2 |       | AC-FT 84,100 |       |       |       |

## PEAK DISCHARGE (BASE, 170 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE | NOTE                                           |
|------|------|-------|-----------|------|------|-------|-----------|------------------------------------------------|
| 1-22 | 2230 | 7.18  | 613       | 5-23 | 0300 | 5.87  | 274       | NOTE.--No gage-height record Dec. 5 to Jan. 5. |
| 3-04 | 0130 | 9.23  | 1,480     | 6-10 | 1300 | 6.79  | 492       |                                                |

LOCATION.--Lat 40°56'00", long 115°38'00", in SE<sup>1</sup><sub>4</sub>NE<sup>1</sup><sub>4</sub> sec.11, T.35 N., R.56 E., Elko County, on right bank 1 mile southwest of Ryndon, 1.5 miles upstream from Jackson Creek, 5 miles downstream from North Fork, and 10 miles northeast of Elko.

DRAINAGE AREA.--2,800 sq mi, 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 above mean sea level, datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 miles downstream at different datum.

AVERAGE DISCHARGE.--35 years, 235 cfs (170,260 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,660 cfs June 11 (gage height, 6.85 ft); minimum, 4.7 cfs Aug. 25-28.  
Period of record: Maximum discharge, 7,070 cfs Feb. 13, 1962 (gage height, 12.3 ft); 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 (Humboldt Decree) above station.

REVISIONS.--WSP 1714: Drainage area.

| DAY         | OCT   | NOV       | DEC   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG   | SEP   |
|-------------|-------|-----------|-------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| 1           | 38    | 56        | 155   | 100    | 205    | 480    | 608    | 293    | 384    | 206     | 16    | 5.6   |
| 2           | 43    | 72        | 123   | 106    | 180    | 462    | 577    | 288    | 458    | 178     | 16    | 5.8   |
| 3           | 51    | 75        | 141   | 95     | 175    | 549    | 566    | 283    | 556    | 158     | 15    | 5.9   |
| 4           | 53    | 86        | 133   | 85     | 182    | 1,080  | 559    | 270    | 694    | 143     | 15    | 6.3   |
| 5           | 52    | 93        | 155   | 88     | 185    | 1,450  | 531    | 273    | 788    | 129     | 14    | 7.1   |
| 6           | 51    | 91        | 155   | 90     | 181    | 1,240  | 521    | 273    | 900    | 121     | 13    | 7.4   |
| 7           | 48    | 85        | 127   | 95     | 179    | 1,180  | 528    | 283    | 988    | 112     | 12    | 7.5   |
| 8           | 46    | 86        | 92    | 100    | 177    | 1,170  | 531    | 300    | 1,130  | 102     | 11    | 7.8   |
| 9           | 45    | 89        | 110   | 105    | 175    | 1,080  | 510    | 295    | 1,330  | 94      | 11    | 8.0   |
| 10          | 45    | 90        | 115   | 112    | 173    | 1,020  | 498    | 268    | 1,520  | 85      | 10    | 7.7   |
| 11          | 45    | 88        | 110   | 116    | 173    | 1,050  | 504    | 283    | 1,640  | 78      | 9.4   | 8.2   |
| 12          | 45    | 96        | 105   | 115    | 180    | 1,050  | 535    | 338    | 1,440  | 72      | 9.6   | 8.3   |
| 13          | 45    | 109       | 108   | 123    | 195    | 1,010  | 577    | 355    | 1,160  | 66      | 8.8   | 7.8   |
| 14          | 45    | 121       | 110   | 120    | 205    | 977    | 580    | 384    | 972    | 59      | 11    | 7.9   |
| 15          | 46    | 123       | 115   | 118    | 220    | 995    | 563    | 369    | 853    | 54      | 11    | 7.6   |
| 16          | 51    | 117       | 118   | 120    | 235    | 972    | 545    | 350    | 741    | 49      | 8.3   | 7.4   |
| 17          | 57    | 106       | 120   | 125    | 240    | 945    | 507    | 345    | 655    | 46      | 7.4   | 7.0   |
| 18          | 62    | 100       | 113   | 150    | 270    | 959    | 477    | 375    | 623    | 44      | 6.8   | 7.1   |
| 19          | 64    | 92        | 105   | 170    | 381    | 954    | 447    | 411    | 537    | 40      | 6.5   | 8.1   |
| 20          | 66    | 92        | 110   | 230    | 384    | 936    | 426    | 432    | 444    | 35      | 6.2   | 7.8   |
| 21          | 65    | 104       | 113   | 310    | 402    | 900    | 405    | 477    | 432    | 32      | 5.8   | 8.4   |
| 22          | 63    | 105       | 115   | 400    | 399    | 878    | 381    | 517    | 406    | 29      | 5.8   | 8.4   |
| 23          | 58    | 108       | 117   | 500    | 366    | 864    | 372    | 587    | 372    | 27      | 5.4   | 9.0   |
| 24          | 55    | 112       | 122   | 430    | 330    | 846    | 350    | 615    | 336    | 25      | 5.3   | 7.4   |
| 25          | 55    | 115       | 132   | 450    | 310    | 810    | 328    | 528    | 302    | 25      | 5.1   | 6.2   |
| 26          | 58    | 126       | 140   | 470    | 305    | 778    | 318    | 468    | 281    | 24      | 5.0   | 6.2   |
| 27          | 59    | 144       | 120   | 430    | 313    | 730    | 308    | 417    | 258    | 21      | 4.9   | 6.4   |
| 28          | 55    | 182       | 122   | 400    | 348    | 714    | 300    | 360    | 257    | 19      | 4.9   | 7.0   |
| 29          | 56    | 177       | 125   | 315    | 444    | 718    | 298    | 315    | 240    | 17      | 5.0   | 7.2   |
| 30          | 54    | 168       | 122   | 250    | -----  | 698    | 288    | 285    | 219    | 16      | 5.2   | 7.0   |
| 31          | 52    | -----     | 107   | 220    | -----  | 647    | -----  | 288    | -----  | 16      | 5.9   | ----- |
| TOTAL       | 1,628 | 3,208     | 3,755 | 6,538  | 7,512  | 28,142 | 13,938 | 11,325 | 20,916 | 2,122   | 276.3 | 219.5 |
| MEAN        | 52.5  | 107       | 121   | 211    | 259    | 908    | 465    | 365    | 697    | 68.5    | 8.91  | 7.32  |
| MAX         | 66    | 182       | 155   | 500    | 444    | 1,450  | 608    | 615    | 1,640  | 206     | 16    | 9.0   |
| MIN         | 38    | 56        | 92    | 85     | 173    | 462    | 288    | 268    | 219    | 16      | 4.9   | 5.6   |
| AC-FT       | 3,230 | 6,360     | 7,450 | 12,970 | 14,900 | 55,820 | 27,650 | 22,460 | 41,490 | 4,210   | 548   | 435   |
| CAL YR 1971 | TOTAL | 196,802.0 | MEAN  | 539    | MAX    | 2,410  | MIN    | 9.0    | AC-FT  | 390,400 |       |       |
| WTR YR 1972 | TOTAL | 99,579.8  | MEAN  | 272    | MAX    | 1,640  | MIN</  |        |        |         |       |       |

## HUMBOLDT RIVER BASIN

91

10319500 Huntington Creek near Lee, Nev.

LOCATION.--Lat 40°33'45", long 115°43'00", in NW<sup>1</sup><sub>4</sub> sec.19, T.31 N., R.56 E., Elko County, on right bank 500 ft downstream from mouth of right bank tributary, 1.6 miles downstream from Willow Creek, 5.5 miles upstream from mouth, and 6 miles west of Lee.

DRAINAGE AREA.--770 sq mi, approximately.

PERIOD OF RECORD.--October 1948 to Sept. 30, 1972 (discontinued as a continuous-record station, continued as a crest-stage partial-record station). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,315 ft (from river-profile map).

AVERAGE DISCHARGE.--24 years, 35.9 cfs (26,010 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 162 cfs June 10 (gage height, 2.37 ft); maximum gage height, 2.59 ft Feb. 19; minimum discharge, 1.4 cfs Aug. 8-13.  
Period of record: Maximum discharge, 2,160 cfs Feb. 10, 1962 (gage height, 7.99 ft), from rating curve extended above 300 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.20 cfs Aug. 7, 1959.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of 17,700 acres (Humboldt Decree) above station.

REVISIONS (WATER YEARS).--WSP 1244: 1949 (M). WSP 1344: 1953.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN     | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|------|-------|
| 1     | 8.4   | 20    | 26    | 20    | 37    | 85    | 64    | 13    | 27      | 7.2   | 2.7  | 2.7   |
| 2     | 9.0   | 17    | 25    | 22    | 35    | 90    | 67    | 13    | 35      | 7.2   | 2.7  | 2.5   |
| 3     | 9.0   | 17    | 22    | 22    | 35    | 95    | 66    | 12    | 49      | 6.6   | 2.6  | 2.3   |
| 4     | 9.0   | 17    | 21    | 19    | 38    | 104   | 63    | 12    | 72      | 6.6   | 2.4  | 2.7   |
| 5     | 9.0   | 17    | 22    | 17    | 45    | 107   | 59    | 13    | 71      | 6.6   | 2.2  | 4.4   |
| 6     | 9.0   | 17    | 24    | 18    | 62    | 99    | 57    | 14    | 57      | 5.5   | 2.1  | 4.6   |
| 7     | 9.0   | 17    | 23    | 20    | 71    | 95    | 57    | 16    | 51      | 5.0   | 1.8  | 3.4   |
| 8     | 9.0   | 16    | 20    | 23    | 80    | 91    | 56    | 15    | 60      | 5.5   | 1.6  | 3.0   |
| 9     | 9.0   | 17    | 18    | 24    | 75    | 87    | 55    | 12    | 117     | 5.5   | 1.5  | 2.5   |
| 10    | 8.4   | 17    | 18    | 27    | 64    | 85    | 56    | 12    | 142     | 5.0   | 1.5  | 2.3   |
| 11    | 7.8   | 16    | 20    | 29    | 44    | 88    | 59    | 12    | 78      | 5.0   | 1.6  | 2.4   |
| 12    | 8.4   | 20    | 21    | 31    | 31    | 90    | 70    | 12    | 57      | 5.0   | 1.5  | 3.3   |
| 13    | 8.4   | 25    | 20    | 32    | 37    | 89    | 68    | 12    | 48      | 4.5   | 2.3  | 2.9   |
| 14    | 7.8   | 26    | 19    | 31    | 39    | 90    | 64    | 11    | 40      | 4.1   | 3.8  | 2.9   |
| 15    | 9.0   | 24    | 20    | 28    | 40    | 93    | 63    | 11    | 35      | 3.3   | 2.6  | 3.0   |
| 16    | 12    | 21    | 21    | 26    | 63    | 92    | 59    | 10    | 32      | 3.3   | 2.0  | 2.9   |
| 17    | 11    | 21    | 21    | 26    | 95    | 92    | 57    | 9.6   | 28      | 2.9   | 2.1  | 2.7   |
| 18    | 11    | 19    | 20    | 27    | 105   | 95    | 53    | 12    | 28      | 3.7   | 2.0  | 3.1   |
| 19    | 10    | 19    | 18    | 29    | 128   | 98    | 49    | 14    | 28      | 4.1   | 1.9  | 5.9   |
| 20    | 10    | 19    | 17    | 32    | 118   | 96    | 48    | 14    | 23      | 3.3   | 1.9  | 4.4   |
| 21    | 11    | 20    | 18    | 46    | 116   | 93    | 46    | 16    | 19      | 4.1   | 2.1  | 4.0   |
| 22    | 11    | 20    | 21    | 64    | 113   | 91    | 42    | 24    | 17      | 3.7   | 2.0  | 3.7   |
| 23    | 11    | 19    | 25    | 73    | 100   | 90    | 34    | 22    | 15      | 3.7   | 1.8  | 3.3   |
| 24    | 11    | 20    | 30    | 78    | 94    | 89    | 30    | 20    | 13      | 3.3   | 1.8  | 3.3   |
| 25    | 12    | 21    | 32    | 73    | 83    | 86    | 30    | 17    | 11      | 3.3   | 1.8  | 3.5   |
| 26    | 12    | 24    | 31    | 67    | 90    | 83    | 23    | 15    | 9.6     | 2.9   | 1.8  | 3.9   |
| 27    | 12    | 33    | 28    | 58    | 94    | 75    | 20    | 14    | 9.0     | 2.6   | 1.8  | 4.2   |
| 28    | 15    | 32    | 25    | 45    | 101   | 76    | 17    | 14    | 7.8     | 2.5   | 2.1  | 4.5   |
| 29    | 16    | 29    | 23    | 40    | 97    | 77    | 16    | 17    | 9.0     | 2.9   | 2.6  | 4.5   |
| 30    | 16    | 28    | 22    | 38    | ----- | 69    | 14    | 17    | 7.8     | 2.9   | 2.4  | 4.7   |
| 31    | 15    | ----- | 20    | 40    | ----- | 65    | ----- | 20    | -----   | 2.9   | 2.3  | ----- |
| TOTAL | 326.2 | 628   | 691   | 1,125 | 2,130 | 2,755 | 1,462 | 445.6 | 1,196.2 | 134.7 | 65.3 | 103.5 |
| MEAN  | 10.5  | 20.9  | 22.3  | 36.3  | 73.4  | 88.9  | 48.7  | 14.4  | 39.9    | 4.35  | 2.11 | 3.45  |
| MAX   | 16    | 33    | 32    | 78    | 128   | 107   | 70    | 24    | 142     | 7.2   | 3.8  | 5.9   |
| MIN   | 7.8   | 16    | 17    | 17    | 31    | 65    | 14    | 9.6   | 7.8     | 2.5   | 1.5  | 2.3   |
| AC-FT | 647   | 1,250 | 1,370 | 2,230 | 4,220 | 5,460 | 2,900 | 884   | 2,370   | 267   | 130  | 205   |

CAL YR 1971 TOTAL 29,966.0 MEAN 82.1 MAX 760 MIN 3.6 AC-FT 59,440  
WTR YR 1972 TOTAL 11,062.5 MEAN 30.2 MAX 142 MIN 1.5 AC-FT 21,940

Peak discharge (base, 200 cfs).--No peak above base.



## 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<sup>1</sup>SW<sup>1</sup> sec.5, T.32 N., R.55 E., Elko County, on left bank 1.5 miles upstream from Dixie Creek and 10.5 miles south of Elko.

DRAINAGE AREA.--1,150 sq mi, 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 (from topographic map).

AVERAGE DISCHARGE.--24 years, 113 cfs (81,870 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 780 cfs June 9 (gage height, 4.37 ft); Maximum gage height, 4.52 ft Jan. 19 (backwater from ice); minimum discharge, 4.4 cfs Aug. 26.

Period of record: Maximum discharge, 2,760 cfs Feb. 11, 1962 (gage height, 7.2 ft), from rating curve extended above 2,000 cfs on basis of flope-area measurement of peak flow; minimum daily, 0.10 cfs Sept. 9, 1959.

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

REVISIONS (WATER YEARS).--WSP 1284: 1952 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|
| 1     | 23    | 34    | 50    | 42    | 42    | 128    | 125   | 94     | 494    | 76    | 7.6   | 7.5   |
| 2     | 23    | 35    | 40    | 45    | 35    | 139    | 133   | 103    | 499    | 72    | 7.3   | 8.2   |
| 3     | 23    | 33    | 30    | 45    | 37    | 183    | 130   | 125    | 521    | 70    | 6.6   | 6.9   |
| 4     | 24    | 33    | 29    | 36    | 41    | 194    | 125   | 155    | 538    | 61    | 6.3   | 7.4   |
| 5     | 24    | 33    | 32    | 33    | 45    | 194    | 119   | 175    | 521    | 57    | 6.2   | 12    |
| 6     | 24    | 31    | 35    | 35    | 50    | 190    | 119   | 205    | 510    | 52    | 5.9   | 17    |
| 7     | 25    | 31    | 33    | 38    | 53    | 179    | 119   | 201    | 494    | 49    | 5.5   | 15    |
| 8     | 25    | 33    | 28    | 40    | 55    | 168    | 119   | 205    | 593    | 44    | 5.4   | 14    |
| 9     | 25    | 31    | 27    | 43    | 52    | 165    | 116   | 201    | 745    | 41    | 5.6   | 14    |
| 10    | 24    | 31    | 30    | 50    | 45    | 165    | 122   | 194    | 674    | 39    | 5.8   | 13    |
| 11    | 24    | 31    | 32    | 60    | 42    | 172    | 119   | 175    | 532    | 34    | 5.8   | 15    |
| 12    | 24    | 35    | 30    | 70    | 40    | 179    | 133   | 155    | 455    | 32    | 5.8   | 17    |
| 13    | 24    | 42    | 28    | 75    | 45    | 183    | 130   | 168    | 406    | 29    | 7.0   | 15    |
| 14    | 24    | 45    | 25    | 70    | 50    | 183    | 122   | 201    | 362    | 27    | 8.4   | 14    |
| 15    | 25    | 43    | 28    | 65    | 55    | 187    | 119   | 244    | 330    | 24    | 7.7   | 14    |
| 16    | 30    | 38    | 31    | 58    | 65    | 190    | 116   | 276    | 300    | 22    | 7.0   | 13    |
| 17    | 29    | 37    | 32    | 60    | 75    | 198    | 111   | 295    | 286    | 20    | 7.1   | 12    |
| 18    | 28    | 35    | 31    | 70    | 95    | 214    | 103   | 310    | 257    | 20    | 7.3   | 12    |
| 19    | 28    | 34    | 30    | 80    | 120   | 218    | 103   | 295    | 239    | 16    | 7.2   | 16    |
| 20    | 27    | 35    | 29    | 105   | 140   | 218    | 103   | 281    | 218    | 19    | 6.2   | 17    |
| 21    | 28    | 37    | 30    | 140   | 152   | 209    | 96    | 262    | 198    | 25    | 6.7   | 16    |
| 22    | 28    | 39    | 35    | 180   | 149   | 205    | 94    | 227    | 175    | 15    | 6.2   | 15    |
| 23    | 27    | 41    | 50    | 170   | 136   | 214    | 89    | 205    | 162    | 13    | 5.4   | 15    |
| 24    | 28    | 41    | 60    | 150   | 125   | 201    | 89    | 190    | 155    | 11    | 4.9   | 15    |
| 25    | 29    | 43    | 70    | 120   | 116   | 190    | 94    | 187    | 130    | 9.7   | 5.0   | 15    |
| 26    | 27    | 44    | 74    | 100   | 119   | 175    | 89    | 198    | 114    | 10    | 4.7   | 16    |
| 27    | 29    | 60    | 65    | 80    | 136   | 158    | 84    | 244    | 103    | 9.9   | 5.4   | 17    |
| 28    | 29    | 60    | 60    | 65    | 152   | 155    | 86    | 295    | 94     | 8.9   | 5.9   | 18    |
| 29    | 28    | 55    | 55    | 55    | 149   | 155    | 91    | 351    | 91     | 7.9   | 6.9   | 17    |
| 30    | 28    | 52    | 47    | 47    | ----- | 142    | 91    | 422    | 84     | 7.5   | 7.7   | 17    |
| 31    | 33    | ----- | 40    | 43    | ----- | 133    | ----- | 450    | -----  | 8.1   | 8.0   | ----- |
| TOTAL | 817   | 1,172 | 1,216 | 2,270 | 2,416 | 5,584  | 3,289 | 7,089  | 10,280 | 930.0 | 198.5 | 421.0 |
| MEAN  | 26.4  | 39.1  | 39.2  | 73.2  | 83.3  | 180    | 110   | 229    | 343    | 30.0  | 6.40  | 14.0  |
| MAX   | 33    | 60    | 74    | 180   | 152   | 218    | 133   | 450    | 745    | 76    | 8.4   | 18    |
| MIN   | 23    | 31    | 25    | 33    | 35    | 128    | 84    | 94     | 84     | 7.5   | 4.7   | 6.9   |
| AC-FT | 1,620 | 2,320 | 2,410 | 4,500 | 4,790 | 11,080 | 6,520 | 14,060 | 20,390 | 1,840 | 394   | 835   |

CAL YR 1971 TOTAL 81,795.0 MEAN 224 MAX 1,280 MIN 13 AC-FT 162,200

WTR YR 1972 TOTAL 35,682.5 MEAN 97.5 MAX 745 MIN 4.7 AC-FT 70,780

Peak discharge (base, 400 cfs).--June 4 (0900) 576 cfs (4.04 ft); June 9 (1400) 780 cfs (4.37 ft)

## HUMBOLDT RIVER BASIN

93

10320500 South Fork Humboldt River near Elko, Nev.

LOCATION.--Lat 40°43'25", long 115°49'45", in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec.30, T.33 N., R.55 E., Elko County, on right bank 0.1 mile upstream from head of canyon, 1.7 miles downstream from highway bridge, 8.8 miles upstream from mouth, and 10 miles southwest of Elko.

DRAINAGE AREA.--1,310 sq mi, 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 current year. 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 (from topographic map). Prior to November 1913, nonrecording gages at several sites about 1 mile 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 mile upstream at different datum. October 1932 to Oct. 12, 1955, water-stage recorder at site 900 ft upstream at datum 1.97 ft higher.

AVERAGE DISCHARGE.--68 years, 126 cfs (91,290 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 835 cfs June 9 (gage height, 4.72 ft); maximum gage height, 4.90 ft Feb. 21 (backwater from ice); minimum discharge, 0.98 cfs Aug. 26.

Period of record: Maximum discharge, 2,830 cfs Feb. 11, 1962 (gage height, 8.00 ft), from rating curve extended above 1,500 cfs on basis of slope-area measurement of peak flow; maximum gage height observed, 12.0 ft Jan. 26, 1914, site and datum then in use (ice jam); no flow at times in many years.

REMARKS.--Records excellent except those for winter periods, which are poor. Many diversions for irrigation of 37,200 acres (Humboldt Decree) above station. Station is below all diversions except those of Hunter & Banks ranch 3 miles 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|
| 1     | 18    | 41    | 47    | 43    | 40    | 147    | 129   | 93     | 472    | 70    | 5.8   | 4.0   |
| 2     | 18    | 37    | 35    | 45    | 35    | 215    | 136   | 98     | 502    | 66    | 5.4   | 4.8   |
| 3     | 18    | 32    | 30    | 43    | 36    | 332    | 132   | 115    | 526    | 64    | 4.7   | 3.6   |
| 4     | 18    | 31    | 28    | 35    | 40    | 267    | 129   | 142    | 538    | 54    | 4.1   | 3.8   |
| 5     | 18    | 31    | 35    | 32    | 45    | 242    | 123   | 159    | 528    | 50    | 3.5   | 7.1   |
| 6     | 18    | 29    | 38    | 35    | 50    | 234    | 123   | 183    | 508    | 47    | 3.1   | 12    |
| 7     | 19    | 28    | 30    | 37    | 55    | 213    | 123   | 188    | 489    | 43    | 2.7   | 12    |
| 8     | 19    | 31    | 27    | 37    | 55    | 198    | 122   | 188    | 597    | 38    | 2.5   | 10    |
| 9     | 18    | 29    | 27    | 40    | 50    | 192    | 118   | 188    | 782    | 33    | 2.5   | 11    |
| 10    | 18    | 29    | 30    | 45    | 45    | 194    | 123   | 183    | 721    | 32    | 2.8   | 9.8   |
| 11    | 18    | 29    | 32    | 55    | 40    | 196    | 125   | 171    | 547    | 29    | 2.9   | 11    |
| 12    | 18    | 32    | 30    | 70    | 42    | 196    | 138   | 153    | 458    | 26    | 2.9   | 13    |
| 13    | 19    | 41    | 28    | 75    | 45    | 201    | 136   | 163    | 394    | 24    | 3.8   | 12    |
| 14    | 19    | 46    | 25    | 65    | 50    | 196    | 127   | 186    | 345    | 21    | 5.7   | 9.9   |
| 15    | 16    | 39    | 29    | 60    | 60    | 196    | 123   | 220    | 308    | 20    | 5.1   | 9.6   |
| 16    | 25    | 36    | 31    | 55    | 70    | 194    | 120   | 254    | 270    | 18    | 4.4   | 9.0   |
| 17    | 25    | 36    | 32    | 60    | 85    | 198    | 115   | 264    | 255    | 18    | 4.2   | 8.1   |
| 18    | 24    | 32    | 31    | 65    | 100   | 208    | 108   | 288    | 230    | 17    | 4.4   | 7.5   |
| 19    | 23    | 32    | 30    | 75    | 120   | 213    | 108   | 276    | 212    | 15    | 4.5   | 10    |
| 20    | 23    | 32    | 29    | 100   | 140   | 210    | 108   | 259    | 195    | 16    | 3.8   | 12    |
| 21    | 23    | 35    | 31    | 140   | 160   | 203    | 104   | 244    | 174    | 23    | 3.3   | 12    |
| 22    | 23    | 35    | 35    | 180   | 157   | 198    | 99    | 209    | 158    | 15    | 3.2   | 11    |
| 23    | 23    | 38    | 40    | 170   | 149   | 201    | 95    | 192    | 147    | 12    | 1.8   | 11    |
| 24    | 24    | 38    | 50    | 140   | 136   | 188    | 91    | 177    | 142    | 9.8   | 1.7   | 11    |
| 25    | 24    | 41    | 70    | 105   | 129   | 186    | 96    | 172    | 122    | 8.7   | 1.5   | 11    |
| 26    | 24    | 43    | 75    | 90    | 132   | 173    | 95    | 178    | 106    | 8.1   | 1.6   | 11    |
| 27    | 26    | 57    | 65    | 70    | 149   | 157    | 90    | 213    | 96     | 7.7   | 1.3   | 12    |
| 28    | 29    | 62    | 60    | 60    | 173   | 153    | 90    | 255    | 86     | 7.2   | 2.7   | 13    |
| 29    | 27    | 55    | 55    | 50    | 171   | 155    | 90    | 322    | 83     | 5.8   | 3.5   | 13    |
| 30    | 31    | 52    | 45    | 45    | ----- | 142    | 91    | 378    | 78     | 4.5   | 3.8   | 12    |
| 31    | 32    | ----- | 40    | 45    | ----- | 134    | ----- | 409    | -----  | 5.6   | 5.1   | ----- |
| TOTAL | 678   | 1,129 | 1,190 | 2,167 | 2,559 | 6,132  | 3,407 | 6,520  | 10,069 | 808.4 | 108.3 | 297.2 |
| MEAN  | 21.9  | 37.6  | 38.4  | 69.9  | 88.2  | 198    | 114   | 210    | 336    | 26.1  | 3.49  | 9.91  |
| MAX   | 32    | 62    | 75    | 180   | 173   | 332    | 138   | 409    | 782    | 70    | 5.8   | 13    |
| MIN   | 16    | 28    | 25    | 32    | 35    | 134    | 90    | 93     | 78     | 4.5   | 1.3   | 3.6   |
| AC-FT | 1,340 | 2,240 | 2,360 | 4,300 | 5,080 | 12,160 | 6,760 | 12,930 | 19,970 | 1,600 | 215   | 590   |

CAL YR 1971 TOTAL 82,533.0 MEAN 226 MAX 1,370 MIN 11 AC-FT 163,700  
WTR YR 1972 TOTAL 35,064.9 MEAN 95.8 MAX 782 MIN 1.3 AC-FT 69,550

Peak discharge (base, 410 cfs).--June 4 (1000) 576 cfs (4.18 ft); June 9 (1600) 835 cfs (4.72 ft).

LOCATION.--Lat 40°43'40", long 116°00'30", in SE<sup>1</sup>/<sub>4</sub> sec.21, T.33 N., R.53 E., Elko County, on right bank 1.0 mile downstream from Tonka Creek, 4.5 miles southwest of Moleen, 5 miles upstream from Susie Creek, 5.5 miles east of Carlin, and 15 miles southwest of Elko.

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

AVERAGE DISCHARGE.--29 years, 337 cfs (244,200 acre-ft per year).

REMARKS.--Records good except those for winter periods, which are poor. Many diversions for irrigation of 143,000 acres (Humboldt Decree) above station.

| DAY         | JCT           | NOV      | DEC       | JAN    | FEB           | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|---------------|----------|-----------|--------|---------------|--------|--------|--------|--------|-------|-------|-------|
| 1           | 57            | 82       | 213       | 130    | 297           | 590    | 870    | 366    | 691    | 261   | 33    | 16    |
| 2           | 57            | 95       | 197       | 145    | 232           | 628    | 800    | 361    | 766    | 248   | 31    | 16    |
| 3           | 62            | 93       | 177       | 120    | 228           | 709    | 760    | 366    | 852    | 228   | 29    | 16    |
| 4           | 65            | 100      | 164       | 115    | 247           | 880    | 730    | 382    | 935    | 207   | 28    | 20    |
| 5           | 67            | 108      | 175       | 118    | 249           | 915    | 720    | 398    | 1,050  | 189   | 27    | 21    |
| 6           | 63            | 112      | 191       | 120    | 244           | 975    | 700    | 412    | 1,100  | 175   | 26    | 22    |
| 7           | 71            | 114      | 184       | 125    | 237           | 1,300  | 550    | 439    | 1,160  | 162   | 25    | 26    |
| 8           | 71            | 114      | 112       | 130    | 218           | 1,540  | 660    | 434    | 1,300  | 149   | 23    | 27    |
| 9           | 70            | 114      | 130       | 140    | 228           | 1,380  | 570    | 446    | 1,590  | 137   | 22    | 25    |
| 10          | 70            | 114      | 140       | 145    | 228           | 1,350  | 650    | 450    | 1,720  | 124   | 21    | 24    |
| 11          | 71            | 112      | 150       | 150    | 230           | 1,310  | 660    | 422    | 1,640  | 112   | 21    | 25    |
| 12          | 71            | 116      | 145       | 152    | 230           | 1,250  | 675    | 413    | 1,670  | 102   | 20    | 26    |
| 13          | 71            | 126      | 145       | 157    | 265           | 1,240  | 694    | 461    | 1,710  | 91    | 21    | 29    |
| 14          | 74            | 136      | 145       | 160    | 265           | 1,250  | 702    | 503    | 1,540  | 83    | 24    | 27    |
| 15          | 74            | 144      | 150       | 155    | 288           | 1,250  | 713    | 554    | 1,350  | 77    | 24    | 26    |
| 16          | 81            | 164      | 155       | 157    | 312           | 1,210  | 697    | 594    | 1,190  | 71    | 22    | 25    |
| 17          | 85            | 154      | 158       | 165    | 331           | 1,190  | 662    | 594    | 1,060  | 65    | 21    | 23    |
| 18          | 84            | 148      | 152       | 185    | 382           | 1,190  | 634    | 596    | 948    | 60    | 20    | 23    |
| 19          | 85            | 140      | 140       | 230    | 425           | 1,180  | 603    | 613    | 838    | 55    | 20    | 27    |
| 20          | 89            | 136      | 145       | 310    | 502           | 1,160  | 574    | 634    | 771    | 66    | 20    | 23    |
| 21          | 91            | 136      | 154       | 400    | 586           | 1,160  | 547    | 561    | 648    | 68    | 19    | 23    |
| 22          | 92            | 140      | 150       | 542    | 628           | 1,160  | 522    | 664    | 570    | 65    | 18    | 22    |
| 23          | 88            | 142      | 150       | 578    | 637           | 1,130  | 487    | 585    | 528    | 55    | 17    | 22    |
| 24          | 89            | 146      | 160       | 510    | 619           | 1,100  | 461    | 710    | 490    | 50    | 17    | 22    |
| 25          | 89            | 140      | 170       | 574    | 594           | 1,070  | 444    | 743    | 447    | 46    | 16    | 22    |
| 26          | 86            | 146      | 180       | 628    | 562           | 1,060  | 429    | 728    | 399    | 42    | 15    | 25    |
| 27          | 88            | 164      | 155       | 582    | 526           | 1,000  | 411    | 594    | 358    | 40    | 14    | 28    |
| 28          | 86            | 191      | 160       | 518    | 526           | 950    | 394    | 679    | 320    | 40    | 15    | 29    |
| 29          | 84            | 211      | 165       | 382    | 558           | 900    | 376    | 672    | 301    | 38    | 16    | 31    |
| 30          | 89            | 218      | 160       | 322    | -----         | 910    | 369    | 679    | 295    | 37    | 15    | 29    |
| 31          | 81            | -----    | 150       | 300    | -----         | 900    | -----  | 581    | -----  | 35    | 15    | ----- |
| TOTAL       | 2,398         | 4,056    | 4,922     | 8,445  | 10,874        | 33,837 | 18,264 | 17,034 | 28,237 | 3,178 | 655   | 720   |
| MEAN        | 77.4          | 135      | 159       | 272    | 375           | 1,092  | 609    | 549    | 941    | 103   | 21.1  | 24.0  |
| MAX         | 91            | 218      | 213       | 628    | 637           | 1,540  | 870    | 743    | 1,720  | 261   | 33    | 31    |
| MIN         | 57            | 82       | 112       | 115    | 218           | 590    | 369    | 361    | 295    | 35    | 14    | 16    |
| AC-FT       | 4,760         | 8,050    | 9,760     | 16,750 | 21,570        | 57,120 | 36,230 | 33,790 | 56,010 | 6,300 | 1,300 | 1,430 |
| CAL YR 1971 | TOTAL 277,205 | MEAN 759 | MAX 3,370 | MIN 43 | AC-FT 549,800 |        |        |        |        |       |       |       |

## HUMBOLDT RIVER BASIN

95

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 mile downstream from Southern Pacific Railroad bridge, 0.5 mile downstream from Palisade, and 0.8 mile upstream from Pine Creek.

DRAINAGE AREA.--5,010 sq mi, 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 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.--65 years (1902-6, 1911-72) 364 cfs (263,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,840 cfs June 10 (gage height, 5.33 ft); minimum 22 cfs Aug. 28.

Period of record: Maximum discharge, 6,610 cfs Feb. 12, 1962 (gage height, 10.0 ft); minimum, 2 cfs Aug. 25-28, 1931.

Maximum stage known, about 17 ft (present datum) about Feb. 28, 1910, from old photographs and written statement of resident witnesses (discharge, about 17,000 cfs, from rating curve extended above 7,000 cfs by logarithmic plotting).

REMARKS.--Records good. Diversions for irrigation of 148,000 acres (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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG   | SEP   |
|-------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| 1           | 82    | 107     | 259    | 150    | 300    | 685    | 952    | 423    | 685    | 310     | 48    | 28    |
| 2           | 82    | 119     | 238    | 160    | 270    | 820    | 916    | 411    | 745    | 289     | 45    | 29    |
| 3           | 83    | 119     | 227    | 140    | 260    | 1,120  | 880    | 419    | 826    | 271     | 43    | 29    |
| 4           | 89    | 125     | 202    | 130    | 265    | 1,160  | 832    | 419    | 928    | 247     | 42    | 29    |
| 5           | 91    | 131     | 213    | 135    | 270    | 1,140  | 814    | 443    | 1,050  | 221     | 40    | 35    |
| 6           | 92    | 135     | 221    | 135    | 277    | 1,370  | 796    | 451    | 1,110  | 204     | 40    | 39    |
| 7           | 96    | 139     | 227    | 140    | 280    | 1,710  | 772    | 488    | 1,150  | 191     | 39    | 37    |
| 8           | 98    | 142     | 125    | 150    | 259    | 1,550  | 755    | 467    | 1,260  | 174     | 37    | 39    |
| 9           | 96    | 142     | 150    | 155    | 262    | 1,480  | 755    | 475    | 1,550  | 159     | 35    | 37    |
| 10          | 94    | 139     | 155    | 170    | 265    | 1,470  | 750    | 484    | 1,750  | 146     | 34    | 37    |
| 11          | 96    | 142     | 165    | 174    | 265    | 1,420  | 745    | 463    | 1,670  | 135     | 34    | 39    |
| 12          | 94    | 146     | 160    | 169    | 292    | 1,380  | 760    | 451    | 1,690  | 125     | 34    | 40    |
| 13          | 94    | 155     | 150    | 189    | 310    | 1,390  | 790    | 459    | 1,750  | 115     | 35    | 40    |
| 14          | 94    | 164     | 155    | 181    | 328    | 1,390  | 796    | 475    | 1,630  | 107     | 39    | 39    |
| 15          | 94    | 169     | 165    | 174    | 350    | 1,350  | 808    | 511    | 1,450  | 100     | 37    | 37    |
| 16          | 102   | 191     | 165    | 179    | 381    | 1,310  | 796    | 560    | 1,280  | 92      | 37    | 37    |
| 17          | 107   | 186     | 170    | 181    | 431    | 1,300  | 755    | 570    | 1,140  | 87      | 35    | 34    |
| 18          | 106   | 184     | 160    | 199    | 480    | 1,310  | 725    | 578    | 1,020  | 82      | 34    | 34    |
| 19          | 107   | 174     | 150    | 253    | 529    | 1,300  | 690    | 592    | 880    | 75      | 31    | 39    |
| 20          | 107   | 167     | 160    | 319    | 606    | 1,300  | 660    | 610    | 808    | 76      | 32    | 40    |
| 21          | 111   | 169     | 165    | 471    | 685    | 1,300  | 630    | 645    | 715    | 83      | 31    | 34    |
| 22          | 109   | 171     | 165    | 529    | 690    | 1,260  | 596    | 650    | 620    | 83      | 31    | 35    |
| 23          | 107   | 176     | 169    | 670    | 675    | 1,240  | 560    | 670    | 578    | 75      | 29    | 34    |
| 24          | 109   | 176     | 179    | 588    | 660    | 1,200  | 538    | 690    | 538    | 66      | 29    | 34    |
| 25          | 111   | 174     | 199    | 615    | 635    | 1,190  | 511    | 730    | 498    | 64      | 28    | 34    |
| 26          | 111   | 179     | 204    | 685    | 588    | 1,160  | 493    | 730    | 451    | 61      | 26    | 34    |
| 27          | 113   | 197     | 175    | 650    | 592    | 1,100  | 467    | 695    | 427    | 58      | 24    | 39    |
| 28          | 111   | 224     | 180    | 596    | 630    | 1,050  | 455    | 685    | 384    | 56      | 23    | 40    |
| 29          | 106   | 250     | 185    | 450    | 665    | 1,020  | 435    | 670    | 353    | 53      | 28    | 40    |
| 30          | 111   | 268     | 180    | 350    | -----  | 1,000  | 423    | 680    | 346    | 53      | 28    | 40    |
| 31          | 109   | -----   | 165    | 320    | -----  | 976    | -----  | 685    | -----  | 51      | 26    | ----- |
| TOTAL       | 3,112 | 4,960   | 5,583  | 9,407  | 12,500 | 38,451 | 20,855 | 17,279 | 29,282 | 3,909   | 1,054 | 1,082 |
| MEAN        | 100   | 165     | 180    | 303    | 431    | 1,240  | 695    | 557    | 976    | 126     | 34.0  | 36.1  |
| MAX         | 113   | 268     | 259    | 685    | 690    | 1,710  | 952    | 730    | 1,750  | 310     | 48    | 40    |
| MIN         | 82    | 107     | 125    | 130    | 259    | 685    | 423    | 411    | 346    | 51      | 23    | 28    |
| AC-FT       | 6,170 | 9,840   | 11,070 | 18,660 | 24,790 | 76,270 | 41,370 | 34,270 | 58,080 | 7,750   | 2,090 | 2,150 |
| CAL YR 1971 | TOTAL | 309,349 | MEAN   | 848    | MAX    | 3,570  | MIN    | 62     | AC-FT  | 613,600 |       |       |
| WTR YR 1972 | TOTAL | 147,474 | MEAN   | 403    | MAX    | 1,750  | MIN    | 23     | AC-FT  | 292,500 |       |       |

## 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 miles east of Argenta and 15.5 miles east of Battle Mountain.

DRAINAGE AREA.--7,490 sq mi, approximately.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (from topographic map).

AVERAGE DISCHARGE.--26 years, 318 cfs (230,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,630 cfs Mar. 8 (gage height, 7.55 ft); maximum gage height, 7.82 ft (backwater from ice); minimum discharge, 4.7 cfs Sept. 9.

Period of record: Maximum discharge, 6,000 cfs Feb. 15, 1962 (gage height, 10.78 ft), on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft May 2, 1952; minimum daily discharge 0.20 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV       | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG   | SEP   |
|-------------|-------|-----------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| 1           | 60    | 98        | 203    | 155    | 300    | 657    | 978    | 405    | 471    | 303     | 16    | 6.5   |
| 2           | 64    | 99        | 198    | 160    | 280    | 685    | 950    | 399    | 478    | 282     | 15    | 6.6   |
| 3           | 70    | 101       | 198    | 145    | 270    | 846    | 922    | 390    | 524    | 263     | 14    | 6.3   |
| 4           | 68    | 104       | 200    | 125    | 265    | 1,070  | 886    | 384    | 587    | 245     | 13    | 5.8   |
| 5           | 68    | 108       | 184    | 130    | 270    | 1,080  | 838    | 384    | 657    | 221     | 13    | 6.3   |
| 6           | 68    | 111       | 186    | 132    | 280    | 1,130  | 794    | 387    | 750    | 199     | 12    | 6.4   |
| 7           | 69    | 113       | 194    | 134    | 290    | 1,380  | 766    | 390    | 802    | 186     | 12    | 6.3   |
| 8           | 72    | 117       | 170    | 138    | 310    | 1,600  | 742    | 405    | 842    | 172     | 12    | 5.7   |
| 9           | 73    | 122       | 138    | 145    | 300    | 1,530  | 727    | 402    | 982    | 154     | 11    | 4.9   |
| 10          | 72    | 120       | 136    | 160    | 290    | 1,500  | 709    | 399    | 1,180  | 140     | 9.7   | 5.5   |
| 11          | 72    | 122       | 126    | 180    | 290    | 1,490  | 695    | 390    | 1,320  | 132     | 9.1   | 8.7   |
| 12          | 73    | 124       | 136    | 190    | 295    | 1,450  | 695    | 381    | 1,350  | 124     | 8.7   | 8.7   |
| 13          | 73    | 133       | 145    | 185    | 305    | 1,430  | 709    | 369    | 1,400  | 113     | 8.4   | 8.5   |
| 14          | 73    | 138       | 140    | 180    | 330    | 1,430  | 713    | 375    | 1,480  | 82      | 8.7   | 7.3   |
| 15          | 74    | 144       | 145    | 175    | 345    | 1,410  | 713    | 384    | 1,410  | 73      | 8.0   | 7.0   |
| 16          | 81    | 146       | 150    | 175    | 370    | 1,380  | 716    | 408    | 1,270  | 67      | 8.3   | 8.3   |
| 17          | 81    | 156       | 160    | 162    | 385    | 1,350  | 702    | 414    | 1,140  | 61      | 9.0   | 7.6   |
| 18          | 85    | 164       | 150    | 200    | 420    | 1,340  | 674    | 420    | 1,030  | 57      | 9.1   | 8.0   |
| 19          | 88    | 162       | 130    | 220    | 480    | 1,320  | 650    | 423    | 926    | 53      | 8.9   | 9.4   |
| 20          | 88    | 158       | 140    | 240    | 548    | 1,310  | 629    | 435    | 822    | 51      | 8.8   | 13    |
| 21          | 88    | 156       | 150    | 354    | 608    | 1,300  | 597    | 450    | 754    | 48      | 8.7   | 13    |
| 22          | 90    | 154       | 155    | 581    | 646    | 1,290  | 573    | 454    | 664    | 47      | 8.5   | 13    |
| 23          | 90    | 160       | 165    | 647    | 657    | 1,260  | 552    | 450    | 608    | 39      | 8.3   | 14    |
| 24          | 90    | 162       | 180    | 592    | 650    | 1,220  | 520    | 461    | 566    | 34      | 7.9   | 14    |
| 25          | 91    | 164       | 190    | 560    | 643    | 1,200  | 492    | 478    | 517    | 31      | 7.5   | 15    |
| 26          | 93    | 166       | 195    | 525    | 622    | 1,180  | 471    | 499    | 468    | 26      | 7.3   | 15    |
| 27          | 94    | 170       | 175    | 546    | 604    | 1,150  | 454    | 499    | 411    | 23      | 6.9   | 16    |
| 28          | 98    | 176       | 180    | 600    | 618    | 1,100  | 438    | 482    | 378    | 21      | 6.8   | 16    |
| 29          | 98    | 184       | 190    | 450    | 646    | 1,060  | 423    | 475    | 343    | 19      | 6.5   | 17    |
| 30          | 94    | 192       | 180    | 350    | -----  | 1,030  | 408    | 468    | 315    | 19      | 6.2   | 17    |
| 31          | 99    | -----     | 170    | 310    | -----  | 1,010  | -----  | 471    | -----  | 17      | 5.8   | ----- |
| TOTAL       | 2,497 | 4,224     | 5,159  | 8,846  | 12,317 | 38,188 | 20,136 | 13,131 | 24,445 | 3,302   | 295.1 | 296.8 |
| MEAN        | 80.5  | 141       | 166    | 285    | 425    | 1,232  | 671    | 424    | 815    | 107     | 9.52  | 9.89  |
| MAX         | 99    | 192       | 203    | 647    | 657    | 1,600  | 978    | 499    | 1,480  | 303     | 16    | 17    |
| MIN         | 60    | 98        | 126    | 125    | 265    | 657    | 408    | 369    | 315    | 17      | 5.8   | 4.9   |
| AC-FT       | 4,950 | 8,380     | 10,230 | 17,550 | 24,430 | 75,750 | 39,940 | 26,050 | 48,490 | 6,550   | 585   | 589   |
| CAL YR 1971 | TOTAL | 296,970.0 | MEAN   | 814    | MAX    | 4,050  | MIN    | 50     | AC-FT  | 589,000 |       |       |
| WTR YR 1972 | TOTAL | 132,836.9 | MEAN   | 363    | MAX    | 1,600  | MIN    | 4.9    | AC-FT  | 263,500 |       |       |



## HUMBOLDT RIVER BASIN

97

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 miles northeast of Battle Mountain.

DRAINAGE AREA.--875 sq mi, 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 (estimated from nearby U.S. Coast and Geodetic Survey bench mark). Prior to Mar. 26, 1918, nonrecording gage at site about 11 miles upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mile upstream (at different datum Mar. 26, 1918, to Jan. 3, 1946, at datum 9.45 ft higher Jan. 4, 1946, to July 23, 1964, at datum 7.35 ft higher July 23, 1964, to Oct. 31, 1968, and at datum 6.34 ft higher Nov. 1, 1968, to Oct. 28, 1970).

AVERAGE DISCHARGE.--32 years (1918-23, 1945-72), 33.0 cfs (23,910 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,070 cfs Jan. 21 (gage height, 5.61 ft); no flow Aug. 8-14.

Period of record: Maximum discharge, 4,800 cfs Feb. 11, 1962 (gage height, 6.89 ft) from rating curve extended above 2,500 cfs 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 (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 miles upstream, and by Willow Creek Reservoir (usable capacity, 18,000 acre-ft).

REVISIONS (WATER YEARS).--WSP 1214: 1950 (M); WSP 1714: 1959.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT             | NOV   | DEC       | JAN     | FEB     | MAR   | APR     | MAY   | JUN          | JUL   | AUG  | SEP   |
|-------------|-----------------|-------|-----------|---------|---------|-------|---------|-------|--------------|-------|------|-------|
| 1           | 1.7             | 1.5   | 7.7       | 8.0     | 12      | 83    | 60      | 4.8   | 29           | 9.2   | .31  | .35   |
| 2           | 1.4             | 2.4   | 6.2       | 8.0     | 10      | 71    | 62      | 5.3   | 29           | 8.4   | .15  | .35   |
| 3           | 1.2             | 3.0   | 5.0       | 7.0     | 9.5     | 172   | 68      | 7.7   | 30           | 7.7   | .06  | .50   |
| 4           | 1.2             | 4.0   | 4.5       | 6.0     | 10      | 320   | 75      | 8.4   | 31           | 6.5   | .05  | .50   |
| 5           | 1.2             | 4.4   | 5.3       | 5.5     | 11      | 314   | 77      | 8.8   | 40           | 5.0   | .08  | .71   |
| 6           | 1.2             | 3.0   | 6.0       | 5.5     | 12      | 188   | 85      | 9.2   | 33           | 4.2   | .05  | .89   |
| 7           | 1.1             | 2.4   | 5.5       | 6.0     | 13      | 163   | 86      | 10    | 33           | 3.4   | .02  | .89   |
| 8           | 1.0             | 3.2   | 5.3       | 6.5     | 13      | 148   | 79      | 14    | 38           | 2.8   | 0    | .96   |
| 9           | 1.0             | 4.6   | 4.5       | 7.5     | 13      | 140   | 71      | 18    | 51           | 2.4   | 0    | .96   |
| 10          | 1.0             | 4.2   | 3.5       | 9.0     | 15      | 155   | 68      | 18    | 67           | 2.0   | 0    | .89   |
| 11          | 1.0             | 3.6   | 3.8       | 10      | 18      | 155   | 70      | 19    | 60           | 1.1   | 0    | 2.8   |
| 12          | 1.0             | 4.6   | 4.5       | 11      | 21      | 155   | 71      | 20    | 48           | 1.0   | 0    | 4.0   |
| 13          | 1.0             | 6.2   | 4.0       | 11      | 42      | 142   | 72      | 21    | 37           | .89   | 0    | 4.0   |
| 14          | 1.0             | 6.5   | 5.0       | 9.5     | 203     | 136   | 74      | 20    | 29           | .77   | 0    | 3.0   |
| 15          | 1.0             | 6.8   | 5.5       | 8.5     | 121     | 142   | 74      | 19    | 26           | .71   | .05  | 2.2   |
| 16          | 1.8             | 5.9   | 5.0       | 7.0     | 206     | 138   | 70      | 19    | 24           | .60   | .04  | 1.7   |
| 17          | 2.0             | 3.8   | 4.8       | 7.0     | 233     | 144   | 70      | 19    | 22           | .45   | .03  | 1.4   |
| 18          | 1.5             | 3.2   | 4.5       | 10      | 114     | 150   | 63      | 22    | 20           | .40   | .03  | 1.5   |
| 19          | 1.4             | 4.4   | 4.5       | 30      | 71      | 148   | 57      | 26    | 19           | .40   | .05  | 1.7   |
| 20          | 1.2             | 4.6   | 4.8       | 80      | 72      | 144   | 58      | 33    | 17           | .31   | .05  | 1.5   |
| 21          | 1.2             | 6.2   | 5.5       | 245     | 65      | 138   | 51      | 43    | 16           | .35   | .12  | 1.5   |
| 22          | 1.2             | 8.4   | 6.0       | 281     | 117     | 128   | 37      | 53    | 15           | .31   | .23  | 1.5   |
| 23          | 1.1             | 6.5   | 7.0       | 188     | 112     | 117   | 21      | 52    | 13           | .31   | .19  | 1.5   |
| 24          | 1.1             | 7.1   | 8.0       | 76      | 70      | 110   | 14      | 47    | 11           | .27   | .19  | 1.5   |
| 25          | 1.4             | 6.8   | 8.5       | 57      | 48      | 102   | 9.2     | 42    | 11           | .19   | .23  | 1.7   |
| 26          | 1.4             | 7.1   | 9.0       | 45      | 37      | 92    | 7.7     | 38    | 10           | .12   | .27  | 1.8   |
| 27          | 1.4             | 9.2   | 8.5       | 31      | 72      | 83    | 6.5     | 36    | 10           | .12   | .27  | 3.0   |
| 28          | 1.1             | 9.6   | 7.5       | 25      | 126     | 79    | 5.6     | 31    | 10           | .10   | .23  | 4.0   |
| 29          | 1.1             | 8.4   | 7.0       | 20      | 180     | 77    | 5.3     | 28    | 10           | .08   | .15  | 3.4   |
| 30          | 1.0             | 9.2   | 7.0       | 15      | -----   | 68    | 4.8     | 30    | 10           | .08   | .23  | 3.0   |
| 31          | 1.7             | ----- | 7.5       | 16      | -----   | 62    | -----   | 30    | -----        | .23   | .40  | ----- |
| TOTAL       | 38.6            | 160.8 | 181.4     | 1,252.0 | 2,046.5 | 4,264 | 1,572.1 | 752.2 | 797          | 60.39 | 3.48 | 53.70 |
| MEAN        | 1.25            | 5.36  | 5.85      | 40.4    | 70.6    | 138   | 52.4    | 24.3  | 26.6         | 1.95  | .11  | 1.79  |
| MAX         | 2.0             | 9.6   | 9.0       | 281     | 233     | 320   | 86      | 53    | 67           | 9.2   | .40  | 4.0   |
| MIN         | 1.0             | 1.5   | 3.5       | 5.5     | 9.5     | 62    | 4.8     | 4.8   | 10           | .08   | 0    | .35   |
| AC-FT       | 77              | 319   | 360       | 2,480   | 4,060   | 8,460 | 3,120   | 1,490 | 1,580        | 120   | 6.9  | 107   |
| CAL YR 1971 | TOTAL 14,373.00 |       | MEAN 39.4 |         | MAX 227 |       | MIN .50 |       | AC-FT 28,510 |       |      |       |
| WTR YR 1972 | TOTAL 11,182.17 |       | MEAN 30.6 |         | MAX 320 |       | MIN 0   |       | AC-FT 22,180 |       |      |       |

## PEAK DISCHARGE (BASE, 75 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-21 | 0130 | 5.61  | 1,070     | 2-29 | 1400 | 4.05  | 281       |
| 2-16 | 0030 | 5.11  | 740       | 3-5  | 0100 | 4.38  | 382       |
| 2-22 | 1000 | 3.69  | 190       | 4-7  | 0500 | 3.24  | 89        |

## HUMBOLDT RIVER BASIN

10325000 Humboldt River at Battle Mountain, Nev.

LOCATION.--Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, 30 ft downstream from bridge on State Highway 18A, on left bank 2 miles north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 sq mi, 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 (from topographic map). Prior to Mar. 1, 1921, nonrecording gage 1.3 miles upstream and Mar. 1, 1921, to Apr. 19, 1924, nonrecording gage 0.8 mile upstream, both at different datums. Oct. 1945 to Sept. 20, 1972, water-stage recorder at site 1.0 mile upstream at datum 4.79 ft higher.

AVERAGE DISCHARGE.--30 years (1896-97, 1921-23, 1945-72), 332 cfs (240,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,590 cfs Mar. 11 (gage height, 7.93 ft); minimum daily about 8.0 cfs Sept. 10.  
Period of record: Maximum daily discharge, 5,800 cfs 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 months and period of no gage-height record, 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 (Humboldt Decree).

REVISIONS (WATER YEARS).--WSP 1564: 1897-98, 1923.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG  | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|------|-------|
| 1     | 64    | 113   | 216    | 165    | 355    | 751    | 1,090  | 381    | 388    | 337   | 21   | 9.5   |
| 2     | 69    | 112   | 218    | 170    | 330    | 795    | 1,050  | 377    | 386    | 313   | 19   | 10    |
| 3     | 75    | 110   | 217    | 150    | 310    | 889    | 1,010  | 371    | 400    | 289   | 18   | 10    |
| 4     | 79    | 115   | 224    | 135    | 300    | 1,060  | 976    | 366    | 445    | 268   | 17   | 10    |
| 5     | 78    | 117   | 213    | 135    | 308    | 1,210  | 935    | 360    | 517    | 246   | 16   | 9.8   |
| 6     | 78    | 118   | 208    | 138    | 320    | 1,240  | 884    | 360    | 568    | 222   | 15   | 11    |
| 7     | 79    | 122   | 213    | 140    | 335    | 1,320  | 854    | 362    | 619    | 201   | 15   | 11    |
| 8     | 81    | 125   | 160    | 150    | 340    | 1,390  | 826    | 361    | 688    | 187   | 14   | 10    |
| 9     | 83    | 134   | 150    | 165    | 335    | 1,400  | 803    | 365    | 830    | 171   | 13   | 9.0   |
| 10    | 82    | 132   | 140    | 185    | 320    | 1,420  | 788    | 358    | 996    | 154   | 13   | 8.0   |
| 11    | 81    | 131   | 140    | 200    | 320    | 1,560  | 763    | 355    | 1,170  | 141   | 12   | 9.5   |
| 12    | 81    | 134   | 149    | 210    | 330    | 1,550  | 759    | 350    | 1,250  | 135   | 12   | 13    |
| 13    | 81    | 140   | 155    | 205    | 350    | 1,520  | 776    | 322    | 1,270  | 125   | 12   | 14    |
| 14    | 82    | 147   | 147    | 200    | 370    | 1,510  | 786    | 321    | 1,300  | 115   | 11   | 14    |
| 15    | 82    | 151   | 140    | 200    | 380    | 1,500  | 785    | 333    | 1,320  | 105   | 12   | 12    |
| 16    | 88    | 153   | 145    | 205    | 422    | 1,470  | 787    | 337    | 1,290  | 85    | 12   | 11    |
| 17    | 91    | 157   | 145    | 220    | 443    | 1,440  | 782    | 350    | 1,210  | 75    | 12   | 13    |
| 18    | 93    | 167   | 150    | 240    | 492    | 1,420  | 754    | 346    | 1,100  | 70    | 12   | 12    |
| 19    | 95    | 169   | 147    | 265    | 544    | 1,410  | 713    | 360    | 985    | 65    | 14   | 13    |
| 20    | 97    | 167   | 162    | 305    | 569    | 1,400  | 682    | 360    | 875    | 60    | 14   | 14    |
| 21    | 97    | 164   | 177    | 373    | 621    | 1,390  | 654    | 375    | 783    | 57    | 14   | 17    |
| 22    | 98    | 160   | 180    | 514    | 679    | 1,400  | 628    | 396    | 707    | 53    | 14   | 17    |
| 23    | 99    | 163   | 190    | 728    | 710    | 1,380  | 609    | 400    | 633    | 51    | 14   | 19    |
| 24    | 99    | 169   | 200    | 864    | 728    | 1,350  | 588    | 401    | 607    | 49    | 13   | 20    |
| 25    | 98    | 171   | 215    | 830    | 737    | 1,320  | 557    | 404    | 570    | 45    | 13   | 21    |
| 26    | 100   | 174   | 225    | 765    | 725    | 1,300  | 531    | 386    | 532    | 40    | 12   | 22    |
| 27    | 103   | 179   | 195    | 700    | 693    | 1,280  | 504    | 376    | 490    | 35    | 12   | 23    |
| 28    | 105   | 188   | 200    | 710    | 680    | 1,240  | 469    | 387    | 442    | 30    | 12   | 25    |
| 29    | 101   | 193   | 205    | 630    | 717    | 1,200  | 414    | 392    | 397    | 28    | 11   | 25    |
| 30    | 98    | 205   | 200    | 480    | -----  | 1,160  | 388    | 390    | 361    | 23    | 10   | 24    |
| 31    | 112   | ----- | 180    | 390    | -----  | 1,120  | -----  | 390    | -----  | 22    | 10   | ----- |
| TOTAL | 2,749 | 4,480 | 5,606  | 10,767 | 13,763 | 40,395 | 22,145 | 11,392 | 23,129 | 3,797 | 419  | 436.8 |
| MEAN  | 88.7  | 149   | 181    | 347    | 475    | 1,303  | 738    | 367    | 771    | 122   | 13.5 | 14.6  |
| MAX   | 112   | 205   | 225    | 864    | 737    | 1,560  | 1,090  | 404    | 1,320  | 337   | 21   | 25    |
| MIN   | 64    | 110   | 140    | 135    | 300    | 751    | 388    | 321    | 361    | 22    | 10   | 8.0   |
| AC-FT | 5,450 | 8,890 | 11,120 | 21,360 | 27,300 | 80,120 | 43,920 | 22,600 | 45,880 | 7,530 | 831  | 866   |

CAL YR 1971 TOTAL 324,604.0 MEAN 889 MAX 3,890 MIN 55 AC-FT 643,900  
WTR YR 1972 TOTAL 139,078.8 MEAN 380 MAX 1,560 MIN 8.0 AC-FT 275,900

NOTE.--No gage-height record July 12 to Sept. 20.

## HUMBOLDT RIVER BASIN

99

10325500 Reese River near Ione, Nev.

LOCATION.--Lat 38°51'00", long 117°28'00", in NW¼ sec.3, T.11 N., R.40 E., Nye County, on right bank 2.5 miles upstream from Indian Creek, 8 miles southeast of Ione, and 58 miles southwest of Austin.

DRAINAGE AREA.--53 sq mi, 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 (from topographic map). Prior to Sept. 9, 1955, at site 200 ft upstream at datum 2.85 ft higher.

AVERAGE DISCHARGE.--21 years, 10.5 cfs (7,610 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 22 cfs Aug. 13 (gage height, 0.93 ft); minimum, 0.36 cfs Nov. 6, 7.

Period of record: Maximum discharge, 512 cfs July 27, 1956 (gage height, 4.86 ft), from rating curve extended above 45 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT                                                 | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY  | JUN   | JUL  | AUG   | SEP   |
|-------------|-----------------------------------------------------|-------|-------|------|-------|-------|-------|------|-------|------|-------|-------|
| 1           | 3.6                                                 | 2.9   | 3.5   | 3.5  | 2.0   | 3.6   | 9.0   | 10   | 14    | 4.2  | 1.5   | 1.8   |
| 2           | 3.6                                                 | 2.7   | 4.3   | 3.5  | 2.0   | 5.7   | 8.6   | 10   | 14    | 4.0  | 1.3   | 1.8   |
| 3           | 3.5                                                 | 3.0   | 3.6   | 3.0  | 2.2   | 7.3   | 8.5   | 11   | 14    | 3.8  | 1.2   | 1.4   |
| 4           | 3.5                                                 | 3.1   | 3.5   | 2.7  | 2.4   | 10    | 8.5   | 12   | 14    | 3.6  | 1.1   | 1.8   |
| 5           | 3.4                                                 | 3.0   | 3.5   | 3.3  | 2.5   | 9.7   | 8.4   | 12   | 13    | 3.5  | 1.1   | 5.8   |
| 6           | 3.4                                                 | 2.4   | 4.0   | 3.3  | 2.8   | 9.8   | 8.3   | 12   | 14    | 3.3  | 1.0   | 3.6   |
| 7           | 3.3                                                 | 3.1   | 3.3   | 3.5  | 2.9   | 9.7   | 8.2   | 11   | 15    | 3.1  | .92   | 2.7   |
| 8           | 3.3                                                 | 3.1   | 3.1   | 3.7  | 2.9   | 11    | 7.9   | 12   | 14    | 3.0  | .83   | 2.2   |
| 9           | 3.3                                                 | 3.5   | 3.5   | 3.6  | 2.9   | 13    | 8.5   | 12   | 14    | 2.9  | .82   | 2.0   |
| 10          | 3.2                                                 | 3.4   | 3.5   | 4.5  | 2.6   | 13    | 8.8   | 12   | 13    | 3.0  | .88   | 2.0   |
| 11          | 3.2                                                 | 3.5   | 3.5   | 4.3  | 2.9   | 13    | 8.9   | 12   | 12    | 2.9  | .81   | 2.3   |
| 12          | 3.2                                                 | 2.7   | 3.5   | 4.3  | 3.6   | 13    | 8.1   | 12   | 11    | 2.6  | .87   | 2.2   |
| 13          | 3.1                                                 | 2.1   | 3.5   | 3.6  | 3.3   | 13    | 7.6   | 12   | 10    | 2.3  | 4.9   | 2.0   |
| 14          | 3.1                                                 | 2.5   | 3.5   | 2.9  | 3.3   | 12    | 7.8   | 12   | 10    | 2.1  | 4.1   | 1.9   |
| 15          | 3.2                                                 | 2.1   | 3.5   | 3.2  | 3.1   | 12    | 8.7   | 13   | 9.6   | 2.0  | 2.0   | 1.7   |
| 16          | 3.9                                                 | 3.2   | 3.6   | 3.3  | 3.1   | 12    | 8.9   | 14   | 8.8   | 1.8  | 1.8   | 1.6   |
| 17          | 2.9                                                 | 3.9   | 4.0   | 3.3  | 3.2   | 13    | 8.4   | 14   | 8.5   | 1.7  | 1.6   | 1.5   |
| 18          | 3.0                                                 | 3.0   | 3.8   | 3.8  | 3.6   | 13    | 8.2   | 14   | 8.5   | 1.7  | 1.4   | 1.5   |
| 19          | 3.3                                                 | 3.4   | 3.3   | 3.3  | 3.7   | 12    | 6.6   | 15   | 8.1   | 1.6  | 1.5   | 1.9   |
| 20          | 4.3                                                 | 3.6   | 3.3   | 3.3  | 4.0   | 13    | 6.9   | 15   | 7.8   | 1.8  | 1.3   | 1.8   |
| 21          | 4.4                                                 | 4.8   | 3.6   | 3.3  | 4.0   | 13    | 7.8   | 15   | 7.1   | 2.0  | 1.3   | 1.6   |
| 22          | 4.0                                                 | 4.2   | 3.3   | 3.3  | 3.9   | 13    | 7.8   | 14   | 7.4   | 1.9  | 1.2   | 1.6   |
| 23          | 4.0                                                 | 3.4   | 3.1   | 2.9  | 3.6   | 11    | 8.5   | 13   | 7.8   | 1.6  | 1.1   | 1.7   |
| 24          | 4.1                                                 | 4.2   | 3.6   | 2.1  | 4.0   | 11    | 8.9   | 12   | 7.1   | 1.5  | 1.1   | 1.6   |
| 25          | 4.0                                                 | 3.6   | 3.8   | 2.2  | 4.1   | 11    | 8.5   | 12   | 6.1   | 1.4  | 1.1   | 1.6   |
| 26          | 3.4                                                 | 4.5   | 5.2   | 2.2  | 4.3   | 9.9   | 8.7   | 12   | 5.7   | 1.4  | 1.0   | 1.7   |
| 27          | 3.7                                                 | 3.8   | 3.6   | 2.1  | 4.3   | 8.1   | 9.0   | 13   | 5.7   | 1.3  | 1.0   | 1.6   |
| 28          | 1.9                                                 | 3.6   | 2.9   | 2.1  | 4.5   | 7.9   | 9.6   | 13   | 5.1   | 1.2  | 1.4   | 1.7   |
| 29          | 2.0                                                 | 3.2   | 2.9   | 2.0  | 4.5   | 9.6   | 9.9   | 13   | 4.8   | 1.1  | 1.5   | 1.7   |
| 30          | 2.4                                                 | 3.6   | 2.9   | 2.0  | ----- | 8.1   | 9.1   | 13   | 4.5   | 1.4  | 1.3   | 1.7   |
| 31          | 3.2                                                 | ----- | 2.9   | 2.1  | ----- | 8.8   | ----- | 13   | ----- | 2.2  | 1.7   | ----- |
| TOTAL       | 104.4                                               | 99.1  | 109.1 | 96.2 | 96.2  | 330.2 | 252.6 | 390  | 294.6 | 71.9 | 44.63 | 60.0  |
| MEAN        | 3.37                                                | 3.30  | 3.52  | 3.10 | 3.32  | 10.7  | 8.42  | 12.6 | 9.82  | 2.32 | 1.44  | 2.00  |
| MAX         | 4.4                                                 | 4.8   | 5.2   | 4.5  | 4.5   | 13    | 9.9   | 15   | 15    | 4.2  | 4.9   | 5.8   |
| MIN         | 1.9                                                 | 2.1   | 2.9   | 2.0  | 2.0   | 3.6   | 6.6   | 10   | 4.5   | 1.1  | .81   | 1.4   |
| AC-FT       | 207                                                 | 197   | 216   | 191  | 191   | 655   | 501   | 774  | 584   | 143  | 89    | 119   |
| CAL YR 1971 | TOTAL 3,830.70 MEAN 10.5 MAX 46 MIN 1.9 AC-FT 7,600 |       |       |      |       |       |       |      |       |      |       |       |
| WTR YR 1972 | TOTAL 1,948.93 MEAN 5.32 MAX 15 MIN .81 AC-FT 3,870 |       |       |      |       |       |       |      |       |      |       |       |

Peak discharge (base, 130 cfs).--No peak above base.

## HUMBOLDT RIVER BASIN

10327500 Humboldt River at Comus, Nev.

LOCATION.--Lat 41°00'00", long 117°19'00", in SE<sup>1</sup>/<sub>4</sub> sec.14, T.36 N., R.41 E., Humboldt County, on left bank at Comus siding of Southern Pacific Railroad, 1.0 mile upstream from Kelley Creek, 9 miles northeast of Golconda, and 32 miles northwest of Battle Mountain.

DRAINAGE AREA.--12,100 sq mi, 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 above mean sea level (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 miles 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 half a mile of present site at different datum.

AVERAGE DISCHARGE.--58 years, 286 cfs (207,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs Mar. 26, 27 (gage height, 7.88 ft); minimum, 0.70 cfs Sept. 6, 7, 9-12. Period of record: Maximum discharge, 5,860 cfs May 6, 1952 (gage height, 11.52 ft); no flow at times in some years.

REMARKS.--Records good. Many diversions above station for irrigation (Humboldt Decree, 206,000 acres; 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 54    | 87    | 172   | 150    | 434    | 628    | 1,140  | 398    | 371    | 346   | 31    | 1.5   |
| 2     | 55    | 94    | 182   | 150    | 360    | 650    | 1,130  | 384    | 364    | 317   | 27    | 1.4   |
| 3     | 56    | 99    | 188   | 140    | 320    | 683    | 1,110  | 372    | 367    | 296   | 24    | 1.3   |
| 4     | 57    | 97    | 193   | 120    | 300    | 710    | 1,090  | 354    | 370    | 278   | 21    | 1.3   |
| 5     | 60    | 97    | 188   | 130    | 270    | 746    | 1,070  | 334    | 375    | 263   | 20    | 1.2   |
| 6     | 63    | 100   | 196   | 125    | 256    | 791    | 1,050  | 328    | 392    | 246   | 19    | .97   |
| 7     | 63    | 103   | 163   | 130    | 257    | 830    | 1,020  | 320    | 426    | 229   | 18    | .75   |
| 8     | 63    | 106   | 130   | 135    | 289    | 869    | 975    | 312    | 414    | 211   | 17    | .80   |
| 9     | 63    | 107   | 110   | 150    | 328    | 851    | 928    | 312    | 465    | 196   | 16    | .70   |
| 10    | 65    | 110   | 124   | 165    | 348    | 899    | 887    | 310    | 553    | 183   | 15    | .70   |
| 11    | 66    | 115   | 123   | 180    | 340    | 945    | 851    | 306    | 632    | 187   | 14    | .72   |
| 12    | 67    | 120   | 142   | 195    | 332    | 970    | 824    | 310    | 671    | 163   | 13    | .94   |
| 13    | 67    | 123   | 138   | 190    | 336    | 1,010  | 806    | 312    | 726    | 150   | 12    | 1.6   |
| 14    | 67    | 126   | 135   | 185    | 346    | 1,070  | 791    | 304    | 774    | 147   | 11    | 2.2   |
| 15    | 67    | 129   | 130   | 180    | 362    | 1,050  | 788    | 287    | 804    | 131   | 9.5   | 3.0   |
| 16    | 70    | 132   | 135   | 185    | 392    | 1,100  | 785    | 268    | 825    | 117   | 8.0   | 3.5   |
| 17    | 74    | 135   | 140   | 200    | 416    | 1,130  | 773    | 271    | 843    | 104   | 7.0   | 2.9   |
| 18    | 76    | 139   | 137   | 220    | 434    | 1,170  | 755    | 304    | 863    | 95    | 6.5   | 2.4   |
| 19    | 76    | 142   | 135   | 240    | 440    | 1,190  | 746    | 291    | 887    | 86    | 5.5   | 2.1   |
| 20    | 79    | 148   | 145   | 266    | 490    | 1,190  | 722    | 312    | 902    | 79    | 4.8   | 1.7   |
| 21    | 81    | 150   | 148   | 310    | 503    | 1,190  | 686    | 316    | 874    | 74    | 4.2   | 1.4   |
| 22    | 81    | 151   | 153   | 346    | 528    | 1,200  | 630    | 316    | 798    | 70    | 3.5   | 1.1   |
| 23    | 83    | 148   | 165   | 326    | 555    | 1,190  | 608    | 352    | 716    | 66    | 3.0   | 1.1   |
| 24    | 84    | 147   | 174   | 366    | 585    | 1,200  | 578    | 386    | 644    | 62    | 2.5   | .98   |
| 25    | 87    | 150   | 195   | 410    | 608    | 1,200  | 555    | 381    | 591    | 59    | 2.2   | .92   |
| 26    | 87    | 154   | 195   | 436    | 628    | 1,200  | 530    | 380    | 547    | 53    | 2.1   | 1.4   |
| 27    | 88    | 157   | 180   | 505    | 638    | 1,200  | 485    | 378    | 506    | 48    | 2.1   | 2.8   |
| 28    | 89    | 160   | 180   | 523    | 635    | 1,200  | 463    | 362    | 459    | 44    | 2.2   | 4.0   |
| 29    | 79    | 166   | 183   | 518    | 630    | 1,180  | 445    | 362    | 413    | 40    | 2.2   | 5.7   |
| 30    | 85    | 168   | 175   | 500    | -----  | 1,170  | 422    | 370    | 379    | 37    | 1.8   | 6.6   |
| 31    | 92    | ----- | 160   | 483    | -----  | 1,160  | -----  | 372    | -----  | 35    | 1.6   | ----- |
| TOTAL | 2,244 | 3,860 | 4,914 | 8,159  | 12,360 | 31,612 | 23,643 | 10,364 | 17,951 | 4,412 | 326.7 | 57.68 |
| MEAN  | 72.4  | 129   | 159   | 263    | 426    | 1,020  | 788    | 334    | 598    | 142   | 10.5  | 1.92  |
| MAX   | 92    | 168   | 196   | 523    | 638    | 1,200  | 1,140  | 398    | 902    | 346   | 31    | 6.6   |
| MIN   | 54    | 87    | 110   | 120    | 256    | 628    | 422    | 268    | 364    | 35    | 1.6   | .70   |
| AC-FT | 4,450 | 7,660 | 9,750 | 16,180 | 24,520 | 62,700 | 46,900 | 20,560 | 35,610 | 8,750 | 648   | 114   |

CAL YR 1971 TOTAL 255,934.00 MEAN 701 MAX 3,210 MIN 51 AC-FT 507,600  
 WTR YR 1972 TOTAL 119,903.38 MEAN 328 MAX 1,200 MIN .70 AC-FT 237,800

## HUMBOLDT RIVER BASIN

101

10328000 Pole Creek near Golconda, Nev.

LOCATION.--Lat 40°54'50", long 117°31'50", in NE 1/4 sec.13, T.35 N., R.39 E., Humboldt County, on right bank 2.0 miles upstream from Devils Canyon, 3 miles southwest of Interstate 80, 4 miles southwest of Golconda, about 5 miles upstream from the Humboldt River, and about 18 miles east of Winnemucca.

DRAINAGE AREA.--10.7 sq mi.

PERIOD OF RECORD.--October 1960 to current year. Monthly discharge only January to September 1963.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (from topographic map). Prior to Oct. 21, 1960, gage was about 0.2 mile downstream at different datum (below Southern Pacific Railroad pipeline diversion). Oct. 21, 1960, to Aug. 5, 1961, at site 300 ft downstream at different datum.

AVERAGE DISCHARGE.--12 years, 4.45 cfs (3,220 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 22 cfs May 6 (gage height, 2.83 ft); no flow Aug. 12, 13.

Period of record: Maximum discharge, about 4,000 cfs 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | .50   | 1.6   | 1.3   | 2.0   | .20   | 3.3   | 5.0   | 9.0   | 11    | 1.5   | .16  | .04   |
| 2     | .46   | 1.7   | 1.8   | 2.0   | .20   | 9.7   | 5.8   | 10    | 10    | 1.4   | .13  | .04   |
| 3     | .42   | 1.7   | 1.6   | 1.0   | .30   | 17    | 4.6   | 12    | 10    | 1.3   | .15  | .05   |
| 4     | .39   | 1.9   | 1.7   | .40   | .28   | 16    | 5.0   | 14    | 9.0   | 1.2   | .13  | .04   |
| 5     | .39   | 1.9   | 2.5   | .60   | .28   | 18    | 5.5   | 17    | 8.6   | 1.1   | .09  | .12   |
| 6     | .36   | 1.2   | 3.6   | .70   | .26   | 18    | 5.5   | 18    | 8.3   | 1.0   | .05  | .20   |
| 7     | .36   | 1.6   | .51   | .80   | .28   | 18    | 5.3   | 19    | 8.1   | .94   | .04  | .09   |
| 8     | .30   | 1.6   | .61   | 1.0   | .26   | 13    | 5.0   | 18    | 7.2   | .88   | .04  | .06   |
| 9     | .30   | 1.6   | .80   | 1.1   | .26   | 13    | 5.0   | 16    | 8.2   | .82   | .03  | .03   |
| 10    | .33   | 1.7   | .60   | 1.2   | .24   | 13    | 4.8   | 15    | 6.6   | .79   | .02  | .04   |
| 11    | .39   | 1.9   | .59   | 1.2   | .26   | 11    | 4.8   | 15    | 5.6   | .72   | .01  | .44   |
| 12    | .46   | 2.7   | .98   | 1.4   | .26   | 11    | 4.3   | 15    | 5.2   | .69   | 0    | .29   |
| 13    | .50   | 2.7   | .60   | 2.0   | .36   | 12    | 4.1   | 16    | 5.1   | .61   | 0    | .18   |
| 14    | .72   | 2.3   | 1.2   | 1.8   | .30   | 13    | 4.1   | 17    | 5.1   | .56   | .04  | .13   |
| 15    | .84   | 2.8   | 1.1   | 2.1   | .30   | 12    | 4.8   | 18    | 5.2   | .54   | .03  | .11   |
| 16    | 1.3   | 2.3   | .90   | 2.2   | .36   | 12    | 5.0   | 18    | 4.9   | .48   | .02  | .08   |
| 17    | 1.2   | 2.0   | .80   | 3.3   | .39   | 13    | 5.3   | 18    | 5.0   | .45   | .03  | .06   |
| 18    | .91   | 2.2   | .70   | 9.5   | .42   | 13    | 5.5   | 17    | 5.0   | .40   | .03  | .07   |
| 19    | .91   | 2.0   | .60   | 9.1   | .66   | 11    | 6.0   | 15    | 4.7   | .42   | .02  | .14   |
| 20    | .91   | 2.3   | .80   | 9.2   | 1.3   | 11    | 5.3   | 13    | 4.6   | .74   | .02  | .20   |
| 21    | .78   | 2.6   | 1.3   | 9.3   | 2.2   | 10    | 4.3   | 12    | 4.8   | .69   | .02  | .19   |
| 22    | .66   | 2.7   | 2.0   | 11    | 3.1   | 10    | 4.6   | 10    | 4.5   | .54   | .02  | .20   |
| 23    | .76   | 2.6   | 4.7   | 6.6   | 2.0   | 9.4   | 5.5   | 9.9   | 4.3   | .44   | .02  | .24   |
| 24    | 1.1   | 2.6   | 5.2   | 2.5   | 1.3   | 8.7   | 6.0   | 10    | 3.4   | .36   | .05  | .33   |
| 25    | 1.1   | 2.5   | 4.6   | 1.8   | 1.5   | 9.8   | 5.5   | 10    | 2.9   | .33   | .04  | .49   |
| 26    | 1.2   | 5.4   | 3.0   | .99   | 4.2   | 7.8   | 5.0   | 9.5   | 2.6   | .26   | .03  | .70   |
| 27    | 1.5   | 3.9   | 2.0   | .47   | 7.4   | 6.9   | 5.3   | 10    | 2.5   | .20   | .03  | 2.1   |
| 28    | 1.4   | 2.2   | 2.1   | .30   | 11    | 6.3   | 6.3   | 10    | 2.1   | .18   | .03  | 1.3   |
| 29    | 1.1   | 1.8   | 2.3   | .40   | 6.6   | 5.8   | 9.4   | 10    | 1.8   | .15   | .06  | .66   |
| 30    | 1.4   | 1.9   | 2.2   | .42   | ----- | 5.3   | 9.4   | 11    | 1.7   | .18   | .06  | .54   |
| 31    | 1.6   | ----- | 1.8   | .42   | ----- | 5.0   | ----- | 11    | ----- | .28   | .06  | ----- |
| TOTAL | 24.55 | 67.9  | 54.49 | 86.80 | 46.47 | 343.0 | 162.0 | 423.4 | 168.0 | 20.15 | 1.46 | 9.16  |
| MEAN  | .79   | 2.26  | 1.76  | 2.80  | 1.60  | 11.1  | 5.40  | 13.7  | 5.60  | .65   | .047 | .31   |
| MAX   | 1.6   | 5.4   | 5.2   | 11    | 11    | 18    | 9.4   | 19    | 11    | 1.5   | .16  | 2.1   |
| MIN   | .30   | 1.2   | .51   | .30   | .20   | 3.3   | 4.1   | 9.0   | 1.7   | .15   | 0    | .03   |
| AC-FT | 49    | 135   | 108   | 172   | 92    | 680   | 321   | 840   | 333   | 40    | 2.9  | 18    |

CAL YR 1971 TOTAL 1,588.15 MEAN 4.35 MAX 42 MIN 0 AC-FT 3,150  
WTR YR 1972 TOTAL 1,407.38 MEAN 3.85 MAX 19 MIN 0 AC-FT 2,790



## HUMBOLDT RIVER BASIN

10329000 Little Humboldt River near Paradise Valley, Nev.

LOCATION.--Lat 41°24'55", long 117°22'22", in NW<sup>1</sup>SE<sup>1</sup> sec.20, T.41 N., R.41 E., Humboldt County, on right bank 3.5 miles downstream from Bullshead Ranch and 9.5 miles southeast of Paradise Valley.

DRAINAGE AREA.--1,030 sq mi, 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 (from river-profile map). Prior to Nov. 21, 1946, water-stage recorder at site 1 mile downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft upstream at datum 2.12 ft higher.

AVERAGE DISCHARGE.--34 years (1921-23, 1924-27, 1943-72), 25.5 cfs (18,470 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 426 cfs Mar. 5 (gage height, 3.81 ft); minimum daily, 6.5 cfs July 12 to Aug. 1. Period of record: Maximum discharge, 2,380 cfs Jan. 21, 1969 (gage height, 8.40 ft); minimum, 3.7 cfs Aug. 4, 1963.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, which are poor. Diversions for irrigation of 4,450 acres (Little Humboldt Decree) above station. Station is above all diversions in Paradise Valley.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 7.3   | 7.5   | 14    | 11    | 15    | 199    | 71    | 56    | 45    | 8.2   | 6.5   | 7.3   |
| 2     | 7.3   | 7.6   | 14    | 11    | 14    | 213    | 71    | 55    | 45    | 7.9   | 7.2   | 7.3   |
| 3     | 7.2   | 7.4   | 12    | 11    | 13    | 168    | 70    | 53    | 45    | 7.8   | 11    | 7.3   |
| 4     | 7.3   | 7.4   | 12    | 10    | 13    | 243    | 74    | 52    | 45    | 7.7   | 10    | 7.3   |
| 5     | 7.2   | 8.0   | 12    | 9.4   | 13    | 381    | 76    | 54    | 41    | 7.6   | 10    | 7.4   |
| 6     | 7.2   | 7.5   | 15    | 9.5   | 13    | 300    | 80    | 55    | 38    | 7.4   | 9.0   | 7.3   |
| 7     | 7.2   | 8.0   | 13    | 9.5   | 15    | 306    | 83    | 58    | 37    | 7.4   | 8.0   | 7.3   |
| 8     | 7.1   | 8.0   | 11    | 9.5   | 16    | 295    | 85    | 61    | 37    | 7.3   | 8.0   | 7.3   |
| 9     | 7.0   | 8.0   | 11    | 9.3   | 17    | 243    | 80    | 66    | 52    | 7.2   | 7.5   | 7.3   |
| 10    | 7.1   | 8.0   | 11    | 9.3   | 17    | 211    | 78    | 67    | 50    | 7.0   | 7.0   | 7.3   |
| 11    | 7.2   | 8.0   | 11    | 9.3   | 17    | 213    | 77    | 63    | 45    | 6.8   | 7.0   | 7.4   |
| 12    | 7.1   | 9.0   | 10    | 13    | 17    | 214    | 80    | 60    | 40    | 6.5   | 6.8   | 7.4   |
| 13    | 7.1   | 9.0   | 10    | 11    | 18    | 204    | 82    | 58    | 36    | 6.5   | 7.0   | 7.3   |
| 14    | 7.1   | 8.5   | 10    | 10    | 18    | 184    | 78    | 57    | 30    | 6.5   | 6.8   | 7.3   |
| 15    | 7.0   | 8.5   | 10    | 9.9   | 18    | 177    | 72    | 55    | 26    | 6.5   | 6.8   | 7.3   |
| 16    | 7.3   | 8.0   | 10    | 9.9   | 19    | 169    | 68    | 56    | 22    | 6.5   | 6.9   | 7.2   |
| 17    | 7.4   | 8.0   | 9.9   | 9.9   | 20    | 160    | 67    | 45    | 19    | 6.5   | 6.9   | 7.2   |
| 18    | 7.3   | 8.0   | 10    | 15    | 20    | 156    | 62    | 58    | 17    | 6.5   | 7.1   | 7.3   |
| 19    | 7.3   | 8.0   | 10    | 27    | 22    | 156    | 58    | 61    | 15    | 6.5   | 7.0   | 7.3   |
| 20    | 7.3   | 8.0   | 10    | 108   | 26    | 154    | 53    | 64    | 15    | 6.5   | 7.1   | 7.3   |
| 21    | 7.3   | 8.0   | 9.8   | 100   | 29    | 138    | 52    | 65    | 15    | 6.5   | 7.1   | 7.3   |
| 22    | 7.3   | 8.0   | 10    | 100   | 37    | 127    | 50    | 62    | 14    | 6.5   | 7.1   | 7.3   |
| 23    | 7.4   | 8.0   | 11    | 110   | 42    | 115    | 49    | 64    | 14    | 6.5   | 7.1   | 7.3   |
| 24    | 7.6   | 9.0   | 11    | 83    | 39    | 108    | 48    | 59    | 13    | 6.5   | 7.1   | 7.3   |
| 25    | 7.4   | 9.0   | 11    | 63    | 34    | 112    | 49    | 51    | 12    | 6.5   | 7.1   | 7.3   |
| 26    | 7.5   | 11    | 12    | 37    | 33    | 114    | 53    | 46    | 11    | 6.5   | 7.2   | 7.5   |
| 27    | 7.6   | 30    | 11    | 24    | 34    | 111    | 54    | 42    | 11    | 6.5   | 7.2   | 7.6   |
| 28    | 7.5   | 19    | 12    | 19    | 43    | 102    | 51    | 43    | 10    | 6.5   | 7.2   | 7.4   |
| 29    | 7.0   | 17    | 11    | 18    | 103   | 89     | 48    | 43    | 8.7   | 6.5   | 7.3   | 7.3   |
| 30    | 7.6   | 14    | 11    | 18    | ----- | 83     | 50    | 43    | 7.9   | 6.5   | 7.3   | 7.3   |
| 31    | 7.4   | ----- | 11    | 16    | ----- | 78     | ----- | 45    | ----- | 6.5   | 7.3   | ----- |
| TOTAL | 225.6 | 293.4 | 346.7 | 910.5 | 735   | 5,523  | 1,969 | 1,717 | 816.6 | 212.3 | 232.6 | 219.7 |
| MEAN  | 7.28  | 9.78  | 11.2  | 29.4  | 25.3  | 178    | 65.6  | 55.4  | 27.2  | 6.85  | 7.50  | 7.32  |
| MAX   | 7.6   | 30    | 15    | 110   | 103   | 381    | 85    | 67    | 52    | 8.2   | 11    | 7.6   |
| MIN   | 7.0   | 7.4   | 9.8   | 9.3   | 13    | 78     | 48    | 42    | 7.9   | 6.5   | 6.5   | 7.2   |
| AC-FT | 447   | 582   | 688   | 1,810 | 1,460 | 10,950 | 3,910 | 3,410 | 1,620 | 421   | 461   | 436   |

CAL YR 1971 TOTAL 13,808.5 MEAN 37.8 MAX 203 MIN 5.8 AC-FT 27,390  
WTR YR 1972 TOTAL 13,201.4 MEAN 36.1 MAX 381 MIN 6.5 AC-FT 26,180

NOTE.--Doubtful or no gage-height record Oct. 28 to Nov. 30, July 2 to Aug. 17.

## HUMBOLDT RIVER BASIN

103

10329500 Martin Creek near Paradise Valley, Nev.

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, on left bank 0.6 mile upstream from Humboldt County Recreation Park and 7 miles northeast of Paradise Valley.

DRAINAGE AREA.--172 sq mi.

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 (from extension of river-profile map). Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft of present site at different datums.

AVERAGE DISCHARGE.--51 years, 31.5 cfs (22,820 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 632 cfs Mar. 3 (gage height, 3.23 ft); minimum, 4.3 cfs Dec. 7.

Period of record: Maximum discharge, 9,000 cfs Jan. 21, 1943 (gage height, 11.1 ft, site and datum then in use), on basis of slope-area measurement of peak flow; minimum, 1.8 cfs Feb. 6, 1945.

REMARKS.--Records good. Diversion for irrigation of 40 acres (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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 10    | 10    | 13    | 8.5   | 10      | 124   | 56    | 73    | 102   | 15    | 6.4   | 5.9   |
| 2     | 9.7   | 11    | 11    | 8.0   | 11      | 249   | 60    | 76    | 99    | 14    | 6.1   | 6.8   |
| 3     | 9.7   | 9.7   | 11    | 8.0   | 9.3     | 451   | 67    | 84    | 92    | 13    | 6.1   | 6.2   |
| 4     | 9.7   | 10    | 14    | 7.5   | 13      | 228   | 72    | 93    | 88    | 13    | 6.1   | 6.1   |
| 5     | 10    | 10    | 14    | 7.5   | 16      | 218   | 85    | 105   | 83    | 12    | 5.9   | 6.3   |
| 6     | 11    | 8.4   | 17    | 8.0   | 15      | 218   | 91    | 112   | 78    | 12    | 5.8   | 6.5   |
| 7     | 12    | 8.8   | 6.6   | 9.0   | 14      | 191   | 89    | 117   | 76    | 11    | 5.8   | 6.1   |
| 8     | 12    | 11    | 7.9   | 10    | 13      | 161   | 84    | 116   | 77    | 10    | 5.8   | 5.9   |
| 9     | 12    | 11    | 9.7   | 11    | 13      | 165   | 81    | 110   | 79    | 10    | 5.8   | 5.8   |
| 10    | 11    | 11    | 12    | 11    | 11      | 184   | 80    | 107   | 72    | 9.6   | 5.7   | 5.9   |
| 11    | 10    | 11    | 14    | 11    | 11      | 182   | 76    | 102   | 61    | 9.4   | 5.7   | 6.5   |
| 12    | 10    | 13    | 13    | 12    | 13      | 160   | 73    | 101   | 52    | 8.8   | 5.6   | 6.6   |
| 13    | 10    | 13    | 13    | 12    | 13      | 151   | 65    | 104   | 47    | 8.6   | 5.6   | 6.5   |
| 14    | 10    | 12    | 13    | 9.3   | 14      | 144   | 63    | 110   | 44    | 8.1   | 5.6   | 6.3   |
| 15    | 10    | 12    | 13    | 8.4   | 13      | 135   | 64    | 119   | 42    | 7.8   | 5.7   | 6.1   |
| 16    | 11    | 11    | 12    | 8.4   | 17      | 133   | 64    | 125   | 41    | 7.6   | 5.5   | 6.1   |
| 17    | 12    | 9.3   | 9.7   | 10    | 28      | 139   | 59    | 125   | 38    | 7.6   | 5.6   | 6.1   |
| 18    | 11    | 11    | 9.7   | 16    | 27      | 149   | 55    | 119   | 36    | 7.5   | 5.6   | 6.0   |
| 19    | 11    | 10    | 10    | 24    | 26      | 124   | 54    | 112   | 34    | 7.2   | 5.5   | 6.2   |
| 20    | 11    | 12    | 10    | 47    | 36      | 110   | 53    | 104   | 31    | 7.5   | 5.6   | 6.3   |
| 21    | 11    | 12    | 11    | 65    | 36      | 106   | 54    | 103   | 29    | 7.8   | 5.5   | 6.4   |
| 22    | 11    | 11    | 12    | 180   | 35      | 102   | 58    | 91    | 27    | 7.8   | 5.5   | 6.3   |
| 23    | 11    | 11    | 13    | 135   | 26      | 100   | 62    | 83    | 26    | 7.5   | 5.5   | 6.4   |
| 24    | 11    | 12    | 14    | 44    | 24      | 92    | 69    | 79    | 25    | 7.2   | 5.5   | 6.4   |
| 25    | 10    | 12    | 13    | 33    | 20      | 104   | 68    | 79    | 23    | 6.9   | 5.5   | 6.6   |
| 26    | 10    | 14    | 13    | 27    | 28      | 87    | 64    | 81    | 22    | 6.7   | 5.5   | 7.0   |
| 27    | 11    | 32    | 8.4   | 14    | 105     | 74    | 64    | 85    | 20    | 6.6   | 5.4   | 7.5   |
| 28    | 8.8   | 19    | 9.0   | 14    | 338     | 72    | 71    | 89    | 19    | 6.4   | 5.5   | 7.4   |
| 29    | 7.3   | 16    | 9.0   | 11    | 266     | 65    | 82    | 93    | 17    | 6.2   | 5.6   | 7.0   |
| 30    | 11    | 15    | 8.5   | 8.8   | -----   | 58    | 74    | 95    | 16    | 6.4   | 5.9   | 6.9   |
| 31    | 11    | ----- | 8.0   | 10    | -----   | 56    | ----- | 98    | ----- | 6.7   | 5.5   | ----- |
| TOTAL | 326.2 | 369.2 | 352.5 | 788.4 | 1,201.3 | 4,532 | 2,057 | 3,090 | 1,496 | 275.9 | 176.4 | 192.1 |
| MEAN  | 10.5  | 12.3  | 11.4  | 25.4  | 41.4    | 146   | 68.6  | 99.7  | 49.9  | 8.90  | 5.69  | 6.40  |
| MAX   | 12    | 32    | 17    | 180   | 338     | 451   | 91    | 125   | 102   | 15    | 6.4   | 7.5   |
| MIN   | 7.3   | 8.4   | 6.6   | 7.5   | 9.3     | 56    | 53    | 73    | 16    | 6.2   | 5.4   | 5.8   |
| AC-FT | 647   | 732   | 699   | 1,560 | 2,380   | 8,990 | 4,080 | 6,130 | 2,970 | 547   | 350   | 381   |

CAL YR 1971 TOTAL 17,798.2 MEAN 48.8 MAX 475 MIN 5.6 AC-FT 35,300  
 WTR YR 1972 TOTAL 14,857.0 MEAN 40.6 MAX 451 MIN 5.4 AC-FT 29,470

## PEAK DISCHARGE (BASE, 100 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-22 | 1900 | 2.49  | 332       | 5-7  | 0200 | 1.81  | 123       |
| 2-28 | 2000 | 2.80  | 460       | 5-17 | 0200 | 1.86  | 132       |
| 3-3  | 0900 | 3.23  | 632       | 6-1  | 0300 | 1.74  | 107       |
| 3-10 | 2200 | 2.10  | 210       |      |      |       |           |

## HUMBOLDT RIVER BASIN

10332500 Humboldt-Lovelock Irrigation, Light &amp; Power Co.'s feeder canal near Imlay, Nev.

LOCATION.--Lat 40°40'05", long 118°11'55", in SE¼NE¼ sec.1, T.32 N., R.33 E., Pershing County, on left bank 3 miles northwest of Imlay and 9 miles downstream from headgates.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,170 ft (from topographic map).

AVERAGE DISCHARGE.--26 years, 14.1 cfs (10,220 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 260 cfs July 7, 1970; no flow most of the time.

REMARKS.--Records fair. This canal diverts water during some years from Humboldt River in NW¼ 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 40    | 44    | 38    | 30    | 32    | 105   | 165   | 122   | 2.3   | 1.4   | 1.2  | 1.4   |
| 2     | 45    | 43    | 39    | 32    | 31    | 106   | 165   | 122   | 2.2   | 1.4   | 1.2  | 1.3   |
| 3     | 45    | 44    | 35    | 32    | 35    | 105   | 165   | 111   | 1.3   | 1.4   | 1.2  | 1.3   |
| 4     | 43    | 44    | 20    | 25    | 40    | 92    | 166   | 15    | 1.0   | 1.4   | 1.2  | 1.3   |
| 5     | 43    | 43    | 32    | 27    | 50    | 90    | 167   | 11    | .50   | 1.3   | 1.2  | 1.4   |
| 6     | 42    | 44    | 33    | 28    | 55    | 91    | 165   | 11    | .50   | 1.4   | 1.2  | 1.3   |
| 7     | 41    | 45    | 30    | 28    | 60    | 92    | 164   | 12    | .60   | 1.5   | 1.3  | 1.3   |
| 8     | 40    | 45    | 32    | 28    | 65    | 105   | 164   | 8.1   | .60   | 1.5   | 1.4  | 1.2   |
| 9     | 40    | 45    | 35    | 29    | 70    | 134   | 161   | 6.5   | .70   | 1.2   | 1.5  | 1.2   |
| 10    | 40    | 45    | 33    | 30    | 75    | 136   | 159   | 6.3   | .60   | 1.3   | 1.6  | 1.2   |
| 11    | 40    | 43    | 32    | 30    | 80    | 127   | 159   | 6.2   | .50   | 1.2   | 1.7  | 1.2   |
| 12    | 40    | 44    | 33    | 32    | 85    | 127   | 159   | 6.0   | .50   | 1.2   | 1.8  | 1.2   |
| 13    | 40    | 48    | 35    | 35    | 90    | 130   | 152   | 5.8   | .50   | 1.1   | 1.8  | 1.2   |
| 14    | 40    | 48    | 35    | 34    | 100   | 130   | 148   | 6.3   | .50   | 1.0   | 1.8  | 1.1   |
| 15    | 40    | 47    | 35    | 33    | 100   | 133   | 147   | 6.5   | .40   | .90   | 1.8  | 1.1   |
| 16    | 40    | 46    | 35    | 32    | 102   | 137   | 146   | 6.5   | .40   | .80   | 1.8  | 1.0   |
| 17    | 40    | 46    | 35    | 35    | 105   | 139   | 144   | 5.4   | .40   | .70   | 1.8  | 1.0   |
| 18    | 40    | 46    | 35    | 40    | 106   | 142   | 143   | 3.9   | .40   | .60   | 1.8  | 1.0   |
| 19    | 40    | 45    | 40    | 42    | 108   | 145   | 143   | 3.8   | .50   | .60   | 1.7  | 1.0   |
| 20    | 38    | 45    | 45    | 43    | 108   | 148   | 142   | 4.9   | .40   | .80   | 1.8  | 1.1   |
| 21    | 36    | 46    | 50    | 45    | 109   | 147   | 139   | 4.6   | .50   | .80   | 1.7  | .80   |
| 22    | 39    | 45    | 59    | 45    | 110   | 149   | 135   | 3.5   | .40   | .80   | 1.7  | .50   |
| 23    | 42    | 44    | 59    | 40    | 110   | 154   | 130   | 3.9   | .20   | .80   | 1.7  | .40   |
| 24    | 43    | 44    | 55    | 34    | 107   | 157   | 130   | 3.5   | 1.2   | .70   | 1.6  | .10   |
| 25    | 43    | 44    | 50    | 37    | 105   | 158   | 128   | 3.0   | 1.3   | .90   | 1.6  | .10   |
| 26    | 42    | 44    | 40    | 37    | 103   | 160   | 126   | 2.8   | 1.3   | .90   | 1.5  | .10   |
| 27    | 43    | 43    | 42    | 37    | 102   | 162   | 126   | 2.7   | 1.3   | .90   | 1.4  | 0     |
| 28    | 43    | 41    | 40    | 35    | 102   | 163   | 126   | 2.7   | 1.3   | 1.1   | 1.4  | 0     |
| 29    | 42    | 41    | 35    | 33    | 104   | 165   | 125   | 2.7   | 1.3   | 1.0   | 1.5  | 0     |
| 30    | 42    | 39    | 35    | 30    | ----- | 165   | 124   | 2.9   | 1.3   | 1.0   | 1.5  | 0     |
| 31    | 44    | ----- | 35    | 35    | ----- | 166   | ----- | 2.4   | ----- | 1.2   | 1.5  | ----- |
| TOTAL | 1,276 | 1,331 | 1,187 | 1,053 | 2,449 | 4,160 | 4,413 | 514.9 | 24.90 | 32.80 | 47.9 | 25.80 |
| MEAN  | 41.2  | 44.4  | 38.3  | 34.0  | 84.4  | 134   | 147   | 16.6  | .83   | 1.06  | 1.55 | .86   |
| MAX   | 45    | 48    | 59    | 45    | 110   | 166   | 167   | 122   | 2.3   | 1.5   | 1.8  | 1.4   |
| MIN   | 36    | 39    | 20    | 25    | 31    | 90    | 124   | 2.4   | .20   | .60   | 1.2  | 0     |
| AC-FT | 2,530 | 2,640 | 2,350 | 2,090 | 4,860 | 8,250 | 8,750 | 1,020 | 49    | 65    | 95   | 51    |

CAL YR 1971 TOTAL 22,343.70 MEAN 61.2 MAX 256 MIN 0 AC-FT 44,320  
WTR YR 1972 TOTAL 16,515.30 MEAN 45.1 MAX 167 MIN 0 AC-FT 32,760

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LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼SE¼ sec.25, T.33 N., R.33 E., Pershing County, on right bank 1 mile upstream from Callahan bridge and 4 miles 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.--33 years, 193 cfs (139,800 acre-ft per year).

REMARKS.—Records good except those for winter months, 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; 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           | 50    | 65      | 126   | 115    | 300    | 447    | 1,090  | 454    | 181    | 348     | 96    | 27    |
| 2           | 48    | 60      | 138   | 115    | 280    | 465    | 1,090  | 438    | 199    | 345     | 87    | 26    |
| 3           | 47    | 62      | 141   | 105    | 346    | 472    | 1,090  | 422    | 205    | 322     | 81    | 27    |
| 4           | 47    | 68      | 140   | 92     | 348    | 470    | 1,090  | 463    | 202    | 302     | 81    | 28    |
| 5           | 46    | 66      | 157   | 96     | 346    | 483    | 1,070  | 458    | 191    | 287     | 80    | 28    |
| 6           | 46    | 67      | 153   | 94     | 340    | 506    | 1,050  | 441    | 198    | 273     | 79    | 28    |
| 7           | 46    | 69      | 130   | 98     | 330    | 518    | 1,020  | 396    | 204    | 260     | 78    | 30    |
| 8           | 46    | 72      | 100   | 105    | 313    | 528    | 983    | 356    | 228    | 240     | 78    | 29    |
| 9           | 46    | 73      | 96    | 115    | 306    | 540    | 941    | 348    | 264    | 230     | 75    | 29    |
| 10          | 47    | 73      | 100   | 130    | 305    | 558    | 914    | 338    | 242    | 220     | 75    | 28    |
| 11          | 47    | 75      | 104   | 145    | 295    | 570    | 890    | 329    | 238    | 210     | 72    | 28    |
| 12          | 48    | 84      | 110   | 155    | 296    | 588    | 862    | 319    | 231    | 200     | 69    | 28    |
| 13          | 50    | 86      | 107   | 155    | 298    | 610    | 806    | 310    | 226    | 190     | 66    | 29    |
| 14          | 52    | 92      | 104   | 150    | 255    | 647    | 754    | 302    | 216    | 180     | 61    | 30    |
| 15          | 54    | 95      | 102   | 150    | 231    | 687    | 734    | 295    | 196    | 170     | 50    | 30    |
| 16          | 55    | 97      | 96    | 155    | 233    | 732    | 722    | 271    | 181    | 160     | 45    | 30    |
| 17          | 56    | 97      | 102   | 165    | 243    | 756    | 700    | 259    | 185    | 155     | 42    | 29    |
| 18          | 57    | 99      | 104   | 180    | 251    | 790    | 683    | 240    | 212    | 152     | 46    | 29    |
| 19          | 61    | 99      | 102   | 220    | 264    | 809    | 674    | 214    | 176    | 149     | 42    | 30    |
| 20          | 61    | 97      | 110   | 250    | 277    | 826    | 667    | 229    | 177    | 140     | 37    | 30    |
| 21          | 65    | 111     | 110   | 275    | 287    | 852    | 641    | 200    | 225    | 134     | 35    | 29    |
| 22          | 63    | 115     | 120   | 287    | 309    | 895    | 614    | 182    | 389    | 131     | 35    | 30    |
| 23          | 62    | 116     | 130   | 285    | 324    | 953    | 608    | 187    | 496    | 122     | 30    | 31    |
| 24          | 61    | 121     | 135   | 278    | 334    | 978    | 602    | 187    | 488    | 117     | 28    | 30    |
| 25          | 61    | 123     | 145   | 245    | 343    | 1,000  | 582    | 174    | 470    | 115     | 27    | 30    |
| 26          | 62    | 128     | 155   | 230    | 369    | 1,020  | 554    | 169    | 458    | 117     | 25    | 30    |
| 27          | 62    | 131     | 140   | 220    | 395    | 1,030  | 534    | 149    | 440    | 120     | 25    | 31    |
| 28          | 61    | 133     | 140   | 210    | 416    | 1,050  | 528    | 185    | 418    | 116     | 25    | 34    |
| 29          | 60    | 134     | 145   | 220    | 436    | 1,060  | 500    | 170    | 389    | 109     | 28    | 31    |
| 30          | 62    | 135     | 140   | 250    | -----  | 1,080  | 477    | 178    | 354    | 109     | 29    | 31    |
| 31          | 65    | -----   | 125   | 270    | -----  | 1,090  | -----  | 185    | -----  | 105     | 28    | ----- |
| TOTAL       | 1,694 | 2,843   | 3,807 | 5,560  | 9,070  | 23,010 | 23,470 | 8,848  | 8,279  | 5,828   | 1,655 | 880   |
| MEAN        | 54.6  | 94.8    | 123   | 179    | 313    | 742    | 782    | 285    | 276    | 188     | 53.4  | 29.3  |
| MAX         | 65    | 135     | 157   | 287    | 436    | 1,090  | 1,090  | 463    | 496    | 348     | 96    | 34    |
| MIN         | 46    | 60      | 96    | 92     | 231    | 447    | 477    | 149    | 176    | 105     | 25    | 26    |
| AC-FT       | 3,360 | 5,640   | 7,550 | 11,030 | 17,990 | 45,640 | 46,550 | 17,550 | 16,420 | 11,560  | 3,280 | 1,750 |
| CAL YR 1971 | TOTAL | 195,250 | MEAN  | 535    | MAX    | 1,890  | MIN    | 46     | AC-FT  | 387,300 |       |       |
| WTR YR 1972 | TOTAL | 94,944  | MEAN  | 259    | MAX    | 1,090  | MIN    | 25     | AC-FT  | 188,300 |       |       |

## 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, 2 miles northwest of Rye Patch.

DRAINAGE AREA.--16,100 sq mi, 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, 169,400 acre-ft for many days during Mar., Apr., May (elevation, 4,133.9 ft); minimum, 126,200 acre-ft Sept. 26-30 (elevation, 4,130.3 ft).  
Period of record: Maximum contents, 196,900 acre-ft Apr. 9, 1946 (elevation, 4,134.62 ft) 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 between elevations 4,072.5 (sill of trashrack structure) and 4,133.0 ft (top of spillway gates). Dead storage negligible. Elevation of spillway (gate sill) is 4,116 ft. Figures given herein represent usable contents, and are based on capacity table no. 2. 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)

|       |         |       |         |
|-------|---------|-------|---------|
| 4,130 | 123,200 | 4,133 | 157,200 |
| 4,131 | 133,200 | 4,134 | 170,800 |
| 4,132 | 144,200 | 4,135 | 182,400 |

## CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1   | 136,500 | 129,200 | 131,200 | 138,700 | 150,700 | 161,300 | 168,000 | 169,400 | 150,700 | 154,600 | 145,500 | 132,200 |
| 2   | 136,500 | 129,200 | 132,200 | 139,800 | 152,000 | 162,600 | 168,000 | 169,400 | 149,400 | 154,600 | 145,500 | 132,200 |
| 3   | 136,500 | 129,200 | 132,200 | 139,800 | 152,000 | 164,000 | 169,400 | 169,400 | 149,400 | 154,600 | 145,500 | 132,200 |
| 4   | 136,500 | 129,200 | 132,200 | 139,800 | 153,300 | 164,000 | 169,400 | 169,400 | 149,400 | 153,300 | 144,200 | 131,200 |
| 5   | 136,500 | 129,200 | 132,200 | 139,800 | 153,300 | 164,000 | 169,400 | 169,400 | 149,400 | 153,300 | 144,200 | 131,200 |
| 6   | 136,500 | 129,200 | 132,200 | 139,800 | 154,600 | 164,000 | 169,400 | 168,000 | 149,400 | 152,000 | 144,200 | 131,200 |
| 7   | 135,400 | 129,200 | 132,200 | 140,900 | 155,900 | 165,300 | 169,400 | 168,000 | 149,400 | 152,000 | 144,200 | 131,200 |
| 8   | 135,400 | 129,200 | 133,200 | 140,900 | 155,900 | 165,300 | 169,400 | 166,700 | 149,400 | 150,700 | 143,100 | 131,200 |
| 9   | 135,400 | 129,200 | 133,200 | 140,900 | 155,900 | 166,700 | 169,400 | 166,700 | 149,400 | 150,700 | 143,100 | 131,200 |
| 10  | 134,300 | 128,200 | 133,200 | 142,000 | 155,900 | 166,700 | 169,400 | 165,300 | 150,700 | 149,400 | 142,000 | 130,200 |
| 11  | 134,300 | 128,200 | 133,200 | 142,000 | 155,900 | 166,700 | 169,400 | 164,000 | 150,700 | 149,400 | 140,900 | 130,200 |
| 12  | 134,300 | 128,200 | 133,200 | 143,100 | 155,900 | 166,700 | 169,400 | 164,000 | 150,700 | 149,400 | 140,900 | 130,200 |
| 13  | 134,300 | 129,200 | 133,200 | 143,100 | 155,900 | 166,700 | 169,400 | 162,600 | 150,700 | 148,100 | 139,800 | 130,200 |
| 14  | 133,200 | 129,200 | 134,300 | 143,100 | 157,200 | 166,700 | 169,400 | 161,300 | 150,700 | 148,100 | 139,800 | 130,200 |
| 15  | 133,200 | 129,200 | 134,300 | 144,200 | 157,200 | 166,700 | 168,000 | 161,300 | 152,000 | 148,100 | 138,700 | 129,200 |
| 16  | 133,200 | 129,200 | 134,300 | 144,200 | 157,200 | 166,700 | 168,000 | 161,300 | 152,000 | 146,800 | 138,700 | 129,200 |
| 17  | 132,200 | 129,200 | 134,300 | 144,200 | 157,200 | 168,000 | 168,000 | 159,900 | 152,000 | 146,800 | 137,600 | 129,200 |
| 18  | 132,200 | 129,200 | 134,300 | 144,200 | 157,200 | 168,000 | 168,000 | 159,900 | 152,000 | 146,800 | 137,600 | 129,200 |
| 19  | 132,200 | 130,200 | 135,400 | 145,500 | 157,200 | 168,000 | 168,000 | 158,600 | 150,700 | 145,500 | 137,600 | 129,200 |
| 20  | 131,200 | 130,200 | 135,400 | 145,500 | 157,200 | 169,400 | 168,000 | 157,200 | 150,700 | 145,500 | 137,600 | 128,200 |
| 21  | 131,200 | 130,200 | 135,400 | 146,800 | 157,200 | 169,400 | 168,000 | 155,900 | 150,700 | 145,500 | 136,500 | 128,200 |
| 22  | 131,200 | 130,200 | 136,500 | 146,800 | 157,200 | 169,400 | 168,000 | 155,900 | 150,700 | 145,500 | 136,500 | 128,200 |
| 23  | 131,200 | 130,200 | 136,500 | 146,800 | 157,200 | 169,400 | 168,000 | 154,600 | 150,700 | 145,500 | 136,500 | 128,200 |
| 24  | 131,200 | 130,200 | 136,500 | 148,100 | 157,200 | 168,000 | 168,000 | 154,600 | 152,000 | 145,500 | 135,400 | 127,200 |
| 25  | 130,200 | 130,200 | 137,600 | 149,400 | 158,600 | 168,000 | 168,000 | 153,300 | 153,300 | 145,500 | 135,400 | 127,200 |
| 26  | 130,200 | 130,200 | 137,600 | 149,400 | 158,600 | 168,000 | 169,400 | 153,300 | 153,300 | 145,500 | 135,400 | 126,200 |
| 27  | 130,200 | 130,200 | 137,600 | 149,400 | 159,900 | 168,000 | 169,400 | 153,300 | 153,300 | 145,500 | 134,300 | 126,200 |
| 28  | 130,200 | 131,200 | 137,600 | 149,400 | 161,300 | 168,000 | 169,400 | 152,000 | 154,600 | 145,500 | 133,200 | 126,200 |
| 29  | 129,200 | 131,200 | 137,600 | 149,400 | 161,300 | 168,000 | 169,400 | 152,000 | 154,600 | 145,500 | 132,200 | 126,200 |
| 30  | 129,200 | 131,200 | 138,700 | 150,700 | -----   | 168,000 | 169,400 | 152,000 | 154,600 | 145,500 | 132,200 | 126,200 |
| 31  | 129,200 | -----   | 138,700 | 150,700 | -----   | 168,000 | -----   | 150,700 | -----   | 145,500 | 132,200 | -----   |
| MAX | 136,500 | 131,200 | 138,700 | 150,700 | 161,300 | 169,400 | 169,400 | 169,400 | 154,600 | 154,600 | 145,500 | 132,200 |
| MIN | 129,200 | 128,200 | 131,200 | 138,700 | 150,700 | 161,300 | 168,000 | 150,700 | 149,400 | 145,500 | 132,200 | 126,200 |
| (+) | 4,130.6 | 4,130.8 | 4,131.5 | 4,132.5 | 4,133.3 | 4,133.8 | 4,133.9 | 4,132.5 | 4,132.8 | 4,132.1 | 4,130.9 | 4,130.3 |
| (#) | -8,400  | +2,000  | +7,500  | +12,000 | +10,600 | +6,700  | +1,400  | -18,700 | +3,900  | -9,100  | -13,300 | -6,000  |

Calendar year 1971  $\pm$  2,200  
Water year 1971-72 Max 169,400 Min 126,200  $\pm$  11,400

+ ELEVATION, IN FEET, AT END OF MONTH.

# CHANGE IN CONTENTS, IN ACRE-FEET.

\* Capacity Table No. 2 dated April 1973 computed by U.S. Bureau of Reclamation from bathymetric survey made by Geological Survey 1972.



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LOCATION.--Lat 40°28'00", long 118°18'20", in SE 1/4 sec.18, T.30 N., R.33 E., Pershing County, on left bank 1,000 ft downstream from Rye Patch Dam and 1.5 miles northwest of Rye Patch.

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 Oreauna."

AVERAGE DISCHARGE.--58 years (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-72), 200 cfs (144,900 acre-ft per year), unadjusted.

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; additional acreage not covered by decree). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT    | NOV     | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN           | JUL    | AUG    | SEP   |
|-------------|--------|---------|-------|-------|-------|--------|--------|--------|---------------|--------|--------|-------|
| 1           | 188    | 158     | 56    | 20    | 86    | 158    | 1,050  | 458    | 420           | 530    | 188    | 295   |
| 2           | 164    | 158     | 56    | 20    | 86    | 158    | 1,050  | 466    | 385           | 496    | 187    | 259   |
| 3           | 164    | 158     | 56    | 20    | 86    | 219    | 1,050  | 530    | 382           | 455    | 198    | 206   |
| 4           | 164    | 158     | 56    | 20    | 86    | 251    | 1,050  | 578    | 380           | 440    | 214    | 164   |
| 5           | 190    | 155     | 36    | 20    | 86    | 253    | 1,050  | 598    | 391           | 472    | 228    | 135   |
| 6           | 212    | 132     | 21    | 20    | 86    | 363    | 1,050  | 594    | 440           | 490    | 264    | 103   |
| 7           | 219    | 113     | 21    | 20    | 86    | 423    | 1,050  | 594    | 446           | 527    | 301    | 59    |
| 8           | 228    | 113     | 21    | 20    | 86    | 452    | 1,050  | 591    | 411           | 565    | 317    | 76    |
| 9           | 205    | 113     | 20    | 20    | 153   | 475    | 1,050  | 581    | 371           | 591    | 316    | 126   |
| 10          | 205    | 113     | 20    | 20    | 208   | 472    | 1,050  | 536    | 256           | 539    | 317    | 126   |
| 11          | 203    | 108     | 20    | 20    | 208   | 475    | 1,050  | 521    | 251           | 466    | 304    | 127   |
| 12          | 203    | 100     | 20    | 20    | 208   | 472    | 1,050  | 527    | 242           | 391    | 291    | 127   |
| 13          | 205    | 94      | 20    | 20    | 205   | 472    | 998    | 562    | 242           | 374    | 290    | 103   |
| 14          | 205    | 72      | 20    | 20    | 205   | 478    | 932    | 555    | 228           | 374    | 311    | 79    |
| 15          | 199    | 60      | 20    | 20    | 208   | 555    | 932    | 536    | 263           | 349    | 289    | 73    |
| 16          | 175    | 40      | 20    | 20    | 208   | 618    | 932    | 542    | 256           | 302    | 254    | 41    |
| 17          | 136    | 40      | 20    | 20    | 208   | 614    | 789    | 546    | 240           | 277    | 252    | 31    |
| 18          | 113    | 40      | 20    | 20    | 208   | 608    | 674    | 575    | 253           | 251    | 259    | 31    |
| 19          | 113    | 40      | 20    | 20    | 208   | 604    | 667    | 621    | 277           | 212    | 298    | 57    |
| 20          | 113    | 40      | 20    | 20    | 208   | 703    | 621    | 575    | 256           | 153    | 318    | 77    |
| 21          | 111    | 60      | 20    | 19    | 208   | 921    | 594    | 487    | 235           | 116    | 359    | 80    |
| 22          | 147    | 74      | 20    | 20    | 208   | 988    | 594    | 405    | 290           | 116    | 352    | 81    |
| 23          | 170    | 45      | 20    | 20    | 210   | 1,050  | 594    | 328    | 328           | 95     | 374    | 97    |
| 24          | 170    | 33      | 20    | 20    | 210   | 1,050  | 591    | 338    | 320           | 79     | 411    | 81    |
| 25          | 170    | 56      | 20    | 20    | 210   | 1,050  | 546    | 385    | 317           | 85     | 413    | 41    |
| 26          | 170    | 56      | 20    | 20    | 179   | 1,050  | 505    | 391    | 388           | 123    | 341    | 41    |
| 27          | 170    | 56      | 19    | 20    | 155   | 1,050  | 469    | 371    | 420           | 123    | 283    | 40    |
| 28          | 130    | 57      | 20    | 20    | 155   | 1,050  | 458    | 357    | 423           | 105    | 247    | 41    |
| 29          | 97     | 57      | 20    | 20    | 155   | 1,050  | 461    | 385    | 449           | 113    | 276    | 37    |
| 30          | 97     | 56      | 20    | 20    | ----- | 1,050  | 455    | 380    | 490           | 136    | 320    | 34    |
| 31          | 128    | -----   | 19    | 63    | ----- | 1,050  | -----  | 411    | -----         | 169    | 307    | ----- |
| TOTAL       | 5,164  | 2,555   | 781   | 662   | 4,813 | 20,182 | 24,412 | 15,324 | 10,050        | 9,514  | 9,079  | 2,868 |
| MEAN        | 167    | 85.2    | 25.2  | 21.4  | 166   | 651    | 814    | 494    | 335           | 307    | 293    | 95.6  |
| MAX         | 228    | 158     | 56    | 63    | 210   | 1,050  | 1,050  | 621    | 490           | 591    | 413    | 295   |
| MIN         | 97     | 33      | 19    | 19    | 86    | 158    | 455    | 328    | 228           | 79     | 187    | 31    |
| AC-FT       | 10,240 | 5,070   | 1,550 | 1,310 | 9,550 | 40,030 | 48,420 | 30,400 | 19,930        | 18,870 | 18,010 | 5,690 |
| CAL YR 1971 | TOTAL  | 187,930 | MEAN  | 515   | MAX   | 2,010  | MIN    | 12     | AC-FT 372,800 |        |        |       |
| WTR YR 1972 | TOTAL  | 105,404 | MEAN  | 288   | MAX   | 1,050  | MIN    | 19     | AC-FT 209,100 |        |        |       |

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336500 Pyramid Lake near Nixon, Nev.

LOCATION.--Lat 39°59'05", long 119°30'00", in NE<sup>1</sup><sub>4</sub> sec.3, T.24 N., R.22 E., Washoe County, 0.25 mile north of the Pyramid, 1.6 miles northeast of Anaho Island, and 13 miles northwest of Nixon.

DRAINAGE AREA.--2,720 sq mi.

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, 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, adjustment of 1912 (to convert these records to present datum, add 0.81 ft). January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevation of 3,940.04 ft, datum of 1929 (to convert these records to present datum, add 0.25 ft). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

EXTREMES.--Period of record: Maximum elevation observed, 3,884.9 ft in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft 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 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 1971 to September 1972

|                |          |                |          |
|----------------|----------|----------------|----------|
| Sept. 2. . . . | .3,795.4 | Apr. 5. . . .  | .3,795.4 |
| Nov. 5. . . .  | .3,794.9 | May 31. . . .  | .3,795.3 |
| Nov. 30. . . . | .3,794.8 | July 3. . . .  | .3,795.1 |
| Dec. 4. . . .  | .3,794.9 | Aug. 1. . . .  | .3,794.5 |
| Feb. 2. . . .  | .3,795.0 | Sept. 6. . . . | .3,794.0 |
| Mar. 1. . . .  | .3,795.2 | Oct. 2. . . .  | .3,793.6 |

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, Eldorado National Forest, 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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,470 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 102 cfs June 4 (gage height, 2.72 ft); minimum daily, 1.5 cfs Aug. 26-28.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 2.4  | 2.0   | 4.2   | 2.6  | 2.6   | 3.2   | 14    | 24    | 36    | 10    | 3.2  | 2.1   |
| 2     | 2.4  | 2.4   | 4.0   | 2.6  | 2.6   | 4.4   | 16    | 26    | 36    | 9.3   | 2.8  | 2.4   |
| 3     | 2.4  | 2.6   | 4.0   | 2.6  | 2.6   | 8.2   | 18    | 27    | 33    | 7.6   | 2.8  | 2.1   |
| 4     | 2.4  | 2.6   | 3.4   | 2.6  | 2.6   | 6.5   | 19    | 29    | 44    | 7.2   | 2.7  | 2.0   |
| 5     | 2.4  | 2.6   | 3.4   | 2.6  | 2.6   | 6.8   | 19    | 29    | 44    | 6.8   | 2.7  | 2.4   |
| 6     | 2.0  | 2.6   | 3.4   | 2.6  | 2.6   | 9.3   | 18    | 29    | 44    | 6.2   | 2.6  | 2.2   |
| 7     | 2.0  | 2.6   | 3.4   | 2.4  | 2.6   | 11    | 17    | 26    | 38    | 6.0   | 2.4  | 2.0   |
| 8     | 2.0  | 2.4   | 3.4   | 2.4  | 2.6   | 13    | 16    | 25    | 36    | 5.7   | 2.2  | 2.0   |
| 9     | 2.0  | 2.4   | 3.4   | 2.4  | 2.6   | 15    | 16    | 25    | 34    | 5.7   | 2.1  | 1.9   |
| 10    | 2.0  | 2.6   | 3.4   | 2.6  | 2.6   | 16    | 16    | 24    | 31    | 5.7   | 2.0  | 1.9   |
| 11    | 1.8  | 11    | 3.2   | 2.6  | 2.6   | 17    | 16    | 25    | 27    | 5.7   | 1.9  | 1.9   |
| 12    | 1.8  | 6.2   | 3.0   | 2.7  | 2.6   | 18    | 11    | 27    | 24    | 5.4   | 1.9  | 1.9   |
| 13    | 1.8  | 4.4   | 3.2   | 2.8  | 2.7   | 19    | 10    | 28    | 23    | 5.0   | 1.8  | 1.8   |
| 14    | 1.8  | 4.0   | 3.4   | 2.8  | 2.7   | 20    | 12    | 31    | 21    | 4.4   | 1.8  | 1.8   |
| 15    | 1.8  | 4.0   | 3.4   | 2.7  | 2.7   | 21    | 17    | 32    | 21    | 4.0   | 1.7  | 1.8   |
| 16    | 2.0  | 3.6   | 3.4   | 2.7  | 2.7   | 23    | 18    | 32    | 21    | 4.0   | 1.7  | 1.8   |
| 17    | 2.0  | 3.8   | 3.4   | 2.7  | 2.7   | 26    | 18    | 29    | 20    | 4.2   | 1.7  | 1.8   |
| 18    | 2.0  | 3.6   | 3.4   | 2.7  | 2.7   | 26    | 17    | 27    | 21    | 4.0   | 1.8  | 1.8   |
| 19    | 2.0  | 3.4   | 3.2   | 2.7  | 2.8   | 25    | 16    | 27    | 20    | 4.0   | 1.7  | 1.8   |
| 20    | 2.0  | 3.4   | 3.2   | 2.7  | 2.8   | 26    | 16    | 25    | 19    | 4.0   | 1.7  | 1.9   |
| 21    | 2.0  | 3.4   | 3.2   | 2.8  | 2.8   | 27    | 17    | 23    | 18    | 4.0   | 1.6  | 1.9   |
| 22    | 2.0  | 3.4   | 3.6   | 2.8  | 2.8   | 22    | 18    | 23    | 17    | 4.0   | 1.6  | 1.9   |
| 23    | 2.0  | 3.4   | 3.2   | 2.8  | 2.8   | 20    | 19    | 24    | 17    | 4.0   | 1.6  | 1.9   |
| 24    | 2.0  | 3.4   | 3.2   | 2.7  | 2.8   | 19    | 19    | 24    | 16    | 3.8   | 1.6  | 1.9   |
| 25    | 2.0  | 3.4   | 2.8   | 2.7  | 2.8   | 18    | 17    | 26    | 16    | 3.6   | 1.6  | 1.9   |
| 26    | 1.8  | 5.2   | 2.7   | 2.7  | 2.8   | 17    | 18    | 29    | 16    | 3.4   | 1.5  | 3.4   |
| 27    | 1.8  | 6.0   | 2.7   | 2.7  | 2.8   | 16    | 20    | 32    | 15    | 3.2   | 1.5  | 4.2   |
| 28    | 1.8  | 6.0   | 2.7   | 2.7  | 3.4   | 16    | 22    | 33    | 13    | 3.2   | 1.5  | 2.8   |
| 29    | 1.8  | 4.4   | 2.7   | 2.7  | 3.4   | 15    | 23    | 35    | 13    | 3.0   | 1.7  | 2.4   |
| 30    | 1.8  | 4.0   | 2.6   | 2.7  | ----- | 14    | 24    | 35    | 10    | 3.2   | 2.2  | 2.4   |
| 31    | 1.8  | ----- | 2.6   | 2.7  | ----- | 14    | ----- | 36    | ----- | 3.2   | 2.0  | ----- |
| TOTAL | 61.8 | 114.8 | 100.8 | 82.5 | 79.4  | 512.4 | 517   | 867   | 744   | 153.5 | 61.6 | 64.0  |
| MEAN  | 1.99 | 3.83  | 3.25  | 2.66 | 2.74  | 16.5  | 17.2  | 28.0  | 24.8  | 4.95  | 1.99 | 2.13  |
| MAX   | 2.4  | 11    | 4.2   | 2.8  | 3.4   | 27    | 24    | 36    | 44    | 10    | 3.2  | 4.2   |
| MIN   | 1.8  | 2.0   | 2.6   | 2.4  | 2.6   | 3.2   | 10    | 23    | 10    | 3.0   | 1.5  | 1.8   |
| AC-FT | 123  | 228   | 200   | 164  | 157   | 1,020 | 1,030 | 1,720 | 1,480 | 304   | 122  | 127   |

WTR YR 1972 TOTAL 3,358.8 MEAN 9.18 MAX 44 MIN 1.5 AC-FT 6,660

## 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, 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.--12 years, 66.5 cfs (48,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 402 cfs June 4 (gage height, 7.35 ft); minimum, 4.2 cfs Aug. 26, 27.  
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. No regulation. Some small diversions above station for domestic use.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC  | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1     | 9.5   | 9.5   | 12   | 10    | 10    | 17    | 52    | 149    | 291   | 49    | 9.9   | 5.6   |
| 2     | 9.5   | 9.5   | 12   | 9.6   | 9.0   | 26    | 64    | 169    | 260   | 46    | 9.6   | 6.0   |
| 3     | 10    | 9.5   | 12   | 9.4   | 10    | 61    | 76    | 179    | 231   | 42    | 9.1   | 6.0   |
| 4     | 9.9   | 9.5   | 12   | 9.0   | 12    | 75    | 91    | 188    | 242   | 38    | 9.9   | 6.2   |
| 5     | 9.5   | 9.5   | 13   | 10    | 12    | 69    | 115   | 203    | 263   | 36    | 8.8   | 7.0   |
| 6     | 9.3   | 9.5   | 12   | 10    | 11    | 70    | 92    | 203    | 273   | 33    | 8.6   | 6.8   |
| 7     | 9.0   | 9.3   | 12   | 10    | 11    | 69    | 76    | 186    | 236   | 31    | 8.3   | 6.4   |
| 8     | 8.8   | 9.0   | 11   | 10    | 11    | 77    | 69    | 170    | 233   | 28    | 8.1   | 6.0   |
| 9     | 8.5   | 9.0   | 12   | 10    | 11    | 88    | 66    | 169    | 221   | 26    | 7.9   | 5.8   |
| 10    | 8.5   | 9.0   | 12   | 11    | 11    | 92    | 65    | 174    | 177   | 25    | 7.6   | 5.6   |
| 11    | 8.5   | 10    | 11   | 12    | 11    | 91    | 64    | 188    | 147   | 24    | 7.1   | 5.6   |
| 12    | 9.5   | 10    | 12   | 12    | 11    | 88    | 58    | 203    | 146   | 24    | 6.9   | 5.6   |
| 13    | 9.3   | 13    | 11   | 12    | 11    | 92    | 57    | 226    | 148   | 23    | 6.6   | 5.6   |
| 14    | 9.3   | 13    | 12   | 11    | 11    | 99    | 54    | 260    | 149   | 21    | 6.6   | 5.6   |
| 15    | 8.5   | 12    | 12   | 11    | 11    | 94    | 60    | 270    | 147   | 20    | 6.6   | 5.6   |
| 16    | 9.0   | 12    | 12   | 11    | 11    | 102   | 74    | 263    | 137   | 20    | 6.6   | 5.4   |
| 17    | 9.0   | 12    | 12   | 11    | 12    | 120   | 73    | 236    | 130   | 19    | 6.6   | 5.2   |
| 18    | 9.3   | 11    | 12   | 12    | 12    | 122   | 65    | 202    | 131   | 18    | 6.6   | 5.2   |
| 19    | 9.5   | 11    | 12   | 12    | 12    | 113   | 58    | 189    | 123   | 17    | 5.8   | 5.2   |
| 20    | 9.9   | 11    | 12   | 12    | 13    | 120   | 57    | 157    | 113   | 17    | 5.0   | 5.4   |
| 21    | 9.5   | 11    | 12   | 13    | 13    | 129   | 62    | 134    | 101   | 17    | 4.9   | 5.4   |
| 22    | 9.3   | 11    | 25   | 14    | 14    | 116   | 73    | 130    | 94    | 16    | 4.7   | 5.2   |
| 23    | 9.0   | 11    | 22   | 13    | 13    | 90    | 88    | 147    | 85    | 15    | 4.7   | 5.2   |
| 24    | 9.0   | 11    | 16   | 10    | 13    | 80    | 97    | 173    | 75    | 15    | 4.7   | 5.0   |
| 25    | 8.5   | 11    | 15   | 9.9   | 15    | 91    | 76    | 201    | 69    | 13    | 4.5   | 5.2   |
| 26    | 8.5   | 13    | 14   | 9.6   | 14    | 76    | 74    | 235    | 66    | 13    | 4.4   | 9.0   |
| 27    | 8.3   | 20    | 13   | 9.2   | 14    | 68    | 96    | 272    | 65    | 12    | 4.5   | 13    |
| 28    | 8.4   | 20    | 12   | 9.0   | 16    | 63    | 129   | 284    | 63    | 11    | 4.7   | 11    |
| 29    | 8.4   | 14    | 11   | 8.4   | 19    | 60    | 134   | 288    | 59    | 11    | 5.0   | 7.8   |
| 30    | 8.5   | 13    | 11   | 8.0   | ----- | 59    | 134   | 290    | 54    | 11    | 6.0   | 6.8   |
| 31    | 9.5   | ----- | 10   | 8.4   | ----- | 58    | ----- | 299    | ----- | 11    | 6.0   | ----- |
| TOTAL | 278.2 | 360.3 | 401  | 327.5 | 354.0 | 2,575 | 2,355 | 6,436  | 4,529 | 702   | 204.9 | 189.4 |
| MEAN  | 8.97  | 12.0  | 12.9 | 10.6  | 12.2  | 83.1  | 78.5  | 208    | 151   | 22.6  | 6.61  | 6.31  |
| MAX   | 10    | 20    | 25   | 14    | 19    | 129   | 134   | 299    | 291   | 49    | 9.9   | 13    |
| MIN   | 8.3   | 9.0   | 10   | 8.0   | 9.0   | 17    | 54    | 130    | 54    | 11    | 4.4   | 5.0   |
| AC-FT | 552   | 715   | 795  | 650   | 702   | 5,110 | 4,670 | 12,770 | 8,980 | 1,390 | 406   | 376   |

CAL YR 1971 TOTAL 25,961.8 MEAN 71.1 MAX 578 MIN 7.8 AC-FT 51,500  
WTR YR 1972 TOTAL 18,712.3 MEAN 51.1 MAX 299 MIN 4.4 AC-FT 37,120

Peak discharge (base, 200 cfs).--May 14 (2100) 340 cfs (6.98 ft); June 4 (2100) 402 cfs (7.35 ft).

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 NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.4, T.12 N., R.18 E., El Dorado County, on right bank on downstream side of U.S. 50 highway 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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 518 cfs June 1 (gage height, 4.10 ft); minimum daily, 8.5 cfs Aug. 25-27, Sept. 22.

REMARKS.--Records good except those for the winter months, which are poor. 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 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|
| 1     | 16   | 14    | 38    | 34    | 27    | 52     | 114   | 212    | 441    | 71    | 16    | 12    |
| 2     | 17   | 18    | 37    | 35    | 27    | 70     | 121   | 244    | 424    | 61    | 16    | 12    |
| 3     | 17   | 18    | 35    | 36    | 26    | 149    | 118   | 278    | 384    | 61    | 15    | 13    |
| 4     | 16   | 17    | 33    | 35    | 26    | 195    | 153   | 230    | 355    | 58    | 14    | 12    |
| 5     | 16   | 16    | 31    | 33    | 26    | 192    | 220   | 298    | 429    | 54    | 12    | 13    |
| 6     | 16   | 15    | 32    | 33    | 26    | 187    | 182   | 315    | 424    | 48    | 13    | 12    |
| 7     | 15   | 15    | 32    | 32    | 26    | 183    | 140   | 294    | 390    | 41    | 13    | 12    |
| 8     | 14   | 14    | 32    | 32    | 26    | 188    | 132   | 260    | 417    | 36    | 13    | 10    |
| 9     | 14   | 14    | 32    | 32    | 27    | 201    | 122   | 264    | 402    | 34    | 13    | 10    |
| 10    | 14   | 16    | 33    | 32    | 27    | 218    | 114   | 256    | 333    | 33    | 12    | 9.9   |
| 11    | 14   | 48    | 33    | 31    | 28    | 209    | 118   | 268    | 250    | 33    | 11    | 9.3   |
| 12    | 14   | 50    | 34    | 31    | 30    | 192    | 120   | 236    | 207    | 34    | 11    | 9.6   |
| 13    | 13   | 26    | 34    | 31    | 30    | 192    | 194   | 258    | 178    | 31    | 11    | 9.9   |
| 14    | 13   | 21    | 34    | 31    | 31    | 192    | 118   | 300    | 173    | 28    | 12    | 9.9   |
| 15    | 13   | 20    | 34    | 31    | 32    | 185    | 125   | 353    | 169    | 28    | 11    | 9.9   |
| 16    | 14   | 20    | 34    | 30    | 32    | 187    | 148   | 355    | 169    | 28    | 10    | 9.6   |
| 17    | 14   | 20    | 36    | 30    | 33    | 205    | 142   | 324    | 164    | 28    | 9.9   | 9.3   |
| 18    | 15   | 20    | 39    | 30    | 35    | 216    | 125   | 290    | 174    | 27    | 9.6   | 9.3   |
| 19    | 15   | 20    | 42    | 30    | 37    | 199    | 113   | 274    | 173    | 25    | 9.3   | 9.3   |
| 20    | 15   | 20    | 45    | 30    | 39    | 203    | 108   | 230    | 163    | 24    | 9.6   | 8.8   |
| 21    | 15   | 20    | 46    | 29    | 43    | 218    | 109   | 176    | 150    | 20    | 9.6   | 8.8   |
| 22    | 15   | 20    | 48    | 29    | 45    | 214    | 118   | 150    | 136    | 21    | 8.8   | 8.3   |
| 23    | 15   | 20    | 52    | 29    | 43    | 196    | 131   | 142    | 129    | 20    | 8.8   | 9.0   |
| 24    | 15   | 20    | 54    | 29    | 41    | 164    | 150   | 168    | 114    | 20    | 8.3   | 9.3   |
| 25    | 15   | 20    | 56    | 28    | 33    | 207    | 131   | 197    | 102    | 19    | 8.5   | 9.3   |
| 26    | 15   | 28    | 48    | 28    | 33    | 161    | 125   | 246    | 94     | 18    | 8.5   | 12    |
| 27    | 15   | 48    | 44    | 28    | 36    | 147    | 140   | 300    | 91     | 18    | 8.5   | 22    |
| 28    | 15   | 57    | 41    | 28    | 48    | 134    | 174   | 362    | 89     | 16    | 9.0   | 18    |
| 29    | 15   | 39    | 37    | 28    | 72    | 125    | 188   | 405    | 83     | 17    | 9.0   | 15    |
| 30    | 15   | 39    | 35    | 27    | ----- | 118    | 188   | 410    | 83     | 17    | 13    | 14    |
| 31    | 14   | ----- | 34    | 27    | ----- | 116    | ----- | 412    | -----  | 17    | 11    | ----- |
| TOTAL | 459  | 733   | 1,195 | 949   | 985   | 5,415  | 4,189 | 8,567  | 6,900  | 988   | 343.8 | 336.7 |
| MEAN  | 14.8 | 24.4  | 38.5  | 30.6  | 34.0  | 175    | 140   | 276    | 230    | 31.9  | 11.2  | 11.2  |
| MAX   | 17   | 57    | 56    | 36    | 72    | 218    | 220   | 412    | 441    | 71    | 16    | 22    |
| MIN   | 13   | 14    | 31    | 27    | 26    | 52     | 108   | 142    | 83     | 17    | 8.5   | 8.5   |
| AC-FT | 910  | 1,450 | 2,370 | 1,880 | 1,950 | 10,740 | 9,310 | 16,990 | 13,690 | 1,960 | 686   | 668   |

WTR YR 1972 TOTAL 31,062.5 MEAN 84.9 MAX 441 MIN 8.5 AC-FT 61,610

PEAK DISCHARGE (BASE, 300 CFS)

| DATE | TIME | G.H. | DISCHARGE | DATE | TIME | G.H. | DISCHARGE |
|------|------|------|-----------|------|------|------|-----------|
| 4-13 | 0800 | 3.34 | 353       | 5-16 | 0600 | 3.74 | 405       |
| 5- 6 | 0100 | 3.40 | 366       | 6- 1 | 0600 | 4.10 | 518       |



## 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 miles from outlet and 3.8 miles west-southwest of Tahoe Valley.

DRAINAGE AREA.--16.7 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,372.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1959.

EXTREMES.--Current year: Maximum gage height, 4.53 ft June 23; minimum, 1.84 ft Nov. 10.

Period of record: Maximum gage height, 5.51 ft Jan. 22, 1970; minimum, 1.84 ft 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 1971 TO SEPTEMBER 1972

| DAY  | OCT  | NOV   | DEC  | JAN  | FEB   | MAR  | APR   | MAY  | JUN   | JUL  | AUG  | SEP   |
|------|------|-------|------|------|-------|------|-------|------|-------|------|------|-------|
| 1    | 2.92 | 2.02  | 2.34 | 2.59 | 2.33  | 2.49 | 2.83  | 3.16 | 4.51  | 4.46 | 3.83 | 3.18  |
| 2    | 2.89 | 2.01  | 2.36 | 2.56 | 2.32  | 2.53 | 2.82  | 3.26 | 4.53  | 4.44 | 3.81 | 3.18  |
| 3    | 2.87 | 2.00  | 2.36 | 2.53 | 2.31  | 2.64 | 2.81  | 3.38 | 4.49  | 4.42 | 3.79 | 3.17  |
| 4    | 2.83 | 1.99  | 2.36 | 2.51 | 2.31  | 2.73 | 2.85  | 3.50 | 4.44  | 4.38 | 3.78 | 3.17  |
| 5    | 2.81 | 1.97  | 2.36 | 2.49 | 2.34  | 2.78 | 3.03  | 3.63 | 4.42  | 4.36 | 3.77 | 3.16  |
| 6    | 2.78 | 1.97  | 2.37 | 2.47 | 2.33  | 2.82 | 3.06  | 3.75 | 4.42  | 4.33 | 3.76 | 3.14  |
| 7    | 2.76 | 1.94  | 2.35 | 2.45 | 2.33  | 2.84 | 3.06  | 3.78 | 4.43  | 4.30 | 3.74 | 3.13  |
| 8    | 2.73 | 1.91  | 2.35 | 2.43 | 2.32  | 2.87 | 3.02  | 3.81 | 4.44  | 4.27 | 3.72 | 3.11  |
| 9    | 2.72 | 1.87  | 2.36 | 2.42 | 2.31  | 2.90 | 2.99  | 3.83 | 4.44  | 4.24 | 3.72 | 3.07  |
| 10   | 2.70 | 1.84  | 2.40 | 2.41 | 2.31  | 2.94 | 2.96  | 3.86 | 4.37  | 4.22 | 3.70 | 3.03  |
| 11   | 2.68 | 2.03  | 2.39 | 2.39 | 2.30  | 2.95 | 3.06  | 3.89 | 4.27  | 4.21 | 3.66 | 3.00  |
| 12   | 2.66 | 2.07  | 2.49 | 2.37 | 2.29  | 2.96 | 3.17  | 3.94 | 4.18  | 4.21 | 3.61 | 2.98  |
| 13   | 2.62 | 2.15  | 2.49 | 2.36 | 2.28  | 2.96 | 3.15  | 4.02 | 4.13  | 4.20 | 3.57 | 2.96  |
| 14   | 2.58 | 2.15  | 2.48 | 2.35 | 2.28  | 2.96 | 3.11  | 4.12 | 4.11  | 4.20 | 3.53 | 2.94  |
| 15   | 2.55 | 2.14  | 2.47 | 2.34 | 2.28  | 2.96 | 3.07  | 4.22 | 4.15  | 4.18 | 3.48 | 2.93  |
| 16   | 2.51 | 2.14  | 2.45 | 2.32 | 2.27  | 2.96 | 3.05  | 4.28 | 4.23  | 4.17 | 3.43 | 2.91  |
| 17   | 2.48 | 2.13  | 2.44 | 2.31 | 2.26  | 2.97 | 3.03  | 4.28 | 4.30  | 4.16 | 3.42 | 2.90  |
| 18   | 2.44 | 2.12  | 2.43 | 2.30 | 2.26  | 2.99 | 3.00  | 4.26 | 4.38  | 4.14 | 3.40 | 2.87  |
| 19   | 2.40 | 2.10  | 2.42 | 2.30 | 2.26  | 3.00 | 2.97  | 4.27 | 4.44  | 4.10 | 3.39 | 2.83  |
| 20   | 2.37 | 2.10  | 2.39 | 2.29 | 2.26  | 3.00 | 2.95  | 4.19 | 4.49  | 4.08 | 3.35 | 2.82  |
| 21   | 2.35 | 2.09  | 2.41 | 2.28 | 2.28  | 3.03 | 2.94  | 4.10 | 4.50  | 4.06 | 3.34 | 2.78  |
| 22   | 2.30 | 2.08  | 2.60 | 2.29 | 2.35  | 3.09 | 2.94  | 4.01 | 4.49  | 4.04 | 3.32 | 2.76  |
| 23   | 2.27 | 2.08  | 2.62 | 2.33 | 2.34  | 3.06 | 2.94  | 3.97 | 4.47  | 4.02 | 3.31 | 2.73  |
| 24   | 2.25 | 2.07  | 2.69 | 2.32 | 2.42  | 3.03 | 2.99  | 3.99 | 4.47  | 3.98 | 3.29 | 2.70  |
| 25   | 2.22 | 2.05  | 2.81 | 2.35 | 2.45  | 3.05 | 2.99  | 4.04 | 4.47  | 3.96 | 3.27 | 2.68  |
| 26   | 2.20 | 2.14  | 2.78 | 2.35 | 2.44  | 3.01 | 2.99  | 4.12 | 4.47  | 3.94 | 3.25 | 2.75  |
| 27   | 2.15 | 2.18  | 2.76 | 2.40 | 2.43  | 2.97 | 3.00  | 4.22 | 4.47  | 3.92 | 3.24 | 2.84  |
| 28   | 2.11 | 2.31  | 2.71 | 2.40 | 2.48  | 2.93 | 3.03  | 4.31 | 4.47  | 3.90 | 3.22 | 2.85  |
| 29   | 2.08 | 2.34  | 2.69 | 2.39 | 2.50  | 2.90 | 3.08  | 4.37 | 4.47  | 3.88 | 3.21 | 2.84  |
| 30   | 2.06 | 2.34  | 2.61 | 2.38 | ----- | 2.88 | 3.11  | 4.42 | 4.47  | 3.87 | 3.20 | 2.84  |
| 31   | 2.04 | ----- | 2.61 | 2.34 | ----- | 2.85 | ----- | 4.48 | ----- | 3.85 | 3.19 | ----- |
| MEAN | 2.49 | 2.08  | 2.50 | 2.39 | 2.33  | 2.90 | 3.00  | 3.98 | 4.40  | 4.14 | 3.49 | 2.94  |
| MAX  | 2.92 | 2.34  | 2.81 | 2.59 | 2.50  | 3.09 | 3.17  | 4.48 | 4.53  | 4.46 | 3.83 | 3.18  |
| MIN  | 2.04 | 1.84  | 2.34 | 2.28 | 2.26  | 2.49 | 2.81  | 3.16 | 4.11  | 3.85 | 3.19 | 2.68  |

CAL YR 1971 Max 4.22 Min 1.84  
WTR YR 1972 Mean 3.06 Max 4.53 Min 1.84

## PYRAMID AND WINNEMUCCA LAKES BASIN

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10336626 Taylor Creek near Tahoe Valley, Calif.

LOCATION.--Lat 38°55'20", long 120°03'35", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.12 N., R.17 E., El Dorado County, on left bank 0.1 mile downstream from Fallen Leaf Lake outlet, and 3.0 miles west of Tahoe Valley.

DRAINAGE AREA.--16.7 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum discharge, 192 cfs June 23 (gage height, 4.23 ft); minimum daily, 3.4 cfs Sept. 25.

Period of record: Maximum discharge, 1,070 cfs Jan. 22, 1970 (gage height, 5.63 ft); minimum daily, 0.20 cfs Oct. 4-7, 1970.

REMARKS.--Records good. Flow regulated by Fallen Leaf Lake Dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1           | 12    | 7.7      | 11    | 24    | 17    | 22    | 43    | 54    | 183   | 36     | 7.3   | 5.5   |
| 2           | 17    | 7.3      | 13    | 23    | 15    | 23    | 40    | 49    | 191   | 35     | 7.2   | 5.2   |
| 3           | 16    | 7.1      | 13    | 22    | 15    | 27    | 34    | 43    | 189   | 34     | 7.1   | 5.3   |
| 4           | 16    | 7.1      | 13    | 20    | 14    | 35    | 34    | 50    | 178   | 29     | 6.5   | 5.0   |
| 5           | 17    | 6.6      | 13    | 19    | 13    | 40    | 39    | 58    | 170   | 24     | 6.1   | 5.0   |
| 6           | 17    | 6.6      | 14    | 19    | 16    | 43    | 48    | 68    | 169   | 23     | 6.0   | 4.8   |
| 7           | 16    | 6.8      | 13    | 17    | 15    | 45    | 48    | 79    | 169   | 21     | 5.9   | 4.6   |
| 8           | 16    | 6.2      | 12    | 16    | 15    | 43    | 47    | 79    | 171   | 16     | 5.9   | 4.5   |
| 9           | 16    | 6.6      | 14    | 16    | 14    | 53    | 43    | 80    | 172   | 16     | 6.0   | 4.5   |
| 10          | 16    | 5.9      | 14    | 16    | 14    | 58    | 43    | 83    | 166   | 16     | 6.3   | 4.5   |
| 11          | 16    | 6.2      | 16    | 15    | 13    | 57    | 43    | 86    | 148   | 15     | 6.5   | 4.5   |
| 12          | 16    | 7.5      | 19    | 20    | 13    | 58    | 53    | 91    | 133   | 14     | 6.2   | 4.4   |
| 13          | 16    | 8.6      | 19    | 17    | 12    | 58    | 57    | 98    | 123   | 12     | 5.9   | 4.4   |
| 14          | 16    | 8.9      | 19    | 16    | 13    | 59    | 53    | 110   | 101   | 12     | 5.9   | 4.4   |
| 15          | 16    | 8.6      | 18    | 16    | 13    | 58    | 50    | 121   | 63    | 11     | 6.1   | 4.4   |
| 16          | 16    | 8.4      | 17    | 15    | 13    | 58    | 47    | 132   | 32    | 12     | 6.6   | 4.3   |
| 17          | 16    | 8.2      | 16    | 15    | 12    | 59    | 44    | 137   | 28    | 12     | 6.5   | 4.3   |
| 18          | 15    | 7.9      | 16    | 14    | 12    | 62    | 42    | 135   | 27    | 12     | 5.9   | 4.3   |
| 19          | 15    | 7.9      | 15    | 13    | 13    | 61    | 40    | 134   | 28    | 12     | 4.8   | 4.3   |
| 20          | 14    | 7.7      | 15    | 15    | 13    | 62    | 39    | 129   | 33    | 11     | 4.6   | 4.3   |
| 21          | 14    | 7.7      | 16    | 14    | 13    | 65    | 38    | 116   | 47    | 11     | 4.9   | 4.4   |
| 22          | 14    | 7.7      | 23    | 14    | 16    | 75    | 37    | 104   | 55    | 10     | 5.3   | 4.2   |
| 23          | 14    | 7.5      | 28    | 16    | 17    | 74    | 39    | 97    | 47    | 9.8    | 5.3   | 4.3   |
| 24          | 13    | 7.7      | 28    | 15    | 17    | 70    | 42    | 95    | 34    | 9.4    | 5.0   | 3.9   |
| 25          | 12    | 7.7      | 36    | 16    | 19    | 79    | 41    | 98    | 33    | 9.4    | 4.9   | 3.4   |
| 26          | 12    | 7.7      | 39    | 17    | 19    | 65    | 41    | 106   | 33    | 8.9    | 4.7   | 3.9   |
| 27          | 12    | 9.1      | 36    | 19    | 19    | 58    | 41    | 120   | 34    | 7.8    | 4.4   | 4.0   |
| 28          | 10    | 10       | 34    | 19    | 21    | 54    | 45    | 138   | 36    | 7.6    | 4.5   | 4.2   |
| 29          | 9.1   | 11       | 31    | 18    | 23    | 50    | 47    | 151   | 36    | 7.5    | 4.4   | 5.0   |
| 30          | 8.9   | 12       | 28    | 17    | ----- | 46    | 50    | 161   | 36    | 7.3    | 4.4   | 5.0   |
| 31          | 7.9   | -----    | 26    | 16    | ----- | 44    | ----- | 172   | ----- | 7.3    | 4.9   | ----- |
| TOTAL       | 441.9 | 235.9    | 625   | 529   | 439   | 1,666 | 1,308 | 3,174 | 2,365 | 469.0  | 176.0 | 134.8 |
| MEAN        | 14.3  | 7.86     | 20.2  | 17.1  | 15.1  | 53.7  | 43.6  | 102   | 95.5  | 15.1   | 5.68  | 4.49  |
| MAX         | 17    | 12       | 39    | 24    | 23    | 79    | 57    | 172   | 191   | 36     | 7.3   | 5.5   |
| MIN         | 7.9   | 5.9      | 11    | 13    | 12    | 22    | 34    | 43    | 27    | 7.3    | 4.4   | 3.4   |
| AC-FT       | 877   | 468      | 1,240 | 1,050 | 871   | 3,300 | 2,590 | 6,300 | 5,680 | 930    | 349   | 267   |
| CAL YR 1971 | TOTAL | 17,099.2 | MEAN  | 46.8  | MAX   | 269   | MIN   | 5.8   | AC-FT | 33,920 |       |       |
| WTR YR 1972 | TOTAL | 12,063.6 | MEAN  | 33.0  | MAX   | 191   | MIN   | 3.4   | AC-FT | 23,930 |       |       |

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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,560 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 128 cfs May 31 (gage height, 3.08 ft); minimum daily, 0.23 cfs Sept. 25.

REMARKS.--Records good. Some minor natural regulation by Eagle Lake and other small lakes in the basin. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | .50   | .62    | 6.8   | 3.8   | 4.0   | 8.2   | 7.7   | 43    | 112   | 29    | 3.5   | .82   |
| 2     | .50   | .62    | 5.8   | 3.6   | 3.5   | 10    | 10    | 52    | 106   | 26    | 3.6   | .83   |
| 3     | .50   | .62    | 5.8   | 3.5   | 3.4   | 28    | 14    | 58    | 90    | 24    | 3.5   | .86   |
| 4     | .50   | .62    | 5.8   | 3.5   | 3.2   | 40    | 20    | 62    | 82    | 19    | 2.8   | .96   |
| 5     | .50   | .59    | 5.2   | 3.5   | 3.3   | 38    | 32    | 69    | 84    | 17    | 2.2   | 1.0   |
| 6     | .50   | .56    | 5.4   | 3.2   | 3.3   | 32    | 27    | 67    | 95    | 16    | 1.9   | 1.0   |
| 7     | .50   | .56    | 5.4   | 3.2   | 3.5   | 30    | 22    | 58    | 95    | 14    | 1.9   | 1.0   |
| 8     | .50   | .50    | 5.6   | 3.2   | 3.5   | 31    | 17    | 46    | 92    | 12    | 1.9   | .96   |
| 9     | .50   | .44    | 4.9   | 3.2   | 3.3   | 34    | 14    | 45    | 101   | 9.4   | 2.2   | .86   |
| 10    | .50   | .35    | 5.2   | 3.0   | 3.2   | 37    | 13    | 45    | 73    | 9.0   | 2.4   | .78   |
| 11    | .50   | 7.7    | 5.8   | 2.8   | 3.2   | 34    | 13    | 53    | 49    | 9.2   | 1.9   | .68   |
| 12    | .50   | 26     | 8.2   | 2.8   | 3.2   | 29    | 14    | 62    | 43    | 10    | 1.8   | .65   |
| 13    | .50   | 16     | 9.4   | 2.7   | 3.0   | 27    | 16    | 73    | 49    | 11    | 1.4   | .59   |
| 14    | .50   | 10     | 8.0   | 2.7   | 3.0   | 28    | 15    | 86    | 57    | 11    | 1.3   | .53   |
| 15    | .50   | 7.4    | 7.2   | 2.7   | 3.0   | 26    | 13    | 93    | 58    | 10    | 1.1   | .65   |
| 16    | 1.4   | 5.4    | 6.0   | 2.7   | 3.0   | 26    | 14    | 90    | 57    | 10    | .96   | .44   |
| 17    | 1.2   | 4.7    | 5.1   | 2.7   | 3.0   | 32    | 15    | 74    | 51    | 11    | .91   | .59   |
| 18    | 1.0   | 4.1    | 4.3   | 3.1   | 3.3   | 34    | 13    | 61    | 52    | 11    | .86   | .37   |
| 19    | .82   | 3.5    | 4.0   | 3.5   | 3.5   | 29    | 10    | 51    | 54    | 9.4   | .82   | .35   |
| 20    | .71   | 2.8    | 3.6   | 3.5   | 4.3   | 30    | 10    | 37    | 49    | 8.2   | .78   | .33   |
| 21    | .65   | 2.7    | 3.6   | 3.5   | 4.7   | 35    | 11    | 28    | 44    | 7.2   | .71   | .33   |
| 22    | .65   | 2.5    | 3.5   | 3.5   | 5.6   | 32    | 15    | 27    | 40    | 6.4   | .74   | .31   |
| 23    | .65   | 2.5    | 3.5   | 3.5   | 5.4   | 25    | 20    | 38    | 38    | 5.4   | .68   | .29   |
| 24    | .65   | 2.7    | 3.5   | 3.5   | 5.2   | 20    | 23    | 50    | 34    | 4.5   | .63   | .25   |
| 25    | .82   | 2.7    | 3.5   | 3.5   | 6.4   | 22    | 18    | 65    | 29    | 4.1   | .68   | .23   |
| 26    | .82   | 7.7    | 3.5   | 3.5   | 7.0   | 18    | 17    | 83    | 26    | 4.0   | .65   | .43   |
| 27    | .78   | 19     | 3.5   | 3.5   | 7.0   | 15    | 23    | 99    | 27    | 3.8   | .68   | 7.6   |
| 28    | .78   | 16     | 3.5   | 3.5   | 8.7   | 13    | 37    | 102   | 30    | 3.6   | .65   | 19    |
| 29    | .78   | 12     | 3.5   | 3.5   | 10    | 11    | 38    | 104   | 33    | 3.3   | .65   | 10    |
| 30    | .74   | 9.0    | 3.5   | 3.8   | ----- | 10    | 36    | 106   | 32    | 3.0   | .74   | 6.4   |
| 31    | .68   | -----  | 3.8   | 3.8   | ----- | 10    | ----- | 110   | ----- | 2.8   | .82   | ----- |
| TOTAL | 20.63 | 169.88 | 156.4 | 102.0 | 126.6 | 794.2 | 549.7 | 2,037 | 1,782 | 324.3 | 45.41 | 58.89 |
| MEAN  | .67   | 5.66   | 5.05  | 3.29  | 4.37  | 25.6  | 18.3  | 65.7  | 59.4  | 10.5  | 1.46  | 1.96  |
| MAX   | 1.4   | 26     | 9.4   | 3.8   | 10    | 40    | 38    | 110   | 112   | 29    | 3.6   | 19    |
| MIN   | .50   | .35    | 3.5   | 2.7   | 3.0   | 8.2   | 9.7   | 27    | 26    | 2.8   | .65   | .23   |
| AC-FT | 41    | 337    | 310   | 202   | 251   | 1,580 | 1,090 | 4,040 | 3,530 | 643   | 90    | 117   |

WTR YR 1972 TOTAL 6,167.01 MEAN 16.8 MAX 112 MIN .23 AC-FT 12,230

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LOCATION.--Lat 39°02'09", long 120°07'23", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  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.

EXTREMES.--Current year: Maximum discharge, 104 cfs May 15 (gage height, 2.64 ft); minimum daily, 0.18 cfs Aug. 20-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2, 1971 TO SEPTEMBER 1972

WTR YR 1972 TOTAL 4,876.84 MEAN 13.3 MAX 84 MIN .18 AC-FT 9,670

| PEAK DISCHARGE (BASE, 30 CFS) |      |      |           |      |      |      |           |
|-------------------------------|------|------|-----------|------|------|------|-----------|
| DATE                          | TIME | G.H. | DISCHARGE | DATE | TIME | G.H. | DISCHARGE |
| 3-10                          | 2100 | 2.12 | 45        | 5-15 | 0400 | 2.64 | 104       |
| 4- 5                          | 1700 | 2.38 | 70        | 5-29 | 0500 | 2.59 | 97        |

## PYRAMID AND WINNEMUCCA LAKES BASIN

## 10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°04'34", long 120°09'06", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,330 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 17 cfs May 14, 17 (gage height, 2.29 ft); maximum gage height, 2.32 ft June 1; minimum daily discharge, 0.17 cfs Aug. 9-15, 23-28.

REMARKS.--Records good. Slight regulation at times from Quail Lake. No known diversions above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | .37   | .37   | .70   | .37   | .29   | .98   | 2.3   | 5.4   | 14    | 2.3   | .26  | .23   |
| 2     | .37   | .37   | .64   | .37   | .26   | 1.2   | 2.7   | 7.1   | 13    | 2.3   | .26  | .23   |
| 3     | .37   | .37   | .64   | .37   | .29   | 2.6   | 3.1   | 8.3   | 11    | 2.0   | .26  | .20   |
| 4     | .37   | .37   | .58   | .37   | .26   | 2.1   | 3.6   | 9.4   | 9.1   | 1.9   | .26  | .23   |
| 5     | .37   | .37   | .58   | .37   | .26   | 1.7   | 6.6   | 10    | 9.1   | 1.7   | .23  | .20   |
| 6     | .37   | .37   | .64   | .42   | .26   | 1.5   | 5.4   | 10    | 8.3   | 1.4   | .20  | .20   |
| 7     | .37   | .37   | .52   | .47   | .26   | 1.4   | 4.2   | 9.5   | 8.0   | 1.2   | .20  | .20   |
| 8     | .37   | .33   | .47   | .47   | .23   | 1.2   | 3.4   | 8.3   | 8.3   | 1.2   | .20  | .20   |
| 9     | .37   | .33   | .47   | .52   | .23   | 1.3   | 3.2   | 8.3   | 8.3   | 1.2   | .17  | .20   |
| 10    | .37   | .33   | .42   | .52   | .23   | 1.7   | 3.2   | 8.7   | 7.1   | 1.0   | .17  | .20   |
| 11    | .37   | .90   | .42   | .47   | .23   | 1.9   | 3.4   | 8.7   | 5.6   | .98   | .17  | .20   |
| 12    | .37   | .98   | .42   | .47   | .23   | 1.6   | 3.4   | 9.1   | 5.4   | .90   | .17  | .23   |
| 13    | .37   | .76   | .42   | .42   | .23   | 1.6   | 3.2   | 11    | 4.8   | .70   | .17  | .23   |
| 14    | .37   | .70   | .42   | .42   | .23   | 1.6   | 2.6   | 15    | 4.0   | .64   | .17  | .23   |
| 15    | .37   | .58   | .37   | .42   | .23   | 1.5   | 2.6   | 15    | 4.4   | .58   | .17  | .20   |
| 16    | .42   | .58   | .37   | .42   | .23   | 1.7   | 2.7   | 15    | 5.2   | .47   | .20  | .20   |
| 17    | .42   | .58   | .37   | .37   | .23   | 2.0   | 2.6   | 9.9   | 5.2   | .37   | .20  | .20   |
| 18    | .42   | .58   | .37   | .37   | .23   | 2.0   | 2.6   | 3.8   | 5.0   | .42   | .20  | .20   |
| 19    | .42   | .58   | .37   | .37   | .26   | 2.0   | 2.6   | 9.5   | 4.8   | .37   | .20  | .23   |
| 20    | .42   | .58   | .37   | .37   | .29   | 2.6   | 2.7   | 9.5   | 4.6   | .37   | .20  | .23   |
| 21    | .42   | .58   | .37   | .37   | .33   | 3.5   | 2.8   | 8.3   | 4.4   | .31   | .20  | .20   |
| 22    | .42   | .58   | .58   | .37   | .33   | 4.0   | 3.1   | 7.7   | 4.3   | .33   | .20  | .20   |
| 23    | .42   | .58   | .76   | .33   | .29   | 3.5   | 3.4   | 8.3   | 3.6   | .29   | .17  | .20   |
| 24    | .42   | .58   | .64   | .33   | .29   | 3.2   | 3.6   | 10    | 3.5   | 1.8   | .17  | .20   |
| 25    | .42   | .58   | .52   | .29   | .37   | 4.4   | 3.4   | 10    | 3.1   | .42   | .17  | .23   |
| 26    | .42   | 1.2   | .52   | .29   | .37   | 3.5   | 3.4   | 11    | 3.0   | .37   | .17  | .60   |
| 27    | .42   | 1.2   | .52   | .26   | .42   | 3.2   | 3.6   | 12    | 2.7   | .33   | .17  | .69   |
| 28    | .37   | 1.2   | .47   | .29   | .64   | 2.7   | 4.6   | 12    | 2.2   | .33   | .17  | .42   |
| 29    | .37   | .90   | .47   | .26   | 1.3   | 2.3   | 5.2   | 15    | 2.1   | .29   | .20  | .37   |
| 30    | .37   | .82   | .42   | .26   | ----- | 2.3   | 5.2   | 12    | 2.0   | .29   | .20  | .33   |
| 31    | .37   | ----- | .37   | .26   | ----- | 2.2   | ----- | 10    | ----- | .26   | .20  | ----- |
| TOTAL | 12.07 | 18.62 | 15.20 | 11.66 | 9.30  | 68.98 | 104.4 | 308.3 | 175.8 | 27.02 | 6.08 | 7.68  |
| MEAN  | .39   | .62   | .49   | .38   | .32   | 2.23  | 3.48  | 9.95  | 5.86  | .87   | .20  | .26   |
| MAX   | .42   | 1.2   | .76   | .52   | 1.3   | 4.4   | 6.6   | 15    | 14    | 2.3   | .26  | .69   |
| MIN   | .37   | .33   | .37   | .26   | .23   | .98   | 2.3   | 3.8   | 2.0   | .26   | .17  | .20   |
| AC-FT | 24    | 37    | 30    | 23    | 18    | 137   | 207   | 612   | 349   | 54    | 12   | 15    |

WTR YR 1972 TOTAL 765.11 MEAN 2.09 MAX 15 MIN .17 AC-FT 1,520



## PYRAMID AND WINNEMUCCA LAKES BASIN

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10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 33°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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,780 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 37 cfs May 31 (gage height, 2.80 ft); minimum daily, 0.48 cfs Feb. 17-19.

REMARKS.--Records good. Slight regulation may occur from Lake Louise. No diversions above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|
| 1     | .72   | 1.0   | .67   | .72   | .62   | .84    | 3.3   | 9.6   | 29    | 7.0  | 1.0   | .90   |
| 2     | .72   | 1.0   | .67   | .67   | .62   | 1.3    | 3.9   | 12    | 28    | 6.6  | .96   | .96   |
| 3     | .72   | .96   | .67   | .67   | .62   | 5.0    | 4.7   | 14    | 23    | 5.6  | .96   | .96   |
| 4     | .72   | .96   | .67   | .67   | .62   | 5.0    | 5.9   | 16    | 23    | 5.3  | .96   | 1.1   |
| 5     | .72   | .96   | .67   | .67   | .62   | 3.7    | 8.5   | 18    | 24    | 4.7  | .96   | 1.0   |
| 6     | .72   | .90   | .67   | .67   | .62   | 3.1    | 7.0   | 17    | 24    | 4.2  | .90   | 1.0   |
| 7     | .72   | .90   | .67   | .67   | .58   | 3.3    | 5.6   | 16    | 24    | 3.9  | .84   | 1.0   |
| 8     | .72   | .84   | .67   | .67   | .58   | 3.5    | 5.3   | 16    | 25    | 2.9  | .78   | 1.0   |
| 9     | .72   | .84   | .67   | .62   | .58   | 3.9    | 4.7   | 15    | 23    | 2.9  | .72   | .96   |
| 10    | .72   | .84   | .67   | .62   | .58   | 4.4    | 4.4   | 15    | 21    | 2.6  | .72   | .96   |
| 11    | .72   | 2.9   | .67   | .62   | .54   | 4.4    | 4.4   | 16    | 18    | 2.4  | .72   | 1.0   |
| 12    | .72   | 1.4   | .67   | .62   | .54   | 4.2    | 4.2   | 15    | 15    | 2.6  | .72   | 1.0   |
| 13    | .72   | 1.0   | .72   | .62   | .51   | 5.0    | 3.7   | 16    | 15    | 2.7  | .72   | 1.0   |
| 14    | .84   | .96   | .72   | .62   | .51   | 4.7    | 3.5   | 17    | 16    | 2.6  | .72   | 1.0   |
| 15    | .96   | .96   | .67   | .62   | .51   | 4.4    | 3.7   | 19    | 18    | 2.4  | .72   | .96   |
| 16    | 1.1   | .78   | .67   | .62   | .51   | 5.0    | 3.9   | 20    | 17    | 2.3  | .72   | 1.0   |
| 17    | 1.0   | .72   | .62   | .62   | .48   | 6.2    | 3.9   | 20    | 17    | 2.1  | .72   | 1.0   |
| 18    | 1.0   | .72   | .58   | .62   | .48   | 6.2    | 3.5   | 19    | 17    | 2.1  | .72   | 1.0   |
| 19    | 1.1   | .72   | .58   | .67   | .48   | 6.6    | 3.3   | 18    | 17    | 2.0  | .72   | 1.0   |
| 20    | 1.2   | .72   | .58   | .67   | .51   | 6.6    | 3.3   | 15    | 16    | 1.8  | .72   | 1.0   |
| 21    | 1.2   | .72   | .58   | .72   | .58   | 7.7    | 3.7   | 13    | 14    | 1.8  | .67   | 1.0   |
| 22    | 1.2   | .72   | .62   | .72   | .58   | 7.7    | 4.2   | 12    | 13    | 1.8  | .67   | 1.0   |
| 23    | 1.2   | .72   | .78   | .72   | .62   | 6.2    | 5.3   | 13    | 12    | 1.8  | .67   | 1.0   |
| 24    | 1.2   | .67   | .72   | .72   | .62   | 5.9    | 5.3   | 15    | 11    | 1.7  | .67   | 1.0   |
| 25    | 1.2   | .67   | .72   | .72   | .62   | 6.2    | 4.4   | 15    | 9.6   | 1.6  | .58   | 1.1   |
| 26    | 1.3   | 2.3   | .72   | .67   | .62   | 5.3    | 4.7   | 18    | 8.5   | 1.5  | .58   | 1.8   |
| 27    | 1.4   | 1.3   | .72   | .67   | .62   | 4.7    | 5.9   | 21    | 8.1   | 1.4  | .58   | 1.8   |
| 28    | 1.3   | .96   | .72   | .67   | .84   | 4.2    | 8.1   | 25    | 8.1   | 1.3  | .67   | 1.4   |
| 29    | 1.1   | .84   | .72   | .67   | 1.0   | 3.7    | 8.5   | 26    | 8.1   | 1.3  | .84   | 1.3   |
| 30    | 1.0   | .78   | .72   | .62   | ----- | 3.5    | 8.9   | 26    | 8.1   | 1.3  | .84   | 1.2   |
| 31    | 1.0   | ----- | .72   | .62   | ----- | 3.5    | ----- | 29    | ----- | 1.3  | .84   | ----- |
| TOTAL | 29.66 | 29.76 | 20.92 | 20.47 | 17.21 | 145.94 | 149.7 | 536.6 | 510.5 | 85.5 | 23.61 | 32.40 |
| MEAN  | .96   | .99   | .67   | .66   | .59   | 4.71   | 4.99  | 17.3  | 17.0  | 2.76 | .76   | 1.08  |
| MAX   | 1.4   | 2.9   | .78   | .72   | 1.0   | 7.7    | 8.9   | 29    | 29    | 7.0  | 1.0   | 1.8   |
| MIN   | .72   | .67   | .58   | .62   | .48   | .84    | 3.3   | 9.6   | 8.1   | 1.3  | .58   | .90   |
| AC-FT | 59    | 59    | 41    | 41    | 34    | 289    | 297   | 1,060 | 1,010 | 170  | 47    | 64    |

WTR YR 1972 TOTAL 1,602.27 MEAN 4.38 MAX 29 MIN .48 AC-FT 3,180

PEAK DISCHARGE (BASE, 15 CFS).--May 31 (2000) 37 cfs (2.80 ft).

## 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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 41 cfs May 31 (gage height, 1.77 ft); minimum daily, 0.04 cfs Aug. 28, Sept. 19.

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 CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|-------|
| 1     | .14  | .31   | .57   | .31   | .31   | .70    | 4.2   | 9.2   | 34    | 6.6   | .28  | .06   |
| 2     | .14  | .31   | .46   | .31   | .31   | 1.3    | 4.4   | 12    | 33    | 5.6   | .25  | .06   |
| 3     | .14  | .28   | .57   | .31   | .31   | 4.6    | 4.9   | 14    | 32    | 5.3   | .23  | .05   |
| 4     | .14  | .25   | .57   | .31   | .31   | 4.7    | 5.3   | 17    | 30    | 4.9   | .23  | .10   |
| 5     | .14  | .21   | .51   | .35   | .31   | 4.0    | 7.4   | 19    | 31    | 4.5   | .21  | .15   |
| 6     | .14  | .19   | .57   | .35   | .31   | 3.3    | 6.3   | 20    | 30    | 4.2   | .15  | .10   |
| 7     | .14  | .19   | .46   | .35   | .31   | 3.3    | 5.6   | 18    | 28    | 4.0   | .12  | .06   |
| 8     | .14  | .19   | .42   | .35   | .28   | 3.3    | 5.6   | 17    | 28    | 3.5   | .12  | .05   |
| 9     | .14  | .19   | .38   | .35   | .28   | 4.0    | 5.3   | 16    | 25    | 2.5   | .09  | .05   |
| 10    | .14  | .17   | .35   | .35   | .28   | 4.2    | 4.9   | 17    | 23    | 2.3   | .09  | .05   |
| 11    | .14  | 2.5   | .35   | .35   | .28   | 4.5    | 4.9   | 17    | 16    | 2.1   | .13  | .05   |
| 12    | .14  | 1.8   | .35   | .35   | .28   | 4.5    | 4.9   | 19    | 14    | 2.1   | .09  | .06   |
| 13    | .14  | .38   | .35   | .35   | .28   | 4.5    | 4.5   | 20    | 14    | 2.5   | .09  | .06   |
| 14    | .14  | .63   | .35   | .31   | .28   | 4.7    | 4.4   | 25    | 15    | 2.3   | .09  | .06   |
| 15    | .30  | .63   | .35   | .31   | .28   | 4.5    | 4.2   | 30    | 16    | 2.3   | .09  | .05   |
| 16    | .20  | .57   | .31   | .31   | .28   | 5.1    | 4.4   | 30    | 16    | 1.6   | .07  | .05   |
| 17    | .18  | .51   | .35   | .31   | .28   | 5.6    | 4.4   | 28    | 14    | 2.0   | .08  | .05   |
| 18    | .18  | .51   | .35   | .31   | .28   | 6.3    | 4.4   | 24    | 15    | 1.6   | .07  | .05   |
| 19    | .18  | .46   | .35   | .35   | .28   | 6.0    | 4.2   | 19    | 15    | 1.5   | .06  | .04   |
| 20    | .18  | .42   | .35   | .31   | .31   | 6.6    | 4.0   | 15    | 14    | 1.3   | .06  | .05   |
| 21    | .18  | .42   | .35   | .31   | .35   | 7.4    | 4.2   | 12    | 13    | 1.5   | .06  | .05   |
| 22    | .18  | .38   | .35   | .38   | .35   | 7.1    | 4.7   | 12    | 12    | 1.3   | .06  | .05   |
| 23    | .18  | .38   | .35   | .35   | .35   | 6.0    | 5.5   | 12    | 11    | 1.1   | .06  | .05   |
| 24    | .18  | .42   | .35   | .35   | .35   | 5.6    | 5.6   | 14    | 10    | .94   | .10  | .05   |
| 25    | .18  | .42   | .35   | .35   | .35   | 6.3    | 5.1   | 16    | 8.2   | .80   | .06  | .05   |
| 26    | .18  | 2.1   | .35   | .35   | .35   | 5.6    | 5.1   | 20    | 7.7   | .70   | .06  | .88   |
| 27    | .21  | 1.1   | .35   | .35   | .35   | 5.1    | 6.0   | 26    | 7.4   | .63   | .05  | 1.3   |
| 28    | .22  | 1.3   | .31   | .35   | .57   | 4.7    | 7.7   | 32    | 7.1   | .51   | .04  | .46   |
| 29    | .24  | .94   | .31   | .31   | 1.1   | 4.4    | 8.0   | 33    | 7.4   | .46   | .07  | .35   |
| 30    | .28  | .57   | .31   | .31   | ----- | 4.2    | 8.2   | 34    | 7.1   | .46   | .07  | .31   |
| 31    | .31  | ----- | .31   | .31   | ----- | 4.2    | ----- | 35    | ----- | .42   | .05  | ----- |
| TOTAL | 5.52 | 18.73 | 12.01 | 10.32 | 9.96  | 146.30 | 158.3 | 632.2 | 533.9 | 71.52 | 3.28 | 4.80  |
| MEAN  | .18  | .62   | .39   | .33   | .34   | 4.72   | 5.28  | 20.4  | 17.8  | 2.31  | .11  | .16   |
| MAX   | .31  | 2.5   | .57   | .38   | 1.1   | 7.4    | 8.2   | 35    | 34    | 6.6   | .28  | 1.3   |
| MIN   | .14  | .17   | .31   | .31   | .28   | .70    | 4.0   | 9.2   | 7.1   | .42   | .04  | .04   |
| AC-FT | 11   | 37    | 24    | 20    | 20    | 290    | 314   | 1,250 | 1,060 | 142   | 6.5  | 9.5   |

WTR YR 1972 TOTAL 1,606.84 MEAN 4.39 MAX 35 MIN .04 AC-FT 3,190

PEAK DISCHARGE (BASE, 20 CFS).--May 14 (2000) 39 cfs (1.73 ft); May 31 (1800) 41 cfs (1.77 ft).

## PYRAMID AND WINNEMUCCA LAKES BASIN

119

10336660 Blackwood Creek near Tahoe City, Calif.

LOCATION.--Lat 39°06'26", long 120°09'40", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.36, T.15 N., R.16 E., Placer County, on right bank about 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 12.00 ft lower. Prior to Oct. 1, 1964, at site 400 ft downstream at datum 10.25 ft lower.

AVERAGE DISCHARGE.--12 years, 38.3 cfs (27,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 287 cfs May 13 (gage height, 2.41 ft); minimum daily, 2.2 cfs Sept. 9, 10.

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 1971 TO SEPTEMBER 1972

|       | Oct.  | Nov.  | Dec.  | Jan.  | Feb.  | Mar.   | Apr.  | May    | June   | July  | Aug. | Sept. |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|------|-------|
| 1     | 3.2   | 3.2   | 6.8   | 5.8   | 4.8   | 11     | 34    | 95     | 170    | 24    | 3.9  | 2.5   |
| 2     | 3.5   | 3.2   | 6.4   | 5.3   | 4.9   | 14     | 35    | 116    | 158    | 22    | 3.8  | 2.5   |
| 3     | 3.7   | 3.2   | 6.0   | 4.8   | 5.1   | 47     | 44    | 129    | 145    | 20    | 3.6  | 2.4   |
| 4     | 3.7   | 3.2   | 5.8   | 5.4   | 5.2   | 64     | 59    | 132    | 136    | 18    | 3.6  | 2.5   |
| 5     | 3.7   | 3.2   | 5.8   | 5.2   | 5.3   | 55     | 100   | 144    | 142    | 17    | 3.5  | 2.5   |
| 6     | 3.7   | 3.2   | 6.5   | 5.0   | 5.3   | 51     | 70    | 141    | 131    | 15    | 3.4  | 2.4   |
| 7     | 3.5   | 3.2   | 6.2   | 4.9   | 5.1   | 49     | 59    | 123    | 123    | 14    | 3.2  | 2.3   |
| 8     | 3.4   | 3.2   | 6.2   | 5.3   | 5.1   | 54     | 53    | 110    | 133    | 13    | 3.1  | 2.3   |
| 9     | 3.3   | 3.2   | 6.0   | 5.5   | 5.1   | 61     | 51    | 115    | 117    | 12    | 3.0  | 2.2   |
| 10    | 3.2   | 3.3   | 5.7   | 5.2   | 5.1   | 66     | 48    | 127    | 100    | 11    | 2.9  | 2.2   |
| 11    | 3.2   | 9.9   | 5.1   | 5.1   | 5.1   | 71     | 48    | 150    | 76     | 10    | 2.8  | 2.3   |
| 12    | 3.2   | 10    | 4.6   | 5.1   | 5.1   | 68     | 41    | 161    | 71     | 9.6   | 2.7  | 2.4   |
| 13    | 3.2   | 8.0   | 4.6   | 5.1   | 5.0   | 75     | 39    | 177    | 74     | 9.0   | 2.7  | 2.4   |
| 14    | 3.3   | 6.1   | 5.7   | 5.1   | 5.1   | 75     | 37    | 179    | 78     | 9.1   | 2.7  | 2.4   |
| 15    | 3.6   | 5.1   | 5.7   | 5.1   | 5.0   | 59     | 35    | 182    | 76     | 8.1   | 2.7  | 2.4   |
| 16    | 3.5   | 5.1   | 5.3   | 6.1   | 5.0   | 63     | 40    | 170    | 71     | 7.7   | 2.7  | 2.4   |
| 17    | 3.4   | 4.9   | 5.3   | 5.7   | 5.0   | 75     | 44    | 156    | 67     | 7.6   | 2.7  | 2.4   |
| 18    | 3.4   | 4.7   | 5.1   | 5.7   | 5.1   | 77     | 40    | 131    | 67     | 6.7   | 2.6  | 2.4   |
| 19    | 3.5   | 4.5   | 4.9   | 5.7   | 5.4   | 70     | 36    | 109    | 64     | 6.4   | 2.6  | 2.4   |
| 20    | 3.4   | 4.4   | 4.9   | 5.6   | 6.2   | 73     | 37    | 86     | 59     | 6.4   | 2.6  | 2.5   |
| 21    | 3.4   | 4.4   | 4.9   | 5.4   | 6.8   | 82     | 43    | 71     | 52     | 6.2   | 2.6  | 2.5   |
| 22    | 3.4   | 4.4   | 4.6   | 5.7   | 6.8   | 76     | 50    | 70     | 48     | 6.1   | 2.5  | 2.5   |
| 23    | 3.4   | 4.4   | 4.4   | 5.3   | 6.6   | 57     | 59    | 82     | 45     | 5.7   | 2.4  | 2.5   |
| 24    | 3.3   | 4.5   | 4.3   | 4.9   | 6.6   | 49     | 63    | 96     | 40     | 5.6   | 2.4  | 2.6   |
| 25    | 3.2   | 4.6   | 4.4   | 4.7   | 6.6   | 67     | 52    | 114    | 36     | 5.3   | 2.3  | 2.6   |
| 26    | 3.3   | 10    | 4.5   | 4.6   | 6.8   | 51     | 53    | 140    | 33     | 5.0   | 2.3  | 4.2   |
| 27    | 3.4   | 15    | 4.6   | 4.5   | 6.9   | 43     | 67    | 163    | 31     | 4.8   | 2.3  | 11    |
| 28    | 3.3   | 10    | 6.0   | 4.5   | 8.4   | 38     | 83    | 193    | 31     | 4.6   | 2.3  | 5.4   |
| 29    | 3.2   | 8.7   | 7.1   | 4.5   | 12    | 36     | 85    | 176    | 29     | 4.4   | 2.4  | 3.8   |
| 30    | 3.2   | 7.6   | 7.8   | 4.6   | ----- | 35     | 85    | 176    | 26     | 4.4   | 2.5  | 3.5   |
| 31    | 3.2   | ----- | 6.5   | 4.7   | ----- | 35     | ----- | 179    | -----  | 4.2   | 2.4  | ----- |
| TOTAL | 104.9 | 168.4 | 171.7 | 160.1 | 170.5 | 1747.0 | 1590  | 4193.0 | 2429.0 | 302.9 | 87.2 | 88.4  |
| MEAN  | 3.38  | 5.61  | 5.54  | 5.16  | 5.88  | 56.4   | 53.0  | 135    | 81.0   | 9.77  | 2.81 | 2.95  |
| MAX   | 3.7   | 15    | 7.8   | 6.1   | 12    | 82     | 100   | 193    | 170    | 24    | 3.9  | 11    |
| MIN   | 3.2   | 3.2   | 4.3   | 4.5   | 4.8   | 11     | 34    | 70     | 26     | 4.2   | 2.3  | 2.2   |
| AC-FT | 208   | 334   | 341   | 318   | 338   | 3,470  | 3,150 | 8,320  | 4,820  | 601   | 173  | 175   |

CAL YR 1971 TOTAL 15,706.5 MEAN 43.0 MAX 276 MIN 2.2 AC-FT 31,150  
WTR YR 1972 TOTAL 11,213.1 MEAN 30.6 MAX 193 MIN 2.2 AC-FT 22,240

Peak discharge (base, 200 cfs).--May 13 (2300) 287 cfs (2.41 ft); May 28 (1830) 237 cfs (2.20 ft).

## PYRAMID AND WINNEMUCCA LAKES BASIN

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, Tahoe National Forest, 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 to September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,310 ft (from topographic map).

EXTREMES.--Maximum discharge during period June to September, 0.43 cfs June 8 (gage height, 1.59 ft); minimum daily, 0.03 cfs July 17, 18, Aug. 8, 15.

REMARKS.--Records good. 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, JUNE TO SEPTEMBER 1972

| JUN   | JUL | AUG | SEP | JAN | FEB | MAR | APR | MAY | JUN   | JUL  | AUG  | SEP   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|-------|
| 1     |     |     |     |     |     |     |     |     | .22   | .06  | .05  | .15   |
| 2     |     |     |     |     |     |     |     |     | .22   | .06  | .05  | .11   |
| 3     |     |     |     |     |     |     |     |     | .25   | .07  | .05  | .11   |
| 4     |     |     |     |     |     |     |     |     | .25   | .09  | .05  | .13   |
| 5     |     |     |     |     |     |     |     |     | .22   | .07  | .04  | .16   |
| 6     |     |     |     |     |     |     |     |     | .22   | .08  | .04  | .14   |
| 7     |     |     |     |     |     |     |     |     | .34   | .08  | .05  | .14   |
| 8     |     |     |     |     |     |     |     |     | .38   | .09  | .03  | .11   |
| 9     |     |     |     |     |     |     |     |     | .38   | .11  | .05  | .11   |
| 10    |     |     |     |     |     |     |     |     | .34   | .07  | .04  | .13   |
| 11    |     |     |     |     |     |     |     |     | .32   | .11  | .05  | .11   |
| 12    |     |     |     |     |     |     |     |     | .25   | .08  | .05  | .11   |
| 13    |     |     |     |     |     |     |     |     | .22   | .09  | .05  | .11   |
| 14    |     |     |     |     |     |     |     |     | .22   | .07  | .06  | .11   |
| 15    |     |     |     |     |     |     |     |     | .22   | .06  | .03  | .08   |
| 16    |     |     |     |     |     |     |     |     | .23   | .06  | .10  | .08   |
| 17    |     |     |     |     |     |     |     |     | .19   | .03  | .11  | .10   |
| 18    |     |     |     |     |     |     |     |     | .22   | .03  | .10  | .08   |
| 19    |     |     |     |     |     |     |     |     | .17   | .05  | .07  | .07   |
| 20    |     |     |     |     |     |     |     |     | .17   | .06  | .04  | .08   |
| 21    |     |     |     |     |     |     |     |     | .17   | .04  | .06  | .07   |
| 22    |     |     |     |     |     |     |     |     | .15   | .07  | .05  | .05   |
| 23    |     |     |     |     |     |     |     |     | .11   | .05  | .06  | .05   |
| 24    |     |     |     |     |     |     |     |     | .14   | .07  | .06  | .07   |
| 25    |     |     |     |     |     |     |     |     | .14   | .05  | .06  | .07   |
| 26    |     |     |     |     |     |     |     |     | .14   | .06  | .06  | .23   |
| 27    |     |     |     |     |     |     |     |     | .12   | .05  | .06  | .29   |
| 28    |     |     |     |     |     |     |     |     | .08   | .05  | .06  | .21   |
| 29    |     |     |     |     |     |     |     |     | .08   | .04  | .08  | .13   |
| 30    |     |     |     |     |     |     |     |     | .09   | .04  | .20  | .11   |
| 31    |     |     |     |     |     |     |     |     | ----- | .04  | .22  | ----- |
| TOTAL |     |     |     |     |     |     |     |     | 6.25  | 1.98 | 2.08 | 3.50  |
| MEAN  |     |     |     |     |     |     |     |     | .21   | .064 | .067 | .12   |
| MAX   |     |     |     |     |     |     |     |     | .38   | .11  | .22  | .29   |
| MIN   |     |     |     |     |     |     |     |     | .08   | .03  | .03  | .05   |
| AL-FI |     |     |     |     |     |     |     |     | 12    | 3.9  | 4.1  | 6.9   |

## PYRAMID AND WINNEMUCCA LAKES BASIN

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10336698 Third Creek near Crystal Bay, Nev.

LOCATION.--Lat 39°14'26", long 119°56'44", in SW¼NE¼ sec.22, T.16 N., R.18 E., Washoe County, on right bank 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth and 3 miles east of Crystal Bay.

DRAINAGE AREA.--6.0 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum discharge, 34 cfs May 29 (gage height, 2.64 ft); maximum gage height, 3.72 ft Jan. 9 (backwater from ice); minimum discharge 0.65 cfs Sept. 18.

Period of record: Maximum discharge, 110 cfs June 26, 1971 (gage height, 3.17 ft), maximum gage height, 3.72 ft Jan. 9, 1972 (backwater from ice); minimum discharge, 0.65 cfs Sept. 18, 1972.

REMARKS.--Records good except those for winter periods, which are poor. One transmountain diversion to Washoe Valley.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1     | 4.9   | 3.8   | 3.3   | 3.2   | 3.2   | 3.8   | 5.6   | 7.9   | 24    | 4.2  | 1.4  | 1.2   |
| 2     | 4.9   | 3.3   | 3.2   | 3.1   | 3.1   | 4.4   | 5.3   | 11    | 21    | 3.5  | 1.2  | 1.2   |
| 3     | 4.2   | 3.8   | 3.1   | 3.0   | 3.1   | 6.9   | 5.6   | 13    | 20    | 3.1  | 1.2  | 1.2   |
| 4     | 4.0   | 3.3   | 3.3   | 3.0   | 3.3   | 7.9   | 6.3   | 14    | 18    | 2.7  | 1.2  | 1.6   |
| 5     | 2.9   | 3.3   | 3.6   | 3.1   | 3.5   | 7.6   | 6.6   | 15    | 17    | 2.7  | 1.2  | 1.8   |
| 6     | 2.7   | 3.3   | 3.5   | 3.2   | 3.5   | 7.4   | 7.4   | 16    | 16    | 2.5  | 1.2  | 1.4   |
| 7     | 3.5   | 3.1   | 3.4   | 3.3   | 3.5   | 7.1   | 6.1   | 15    | 17    | 2.5  | 1.1  | 1.2   |
| 8     | 3.5   | 3.1   | 3.3   | 3.5   | 3.3   | 8.2   | 5.6   | 14    | 16    | 2.5  | 1.1  | 1.1   |
| 9     | 3.3   | 2.9   | 3.5   | 3.6   | 3.3   | 8.2   | 5.6   | 13    | 16    | 2.3  | 1.1  | 1.0   |
| 10    | 4.4   | 3.1   | 3.8   | 4.0   | 3.3   | 8.2   | 5.1   | 14    | 16    | 2.2  | 1.2  | 1.1   |
| 11    | 2.7   | 5.1   | 4.3   | 4.0   | 3.5   | 7.4   | 5.6   | 14    | 15    | 2.2  | 1.2  | 1.2   |
| 12    | 2.3   | 5.3   | 4.7   | 4.0   | 3.5   | 6.9   | 5.6   | 16    | 12    | 2.2  | 1.2  | 1.1   |
| 13    | 2.5   | 4.4   | 4.6   | 4.0   | 3.5   | 6.9   | 5.1   | 17    | 7.9   | 1.8  | 1.2  | 1.1   |
| 14    | 2.7   | 3.5   | 4.4   | 4.0   | 3.5   | 6.9   | 5.6   | 19    | 7.4   | 1.8  | 1.2  | 1.0   |
| 15    | 2.7   | 3.5   | 4.0   | 4.0   | 3.5   | 6.9   | 6.9   | 20    | 7.4   | 1.8  | 1.2  | 1.1   |
| 16    | 3.3   | 3.3   | 3.5   | 4.0   | 3.3   | 7.4   | 6.6   | 21    | 7.1   | 1.8  | 1.4  | 1.1   |
| 17    | 3.8   | 3.3   | 3.3   | 3.8   | 3.3   | 8.2   | 6.3   | 20    | 6.6   | 1.6  | 1.6  | 1.1   |
| 18    | 4.0   | 3.5   | 3.3   | 3.8   | 3.1   | 7.9   | 5.1   | 18    | 6.6   | 1.6  | 1.6  | 1.2   |
| 19    | 3.8   | 3.1   | 3.3   | 3.8   | 3.5   | 7.4   | 4.9   | 19    | 6.3   | 1.6  | 1.4  | 1.2   |
| 20    | 3.8   | 4.0   | 3.3   | 3.8   | 4.0   | 7.6   | 5.3   | 15    | 6.1   | 1.8  | 1.2  | 1.4   |
| 21    | 3.8   | 3.8   | 3.3   | 3.8   | 3.8   | 7.9   | 5.6   | 13    | 5.8   | 1.8  | 1.1  | 1.8   |
| 22    | 3.8   | 3.5   | 3.3   | 3.8   | 3.8   | 7.9   | 6.1   | 13    | 5.6   | 1.8  | 1.1  | 1.8   |
| 23    | 3.8   | 3.5   | 3.4   | 3.5   | 3.3   | 6.9   | 6.3   | 14    | 5.3   | 1.8  | 1.1  | 1.8   |
| 24    | 4.6   | 3.3   | 3.8   | 3.3   | 3.3   | 6.6   | 6.9   | 15    | 5.3   | 1.8  | 1.0  | 1.8   |
| 25    | 4.4   | 3.1   | 4.5   | 3.3   | 3.8   | 6.3   | 6.1   | 17    | 5.3   | 1.6  | 1.0  | 1.8   |
| 26    | 4.9   | 3.5   | 4.0   | 3.5   | 3.8   | 5.6   | 6.1   | 20    | 4.9   | 1.6  | 1.0  | 3.5   |
| 27    | 4.0   | 3.3   | 3.5   | 3.5   | 4.0   | 5.3   | 7.1   | 21    | 4.6   | 1.6  | 1.0  | 5.3   |
| 28    | 4.4   | 3.5   | 3.6   | 3.3   | 4.6   | 5.3   | 8.6   | 24    | 3.8   | 1.6  | 1.0  | 3.1   |
| 29    | 4.0   | 3.3   | 3.5   | 3.2   | 4.4   | 5.3   | 9.6   | 26    | 3.5   | 1.4  | 1.2  | 3.1   |
| 30    | 4.0   | 3.2   | 3.3   | 3.2   | ----- | 5.3   | 9.6   | 26    | 4.0   | 1.8  | 1.1  | 2.2   |
| 31    | 3.3   | ----- | 3.2   | 3.1   | ----- | 5.6   | ----- | 24    | ----- | 1.6  | 1.2  | ----- |
| TOTAL | 114.9 | 106.0 | 112.1 | 109.7 | 102.6 | 211.2 | 188.2 | 524.9 | 311.5 | 64.8 | 36.9 | 50.5  |
| MEAN  | 3.71  | 3.53  | 3.62  | 3.54  | 3.54  | 6.81  | 6.27  | 16.9  | 10.4  | 2.09 | 1.19 | 1.68  |
| MAX   | 4.9   | 5.3   | 4.7   | 4.0   | 4.6   | 8.2   | 9.6   | 26    | 24    | 4.2  | 1.6  | 5.3   |
| MIN   | 2.3   | 2.9   | 3.1   | 3.0   | 3.1   | 3.8   | 4.9   | 7.9   | 3.5   | 1.4  | 1.0  | 1.0   |
| AC-FT | 228   | 210   | 222   | 218   | 204   | 419   | 373   | 1,040 | 618   | 129  | 73   | 100   |

CAL YR 1971 TOTAL 3,530.4 MEAN 9.67 MAX 67 MIN 2.2 AC-FT 7,000  
WTR YR 1972 TOTAL 1,933.3 MEAN 5.28 MAX 26 MIN 1.0 AC-FT 3,830

Peak discharge (base, 30 cfs).--May 28 (1930) 34 cfs (2.64 ft).



## PYRAMID AND WINNEMUCCA LAKES BASIN

10336700 Incline Creek near Crystal Bay, Nev.

LOCATION.--Lat 39°14'25", long 119°56'38", in SW¼ sec.22, T.16 N., R.18 E., Washoe County, on right bank 500 ft upstream from culvert on Lakeshore Boulevard, 1,000 ft upstream from mouth, just below confluence with major tributary, and 3 miles east of Crystal Bay.

DRAINAGE AREA.--7.0 sq mi.

PERIOD OF RECORD.--October 1966 to September 1969 (operated as low-flow partial-record station only). October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,246.90 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 18 cfs Mar. 3 (gage height, 1.93 ft); maximum gage height, 2.80 ft Jan. 26 (backwater from ice); minimum discharge, 1.5 cfs Aug. 11-13.

Period of record: Maximum discharge, 38 cfs May 27, 1971 (gage height, 2.28 ft); maximum gage height, 3.12 ft Jan. 14, 1971 (backwater from ice); minimum discharge, 1.5 cfs 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 6.2   | 5.6   | 4.6   | 3.4   | 3.5   | 5.6   | 6.6   | 8.4   | 8.0   | 4.0   | 2.5  | 2.5   |
| 2     | 6.2   | 5.6   | 4.3   | 3.2   | 3.0   | 7.0   | 7.0   | 8.7   | 7.6   | 4.0   | 2.5  | 2.5   |
| 3     | 5.9   | 5.2   | 4.3   | 3.1   | 3.7   | 11    | 7.6   | 9.0   | 7.6   | 4.0   | 2.3  | 2.3   |
| 4     | 5.6   | 5.2   | 4.0   | 3.0   | 4.0   | 12    | 7.6   | 9.4   | 7.6   | 3.5   | 2.5  | 3.2   |
| 5     | 5.6   | 4.9   | 4.9   | 3.0   | 4.0   | 11    | 7.6   | 9.8   | 7.6   | 3.7   | 2.5  | 3.2   |
| 6     | 5.2   | 4.6   | 4.3   | 3.0   | 4.0   | 9.8   | 7.3   | 9.4   | 7.6   | 3.5   | 2.3  | 2.7   |
| 7     | 4.9   | 4.6   | 3.7   | 3.1   | 4.0   | 10    | 7.0   | 9.0   | 8.0   | 3.5   | 2.1  | 2.5   |
| 8     | 4.9   | 4.6   | 4.0   | 3.2   | 4.0   | 12    | 6.6   | 8.7   | 7.6   | 3.7   | 2.1  | 2.3   |
| 9     | 4.9   | 4.9   | 4.3   | 3.3   | 4.0   | 11    | 6.6   | 8.7   | 8.0   | 3.7   | 2.1  | 2.3   |
| 10    | 4.6   | 4.6   | 4.6   | 3.5   | 4.3   | 12    | 6.6   | 8.7   | 8.4   | 3.5   | 2.1  | 2.3   |
| 11    | 4.6   | 7.3   | 4.0   | 3.5   | 4.0   | 11    | 7.0   | 8.7   | 7.3   | 3.5   | 2.1  | 2.5   |
| 12    | 4.6   | 5.9   | 4.3   | 3.7   | 4.0   | 9.8   | 6.6   | 8.4   | 6.6   | 3.5   | 2.1  | 2.5   |
| 13    | 4.6   | 4.9   | 3.7   | 4.0   | 4.0   | 10    | 6.6   | 8.7   | 6.2   | 3.5   | 2.1  | 2.3   |
| 14    | 4.9   | 4.9   | 4.0   | 4.0   | 4.0   | 10    | 7.6   | 9.0   | 5.9   | 3.2   | 2.1  | 2.3   |
| 15    | 4.6   | 4.9   | 4.0   | 4.0   | 4.3   | 9.8   | 8.4   | 9.4   | 5.9   | 3.5   | 2.3  | 2.1   |
| 16    | 5.2   | 4.9   | 3.7   | 4.0   | 4.3   | 11    | 8.4   | 9.8   | 5.9   | 3.5   | 2.3  | 2.3   |
| 17    | 4.9   | 4.8   | 3.7   | 4.0   | 4.3   | 11    | 7.6   | 9.0   | 5.9   | 3.0   | 2.3  | 2.1   |
| 18    | 5.2   | 4.6   | 3.7   | 4.0   | 4.6   | 11    | 7.0   | 9.0   | 5.6   | 3.5   | 2.7  | 2.1   |
| 19    | 5.2   | 4.9   | 3.7   | 4.0   | 5.2   | 9.8   | 6.6   | 11    | 5.2   | 3.0   | 2.7  | 2.1   |
| 20    | 5.6   | 6.2   | 3.7   | 4.3   | 5.9   | 10    | 7.0   | 9.8   | 5.2   | 3.5   | 2.7  | 2.1   |
| 21    | 5.6   | 5.9   | 3.7   | 4.3   | 5.6   | 11    | 7.0   | 8.4   | 4.9   | 3.7   | 2.5  | 2.1   |
| 22    | 5.9   | 5.9   | 3.7   | 4.6   | 5.6   | 9.8   | 7.3   | 8.7   | 4.9   | 3.5   | 2.3  | 2.1   |
| 23    | 6.2   | 5.9   | 3.6   | 4.3   | 4.6   | 9.0   | 7.6   | 8.4   | 4.9   | 3.5   | 2.1  | 2.1   |
| 24    | 6.2   | 5.9   | 3.5   | 4.0   | 4.6   | 8.4   | 8.0   | 8.4   | 5.2   | 3.0   | 2.3  | 2.1   |
| 25    | 6.2   | 5.6   | 3.5   | 4.0   | 4.6   | 8.4   | 7.3   | 8.4   | 4.9   | 3.0   | 2.3  | 2.3   |
| 26    | 6.2   | 6.2   | 3.4   | 3.7   | 4.6   | 7.6   | 7.3   | 8.4   | 4.6   | 3.0   | 2.3  | 5.4   |
| 27    | 6.2   | 5.2   | 3.7   | 3.5   | 5.6   | 7.0   | 8.0   | 8.4   | 4.3   | 3.0   | 2.3  | 5.7   |
| 28    | 5.6   | 4.9   | 3.6   | 3.5   | 7.3   | 6.6   | 8.4   | 8.4   | 4.0   | 3.0   | 2.3  | 3.0   |
| 29    | 4.6   | 4.9   | 3.5   | 3.2   | 6.6   | 7.0   | 8.4   | 8.0   | 4.0   | 3.2   | 2.7  | 2.7   |
| 30    | 5.2   | 4.9   | 3.4   | 3.2   | ----- | 7.0   | 8.4   | 8.4   | 3.7   | 3.2   | 2.7  | 2.7   |
| 31    | 5.9   | ----- | 3.3   | 3.5   | ----- | 6.6   | ----- | 8.0   | ----- | 2.5   | 2.5  | ----- |
| TOTAL | 167.2 | 158.4 | 120.4 | 113.1 | 132.2 | 293.2 | 221.0 | 274.5 | 183.1 | 105.4 | 72.7 | 78.4  |
| MEAN  | 5.39  | 5.28  | 3.88  | 3.65  | 4.56  | 9.46  | 7.37  | 8.85  | 6.10  | 3.40  | 2.35 | 2.61  |
| MAX   | 6.2   | 7.3   | 4.9   | 4.6   | 7.3   | 12    | 8.4   | 11    | 8.4   | 4.0   | 2.7  | 5.7   |
| MIN   | 4.6   | 4.6   | 3.3   | 3.0   | 3.0   | 5.6   | 6.6   | 8.0   | 3.7   | 2.5   | 2.1  | 2.1   |
| AC-FT | 332   | 314   | 239   | 224   | 262   | 582   | 438   | 544   | 363   | 209   | 144  | 156   |

CAL YR 1971 TOTAL 3,227.2 MEAN 8.84 MAX 24 MIN 3.3 AC-FT 6,400  
WTR YR 1972 TOTAL 1,919.6 MEAN 5.24 MAX 12 MIN 2.1 AC-FT 3,810

Peak discharge (base, 30 cfs).--No peak above base.

10336730 Glenbrook Creek at Glenbrook, Nev.

LOCATION.--Lat 39°05'15", long 119°56'20", in SW 1/4 sec.10, T.14 N., R.18 E., Douglas County, on left bank 50 ft upstream from culvert at gas station, 100 ft upstream from mouth, at Glenbrook.

DRAINAGE AREA.--4.07 sq mi.

PERIOD OF RECORD.--October 1971 to September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 6.3 cfs Mar. 3 (gage height, 1.52 ft); minimum, 0.09 cfs July 18.

REMARKS.--Records good. Flow may be affected by pumping or diverting for irrigation above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB   | MAR  | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------|-------|-------|-------|------|-------|------|-------|-------|-------|------|------|-------|
| 1     | .80   | 1.1   | 1.2   | 1.2  | 1.2   | 1.8  | 2.0   | 2.1   | .35   | .22  | .24  | .22   |
| 2     | .68   | .94   | 1.2   | 1.2  | 1.2   | 2.5  | 2.0   | 2.1   | .58   | .22  | .24  | .22   |
| 3     | .68   | .94   | 1.4   | 1.2  | 1.1   | 4.4  | 2.1   | 2.3   | .80   | .20  | .22  | .22   |
| 4     | .58   | 1.1   | 1.2   | 1.2  | 1.1   | 4.4  | 2.3   | 2.8   | 1.1   | .20  | .22  | .24   |
| 5     | .58   | 1.1   | 1.5   | 1.2  | 1.1   | 3.5  | 2.6   | 2.6   | .94   | .22  | .22  | .27   |
| 6     | .94   | 1.1   | 1.2   | 1.2  | 1.1   | 3.1  | 2.5   | 2.6   | .94   | .22  | .22  | .27   |
| 7     | 1.2   | 1.1   | .94   | 1.2  | 1.1   | 2.9  | 2.3   | 2.6   | .94   | .22  | .22  | .24   |
| 8     | 1.5   | .94   | 1.1   | 1.2  | 1.1   | 2.8  | 2.5   | 2.6   | 1.4   | .24  | .22  | .24   |
| 9     | 1.5   | .94   | 1.4   | 1.2  | 1.1   | 2.6  | 2.3   | 2.5   | 1.8   | .27  | .22  | .24   |
| 10    | 1.5   | .94   | 1.4   | 1.2  | 1.1   | 2.6  | 2.3   | 2.5   | 1.8   | .27  | .27  | .24   |
| 11    | 1.5   | 1.7   | 1.4   | 1.2  | 1.1   | 2.6  | 2.0   | 2.5   | 1.7   | .18  | .24  | .27   |
| 12    | 1.5   | 1.2   | 1.4   | 1.2  | 1.2   | 2.6  | 2.0   | 2.5   | 1.2   | .18  | .22  | .30   |
| 13    | 1.5   | .94   | 1.4   | 1.2  | 1.2   | 2.5  | 1.8   | 2.5   | .58   | .20  | .24  | .30   |
| 14    | 1.4   | .80   | 1.4   | 1.2  | 1.2   | 2.5  | 2.1   | 2.5   | .58   | .20  | .27  | .30   |
| 15    | 1.4   | .80   | 1.2   | 1.2  | 1.4   | 2.3  | 2.6   | 2.5   | .68   | .18  | .30  | .24   |
| 16    | 1.7   | .94   | 1.2   | 1.2  | 1.4   | 2.3  | 2.6   | 2.1   | .45   | .18  | .30  | .24   |
| 17    | 1.8   | .94   | 1.2   | 1.2  | 1.4   | 2.6  | 2.5   | 1.5   | .40   | .15  | .30  | .30   |
| 18    | 1.8   | .94   | 1.2   | 1.4  | 1.4   | 2.6  | 2.1   | 1.5   | .40   | .15  | .35  | .30   |
| 19    | 1.7   | .94   | 1.1   | 1.4  | 1.4   | 2.5  | 2.0   | 2.3   | .35   | .15  | .27  | .30   |
| 20    | 1.7   | 1.1   | 1.1   | 1.2  | 1.7   | 2.3  | 1.8   | 2.0   | .30   | .20  | .24  | .30   |
| 21    | 1.5   | 1.1   | 1.1   | 1.4  | 1.7   | 2.5  | 2.0   | 1.7   | .27   | .22  | .22  | .30   |
| 22    | 1.4   | 1.1   | 1.5   | 1.5  | 1.7   | 2.3  | 2.0   | 1.7   | .27   | .22  | .20  | .24   |
| 23    | 1.7   | 1.1   | 1.2   | 1.5  | 1.5   | 2.1  | 2.1   | 1.5   | .27   | .24  | .20  | .27   |
| 24    | 1.7   | 1.2   | 1.2   | 1.4  | 1.5   | 2.1  | 2.1   | 1.2   | .30   | .27  | .22  | .30   |
| 25    | 1.4   | 1.2   | .80   | 1.4  | 1.5   | 2.0  | 1.8   | .68   | .35   | .20  | .22  | .30   |
| 26    | 1.2   | 1.5   | 1.1   | 1.1  | 1.7   | 1.8  | 1.8   | .58   | .30   | .22  | .20  | 1.4   |
| 27    | 1.4   | 1.4   | 1.1   | 1.2  | 1.8   | 1.8  | 2.0   | .58   | .27   | .27  | .18  | .68   |
| 28    | 1.1   | 1.2   | 1.1   | 1.2  | 2.1   | 1.7  | 2.1   | .50   | .24   | .30  | .20  | .45   |
| 29    | 1.1   | 1.2   | 1.1   | 1.2  | 2.1   | 1.7  | 2.1   | .40   | .22   | .30  | .20  | .45   |
| 30    | 1.4   | 1.2   | 1.1   | 1.2  | ----- | 1.8  | 2.0   | .35   | .22   | .35  | .20  | .45   |
| 31    | 1.4   | ----- | 1.1   | 1.2  | ----- | 2.0  | ----- | .45   | ----- | .27  | .22  | ----- |
| TOTAL | 41.26 | 32.70 | 37.54 | 38.7 | 40.2  | 77.2 | 64.4  | 56.24 | 20.00 | 6.91 | 7.28 | 10.09 |
| MEAN  | 1.33  | 1.09  | 1.21  | 1.25 | 1.39  | 2.49 | 2.15  | 1.81  | .67   | .22  | .23  | .34   |
| MAX   | 1.8   | 1.7   | 1.5   | 1.5  | 2.1   | 4.4  | 2.6   | 2.8   | 1.8   | .35  | .35  | 1.4   |
| MIN   | .58   | .80   | .80   | 1.1  | 1.1   | 1.7  | 1.8   | .35   | .22   | .15  | .18  | .22   |
| AC-FT | 82    | 65    | 74    | 77   | 80    | 153  | 128   | 112   | 40    | 14   | 14   | 20    |

WTR YR 1972 TOTAL 432.52 MEAN 1.18 MAX 4.4 MIN .15 AC-FT 858

Peak discharge (base, 3.0 cfs).--Mar. 3 (1730) 6.3 cfs (1.52 ft); Apr. 15 (1630) 3.5 cfs (1.36 ft).

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 Trout Creek near Tahoe Valley, Calif.

LOCATION.--Lat 38°55'12", long 119°58'17", in SE $\frac{1}{4}$  sec.3, T.12 N., R.18 E., El Dorado County, on left bank 5 ft upstream from Martin Ave. 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.--12 years, 37.5 cfs (27,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 100 cfs June 7 (gage height, 7.57 ft); minimum, 11 cfs Aug. 26.

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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 26    | 24    | 23    | 18    | 18    | 24    | 30    | 45    | 86    | 37    | 18   | 19    |
| 2     | 27    | 22    | 23    | 18    | 17    | 27    | 31    | 49    | 87    | 36    | 18   | 18    |
| 3     | 26    | 21    | 21    | 17    | 17    | 38    | 34    | 52    | 98    | 36    | 19   | 21    |
| 4     | 26    | 21    | 22    | 16    | 16    | 42    | 37    | 53    | 87    | 34    | 17   | 18    |
| 5     | 25    | 20    | 23    | 15    | 17    | 39    | 47    | 55    | 89    | 23    | 17   | 18    |
| 6     | 24    | 19    | 22    | 16    | 20    | 39    | 42    | 57    | 92    | 30    | 17   | 17    |
| 7     | 23    | 20    | 20    | 16    | 19    | 40    | 36    | 54    | 94    | 29    | 19   | 15    |
| 8     | 22    | 21    | 20    | 17    | 20    | 41    | 34    | 52    | 91    | 28    | 19   | 15    |
| 9     | 22    | 20    | 21    | 17    | 18    | 44    | 33    | 51    | 98    | 27    | 17   | 14    |
| 10    | 22    | 20    | 20    | 18    | 17    | 47    | 32    | 51    | 83    | 27    | 19   | 13    |
| 11    | 22    | 44    | 19    | 18    | 17    | 46    | 34    | 53    | 76    | 27    | 16   | 14    |
| 12    | 21    | 34    | 21    | 20    | 18    | 42    | 32    | 54    | 73    | 25    | 16   | 15    |
| 13    | 21    | 25    | 20    | 19    | 18    | 42    | 33    | 56    | 70    | 24    | 15   | 16    |
| 14    | 21    | 25    | 20    | 18    | 19    | 41    | 35    | 60    | 69    | 23    | 15   | 17    |
| 15    | 21    | 24    | 19    | 18    | 19    | 39    | 37    | 63    | 68    | 22    | 14   | 17    |
| 16    | 22    | 24    | 19    | 18    | 20    | 40    | 41    | 65    | 66    | 21    | 15   | 16    |
| 17    | 22    | 24    | 18    | 19    | 20    | 44    | 39    | 64    | 64    | 21    | 15   | 16    |
| 18    | 23    | 24    | 19    | 21    | 20    | 44    | 34    | 62    | 63    | 20    | 16   | 16    |
| 19    | 23    | 25    | 21    | 21    | 20    | 41    | 32    | 65    | 61    | 20    | 14   | 17    |
| 20    | 24    | 25    | 24    | 21    | 20    | 42    | 32    | 60    | 58    | 21    | 13   | 17    |
| 21    | 23    | 25    | 28    | 21    | 21    | 45    | 34    | 56    | 57    | 21    | 12   | 16    |
| 22    | 22    | 25    | 27    | 22    | 22    | 44    | 36    | 54    | 55    | 20    | 12   | 16    |
| 23    | 22    | 25    | 28    | 21    | 20    | 40    | 38    | 54    | 53    | 20    | 13   | 15    |
| 24    | 22    | 25    | 27    | 17    | 21    | 38    | 39    | 55    | 50    | 19    | 14   | 15    |
| 25    | 21    | 25    | 25    | 19    | 22    | 43    | 35    | 57    | 48    | 20    | 14   | 12    |
| 26    | 22    | 29    | 34    | 18    | 22    | 36    | 34    | 60    | 46    | 20    | 13   | 23    |
| 27    | 21    | 32    | 22    | 17    | 23    | 33    | 38    | 65    | 45    | 19    | 12   | 22    |
| 28    | 17    | 31    | 21    | 19    | 26    | 32    | 43    | 69    | 42    | 19    | 13   | 17    |
| 29    | 16    | 28    | 20    | 17    | 28    | 30    | 43    | 73    | 40    | 18    | 14   | 14    |
| 30    | 17    | 27    | 20    | 16    | ----- | 30    | 42    | 77    | 39    | 20    | 21   | 13    |
| 31    | 21    | ----- | 19    | 17    | ----- | 30    | ----- | 82    | ----- | 19    | 19   | ----- |
| TOTAL | 687   | 755   | 676   | 566   | 578   | 1,203 | 1,087 | 1,823 | 2,027 | 756   | 495  | 491   |
| MEAN  | 22.2  | 25.2  | 21.8  | 18.3  | 19.9  | 38.8  | 36.2  | 59.8  | 67.6  | 24.4  | 15.6 | 16.4  |
| MAX   | 27    | 44    | 28    | 22    | 28    | 47    | 47    | 82    | 94    | 37    | 21   | 23    |
| MIN   | 16    | 19    | 18    | 15    | 17    | 24    | 30    | 45    | 39    | 18    | 12   | 12    |
| AC-FT | 1,360 | 1,500 | 1,340 | 1,120 | 1,150 | 2,390 | 2,160 | 3,620 | 4,020 | 1,500 | 962  | 974   |

CAL YR 1971 TOTAL 17,036 MEAN 46.7 MAX 186 MIN 16 AC-FT 33,790  
 WTR YR 1972 TOTAL 11,134 MEAN 30.4 MAX 94 MIN 12 AC-FT 22,080

Peak Discharge (base, 100 cfs).--June 7 (1900) 100 cfs (7.57 ft)

## PYRAMID AND WINNEMUCCA LAKES BASIN

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## 10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.

LOCATION.--Lat 38°55'56", long 119°58'40", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.3, T.12 N., R.18 E., El Dorado County, on right bank on upstream side of U.S. 50 highway 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 September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 124 cfs June 4 (gage height, 3.00 ft); minimum daily, 12 cfs Aug. 20-24, 26-28, Sept. 25.

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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 27    | 28    | 24    | 28    | 25    | 28    | 34    | 49    | 99    | 36    | 16   | 16    |
| 2     | 29    | 25    | 23    | 29    | 25    | 30    | 36    | 54    | 101   | 36    | 16   | 16    |
| 3     | 28    | 22    | 23    | 30    | 25    | 40    | 39    | 58    | 100   | 35    | 16   | 19    |
| 4     | 28    | 22    | 23    | 24    | 25    | 46    | 40    | 61    | 100   | 34    | 16   | 17    |
| 5     | 27    | 22    | 23    | 24    | 25    | 44    | 49    | 64    | 102   | 32    | 16   | 17    |
| 6     | 26    | 20    | 23    | 28    | 25    | 43    | 44    | 64    | 105   | 31    | 16   | 16    |
| 7     | 25    | 21    | 23    | 28    | 25    | 43    | 41    | 62    | 109   | 30    | 17   | 15    |
| 8     | 24    | 24    | 23    | 28    | 25    | 43    | 38    | 60    | 108   | 27    | 16   | 15    |
| 9     | 23    | 20    | 23    | 28    | 25    | 47    | 37    | 58    | 102   | 27    | 16   | 15    |
| 10    | 23    | 20    | 23    | 28    | 25    | 50    | 37    | 58    | 94    | 27    | 16   | 14    |
| 11    | 22    | 41    | 23    | 28    | 25    | 48    | 38    | 58    | 84    | 27    | 16   | 14    |
| 12    | 22    | 34    | 26    | 28    | 25    | 45    | 38    | 61    | 73    | 25    | 16   | 14    |
| 13    | 22    | 26    | 28    | 28    | 25    | 44    | 39    | 64    | 74    | 24    | 16   | 15    |
| 14    | 22    | 26    | 26    | 28    | 24    | 43    | 40    | 69    | 72    | 24    | 15   | 15    |
| 15    | 23    | 26    | 26    | 28    | 24    | 41    | 41    | 73    | 70    | 24    | 14   | 15    |
| 16    | 23    | 25    | 26    | 28    | 24    | 42    | 45    | 73    | 69    | 22    | 14   | 15    |
| 17    | 24    | 26    | 26    | 28    | 24    | 44    | 43    | 72    | 66    | 21    | 14   | 15    |
| 18    | 24    | 26    | 26    | 30    | 24    | 46    | 40    | 68    | 63    | 21    | 14   | 14    |
| 19    | 25    | 26    | 26    | 30    | 24    | 43    | 38    | 72    | 61    | 20    | 13   | 15    |
| 20    | 25    | 26    | 26    | 30    | 24    | 44    | 37    | 65    | 57    | 21    | 12   | 15    |
| 21    | 24    | 24    | 26    | 30    | 24    | 47    | 38    | 61    | 56    | 21    | 12   | 15    |
| 22    | 23    | 22    | 26    | 30    | 27    | 46    | 40    | 57    | 54    | 19    | 12   | 15    |
| 23    | 23    | 24    | 26    | 30    | 25    | 46    | 41    | 56    | 52    | 19    | 12   | 14    |
| 24    | 23    | 20    | 26    | 30    | 25    | 39    | 43    | 57    | 50    | 19    | 12   | 14    |
| 25    | 22    | 22    | 28    | 26    | 23    | 47    | 39    | 60    | 49    | 19    | 13   | 12    |
| 26    | 23    | 24    | 23    | 24    | 24    | 41    | 39    | 63    | 47    | 19    | 12   | 20    |
| 27    | 22    | 27    | 23    | 24    | 24    | 39    | 43    | 70    | 45    | 18    | 12   | 20    |
| 28    | 20    | 26    | 23    | 23    | 28    | 37    | 47    | 75    | 43    | 18    | 12   | 16    |
| 29    | 20    | 25    | 23    | 23    | 30    | 35    | 47    | 80    | 41    | 17    | 13   | 14    |
| 30    | 20    | 25    | 25    | 25    | ----- | 36    | 47    | 84    | 39    | 19    | 20   | 14    |
| 31    | 23    | ----- | 27    | 25    | ----- | 35    | ----- | 91    | ----- | 19    | 18   | ----- |
| TOTAL | 735   | 745   | 766   | 851   | 723   | 1,302 | 1,218 | 2,017 | 2,190 | 751   | 453  | 461   |
| MEAN  | 23.7  | 24.8  | 24.7  | 27.5  | 24.9  | 42.0  | 40.6  | 65.1  | 73.0  | 24.2  | 14.6 | 15.4  |
| MAX   | 29    | 41    | 28    | 30    | 30    | 50    | 49    | 91    | 109   | 36    | 20   | 20    |
| MIN   | 20    | 20    | 23    | 23    | 23    | 28    | 34    | 49    | 39    | 17    | 12   | 12    |
| AC-FT | 1,460 | 1,480 | 1,520 | 1,690 | 1,430 | 2,580 | 2,420 | 4,000 | 4,340 | 1,490 | 899  | 914   |

WTR YR 1972 TOTAL 12,212 MEAN 33.4 MAX 109 MIN 12 AC-FT 24,220

PEAK DISCHARGE (BASE, 100 CFS).--June 4 (1800) 124 cfs (3.00 ft).

## PYRAMID AND WINNEMUCCA LAKES BASIN

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 miles northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--505 sq mi 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 above mean sea level, datum of Bureau of Reclamation (6,218.86 ft, 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 east of dam at lake outlet.

EXTREMES.--Current year: Maximum elevation, 6,228.55 ft June 15, 20, 22, 23; minimum, 6,226.89 ft Sept. 25.  
Period of record: Maximum elevation, 6,231.26 ft July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft 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 between elevations 6,223 (natural rim of lake) and 6,229.1 ft (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 1971 TO SEPTEMBER 1972

| DAY  | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1    | 7.76    | 7.33    | 7.17    | 7.37    | 7.25    | 7.28    | 7.53    | 7.79    | 8.24    | 8.43    | 7.97    | 7.42    |
| 2    | 7.77    | 7.33    | 7.16    | 7.36    | 7.25    | 7.29    | 7.54    | 7.80    | 8.25    | 8.43    | 7.97    | 7.39    |
| 3    | 7.75    | 7.32    | 7.18    | 7.35    | 7.24    | 7.33    | 7.54    | 7.81    | 8.27    | 8.42    | 7.95    | 7.39    |
| 4    | 7.75    | 7.30    | 7.16    | 7.34    | 7.25    | 7.33    | 7.54    | 7.82    | 8.30    | 8.42    | 7.94    | 7.40    |
| 5    | 7.73    | 7.29    | 7.15    | 7.35    | 7.26    | 7.34    | 7.60    | 7.83    | 8.34    | 8.39    | 7.94    | 7.38    |
| 6    | 7.75    | 7.28    | 7.14    | 7.34    | 7.26    | 7.35    | 7.62    | 7.84    | 8.35    | 8.37    | 7.94    | 7.36    |
| 7    | 7.73    | 7.25    | 7.13    | 7.33    | 7.26    | 7.36    | 7.63    | 7.81    | 8.38    | 8.35    | 7.93    | 7.34    |
| 8    | 7.74    | 7.23    | 7.11    | 7.32    | 7.25    | 7.36    | 7.61    | 7.85    | 8.43    | 8.35    | 7.91    | 7.33    |
| 9    | 7.73    | 7.21    | 7.09    | 7.32    | 7.25    | 7.36    | 7.60    | 7.86    | 8.47    | 8.31    | 7.90    | 7.29    |
| 10   | 7.73    | 7.19    | 7.10    | 7.31    | 7.25    | 7.36    | 7.60    | 7.87    | 8.43    | 8.31    | 7.87    | 7.27    |
| 11   | 7.72    | 7.30    | 7.07    | 7.30    | 7.24    | 7.38    | 7.67    | 7.88    | 8.46    | 8.29    | 7.84    | 7.20    |
| 12   | 7.72    | 7.27    | 7.12    | 7.28    | 7.24    | 7.39    | 7.73    | 7.90    | 8.46    | 8.30    | 7.79    | 7.22    |
| 13   | 7.69    | 7.31    | 7.12    | 7.28    | 7.24    | 7.40    | 7.73    | 7.91    | 8.46    | 8.29    | 7.77    | 7.18    |
| 14   | 7.69    | 7.30    | 7.10    | 7.28    | 7.23    | 7.40    | 7.74    | 7.93    | 8.47    | 8.29    | 7.74    | 7.17    |
| 15   | 7.67    | 7.30    | 7.09    | 7.28    | 7.22    | 7.42    | 7.72    | 7.94    | 8.47    | 8.27    | 7.67    | 7.17    |
| 16   | 7.65    | 7.26    | 7.09    | 7.27    | 7.22    | 7.43    | 7.74    | 7.95    | 8.47    | 8.26    | 7.64    | 7.15    |
| 17   | 7.63    | 7.24    | 7.09    | 7.26    | 7.22    | 7.44    | 7.72    | 7.97    | 8.48    | 8.25    | 7.62    | 7.14    |
| 18   | 7.60    | 7.23    | 7.08    | 7.25    | 7.19    | 7.44    | 7.72    | 8.01    | 8.48    | 8.21    | 7.61    | 7.08    |
| 19   | 7.57    | 7.20    | 7.08    | 7.24    | 7.19    | 7.45    | 7.72    | 8.05    | 8.48    | 8.19    | 7.58    | 7.06    |
| 20   | 7.56    | 7.19    | 7.05    | 7.22    | 7.20    | 7.46    | 7.73    | 8.04    | 8.48    | 8.14    | 7.57    | 7.05    |
| 21   | 7.55    | 7.19    | 7.08    | 7.22    | 7.19    | 7.46    | 7.73    | 8.05    | 8.48    | 8.14    | 7.55    | 7.02    |
| 22   | 7.51    | 7.18    | 7.23    | 7.19    | 7.23    | 7.50    | 7.73    | 8.07    | 8.50    | 8.13    | 7.54    | 7.00    |
| 23   | 7.53    | 7.17    | 7.25    | 7.25    | 7.23    | 7.51    | 7.64    | 8.08    | 8.46    | 8.11    | 7.52    | 6.97    |
| 24   | 7.50    | 7.15    | 7.31    | 7.24    | 7.25    | 7.51    | 7.74    | 8.10    | 8.45    | 8.10    | 7.51    | 6.94    |
| 25   | 7.49    | 7.15    | 7.45    | 7.27    | 7.26    | 7.53    | 7.75    | 8.11    | 8.45    | 8.06    | 7.48    | 6.92    |
| 26   | 7.47    | 7.17    | 7.43    | 7.25    | 7.27    | 7.53    | 7.75    | 8.12    | 8.46    | 8.06    | 7.46    | 6.96    |
| 27   | 7.44    | 7.16    | 7.43    | 7.30    | 7.27    | 7.53    | 7.74    | 8.13    | 8.47    | 8.05    | 7.46    | 6.98    |
| 28   | 7.43    | 7.18    | 7.42    | 7.30    | 7.28    | 7.53    | 7.73    | 8.14    | 8.46    | 8.04    | 7.44    | 6.96    |
| 29   | 7.38    | 7.20    | 7.40    | 7.29    | 7.29    | 7.52    | 7.75    | 8.17    | 8.46    | 8.03    | 7.44    | 6.96    |
| 30   | 7.37    | 7.20    | 7.38    | 7.29    | -----   | 7.53    | 7.76    | 8.19    | 8.44    | 8.02    | 7.43    | 6.96    |
| 31   | 7.35    | -----   | 7.38    | 7.24    | -----   | 7.54    | -----   | 8.20    | -----   | 8.00    | 7.41    | -----   |
| MEAN | 7.61    | 7.24    | 7.19    | 7.29    | 7.24    | 7.43    | 7.68    | 7.97    | 8.43    | 8.23    | 7.69    | 7.16    |
| MAX  | 7.77    | 7.33    | 7.45    | 7.37    | 7.29    | 7.54    | 7.76    | 8.20    | 8.50    | 8.43    | 7.97    | 7.42    |
| MIN  | 7.35    | 7.15    | 7.05    | 7.19    | 7.19    | 7.28    | 7.53    | 7.79    | 8.24    | 8.00    | 7.41    | 6.92    |
| (+)  | 529,700 | 511,300 | 533,400 | 516,200 | 522,400 | 552,900 | 579,900 | 633,900 | 663,400 | 609,300 | 537,000 | 481,900 |
| (-)  | -52,700 | -18,400 | +22,100 | -17,200 | +6,200  | +30,500 | +27,000 | +54,000 | +29,500 | -54,100 | -72,300 | -55,100 |

CAL YR 1971 MEAN 7.91 MAX 8.99 MIN 7.05  $\pm$ 15,800

WTR YR 1972 MEAN 7.60 MAX 8.50 MIN 6.92  $\pm$ 100,500

+ 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

127

10337500 Truckee River at Tahoe City, Calif.

LOCATION.--Lat 39°10'00", long 120°08'40", in NE 1/4 sec. 7, T.15 N., R.17 E., Placer County, on left bank 510 ft downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--506 sq mi.

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 above mean sea level, datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft higher, and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

AVERAGE DISCHARGE.--72 years (1900-72), 246 cfs (178,200 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 425 cfs July 22 (gage height, 4.45 ft); minimum daily, 12 cfs Oct. 20, 21.  
Period of record: Maximum discharge, 2,630 cfs June 19, 1969 (gage height, 9.32 ft); no flow for parts of many years.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe (operating capacity, 744,600 acre-ft).

REVISIONS.--WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR   | APR   | MAY   | JUN   | JUL     | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|-------|-------|-------|-------|---------|--------|--------|
| 1           | 172    | 301     | 202    | 268    | 230    | 177   | 72    | 67    | 70    | 250     | 417    | 417    |
| 2           | 146    | 301     | 202    | 266    | 230    | 178   | 69    | 67    | 70    | 252     | 417    | 415    |
| 3           | 148    | 272     | 202    | 266    | 230    | 115   | 70    | 67    | 70    | 252     | 417    | 409    |
| 4           | 150    | 250     | 202    | 268    | 228    | 71    | 70    | 67    | 70    | 252     | 417    | 409    |
| 5           | 149    | 250     | 202    | 266    | 228    | 70    | 72    | 66    | 69    | 276     | 415    | 409    |
| 6           | 182    | 250     | 204    | 266    | 230    | 71    | 70    | 66    | 69    | 312     | 415    | 352    |
| 7           | 206    | 250     | 202    | 234    | 230    | 71    | 69    | 72    | 67    | 320     | 415    | 309    |
| 8           | 205    | 250     | 201    | 202    | 244    | 72    | 69    | 78    | 73    | 320     | 412    | 286    |
| 9           | 206    | 250     | 201    | 202    | 280    | 73    | 67    | 74    | 77    | 320     | 412    | 276    |
| 10          | 207    | 265     | 201    | 202    | 280    | 75    | 68    | 72    | 76    | 336     | 409    | 276    |
| 11          | 206    | 280     | 201    | 204    | 280    | 75    | 68    | 72    | 75    | 348     | 409    | 276    |
| 12          | 261    | 280     | 202    | 204    | 290    | 74    | 68    | 71    | 75    | 362     | 407    | 274    |
| 13          | 303    | 280     | 219    | 204    | 278    | 75    | 67    | 71    | 74    | 372     | 407    | 266    |
| 14          | 303    | 282     | 230    | 204    | 278    | 75    | 66    | 71    | 73    | 372     | 407    | 260    |
| 15          | 333    | 241     | 246    | 204    | 278    | 74    | 73    | 71    | 73    | 369     | 407    | 254    |
| 16          | 357    | 194     | 256    | 205    | 276    | 74    | 77    | 70    | 74    | 369     | 404    | 248    |
| 17          | 356    | 215     | 256    | 221    | 276    | 74    | 77    | 69    | 74    | 389     | 407    | 248    |
| 18          | 355    | 273     | 254    | 232    | 276    | 73    | 77    | 69    | 74    | 399     | 409    | 246    |
| 19          | 188    | 228     | 254    | 230    | 276    | 72    | 74    | 69    | 74    | 412     | 409    | 246    |
| 20          | 12     | 228     | 256    | 230    | 276    | 71    | 71    | 69    | 76    | 422     | 407    | 246    |
| 21          | 12     | 228     | 256    | 230    | 276    | 71    | 71    | 69    | 76    | 422     | 404    | 246    |
| 22          | 109    | 213     | 266    | 230    | 280    | 70    | 71    | 69    | 82    | 422     | 404    | 246    |
| 23          | 313    | 201     | 268    | 232    | 257    | 69    | 71    | 69    | 96    | 422     | 404    | 246    |
| 24          | 306    | 201     | 268    | 232    | 232    | 69    | 70    | 69    | 96    | 422     | 402    | 244    |
| 25          | 306    | 202     | 270    | 232    | 210    | 71    | 68    | 69    | 96    | 420     | 402    | 244    |
| 26          | 305    | 204     | 270    | 232    | 180    | 68    | 68    | 69    | 146   | 420     | 402    | 244    |
| 27          | 304    | 202     | 270    | 232    | 175    | 67    | 68    | 69    | 199   | 420     | 402    | 217    |
| 28          | 303    | 202     | 268    | 232    | 178    | 66    | 68    | 69    | 230   | 420     | 407    | 194    |
| 29          | 303    | 202     | 268    | 232    | 180    | 71    | 68    | 69    | 250   | 420     | 415    | 180    |
| 30          | 302    | 202     | 266    | 232    | -----  | 76    | 67    | 69    | 250   | 420     | 417    | 131    |
| 31          | 302    | -----   | 268    | 232    | -----  | 73    | ----- | 70    | ----- | 417     | 417    | -----  |
| TOTAL       | 7,310  | 7,153   | 7,331  | 7,127  | 7,152  | 2,481 | 2,104 | 2,158 | 2,974 | 11,329  | 12,695 | 8,314  |
| MEAN        | 236    | 238     | 236    | 230    | 247    | 80.0  | 70.1  | 69.6  | 99.1  | 365     | 410    | 277    |
| MAX         | 357    | 301     | 270    | 268    | 280    | 178   | 77    | 78    | 250   | 422     | 417    | 417    |
| MIN         | 12     | 194     | 201    | 202    | 175    | 66    | 66    | 66    | 67    | 250     | 402    | 131    |
| AC-FT       | 14,500 | 14,190  | 14,540 | 14,140 | 14,190 | 4,920 | 4,170 | 4,280 | 5,900 | 22,470  | 25,180 | 16,490 |
| CAL YR 1971 | TOTAL  | 121,443 | MEAN   | 333    | MAX    | 1,240 | MIN   | 12    | AC-FT | 240,900 |        |        |
| WTR YR 1972 | TOTAL  | 78,128  | MEAN   | 213    | MAX    | 422   | MIN   | 12    | AC-FT | 155,000 |        |        |



## PYRAMID AND WINNEMUCCA LAKES BASIN

129

10339380 Martis Creek Lake near Truckee, Calif.

LOCATION.--Lat 39°19'38", long 120°06'48", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, in control house at Martis Creek Dam, 2.0 miles upstream from mouth, and 3.5 miles east of Truckee.

DRAINAGE AREA.--40.0 sq mi.

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.--For the period of record: Maximum contents observed 1,120 acre-feet Apr. 24 (elevation, 5,783.99 ft); minimum observed (after storage began), 823 acre-feet July 19, Aug. 1 (elevation, 5,780.09 ft).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-feet between elevations 5,745 (streambed elevation at dam) and 5,838 ft (elevation of spillway crest). Figures given herein represent total contents, which include 817 acre-feet of inactive storage below elevation 5,780 ft (intake crest). Reservoir is used for flood control, enhancement of fishery, and recreation.

## CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY | OCT | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY | JUN      | JUL      | AUG      | SEP      |
|-----|-----|-------|-----|-----|-------|-----|-------|-----|----------|----------|----------|----------|
| 1   |     |       |     |     |       |     |       |     |          | 850      | 823      | 830      |
| 2   |     |       |     |     |       |     |       |     |          | 849      | 824      | 829      |
| 3   |     |       |     |     |       |     |       |     |          | 849      | 824      | 829      |
| 4   |     |       |     |     |       |     |       |     |          | 849      | 825      | 830      |
| 5   |     |       |     |     |       |     |       |     |          | 848      | 826      | 831      |
| 6   |     |       |     |     |       |     |       | 870 |          | 851      | 826      | 830      |
| 7   |     |       |     |     |       |     | 917   |     |          | 848      | 825      | 829      |
| 8   |     |       |     |     |       |     |       |     |          | 842      | 825      | 828      |
| 9   |     |       |     |     |       |     |       |     |          | 840      | 825      | 827      |
| 10  |     |       |     |     |       |     |       |     |          | 843      | 825      | 827      |
| 11  |     |       |     |     |       |     |       |     |          | 831      | 824      | 827      |
| 12  |     |       |     |     |       |     |       |     |          | 826      | 824      | 827      |
| 13  |     |       |     |     |       |     |       |     |          | 826      | 824      | 828      |
| 14  |     |       |     |     |       |     |       |     |          | 824      | 824      | 829      |
| 15  |     |       |     |     |       |     |       |     | 853      | 824      | 825      | 829      |
| 16  |     |       |     |     |       |     |       |     | 853      | 825      | 824      | 829      |
| 17  |     |       |     |     |       | 911 |       |     | 853      | 825      | 826      | 829      |
| 18  |     |       |     |     |       |     |       |     | 853      | 824      | 827      | 829      |
| 19  |     |       |     |     |       |     |       |     | 852      | 823      | 827      | 829      |
| 20  |     |       |     |     |       |     |       |     | 851      | 824      | 827      |          |
| 21  |     |       |     |     |       |     |       |     | 851      | 824      | 827      |          |
| 22  |     |       |     |     |       |     |       |     | 851      | 824      | 827      |          |
| 23  |     |       |     |     |       |     |       |     | 849      | 824      | 827      |          |
| 24  |     |       |     |     |       |     | 1,120 |     | 851      | 824      | 826      |          |
| 25  |     |       |     |     |       |     |       |     | 851      | 824      | 827      |          |
| 26  |     |       |     |     |       |     |       |     | 851      | 824      | 826      |          |
| 27  |     |       |     |     |       |     |       |     | 851      | 824      | 826      |          |
| 28  |     |       |     |     |       |     |       |     | 851      | 824      | 827      |          |
| 29  |     |       |     |     |       |     |       |     | 851      | 824      | 829      | 832      |
| 30  |     |       |     |     |       |     |       |     | 850      | 824      | 834      | 832      |
| 31  |     | ----- |     |     | ----- |     | ----- |     | -----    | 824      | 832      | -----    |
| MAX |     |       |     |     |       |     |       |     |          | 851      | 834      |          |
| MIN |     |       |     |     |       |     |       |     |          | 823      | 823      |          |
| (+) |     |       |     |     |       |     |       |     | 5,780.46 | 5,780.11 | 5,780.21 | 5,780.21 |
| (+) |     |       |     |     |       |     |       |     |          | -26      | +8       | 0        |

WTR YR 1972 +832

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

(+) CHANGE IN CONTENTS, IN ACRE-FEET.

## PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 Martis Creek near Truckee, Calif.

LOCATION.--Lat 39°19'10", long 120°07'00", in NE¼ sec.17, T.17 N., R.17 E., Nevada County, on left bank 0.2 mile downstream from Martis Creek Lake Dam, 1.8 miles upstream from mouth, and 3.5 miles east of Truckee.

DRAINAGE AREA.--40.0 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (from topographic map). Prior to July 10, 1972 at site 1.0 mile downstream at different datum.

AVERAGE DISCHARGE.--14 years, 23.8 cfs (17,240 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 355 cfs Apr. 26 (gage height, 3.53 ft); minimum, 0.46 cfs Oct. 21, 22. (Regulation at Martis Creek Lake Dam.)

Period of record: Maximum discharge, 1,880 cfs Feb. 1, 1963 (gage height, 6.16 ft); minimum, 0.46 cfs Oct. 21, 22, 1971.

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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV    | DEC   | JAN  | FEB   | MAR   | APR     | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|-------|------|-------|-------|---------|-------|-------|-------|-------|-------|
| 1     | 13    | .71    | 1.7   | 12   | 13    | 45    | 25      | 43    | 12    | 6.8   | 7.1   | 7.8   |
| 2     | 13    | .74    | 1.6   | 11   | 12    | 44    | 25      | 34    | 11    | 6.8   | 5.7   | 7.5   |
| 3     | 13    | 3.5    | 3.4   | 11   | 13    | 79    | 25      | 33    | 11    | 6.8   | 6.4   | 7.1   |
| 4     | 12    | 13     | 1.6   | 10   | 13    | 95    | 28      | 33    | 10    | 6.8   | 6.7   | 7.1   |
| 5     | 12    | 13     | 1.6   | 10   | 13    | 79    | 49      | 32    | 11    | 6.6   | 6.7   | 7.8   |
| 6     | 12    | 12     | 1.5   | 11   | 13    | 69    | 63      | 31    | 12    | 5.1   | 6.7   | 7.8   |
| 7     | 5.0   | 8.0    | 1.6   | 11   | 13    | 66    | 47      | 30    | 11    | 3.4   | 7.1   | 7.1   |
| 8     | .84   | 1.5    | 1.4   | 11   | 13    | 62    | 38      | 28    | 11    | 3.8   | 6.7   | 6.7   |
| 9     | .87   | 1.6    | 1.6   | 11   | 13    | 62    | 34      | 27    | 10    | 4.3   | 6.7   | 6.7   |
| 10    | .80   | 1.7    | 1.6   | 11   | 13    | 68    | 32      | 27    | 9.7   | 4.7   | 6.7   | 6.4   |
| 11    | .75   | 2.2    | 1.2   | 11   | 13    | 62    | 35      | 26    | 9.2   | 5.1   | 6.4   | 6.4   |
| 12    | .72   | 21     | 1.2   | 11   | 13    | 54    | 38      | 21    | 8.5   | 5.1   | 6.4   | 6.7   |
| 13    | .77   | 37     | 1.4   | 12   | 13    | 48    | 33      | 19    | 8.5   | 6.5   | 6.1   | 6.7   |
| 14    | .76   | 26     | 1.4   | 13   | 13    | 46    | 40      | 18    | 8.5   | 7.0   | 6.4   | 6.7   |
| 15    | .77   | 18     | 76    | 13   | 13    | 44    | 43      | 19    | 8.3   | 7.8   | 6.4   | 6.7   |
| 16    | .75   | 11     | 115   | 13   | 13    | 42    | 42      | 18    | 7.6   | 8.6   | 6.4   | 6.7   |
| 17    | .57   | 12     | 24    | 13   | 13    | 43    | 39      | 17    | 7.3   | 7.1   | 6.4   | 7.1   |
| 18    | .56   | 19     | 15    | 13   | 13    | 46    | 35      | 17    | 7.2   | 7.1   | 6.7   | 7.1   |
| 19    | .56   | 14     | 13    | 14   | 14    | 44    | 31      | 19    | 7.5   | 7.1   | 6.7   | 6.4   |
| 20    | .57   | 14     | 13    | 14   | 17    | 42    | 31      | 25    | 7.3   | 6.7   | 6.7   | 7.1   |
| 21    | .50   | 13     | 13    | 14   | 23    | 43    | 19      | 22    | 7.5   | 6.7   | 6.4   | 7.1   |
| 22    | .50   | 12     | 35    | 16   | 28    | 46    | 1.4     | 19    | 7.3   | 7.1   | 6.1   | 6.7   |
| 23    | .59   | 22     | 29    | 18   | 21    | 44    | 1.4     | 17    | 7.3   | 7.1   | 6.1   | 7.1   |
| 24    | .61   | 30     | 23    | 15   | 20    | 41    | 1.3     | 16    | 7.3   | 7.1   | 6.1   | 7.1   |
| 25    | .59   | 28     | 22    | 13   | 21    | 43    | 1.3     | 12    | 7.3   | 7.1   | 6.1   | 7.5   |
| 26    | .59   | 21     | 18    | 13   | 20    | 37    | 46      | 6.0   | 7.3   | 7.1   | 6.1   | 8.6   |
| 27    | .61   | 27     | 17    | 12   | 23    | 33    | 65      | 24    | 7.3   | 6.7   | 6.1   | 10    |
| 28    | .63   | 20     | 17    | 13   | 35    | 30    | 63      | 14    | 7.3   | 14    | 6.4   | 9.7   |
| 29    | .60   | 9.3    | 16    | 12   | 64    | 28    | 62      | 12    | 7.3   | 13    | 6.7   | 8.6   |
| 30    | .71   | 1.7    | 14    | 13   | ----- | 26    | 61      | 6.5   | 7.0   | 9.4   | 7.3   | 8.2   |
| 31    | .68   | -----  | 13    | 12   | ----- | 26    | -----   | 13    | ----- | 8.2   | 8.6   | ----- |
| TOTAL | 95.84 | 409.05 | 495.8 | 387  | 519   | 1,537 | 1,059.4 | 677.5 | 261.5 | 216.7 | 203.6 | 220.2 |
| MEAN  | 3.09  | 13.6   | 16.0  | 12.5 | 17.9  | 49.6  | 35.3    | 21.9  | 8.72  | 6.99  | 6.57  | 7.34  |
| MAX   | 13    | 37     | 115   | 18   | 64    | 95    | 65      | 43    | 12    | 14    | 8.6   | 10    |
| MIN   | .50   | .71    | 1.2   | 10   | 12    | 26    | 1.3     | 6.0   | 7.0   | 3.4   | 5.7   | 6.4   |
| AC-FT | 190   | 811    | 983   | 768  | 1,030 | 3,050 | 2,100   | 1,340 | 519   | 430   | 404   | 437   |

CAL YR 1971 TOTAL 11,903.79 MEAN 32.6 MAX 213 MIN .50 AC-FT 23,610  
 WTR YR 1972 TOTAL 6,082.59 MEAN 16.6 MAX 115 MIN .50 AC-FT 12,060

## PYRAMID AND WINNEMUCCA LAKES BASIN

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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 mile upstream from Prosser Creek Reservoir and 2.5 miles north of Truckee.

DRAINAGE AREA.--7.47 sq mi.

PERIOD OF RECORD.--October 1958 to September 1969, October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,800 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 9.16 cfs (6,640 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 40 cfs Apr. 5 (gage height, 1.82 ft); minimum, 0.36 cfs Aug. 25, 28, 29.

Period of record: Maximum discharge, 730 cfs Jan. 31, 1963 (gage height, 5.86 ft), from rating curve extended above 36 cfs 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 poor. No upstream diversions or regulation.

REVISIONS.--WSP 2127: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 1.7   | 1.6      | 1.5  | 1.5  | 2.2   | 6.2   | 10    | 20    | 11    | 2.1   | 1.2   | 1.1   |
| 2           | 1.8   | 1.7      | 1.5  | 1.6  | 2.3   | 5.6   | 14    | 20    | 9.9   | 2.1   | 1.2   | .69   |
| 3           | 1.8   | 1.7      | 1.5  | 1.7  | 2.5   | 12    | 17    | 21    | 9.0   | 2.0   | 1.2   | .58   |
| 4           | 1.7   | 1.7      | 1.6  | 1.8  | 2.6   | 21    | 23    | 25    | 8.7   | 2.0   | 1.2   | .61   |
| 5           | 1.5   | 1.6      | 1.7  | 1.8  | 2.6   | 18    | 33    | 25    | 7.6   | 1.7   | 1.2   | .79   |
| 6           | 1.5   | 1.6      | 1.9  | 1.8  | 2.5   | 18    | 27    | 24    | 6.9   | 1.7   | 1.2   | .81   |
| 7           | 1.4   | 1.6      | 2.0  | 1.8  | 2.5   | 19    | 25    | 24    | 6.9   | 1.7   | 1.1   | .77   |
| 8           | 1.4   | 1.6      | 1.6  | 1.8  | 2.4   | 21    | 22    | 23    | 7.2   | 1.6   | 1.1   | .77   |
| 9           | 1.3   | 1.5      | 1.4  | 1.8  | 2.4   | 26    | 24    | 22    | 6.9   | 1.7   | .97   | .76   |
| 10          | 1.3   | 1.5      | 1.3  | 1.8  | 2.4   | 33    | 24    | 21    | 6.9   | 1.6   | .98   | .85   |
| 11          | 1.2   | 2.0      | 1.3  | 1.9  | 2.4   | 32    | 19    | 20    | 5.6   | 1.5   | .85   | .89   |
| 12          | 1.2   | 2.1      | 1.4  | 2.0  | 2.4   | 28    | 14    | 20    | 5.0   | 1.4   | .84   | .90   |
| 13          | 1.2   | 1.9      | 1.4  | 2.1  | 2.4   | 26    | 15    | 20    | 4.8   | 1.4   | .90   | .90   |
| 14          | 1.1   | 1.8      | 1.4  | 2.0  | 2.4   | 26    | 13    | 21    | 4.4   | 1.4   | .85   | .97   |
| 15          | 1.2   | 1.7      | 1.3  | 1.9  | 2.4   | 24    | 15    | 22    | 4.0   | 1.4   | .76   | .95   |
| 16          | 1.5   | 1.6      | 1.3  | 1.8  | 2.4   | 25    | 20    | 23    | 3.8   | 1.4   | .77   | .92   |
| 17          | 1.5   | 1.6      | 1.3  | 1.9  | 2.1   | 27    | 22    | 22    | 3.7   | 1.4   | .71   | .94   |
| 18          | 1.5   | 1.6      | 1.3  | 2.1  | 2.1   | 28    | 19    | 21    | 3.7   | 1.4   | .69   | .92   |
| 19          | 1.6   | 1.6      | 1.3  | 2.5  | 2.1   | 26    | 16    | 26    | 3.2   | 1.3   | .70   | .98   |
| 20          | 1.6   | 1.7      | 1.3  | 3.2  | 2.5   | 27    | 16    | 20    | 3.1   | 1.3   | .70   | .99   |
| 21          | 1.6   | 1.7      | 1.3  | 3.5  | 3.0   | 30    | 21    | 16    | 2.8   | 1.4   | .69   | .97   |
| 22          | 1.5   | 1.7      | 1.3  | 3.5  | 3.0   | 26    | 25    | 14    | 2.8   | 1.4   | .60   | .94   |
| 23          | 1.4   | 1.7      | 1.5  | 3.0  | 2.5   | 19    | 26    | 13    | 2.7   | 1.4   | .54   | .94   |
| 24          | 1.5   | 1.6      | 1.6  | 2.4  | 2.4   | 17    | 21    | 12    | 2.5   | 1.3   | .51   | 1.0   |
| 25          | 1.4   | 1.6      | 1.7  | 2.2  | 2.4   | 27    | 18    | 12    | 2.5   | 1.3   | .48   | 1.1   |
| 26          | 1.4   | 1.6      | 1.7  | 2.2  | 2.4   | 18    | 20    | 12    | 2.4   | 1.2   | .53   | 1.5   |
| 27          | 1.4   | 1.6      | 1.7  | 2.3  | 2.8   | 15    | 22    | 13    | 2.3   | 1.2   | .53   | 2.1   |
| 28          | 1.4   | 1.6      | 1.7  | 2.3  | 3.8   | 13    | 25    | 14    | 2.2   | 1.2   | .43   | 1.5   |
| 29          | 1.5   | 1.6      | 1.6  | 2.3  | 5.4   | 11    | 22    | 14    | 2.1   | 1.3   | .44   | 1.5   |
| 30          | 1.5   | 1.5      | 1.5  | 2.2  | ----- | 11    | 21    | 13    | 2.1   | 1.3   | .48   | 1.4   |
| 31          | 1.6   | -----    | 1.4  | 2.2  | ----- | 11    | ----- | 12    | ----- | 1.3   | .59   | ----- |
| TOTAL       | 45.2  | 49.9     | 46.3 | 66.9 | 75.3  | 646.8 | 609   | 585   | 146.7 | 46.4  | 24.94 | 30.04 |
| MEAN        | 1.46  | 1.66     | 1.49 | 2.16 | 2.60  | 20.9  | 20.3  | 18.9  | 4.89  | 1.50  | .80   | 1.00  |
| MAX         | 1.8   | 2.1      | 2.0  | 3.5  | 5.4   | 33    | 33    | 26    | 11    | 2.1   | 1.2   | 2.1   |
| MIN         | 1.1   | 1.5      | 1.3  | 1.5  | 2.1   | 5.6   | 10    | 12    | 2.1   | 1.2   | .43   | .58   |
| AC-FT       | 90    | 99       | 92   | 133  | 149   | 1,280 | 1,210 | 1,160 | 291   | 92    | 49    | 60    |
| CAL YR 1971 | TOTAL | 4,271.69 | MEAN | 11.7 | MAX   | 76    | MIN   | .85   | AC-FT | 8,470 |       |       |
| WTR YR 1972 | TOTAL | 2,372.48 | MEAN | 6.48 | MAX   | 33    | MIN   | .43   | AC-FT | 4,710 |       |       |

## PEAK DISCHARGE (BASE, 25 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 3-10 | 1800 | 1.76  | 38        | 4-5  | 1100 | 1.82  | 40        |
| 3-21 | 1900 | 1.75  | 37        | 4-23 | 2000 | 1.70  | 31        |
| 3-25 | 0500 | 1.70  | 33        | 5-19 | 1900 | 1.63  | 28        |



## PYRAMID AND WINNEMUCCA LAKES BASIN

10340300 Prosser Creek Reservoir near Boca, Calif.

LOCATION.--Lat 39°22'45", long 120°08'25", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.30, T.18 N., R.17 E., Nevada County, in control house at Prosser Creek Dam on Prosser Creek, 1.5 miles upstream from mouth, and 3 miles west of Boca.

DRAINAGE AREA.--50.5 sq mi.

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, 19,000 acre-ft June 23 (elevation, 5,726.60 ft); minimum observed, 7,800 acre-ft Feb. 4 (elevation 5,701.18 ft).

Period of record: Maximum contents observed, 30,760 acre-ft May 22, 1963 (elevation, 5,743.95 ft); minimum observed, 1,350 acre-ft Apr. 9, 1969 (elevation, 5,672.30 ft).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft between elevations, 5,660.6 (top of inactive storage) and 5,741.2 ft (spillway crest). Inactive storage, 1,200 acre-ft (includes 83 acre-ft dead storage) below elevation 5,660.6 ft. Elevation of stream bed at dam axis, 5,622 ft. 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 1971 TO SEPTEMBER 1972

| Date                  | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in Contents<br>(acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept.30 . . . . .     | 5,732.07            | 22,320                  | ---                               |
| Oct. 31 . . . . .     | 5,702.60            | 8,260                   | -14,060                           |
| Nov. 30 . . . . .     | 5,703.06            | 8,420                   | +160                              |
| Dec. 31 . . . . .     | 5,702.20            | 8,130                   | -290                              |
| CAL YR 1971 . . . . . | ---                 | ---                     | +330                              |
| Jan. 31 . . . . .     | 5,701.31            | 7,850                   | -280                              |
| Feb. 29 . . . . .     | 5,702.67            | 8,290                   | +440                              |
| Mar. 31 . . . . .     | 5,702.09            | 8,100                   | -190                              |
| Apr. 30 . . . . .     | 5,712.16            | 11,830                  | +3,730                            |
| May 31 . . . . .      | 5,723.10            | 17,060                  | +5,230                            |
| June 30 . . . . .     | 5,726.30            | 18,830                  | +1,770                            |
| July 31 . . . . .     | 5,725.86            | 18,580                  | -250                              |
| Aug. 31 . . . . .     | 5,725.65            | 18,460                  | -120                              |
| Sept.30 . . . . .     | 5,713.91            | 12,580                  | -5,880                            |
| WTR YR 1972 . . . . . | ---                 | ---                     | -9,740                            |

10340500 Prosser Creek near Boca, Calif.

LOCATION.--Lat 39°22'10", long 120°07'10", in SW¼NW¼ sec.32, T.18 N., R.17 E., Nevada County, on left bank 0.2 mile upstream from mouth, 1.0 mile downstream from Prosser Creek Dam, and 2 miles southwest of Boca.

DRAINAGE AREA.--53.6 sq mi.

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 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 higher.

AVERAGE DISCHARGE.--29 years (1942-50, 1951-72), 86.7 cfs (62,810 acre-ft per year). Adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 295 cfs Oct. 8 (gage height, 3.43 ft); minimum, 2.3 cfs Nov. 16.

Period of record: Maximum discharge, 4,560 cfs Dec. 23, 1955 (gage height, 10.13 ft, present datum); from rating curve extended above 910 cfs on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft, from floodmarks (present datum), Nov. 20, 1950 (discharge, 4,320 cfs by slope-area measurement); minimum discharge, 0.4 cfs July 18, 1961, result of work on dam upstream.

REMARKS.--Records excellent. 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 1971 TO SEPTEMBER 1972

| DAY   | OCT    | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|-------|
| 1     | 249    | 30    | 36    | 35    | 36    | 74     | 94    | 124   | 182   | 68    | 13   | 10    |
| 2     | 247    | 30    | 36    | 35    | 36    | 94     | 94    | 124   | 182   | 68    | 13   | 10    |
| 3     | 247    | 30    | 36    | 35    | 35    | 126    | 94    | 126   | 182   | 68    | 13   | 10    |
| 4     | 245    | 30    | 36    | 35    | 20    | 149    | 94    | 126   | 182   | 68    | 13   | 10    |
| 5     | 245    | 30    | 36    | 35    | 11    | 147    | 113   | 143   | 164   | 46    | 13   | 10    |
| 6     | 262    | 30    | 36    | 35    | 11    | 207    | 147   | 153   | 154   | 33    | 13   | 48    |
| 7     | 270    | 30    | 36    | 35    | 11    | 241    | 201   | 153   | 140   | 33    | 13   | 71    |
| 8     | 284    | 30    | 36    | 35    | 11    | 241    | 219   | 153   | 131   | 32    | 13   | 71    |
| 9     | 292    | 30    | 36    | 35    | 11    | 241    | 218   | 153   | 129   | 33    | 12   | 71    |
| 10    | 290    | 30    | 35    | 35    | 11    | 241    | 138   | 136   | 131   | 33    | 10   | 71    |
| 11    | 290    | 31    | 35    | 35    | 11    | 241    | 94    | 126   | 131   | 33    | 10   | 109   |
| 12    | 238    | 30    | 36    | 35    | 11    | 241    | 44    | 126   | 112   | 33    | 10   | 133   |
| 13    | 248    | 30    | 36    | 35    | 11    | 253    | 13    | 126   | 101   | 33    | 10   | 149   |
| 14    | 286    | 30    | 36    | 35    | 22    | 260    | 25    | 126   | 80    | 33    | 10   | 160   |
| 15    | 294    | 30    | 36    | 35    | 30    | 247    | 32    | 143   | 68    | 33    | 10   | 160   |
| 16    | 294    | 23    | 35    | 35    | 30    | 239    | 32    | 151   | 68    | 33    | 10   | 160   |
| 17    | 281    | 24    | 35    | 35    | 30    | 207    | 50    | 133   | 68    | 33    | 10   | 160   |
| 18    | 279    | 24    | 35    | 35    | 30    | 190    | 61    | 124   | 68    | 33    | 10   | 160   |
| 19    | 279    | 24    | 35    | 35    | 30    | 133    | 61    | 145   | 46    | 21    | 10   | 160   |
| 20    | 277    | 24    | 35    | 35    | 31    | 209    | 61    | 153   | 33    | 13    | 10   | 158   |
| 21    | 275    | 24    | 35    | 35    | 31    | 218    | 53    | 153   | 54    | 13    | 10   | 158   |
| 22    | 273    | 24    | 37    | 37    | 31    | 235    | 48    | 136   | 68    | 13    | 10   | 158   |
| 23    | 270    | 24    | 36    | 37    | 49    | 243    | 48    | 128   | 98    | 13    | 10   | 158   |
| 24    | 270    | 31    | 36    | 36    | 59    | 224    | 110   | 109   | 103   | 13    | 10   | 156   |
| 25    | 266    | 36    | 36    | 36    | 58    | 216    | 149   | 100   | 103   | 13    | 10   | 156   |
| 26    | 264    | 37    | 35    | 36    | 58    | 214    | 87    | 100   | 81    | 13    | 10   | 156   |
| 27    | 112    | 36    | 35    | 35    | 59    | 170    | 48    | 100   | 68    | 13    | 10   | 138   |
| 28    | 30     | 36    | 35    | 36    | 60    | 145    | 77    | 100   | 68    | 13    | 10   | 128   |
| 29    | 30     | 36    | 35    | 36    | 61    | 129    | 97    | 120   | 68    | 13    | 12   | 128   |
| 30    | 30     | 36    | 35    | 36    | ----- | 121    | 113   | 129   | 68    | 13    | 11   | 143   |
| 31    | 30     | ----- | 35    | 36    | ----- | 104    | ----- | 162   | ----- | 13    | 10   | ----- |
| TOTAL | 7,317  | 890   | 1,103 | 1,097 | 895   | 6,050  | 2,714 | 4,081 | 3,121 | 924   | 339  | 3,370 |
| MEAN  | 236    | 29.7  | 35.6  | 35.4  | 30.9  | 195    | 90.5  | 132   | 104   | 29.8  | 10.9 | 112   |
| MAX   | 292    | 37    | 37    | 37    | 61    | 260    | 218   | 162   | 182   | 68    | 13   | 160   |
| MIN   | 30     | 23    | 35    | 35    | 11    | 74     | 13    | 100   | 33    | 13    | 10   | 10    |
| AC-FT | 14,510 | 1,770 | 2,190 | 2,180 | 1,780 | 12,000 | 5,380 | 8,090 | 6,190 | 1,830 | 672  | 6,680 |

CAL YR 1971 TOTAL 41,702 MEAN 114 MAX 865 MIN 14 AC-FT 82,720  
 WTR YR 1972 TOTAL 31,901 MEAN 87.2 MAX 292 MIN 10 AC-FT 63,280

Adjusted for change in storage in Prosser Creek Reservoir

| Mean                | 7.32    | 32.4   | 30.9      | 30.9  | 38.6         | 192    | 153       | 217          | 134   | 25.7  | 8.98 | 13.4 |
|---------------------|---------|--------|-----------|-------|--------------|--------|-----------|--------------|-------|-------|------|------|
| Ac-ft               | 450     | 1,930  | 1,900     | 1,900 | 2,220        | 11,810 | 9,110     | 13,320       | 7,960 | 1,580 | 552  | 800  |
| Observed            |         |        |           |       |              |        |           |              |       |       |      |      |
| Adjusted            |         |        |           |       |              |        |           |              |       |       |      |      |
| Calendar year 1971: | Max 865 | Min 14 | Mean 114  |       | Ac-ft 82,720 |        | Mean 115  | Ac-ft 83,050 |       |       |      |      |
| Water year 1971-72: | Max 292 | Min 10 | Mean 87.2 |       | Ac-ft 63,280 |        | Mean 73.8 | Ac-ft 53,540 |       |       |      |      |

10342000 Little Truckee River near Hobart Mills, Calif.

LOCATION.--Lat 39°30'05", long 120°16'35", in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.14, T.19 N., R.15 E., Sierra County, on left bank 0.5 mile upstream from Independence Creek and 7.5 miles northwest of Hobart Mills.

DRAINAGE AREA.--36.5 sq mi.

PERIOD OF RECORD.--December 1946 to Sept. 30, 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,290 ft (from topographic map). Prior to Nov. 9, 1962, water-stage recorder at site 100 ft downstream at datum 0.63 ft lower. Nov. 9, 1962, to Dec. 22, 1964, water-stage recorder at site 100 ft downstream at datum 0.78 ft lower. Dec. 23, 1964, to Aug. 5, 1965, twice monthly observations referred to bridge 75 ft upstream at present datum.

AVERAGE DISCHARGE.--25 years (1947-72), 89.8 cfs (65,060 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 421 cfs May 31 (gage height, 3.80 ft); minimum, 0.72 cfs Aug. 12.

Period of record: Maximum discharge, 7,910 cfs Feb. 1, 1963 (gage height, 7.76 ft), from rating curve extended above 1,100 cfs on basis of slope-area measurements at gage heights 6.97 and 7.68 ft; (adjusted to datum used in 1963); minimum, 0.40 cfs Oct. 19, 1966.

REMARKS.--Records good except those for winter months, which are fair. One transmountain diversion to Sierra Valley above station.

REVISIONS.--WSP 2127: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|------|-------|-------|-------|--------|-------|-------|-------|-------|
| 1     | 9.6   | 9.2   | 16    | 17   | 12    | 30    | 85    | 215    | 345   | 9.6   | 1.7   | 5.7   |
| 2     | 11    | 9.2   | 14    | 16   | 11    | 25    | 92    | 248    | 308   | 8.3   | 1.4   | 6.5   |
| 3     | 12    | 9.2   | 14    | 15   | 12    | 53    | 108   | 270    | 279   | 7.8   | 1.4   | 4.3   |
| 4     | 12    | 9.2   | 14    | 12   | 13    | 71    | 140   | 289    | 243   | 7.4   | 1.4   | 3.8   |
| 5     | 11    | 8.7   | 16    | 12   | 15    | 75    | 252   | 303    | 231   | 6.9   | 1.4   | 4.6   |
| 6     | 9.6   | 8.3   | 19    | 13   | 17    | 73    | 207   | 303    | 231   | 6.5   | 1.2   | 4.9   |
| 7     | 9.6   | 8.3   | 18    | 14   | 16    | 75    | 159   | 284    | 227   | 6.0   | 1.2   | 4.0   |
| 8     | 9.7   | 8.3   | 18    | 15   | 15    | 81    | 134   | 243    | 215   | 5.4   | 1.0   | 3.5   |
| 9     | 8.7   | 7.8   | 17    | 15   | 15    | 86    | 121   | 239    | 207   | 5.4   | 1.0   | 2.5   |
| 10    | 8.7   | 8.3   | 18    | 15   | 15    | 140   | 113   | 243    | 203   | 5.2   | 1.0   | 2.3   |
| 11    | 8.3   | 27    | 19    | 16   | 15    | 146   | 103   | 257    | 146   | 4.9   | 1.0   | 2.8   |
| 12    | 8.3   | 34    | 12    | 17   | 13    | 143   | 85    | 279    | 121   | 4.0   | .86   | 2.8   |
| 13    | 8.3   | 17    | 12    | 17   | 13    | 146   | 89    | 308    | 103   | 3.2   | .86   | 2.8   |
| 14    | 7.8   | 16    | 12    | 16   | 13    | 146   | 94    | 324    | 105   | 3.2   | 1.0   | 2.8   |
| 15    | 8.3   | 16    | 12    | 16   | 15    | 143   | 101   | 350    | 101   | 3.0   | 1.0   | 2.8   |
| 16    | 9.6   | 14    | 12    | 15   | 13    | 149   | 112   | 345    | 92    | 2.8   | 1.0   | 2.5   |
| 17    | 10    | 14    | 12    | 17   | 12    | 168   | 113   | 308    | 81    | 2.8   | 1.0   | 2.5   |
| 18    | 10    | 14    | 13    | 17   | 13    | 186   | 101   | 275    | 77    | 2.8   | 1.0   | 2.8   |
| 19    | 11    | 13    | 13    | 16   | 15    | 182   | 89    | 266    | 73    | 2.8   | 1.2   | 2.8   |
| 20    | 11    | 14    | 14    | 15   | 17    | 175   | 89    | 215    | 65    | 2.5   | 1.9   | 3.0   |
| 21    | 10    | 13    | 16    | 15   | 18    | 203   | 99    | 165    | 55    | 2.5   | 1.9   | 2.8   |
| 22    | 9.6   | 13    | 19    | 17   | 27    | 200   | 110   | 156    | 50    | 2.5   | 1.7   | 3.2   |
| 23    | 9.6   | 13    | 19    | 14   | 17    | 149   | 126   | 168    | 43    | 2.3   | 1.2   | 3.2   |
| 24    | 10    | 14    | 24    | 16   | 14    | 134   | 143   | 175    | 34    | 2.1   | 1.4   | 3.2   |
| 25    | 9.6   | 14    | 79    | 16   | 15    | 159   | 121   | 200    | 27    | 2.1   | 1.4   | 3.2   |
| 26    | 9.2   | 24    | 50    | 16   | 18    | 124   | 121   | 231    | 22    | 1.9   | 1.4   | 7.8   |
| 27    | 10    | 33    | 45    | 15   | 25    | 108   | 149   | 270    | 14    | 1.9   | 1.4   | 28    |
| 28    | 8.7   | 23    | 32    | 14   | 28    | 96    | 196   | 303    | 14    | 1.9   | 1.4   | 13    |
| 29    | 8.3   | 22    | 25    | 13   | 21    | 89    | 207   | 303    | 12    | 1.7   | 3.0   | 9.6   |
| 30    | 9.2   | 20    | 20    | 12   | ----- | 85    | 193   | 258    | 11    | 1.7   | 3.5   | 8.7   |
| 31    | 9.2   | ----- | 19    | 13   | ----- | 87    | ----- | 334    | ----- | 1.7   | 4.3   | ----- |
| TOTAL | 296.9 | 464.5 | 643   | 467  | 474   | 3,747 | 3,858 | 6,166  | 3,736 | 122.8 | 46.12 | 152.4 |
| MEAN  | 9.58  | 15.5  | 20.7  | 15.1 | 16.3  | 121   | 129   | 263    | 125   | 3.96  | 1.49  | 5.08  |
| MAX   | 12    | 37    | 79    | 17   | 31    | 203   | 252   | 350    | 345   | 9.6   | 4.3   | 28    |
| MIN   | 7.8   | 7.8   | 12    | 12   | 11    | 30    | 85    | 156    | 11    | 1.7   | .86   | 2.3   |
| AC-FT | 569   | 921   | 1,280 | 926  | 940   | 7,430 | 7,650 | 16,200 | 7,410 | 244   | 91    | 302   |

CAL YR 1971 TOTAL 42,921.20 MEAN 118 MAX 700 MIN 1.7 AC-FT 85,130  
 WTR YR 1972 TOTAL 22,173.72 MEAN 60.6 MAX 350 MIN .80 AC-FT 43,980

Peak discharge (base, 500 cfs).--No peak above base.

10343000 Independence Creek near Truckee, Calif.

LOCATION.--Lat 39°27'20", long 120°17'15", in NW¼SW¼ sec.35, T.19 N., R.15 E., Sierra County, on left bank 0.3 mile downstream from Independence Lake outlet, 6.5 miles northwest of Hobart Mills, and 10 miles north-northwest of Truckee.

DRAINAGE AREA.--7.63 sq mi.

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 (from topographic map). July 1, 1904, to June 30, 1910, water-stage recorder 75 ft downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft downstream at approximately same datum.

AVERAGE DISCHARGE.--9 years (1902-7, 1968-72), 33.7 cfs (24,420 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 128 cfs May 31 (gage height, 4.35 ft); minimum daily, 6.2 cfs Feb. 28 to Mar. 2, Mar. 4-8. Period of record: Maximum discharge observed, 286 cfs June 23, 1907 (gage height, 3.9 ft), site and datum then in use; no flow Sept. 28 to Nov. 10, 1905, and June 1, 1906.

REMARKS.--Records excellent except those for period of no gage-height record, which are poor. Flow regulated by Independence Lake (usable capacity, 17,500 acre-ft).

REVISIONS.--WSP 2127: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 50    | 29    | 13    | 8.8   | 8.4   | 6.2   | 7.3   | 9.5   | 121   | 21    | 16   | 12    |
| 2     | 50    | 28    | 13    | 8.8   | 8.1   | 6.2   | 7.6   | 9.8   | 115   | 22    | 16   | 12    |
| 3     | 50    | 28    | 13    | 8.7   | 8.1   | 6.4   | 7.8   | 9.8   | 116   | 21    | 16   | 12    |
| 4     | 50    | 27    | 12    | 8.7   | 8.1   | 6.2   | 7.8   | 9.8   | 115   | 20    | 16   | 12    |
| 5     | 50    | 26    | 12    | 8.7   | 8.1   | 6.2   | 8.7   | 9.5   | 113   | 20    | 16   | 12    |
| 6     | 49    | 26    | 12    | 8.7   | 7.8   | 6.2   | 7.8   | 9.2   | 112   | 20    | 17   | 12    |
| 7     | 49    | 25    | 12    | 8.7   | 7.8   | 6.2   | 7.8   | 9.0   | 111   | 20    | 17   | 12    |
| 8     | 48    | 24    | 11    | 9.0   | 8.1   | 6.2   | 7.8   | 9.0   | 111   | 19    | 16   | 19    |
| 9     | 48    | 23    | 11    | 9.0   | 8.1   | 6.4   | 7.8   | 9.0   | 87    | 19    | 16   | 22    |
| 10    | 47    | 23    | 11    | 8.7   | 8.1   | 6.7   | 8.1   | 9.2   | 75    | 18    | 15   | 22    |
| 11    | 46    | 22    | 11    | 8.7   | 7.8   | 7.3   | 8.1   | 9.2   | 61    | 18    | 13   | 22    |
| 12    | 45    | 22    | 11    | 9.0   | 7.8   | 7.6   | 7.8   | 9.2   | 34    | 18    | 13   | 22    |
| 13    | 44    | 21    | 10    | 9.2   | 7.8   | 7.6   | 7.8   | 10    | 22    | 18    | 13   | 22    |
| 14    | 43    | 21    | 10    | 9.2   | 7.8   | 7.6   | 8.1   | 11    | 21    | 18    | 13   | 22    |
| 15    | 42    | 20    | 10    | 9.0   | 7.8   | 7.8   | 8.4   | 20    | 21    | 18    | 13   | 22    |
| 16    | 41    | 20    | 10    | 9.0   | 7.3   | 7.6   | 8.4   | 24    | 22    | 18    | 13   | 22    |
| 17    | 40    | 19    | 10    | 8.4   | 7.3   | 7.6   | 8.4   | 23    | 22    | 18    | 13   | 31    |
| 18    | 39    | 18    | 9.5   | 8.4   | 7.3   | 7.8   | 8.1   | 23    | 22    | 18    | 13   | 36    |
| 19    | 38    | 18    | 9.5   | 8.4   | 7.0   | 7.6   | 8.1   | 25    | 22    | 18    | 13   | 36    |
| 20    | 37    | 18    | 9.5   | 8.4   | 7.0   | 7.8   | 8.1   | 25    | 21    | 18    | 13   | 36    |
| 21    | 37    | 17    | 9.5   | 8.4   | 7.0   | 7.8   | 8.7   | 24    | 21    | 18    | 13   | 36    |
| 22    | 36    | 17    | 9.5   | 8.4   | 7.0   | 7.8   | 9.0   | 23    | 22    | 18    | 13   | 36    |
| 23    | 35    | 16    | 9.0   | 8.4   | 6.7   | 7.3   | 9.0   | 23    | 22    | 18    | 13   | 35    |
| 24    | 34    | 16    | 9.0   | 8.1   | 7.0   | 7.3   | 8.7   | 23    | 22    | 18    | 13   | 34    |
| 25    | 34    | 15    | 9.0   | 8.1   | 6.4   | 7.6   | 8.7   | 23    | 22    | 18    | 13   | 34    |
| 26    | 33    | 15    | 9.0   | 7.8   | 6.4   | 7.6   | 9.2   | 24    | 22    | 18    | 13   | 34    |
| 27    | 32    | 15    | 9.0   | 8.7   | 6.4   | 7.6   | 9.8   | 26    | 22    | 18    | 13   | 34    |
| 28    | 32    | 14    | 8.8   | 8.7   | 6.2   | 7.6   | 9.8   | 36    | 22    | 17    | 13   | 34    |
| 29    | 31    | 14    | 8.8   | 8.1   | 6.2   | 7.6   | 9.5   | 62    | 21    | 17    | 13   | 34    |
| 30    | 31    | 14    | 8.8   | 8.1   | ----- | 7.3   | 9.5   | 76    | 21    | 17    | 12   | 34    |
| 31    | 30    | ----- | 8.8   | 8.1   | ----- | 7.6   | ----- | 105   | ----- | 16    | 12   | ----- |
| TOTAL | 1,271 | 611   | 319.7 | 266.4 | 214.9 | 222.3 | 251.7 | 718.2 | 1,561 | 573   | 432  | 763   |
| MEAN  | 41.0  | 20.4  | 10.3  | 8.59  | 7.41  | 7.17  | 8.39  | 23.2  | 52.0  | 18.5  | 13.9 | 25.4  |
| MAX   | 50    | 29    | 13    | 9.2   | 8.4   | 7.8   | 9.8   | 105   | 121   | 22    | 17   | 36    |
| MIN   | 30    | 14    | 8.8   | 7.8   | 6.2   | 6.2   | 7.3   | 9.0   | 21    | 16    | 12   | 12    |
| AC-FT | 2,520 | 1,210 | 634   | 528   | 426   | 441   | 499   | 1,420 | 3,100 | 1,140 | 857  | 1,510 |

CAL YR 1971 TOTAL 10,883.7 MEAN 29.8 MAX 165 MIN 5.4 AC-FT 21,590  
WTR YR 1972 TOTAL 7,204.2 MEAN 19.7 MAX 121 MIN 6.2 AC-FT 14,290

NOTE.--No gage-height record Oct. 7 to Jan. 5.

## 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.--19 years, 12.4 cfs (8,980 acre-ft per year); median of yearly mean discharges, 10 cfs (7,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 50 cfs May 19 (gage height, 2.60 ft); minimum daily, 2.3 cfs Sept. 21-30.

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. No storage or diversion above station.

## DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 4.9   | 4.5   | 5.2   | 4.8   | 4.6   | 7.4   | 14    | 30    | 21    | 6.0   | 2.9  | 3.8   |
| 2     | 5.1   | 4.5   | 5.3   | 4.9   | 4.7   | 9.1   | 17    | 32    | 21    | 5.7   | 2.9  | 3.4   |
| 3     | 4.8   | 4.5   | 5.3   | 4.8   | 4.4   | 16    | 20    | 33    | 20    | 5.5   | 2.8  | 3.1   |
| 4     | 4.4   | 4.4   | 5.1   | 4.7   | 4.4   | 17    | 24    | 33    | 19    | 5.3   | 2.8  | 3.3   |
| 5     | 4.2   | 4.4   | 5.3   | 4.9   | 4.4   | 16    | 36    | 33    | 19    | 5.0   | 2.8  | 3.5   |
| 6     | 4.0   | 4.3   | 5.4   | 4.9   | 4.2   | 16    | 29    | 33    | 20    | 4.8   | 2.8  | 3.4   |
| 7     | 3.9   | 4.4   | 4.7   | 4.8   | 4.2   | 16    | 24    | 31    | 21    | 4.7   | 2.7  | 3.0   |
| 8     | 3.7   | 4.3   | 5.1   | 4.6   | 4.2   | 17    | 21    | 30    | 21    | 4.6   | 2.7  | 2.8   |
| 9     | 3.6   | 4.3   | 4.6   | 4.7   | 4.2   | 20    | 21    | 29    | 20    | 4.4   | 2.7  | 2.7   |
| 10    | 3.8   | 4.3   | 4.6   | 4.6   | 4.2   | 26    | 20    | 29    | 20    | 4.3   | 2.7  | 2.7   |
| 11    | 3.8   | 16    | 4.6   | 4.4   | 4.2   | 22    | 19    | 29    | 16    | 4.2   | 2.6  | 2.7   |
| 12    | 3.7   | 9.2   | 4.7   | 4.5   | 4.3   | 20    | 17    | 28    | 15    | 4.1   | 2.6  | 2.7   |
| 13    | 3.8   | 6.2   | 5.1   | 4.5   | 4.3   | 20    | 17    | 29    | 14    | 4.0   | 2.6  | 2.7   |
| 14    | 3.7   | 5.8   | 4.8   | 4.4   | 4.4   | 20    | 17    | 29    | 13    | 3.8   | 2.6  | 2.6   |
| 15    | 3.9   | 5.4   | 4.6   | 4.4   | 4.3   | 19    | 20    | 29    | 12    | 3.8   | 2.6  | 2.6   |
| 16    | 4.4   | 5.2   | 4.7   | 4.4   | 4.3   | 21    | 22    | 28    | 12    | 3.6   | 2.6  | 2.5   |
| 17    | 4.5   | 5.0   | 4.5   | 4.4   | 4.5   | 24    | 20    | 26    | 11    | 3.6   | 2.7  | 2.5   |
| 18    | 4.9   | 4.9   | 4.6   | 4.6   | 4.5   | 25    | 18    | 26    | 11    | 3.5   | 2.7  | 2.5   |
| 19    | 4.7   | 4.8   | 4.6   | 4.7   | 4.8   | 23    | 17    | 37    | 10    | 3.4   | 2.7  | 2.4   |
| 20    | 4.6   | 4.8   | 4.6   | 4.7   | 5.3   | 25    | 18    | 30    | 9.7   | 3.6   | 2.7  | 2.4   |
| 21    | 4.4   | 4.9   | 4.6   | 4.8   | 5.7   | 28    | 20    | 25    | 9.2   | 3.7   | 2.6  | 2.3   |
| 22    | 4.2   | 5.0   | 5.1   | 5.1   | 5.6   | 24    | 22    | 23    | 8.9   | 3.6   | 2.6  | 2.3   |
| 23    | 4.3   | 5.0   | 6.1   | 5.0   | 5.3   | 20    | 24    | 22    | 8.5   | 3.4   | 2.6  | 2.3   |
| 24    | 4.5   | 5.2   | 5.4   | 5.0   | 5.1   | 20    | 24    | 21    | 8.4   | 3.3   | 2.6  | 2.3   |
| 25    | 4.4   | 5.0   | 19    | 4.7   | 5.2   | 26    | 22    | 20    | 8.1   | 3.2   | 2.6  | 2.3   |
| 26    | 4.3   | 11    | 11    | 4.6   | 5.2   | 18    | 23    | 20    | 7.9   | 3.2   | 2.5  | 2.3   |
| 27    | 4.4   | 8.7   | 5.0   | 4.6   | 5.6   | 16    | 27    | 20    | 7.5   | 3.1   | 2.5  | 2.3   |
| 28    | 4.4   | 6.8   | 5.0   | 4.8   | 7.5   | 15    | 30    | 21    | 7.1   | 3.1   | 2.5  | 2.3   |
| 29    | 4.5   | 6.1   | 4.9   | 4.5   | 9.8   | 14    | 28    | 21    | 6.6   | 3.0   | 3.5  | 2.3   |
| 30    | 4.7   | 5.6   | 4.8   | 4.4   | ----- | 14    | 28    | 21    | 6.3   | 3.1   | 3.2  | 2.3   |
| 31    | 4.6   | ----- | 4.8   | 4.3   | ----- | 14    | ----- | 21    | ----- | 3.0   | 3.4  | ----- |
| TOTAL | 133.1 | 174.5 | 173.1 | 144.5 | 143.4 | 588.5 | 659   | 839   | 404.2 | 123.6 | 84.8 | 80.3  |
| MEAN  | 4.29  | 5.82  | 5.58  | 4.66  | 4.94  | 19.0  | 22.0  | 27.1  | 13.5  | 3.99  | 2.74 | 2.68  |
| MAX   | 5.1   | 16    | 19    | 5.1   | 9.8   | 28    | 36    | 37    | 21    | 6.0   | 3.5  | 3.8   |
| MIN   | 3.6   | 4.3   | 4.5   | 4.3   | 4.2   | 7.4   | 14    | 20    | 6.3   | 3.0   | 2.5  | 2.3   |
| AC-FT | 264   | 346   | 343   | 287   | 284   | 1,170 | 1,310 | 1,660 | 802   | 245   | 168  | 159   |

CAL YR 1971 TOTAL 6,684.9 MEAN 18.3 MAX 119 MIN 3.3 AC-FT 13,260

WTR YR 1972 TOTAL 3,948.0 MEAN 9.69 MAX 37 MIN 2.3 AC-FT 7,040

PEAK DISCHARGE (BASE, 50 CFS).--May 19 (1700) 50 cfs (2.60 ft).



## PYRAMID AND WINNEMUCCA LAKES BASIN

137

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 miles north of Boca.

DRAINAGE AREA.--136 sq mi.

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, 149,400 acre-ft Oct. 1 (elevation, 5,923.5 ft); minimum, 115,400 acre-ft Sept. 20-27 (elevation, 5,909.8 ft).

Period of record: Maximum contents, 182,500 acre-ft (elevation, 5,935.6 ft) July 20, 1971; minimum, (since July, 1971), 115,400 acre-ft Sept. 20-27, 1972 (elevation, 5,909.8 ft).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft at elevation 5,948.7 ft (spillway crest). Inactive storage, 5,010 acre-ft (includes 660 acre-ft dead storage) below elevation 5,798.3 ft. Elevation of streambed at dam axis, 5,737.0 ft. 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 1971 TO SEPTEMBER 1972

| Date                         | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) |
|------------------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 . . . . .           | 5,923.8             | 149,000                 | --                                |
| Oct. 31 . . . . .            | 5,913.3             | 123,600                 | -25,400                           |
| Nov. 30 . . . . .            | 5,913.2             | 123,400                 | -200                              |
| Dec. 31 . . . . .            | 5,912.9             | 122,600                 | -800                              |
| Calendar year 1971 . . . . . | -                   | -                       | +27,600                           |
| Jan. 31 . . . . .            | 5,912.6             | 121,900                 | -700                              |
| Feb. 29 . . . . .            | 5,912.4             | 121,400                 | -500                              |
| Mar. 31 . . . . .            | 5,919.0             | 137,600                 | +16,200                           |
| Apr. 30 . . . . .            | 5,916.2             | 130,700                 | -6,900                            |
| May 31 . . . . .             | 5,913.2             | 123,200                 | -7,500                            |
| June 30 . . . . .            | 5,912.7             | 122,000                 | -1,200                            |
| July 31 . . . . .            | 5,912.1             | 120,700                 | -1,300                            |
| Aug. 31 . . . . .            | 5,910.2             | 116,300                 | -4,400                            |
| Sept. 30 . . . . .           | 5,909.9             | 115,600                 | -700                              |
| Water year 1971-72 . . . . . | -                   | -                       | -33,400                           |

10344400 Little Truckee River above Boca Reservoir, near Boca, Calif.

LOCATION.--Lat 39°26'10", long 120°05'00", in SW¼SW¼ sec.3, T.18 N., R.17 E., Nevada County, on left bank 1 mile upstream from Boca Reservoir, 1.5 miles upstream from Dry Creek, 3.0 miles downstream from Stampede Dam on Little Truckee River, and 3.5 miles north of Boca.

DRAINAGE AREA.--146 sq mi.

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 above mean sea level (Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

AVERAGE DISCHARGE.--40 years (1903-10, 1939-72), 194 cfs (140,600 acre-ft per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 704 cfs May 5, 6 (gage height, 2.33 ft); minimum daily, 24 cfs Nov. 2, June 23.  
Period of record: Maximum discharge, 13,300 cfs Feb. 1, 1963 (gage height, 9.00 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.30 cfs Sept. 16-21, 1969.

REMARKS.--Records excellent. Flow regulated by Independence Lake (capacity, about 17,500 acre-ft), one transmountain diversion to Sierra Valley, and Stampede Reservoir (capacity, 226,500 acre-ft).

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 1971 TO SEPTEMBER 1972

| DAY         | OCT          | NOV      | DEC     | JAN    | FEB           | MAR   | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|--------------|----------|---------|--------|---------------|-------|--------|--------|--------|-------|-------|-------|
| 1           | 503          | 31       | 94      | 66     | 66            | 35    | 66     | 517    | 522    | 32    | 35    | 36    |
| 2           | 504          | 24       | 94      | 66     | 66            | 40    | 66     | 544    | 544    | 32    | 35    | 35    |
| 3           | 503          | 31       | 94      | 66     | 66            | 53    | 66     | 544    | 545    | 33    | 35    | 35    |
| 4           | 503          | 31       | 94      | 66     | 66            | 58    | 67     | 558    | 544    | 33    | 35    | 36    |
| 5           | 503          | 31       | 94      | 66     | 66            | 52    | 70     | 600    | 504    | 32    | 35    | 36    |
| 6           | 503          | 31       | 94      | 66     | 66            | 49    | 305    | 664    | 443    | 32    | 35    | 36    |
| 7           | 491          | 31       | 94      | 66     | 66            | 48    | 491    | 688    | 441    | 32    | 35    | 35    |
| 8           | 502          | 31       | 94      | 66     | 66            | 48    | 497    | 672    | 382    | 32    | 34    | 35    |
| 9           | 500          | 31       | 94      | 66     | 66            | 49    | 497    | 600    | 342    | 32    | 34    | 35    |
| 10          | 497          | 31       | 94      | 66     | 66            | 52    | 433    | 551    | 341    | 32    | 116   | 35    |
| 11          | 497          | 35       | 94      | 66     | 66            | 48    | 381    | 551    | 338    | 32    | 210   | 35    |
| 12          | 497          | 47       | 94      | 66     | 66            | 44    | 381    | 551    | 285    | 32    | 210   | 35    |
| 13          | 496          | 63       | 94      | 66     | 66            | 42    | 343    | 551    | 229    | 32    | 210   | 35    |
| 14          | 496          | 62       | 94      | 66     | 66            | 41    | 313    | 551    | 229    | 32    | 210   | 35    |
| 15          | 497          | 62       | 94      | 66     | 66            | 40    | 313    | 551    | 180    | 32    | 210   | 35    |
| 16          | 497          | 62       | 82      | 66     | 66            | 38    | 313    | 565    | 142    | 34    | 210   | 35    |
| 17          | 491          | 62       | 66      | 66     | 66            | 38    | 398    | 579    | 141    | 34    | 115   | 36    |
| 18          | 551          | 90       | 66      | 66     | 66            | 38    | 490    | 579    | 141    | 34    | 43    | 36    |
| 19          | 608          | 94       | 66      | 66     | 70            | 37    | 490    | 586    | 100    | 34    | 40    | 36    |
| 20          | 608          | 94       | 66      | 66     | 70            | 36    | 490    | 579    | 53     | 34    | 40    | 36    |
| 21          | 608          | 94       | 66      | 66     | 71            | 36    | 445    | 470    | 53     | 34    | 40    | 36    |
| 22          | 608          | 94       | 70      | 67     | 71            | 37    | 399    | 398    | 37     | 34    | 41    | 36    |
| 23          | 607          | 94       | 67      | 68     | 70            | 36    | 398    | 398    | 24     | 33    | 41    | 36    |
| 24          | 608          | 94       | 67      | 66     | 70            | 35    | 398    | 398    | 32     | 32    | 40    | 36    |
| 25          | 608          | 94       | 68      | 66     | 70            | 35    | 427    | 352    | 32     | 32    | 38    | 36    |
| 26          | 607          | 95       | 66      | 66     | 71            | 34    | 451    | 313    | 32     | 34    | 38    | 37    |
| 27          | 296          | 95       | 66      | 66     | 73            | 34    | 457    | 313    | 34     | 34    | 38    | 38    |
| 28          | 37           | 94       | 66      | 66     | 74            | 33    | 463    | 313    | 36     | 34    | 37    | 37    |
| 29          | 32           | 95       | 66      | 66     | 58            | 33    | 463    | 313    | 32     | 34    | 37    | 36    |
| 30          | 31           | 94       | 66      | 66     | -----         | 42    | 476    | 313    | 32     | 34    | 37    | 37    |
| 31          | 31           | -----    | 66      | 66     | -----         | 66    | -----  | 401    | -----  | 34    | 37    | ----- |
| TOTAL       | 14,320       | 1,907    | 2,490   | 2,049  | 1,556         | 1,307 | 10,846 | 15,563 | 6,790  | 1,021 | 2,351 | 1,073 |
| MEAN        | 462          | 63.6     | 80.3    | 66.1   | 67.4          | 42.2  | 362    | 502    | 226    | 32.9  | 75.8  | 35.8  |
| MAX         | 608          | 95       | 94      | 68     | 74            | 66    | 497    | 688    | 545    | 34    | 210   | 38    |
| MIN         | 31           | 24       | 66      | 66     | 58            | 33    | 66     | 313    | 24     | 32    | 34    | 35    |
| AC-FT       | 28,400       | 3,780    | 4,940   | 4,060  | 3,880         | 2,590 | 21,510 | 30,870 | 13,470 | 2,030 | 4,660 | 2,130 |
| CAL YR 1971 | TOTAL 77,527 | MEAN 212 | MAX 623 | MIN 24 | AC-FT 153,800 |       |        |        |        |       |       |       |
| WTR YR 1972 | TOTAL 61,673 | MEAN 169 | MAX 688 | MIN 24 | AC-FT 122,300 |       |        |        |        |       |       |       |

\*Adjusted for change in storage in Stampede Reservoir (see preceding page)

|                     | Mean     | Ac-ft  | Mean     | Ac-ft         | Mean     | Ac-ft         | Mean     | Ac-ft | Mean | Ac-ft | Mean | Ac-ft  |
|---------------------|----------|--------|----------|---------------|----------|---------------|----------|-------|------|-------|------|--------|
|                     | 48.8     | 3,000  | 60.2     | 3,580         | 67.3     | 4,140         | 54.6     | 3,360 | 58.8 | 3,380 | 306  | 18,790 |
|                     |          |        |          |               |          |               |          |       |      |       | 246  | 14,610 |
|                     |          |        |          |               |          |               |          |       |      |       | 380  | 23,370 |
|                     |          |        |          |               |          |               |          |       |      |       | 206  | 12,270 |
|                     |          |        |          |               |          |               |          |       |      |       | 11.9 | 730    |
|                     |          |        |          |               |          |               |          |       |      |       | 4.23 | 260    |
|                     |          |        |          |               |          |               |          |       |      |       | 24.0 | 1,430  |
|                     | Observed |        |          |               |          |               | Adjusted |       |      |       |      |        |
| Calendar year 1971: | Max 623  | Min 24 | Mean 212 | Ac-ft 153,800 | Mean 251 | Ac-ft 181,400 |          |       |      |       |      |        |
| Water year 1971-72: | Max 688  | Min 24 | Mean 169 | Ac-ft 122,300 | Mean 122 | Ac-ft 88,900  |          |       |      |       |      |        |

\* 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°23'20", long 120°05'40", in NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.28, T.18 N., R.17 E., Nevada County, in control house at Boca Dam on Little Truckee River, 1,800 ft upstream from mouth, and 0.5 mile northwest of Boca.

DRAINAGE AREA.--172 sq mi.

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, 37,050 acre-ft June 11-14 (elevation, 5,601.0 ft); minimum, 27,980 acre-ft Sept. 26, (elevation, 5,590.6 ft).

Period of record: Maximum contents, 41,440 acre-ft Dec. 23, 1955 (elevation, 5,605.55 ft); minimum, 37 acre-ft Mar. 4-9, 1955 (elevation, 5,521.65 ft).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft between elevations 5,521 (outlet sill) and 5,605 ft (top of spillway gates). Elevation of spillway (gate open) is 5,589.01 ft. Dead storage, 241 acre-ft 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)

|       |        |
|-------|--------|
| 5,590 | 27,510 |
| 5,600 | 36,150 |
| 5,605 | 40,870 |

## CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1   | 30,830   | 32,720   | 32,370   | 32,540   | 31,000   | 31,350   | 32,460   | 32,890   | 34,670   | 34,850   | 32,890   | 29,640   |
| 2   | 30,660   | 32,720   | 32,370   | 32,540   | 30,830   | 31,440   | 32,540   | 33,070   | 34,940   | 34,850   | 32,890   | 29,640   |
| 3   | 30,660   | 32,720   | 32,370   | 32,460   | 31,000   | 31,610   | 32,540   | 33,070   | 35,400   | 34,670   | 32,890   | 29,640   |
| 4   | 30,490   | 32,720   | 32,540   | 32,370   | 30,660   | 31,850   | 32,540   | 33,070   | 35,760   | 34,670   | 32,890   | 29,640   |
| 5   | 30,400   | 32,720   | 32,460   | 32,370   | 30,490   | 32,020   | 32,540   | 33,070   | 36,040   | 34,580   | 32,890   | 29,640   |
| 6   | 30,320   | 32,720   | 32,460   | 32,370   | 30,320   | 32,200   | 32,460   | 33,250   | 36,400   | 34,490   | 32,810   | 29,640   |
| 7   | 30,230   | 32,720   | 32,460   | 32,370   | 30,060   | 32,370   | 32,370   | 33,420   | 36,680   | 34,310   | 32,720   | 29,550   |
| 8   | 30,060   | 32,720   | 32,460   | 32,110   | 29,890   | 32,370   | 32,540   | 33,510   | 36,870   | 34,130   | 32,720   | 29,390   |
| 9   | 31,150   | 32,720   | 32,540   | 31,850   | 29,810   | 32,460   | 32,540   | 33,600   | 36,870   | 34,040   | 32,720   | 29,220   |
| 10  | 31,150   | 32,720   | 32,540   | 31,610   | 29,980   | 32,540   | 32,630   | 33,600   | 36,870   | 33,960   | 32,540   | 29,050   |
| 11  | 31,150   | 32,720   | 32,540   | 31,350   | 29,980   | 32,540   | 32,720   | 33,780   | 37,050   | 33,780   | 32,720   | 28,880   |
| 12  | 31,150   | 32,720   | 32,540   | 31,090   | 30,060   | 32,540   | 32,720   | 33,690   | 37,050   | 33,780   | 32,980   | 28,720   |
| 13  | 31,320   | 32,720   | 32,540   | 31,180   | 30,150   | 32,630   | 32,810   | 33,780   | 37,050   | 33,690   | 32,980   | 28,640   |
| 14  | 30,660   | 32,720   | 32,630   | 31,090   | 30,150   | 32,630   | 32,890   | 33,780   | 37,050   | 33,600   | 33,250   | 28,550   |
| 15  | 30,830   | 32,720   | 32,630   | 31,090   | 30,400   | 32,630   | 32,810   | 33,780   | 36,960   | 33,600   | 33,070   | 28,550   |
| 16  | 31,180   | 32,720   | 32,630   | 31,000   | 30,400   | 32,630   | 32,810   | 33,780   | 36,680   | 33,510   | 32,810   | 28,550   |
| 17  | 31,350   | 32,540   | 32,540   | 31,000   | 30,490   | 32,630   | 32,720   | 33,870   | 36,680   | 33,420   | 32,540   | 28,550   |
| 18  | 31,700   | 32,540   | 32,540   | 31,000   | 30,490   | 32,630   | 32,720   | 33,960   | 36,680   | 33,340   | 32,110   | 28,550   |
| 19  | 32,370   | 32,540   | 32,540   | 31,000   | 30,490   | 32,630   | 32,890   | 33,960   | 36,680   | 33,250   | 31,520   | 28,470   |
| 20  | 32,370   | 32,460   | 32,540   | 31,000   | 30,490   | 32,540   | 32,890   | 34,130   | 36,500   | 33,250   | 31,000   | 28,470   |
| 21  | 32,540   | 32,460   | 32,540   | 31,000   | 30,490   | 32,540   | 32,890   | 34,220   | 36,400   | 33,250   | 30,660   | 28,470   |
| 22  | 32,540   | 32,370   | 32,630   | 31,000   | 30,660   | 32,370   | 32,980   | 34,310   | 36,310   | 33,250   | 30,490   | 28,300   |
| 23  | 32,540   | 32,370   | 32,630   | 31,000   | 30,660   | 32,370   | 33,070   | 34,310   | 36,130   | 33,160   | 30,400   | 28,220   |
| 24  | 32,890   | 32,370   | 32,720   | 30,920   | 30,830   | 32,370   | 33,070   | 34,310   | 35,940   | 33,070   | 30,320   | 28,140   |
| 25  | 32,890   | 32,370   | 32,720   | 31,000   | 30,920   | 32,540   | 32,890   | 34,400   | 35,670   | 33,070   | 30,150   | 28,060   |
| 26  | 32,980   | 32,370   | 32,720   | 31,000   | 31,000   | 32,460   | 32,890   | 34,400   | 35,490   | 33,070   | 29,980   | 27,980   |
| 27  | 32,980   | 32,370   | 32,810   | 31,000   | 31,090   | 32,460   | 32,890   | 34,490   | 35,220   | 33,070   | 29,980   | 28,060   |
| 28  | 33,070   | 32,370   | 32,720   | 31,000   | 31,180   | 32,460   | 32,980   | 34,580   | 35,120   | 33,070   | 29,640   | 28,140   |
| 29  | 32,980   | 32,370   | 32,720   | 31,000   | 31,350   | 32,460   | 32,890   | 34,580   | 35,030   | 33,070   | 29,810   | 28,140   |
| 30  | 32,890   | 32,370   | 32,540   | 30,920   | -----    | 32,460   | 32,890   | 34,670   | 34,940   | 33,070   | 29,640   | 28,140   |
| 31  | 32,890   | -----    | 32,540   | 30,830   | -----    | 32,460   | -----    | 34,670   | -----    | 32,980   | 29,640   | -----    |
| MAX | 33,070   | 32,720   | 32,810   | 32,540   | 31,350   | 32,630   | 33,070   | 34,670   | 37,050   | 34,850   | 33,250   | 29,640   |
| MIN | 30,060   | 32,370   | 32,370   | 30,830   | 29,810   | 31,350   | 32,370   | 32,890   | 34,670   | 32,980   | 29,640   | 27,980   |
| †   | 5,596.40 | 5,595.80 | 5,596.00 | 5,594.00 | 5,594.60 | 5,595.90 | 5,596.40 | 5,598.40 | 5,598.70 | 5,596.50 | 5,592.60 | 5,590.80 |
| ‡   | +1,800   | -520     | +170     | -1,710   | +520     | +1,110   | +430     | +1,780   | +270     | -1,960   | -3,340   | -1,500   |

CAL YR 1971 MAX 40,900 MIN 30,060 ‡ -70  
WTR YR 1972 MAX 37,050 MIN 27,980 ‡ -2,950

† 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 NE¼ sec.28, T.18 N., R.17 E., Nevada County, on right bank 800 ft upstream from mouth, 1,000 ft downstream from Boca Dam, and 0.3 mile northwest of Boca.

DRAINAGE AREA.--172 sq mi.

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 (from topographic map). Jan. 1, 1911, to Sept. 30, 1915, nonrecording gage at site 650 ft 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.--37 years (1911-15, 1939-72), 187 cfs (135,500 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 670 cfs Oct. 19 (gage height, 3.81 ft); minimum daily, 25 cfs Feb. 10.  
Period of record: Maximum discharge, 8,800 cfs Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

REMARKS.--Records excellent. Flow regulated by Boca Reservoir (capacity, 40,870 acre-ft), Independence Lake (capacity, about 17,500 acre-ft), one transmountain diversion to Sierra Valley, and Stampede Reservoir (capacity, 226,500 acre-ft) since Aug. 1, 1969.

REVISIONS.--WSP 1564: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT            | NOV      | DEC     | JAN     | FEB           | MAR   | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|----------------|----------|---------|---------|---------------|-------|--------|--------|--------|-------|-------|-------|
| 1           | 584            | 48       | 85      | 80      | 62            | 28    | 86     | 490    | 415    | 57    | 38    | 29    |
| 2           | 562            | 30       | 85      | 80      | 62            | 28    | 86     | 520    | 376    | 57    | 37    | 29    |
| 3           | 584            | 30       | 85      | 80      | 139           | 28    | 86     | 536    | 355    | 57    | 37    | 29    |
| 4           | 580            | 30       | 85      | 80      | 194           | 28    | 86     | 548    | 358    | 72    | 38    | 29    |
| 5           | 584            | 30       | 85      | 80      | 192           | 28    | 109    | 560    | 330    | 84    | 38    | 29    |
| 6           | 552            | 31       | 85      | 80      | 190           | 54    | 406    | 588    | 298    | 90    | 38    | 53    |
| 7           | 572            | 31       | 85      | 152     | 149           | 71    | 472    | 634    | 338    | 78    | 41    | 101   |
| 8           | 528            | 31       | 86      | 201     | 98            | 82    | 458    | 647    | 358    | 78    | 39    | 101   |
| 9           | 500            | 30       | 86      | 194     | 50            | 87    | 458    | 568    | 320    | 78    | 75    | 101   |
| 10          | 500            | 31       | 86      | 194     | 25            | 87    | 403    | 528    | 298    | 77    | 85    | 101   |
| 11          | 486            | 31       | 86      | 192     | 28            | 87    | 376    | 540    | 298    | 77    | 80    | 88    |
| 12          | 415            | 46       | 86      | 120     | 28            | 87    | 391    | 532    | 298    | 65    | 80    | 80    |
| 13          | 400            | 76       | 86      | 77      | 28            | 87    | 343    | 528    | 298    | 57    | 153   | 48    |
| 14          | 376            | 85       | 86      | 77      | 28            | 87    | 338    | 528    | 298    | 62    | 256   | 41    |
| 15          | 343            | 85       | 86      | 77      | 28            | 87    | 355    | 532    | 265    | 64    | 295   | 42    |
| 16          | 335            | 85       | 86      | 77      | 28            | 87    | 355    | 532    | 190    | 66    | 313   | 30    |
| 17          | 364            | 84       | 73      | 77      | 28            | 87    | 406    | 532    | 154    | 48    | 325   | 27    |
| 18          | 364            | 107      | 73      | 77      | 28            | 87    | 455    | 532    | 154    | 37    | 310   | 37    |
| 19          | 462            | 110      | 73      | 77      | 28            | 87    | 465    | 536    | 127    | 36    | 298   | 49    |
| 20          | 588            | 110      | 71      | 77      | 28            | 87    | 476    | 536    | 106    | 36    | 260   | 52    |
| 21          | 592            | 110      | 70      | 77      | 28            | 89    | 437    | 455    | 106    | 36    | 121   | 52    |
| 22          | 600            | 110      | 64      | 77      | 28            | 63    | 397    | 388    | 107    | 36    | 103   | 70    |
| 23          | 544            | 109      | 69      | 77      | 28            | 58    | 397    | 388    | 119    | 36    | 90    | 70    |
| 24          | 572            | 94       | 71      | 72      | 29            | 60    | 424    | 388    | 129    | 33    | 85    | 62    |
| 25          | 608            | 85       | 71      | 62      | 29            | 54    | 458    | 338    | 129    | 31    | 87    | 36    |
| 26          | 612            | 85       | 73      | 62      | 29            | 57    | 455    | 290    | 160    | 32    | 87    | 30    |
| 27          | 243            | 85       | 85      | 62      | 29            | 61    | 462    | 290    | 129    | 32    | 87    | 31    |
| 28          | 51             | 85       | 94      | 62      | 29            | 61    | 462    | 293    | 106    | 34    | 69    | 38    |
| 29          | 51             | 85       | 94      | 62      | 29            | 62    | 462    | 293    | 66     | 43    | 55    | 40    |
| 30          | 72             | 84       | 85      | 62      | -----         | 77    | 469    | 295    | 53     | 38    | 51    | 41    |
| 31          | 85             | -----    | 90      | 62      | -----         | 86    | -----  | 376    | -----  | 35    | 41    | ----- |
| TOTAL       | 13,680         | 2,075    | 2,515   | 2,887   | 1,899         | 2,120 | 11,033 | 14,741 | 6,738  | 1,662 | 3,712 | 1,566 |
| MEAN        | 441            | 69.2     | 81.1    | 93.1    | 56.6          | 68.4  | 368    | 476    | 225    | 53.6  | 120   | 52.2  |
| MAX         | 612            | 110      | 94      | 201     | 194           | 89    | 476    | 647    | 415    | 90    | 325   | 101   |
| MIN         | 51             | 30       | 64      | 62      | 25            | 28    | 86     | 290    | 53     | 31    | 37    | 27    |
| AC-FT       | 27,130         | 4,120    | 4,990   | 5,730   | 3,370         | 4,210 | 21,880 | 29,240 | 13,360 | 3,300 | 7,360 | 3,110 |
| CAL YR 1971 | TOTAL 82,174.7 | MEAN 225 | MAX 697 | MIN 1.7 | AC-FT 163,000 |       |        |        |        |       |       |       |
| WTR YR 1972 | TOTAL 64,428.0 | MEAN 176 | MAX 647 | MIN 25  | AC-FT 127,800 |       |        |        |        |       |       |       |

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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 mile upstream from Mystic Canyon, 0.7 mile downstream from Farad powerplant, 2.5 miles north of Floriston, 3.4 miles downstream from Bronco Creek, and 3.5 miles upstream from California-Nevada State line.

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.

AVERAGE DISCHARGE.--73 years (1899-1972), 796 cfs (577,000 acre-ft per year).

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT           | NOV    | DEC      | JAN    | FEB       | MAR     | APR           | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|---------------|--------|----------|--------|-----------|---------|---------------|--------|--------|--------|--------|--------|
| 1           | 1,160         | 474    | 424      | 483    | 437       | 527     | 541           | 1,040  | 1,260  | 509    | 501    | 501    |
| 2           | 1,090         | 449    | 428      | 483    | 437       | 541     | 538           | 1,110  | 1,130  | 501    | 501    | 497    |
| 3           | 1,100         | 445    | 428      | 483    | 505       | 742     | 559           | 1,180  | 1,190  | 493    | 500    | 490    |
| 4           | 1,100         | 416    | 424      | 496    | 536       | 818     | 593           | 1,200  | 1,160  | 495    | 499    | 492    |
| 5           | 1,090         | 412    | 420      | 505    | 527       | 785     | 775           | 1,250  | 1,110  | 489    | 498    | 495    |
| 6           | 1,080         | 408    | 432      | 500    | 532       | 791     | 1,100         | 1,300  | 1,030  | 513    | 498    | 517    |
| 7           | 1,140         | 404    | 416      | 527    | 496       | 846     | 1,140         | 1,330  | 1,040  | 512    | 500    | 534    |
| 8           | 1,110         | 393    | 416      | 564    | 445       | 858     | 1,110         | 1,290  | 1,020  | 504    | 497    | 514    |
| 9           | 1,080         | 393    | 420      | 536    | 449       | 898     | 1,080         | 1,230  | 974    | 502    | 517    | 492    |
| 10          | 1,070         | 389    | 416      | 536    | 416       | 958     | 965           | 1,170  | 921    | 508    | 534    | 489    |
| 11          | 1,060         | 461    | 416      | 532    | 416       | 958     | 887           | 1,200  | 839    | 523    | 526    | 506    |
| 12          | 994           | 550    | 416      | 474    | 420       | 916     | 855           | 1,210  | 807    | 517    | 523    | 527    |
| 13          | 1,060         | 527    | 420      | 416    | 424       | 887     | 769           | 1,250  | 789    | 522    | 570    | 514    |
| 14          | 1,030         | 514    | 445      | 408    | 432       | 898     | 742           | 1,320  | 775    | 515    | 663    | 502    |
| 15          | 1,000         | 505    | 479      | 408    | 445       | 864     | 783           | 1,380  | 726    | 522    | 708    | 502    |
| 16          | 1,020         | 424    | 569      | 408    | 445       | 941     | 815           | 1,380  | 648    | 522    | 725    | 483    |
| 17          | 1,030         | 408    | 474      | 416    | 449       | 852     | 858           | 1,310  | 591    | 517    | 740    | 478    |
| 18          | 1,040         | 466    | 457      | 437    | 449       | 858     | 866           | 1,280  | 590    | 516    | 732    | 484    |
| 19          | 1,090         | 461    | 453      | 441    | 457       | 830     | 850           | 1,370  | 550    | 510    | 718    | 497    |
| 20          | 940           | 461    | 449      | 445    | 470       | 824     | 844           | 1,310  | 486    | 515    | 703    | 500    |
| 21          | 898           | 457    | 453      | 445    | 487       | 881     | 816           | 1,180  | 479    | 516    | 571    | 500    |
| 22          | 893           | 453    | 518      | 457    | 514       | 874     | 766           | 1,030  | 482    | 516    | 549    | 512    |
| 23          | 1,040         | 441    | 505      | 474    | 500       | 798     | 782           | 997    | 507    | 513    | 532    | 512    |
| 24          | 1,130         | 445    | 500      | 457    | 479       | 747     | 875           | 1,010  | 525    | 506    | 531    | 506    |
| 25          | 1,170         | 437    | 518      | 445    | 479       | 801     | 909           | 967    | 513    | 499    | 531    | 484    |
| 26          | 1,180         | 449    | 500      | 441    | 441       | 745     | 881           | 919    | 508    | 501    | 530    | 499    |
| 27          | 869           | 514    | 505      | 449    | 441       | 678     | 889           | 1,010  | 555    | 501    | 530    | 562    |
| 28          | 496           | 470    | 509      | 445    | 466       | 617     | 960           | 1,050  | 537    | 503    | 519    | 487    |
| 29          | 479           | 453    | 505      | 441    | 564       | 585     | 1,000         | 1,090  | 541    | 518    | 515    | 479    |
| 30          | 496           | 432    | 496      | 445    | -----     | 574     | 1,000         | 1,070  | 513    | 509    | 519    | 455    |
| 31          | 505           | -----  | 483      | 457    | -----     | 564     | -----         | 1,180  | -----  | 506    | 517    | -----  |
| TOTAL       | 30,440        | 13,511 | 14,294   | 14,454 | 13,558    | 24,356  | 25,548        | 36,613 | 22,846 | 15,793 | 17,497 | 15,010 |
| MEAN        | 982           | 450    | 461      | 466    | 468       | 786     | 852           | 1,181  | 762    | 509    | 564    | 500    |
| MAX         | 1,180         | 550    | 569      | 564    | 564       | 958     | 1,140         | 1,380  | 1,260  | 523    | 740    | 562    |
| MIN         | 479           | 389    | 416      | 408    | 416       | 527     | 538           | 919    | 479    | 489    | 497    | 455    |
| AC-FT       | 60,380        | 26,800 | 28,350   | 28,570 | 26,890    | 48,310  | 50,670        | 72,620 | 45,320 | 31,330 | 34,710 | 29,770 |
| CAL YR 1971 | TOTAL 361,998 |        | MEAN 992 |        | MAX 3,000 | MIN 389 | AC-FT 718,000 |        |        |        |        |        |
| WTR YR 1972 | TOTAL 243,920 |        | MEAN 666 |        | MAX 1,380 | MIN 389 | AC-FT 483,800 |        |        |        |        |        |



## 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 miles upstream from Highland ditch, 100 ft downstream from Peavine Dam, and 3.2 miles northwest of Reno Post Office.

DRAINAGE AREA.--2.34 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,990 ft (from topographic map). June 17 to Oct. 9, 1963, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 0.064 cfs (46 acre-ft per year).

EXTREMES.--Current year: Maximum discharge (momentary flow only, no mean daily flow), 0.21 cfs Dec. 24 or 25 (gage height, 0.52 ft); no flow most of year.

Period of record: Maximum discharge, 32 cfs Mar. 16, 1967; no flow most of the time.

REMARKS.--Records excellent. Dam above station used for flood control.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV   | DEC        | JAN     | FEB   | MAR      | APR   | MAY | JUN   | JUL | AUG | SEP   |
|-------------|-------|-------|------------|---------|-------|----------|-------|-----|-------|-----|-----|-------|
| 1           |       |       |            |         |       |          |       |     |       |     |     |       |
| 2           |       |       |            |         |       |          |       |     |       |     |     |       |
| 3           |       |       |            |         |       |          |       |     |       |     |     |       |
| 4           |       |       |            |         |       |          |       |     |       |     |     |       |
| 5           |       |       |            |         |       |          |       |     |       |     |     |       |
| 6           |       |       |            |         |       |          |       |     |       |     |     |       |
| 7           |       |       |            |         |       |          |       |     |       |     |     |       |
| 8           |       |       |            |         |       |          |       |     |       |     |     |       |
| 9           |       |       |            |         |       |          |       |     |       |     |     |       |
| 10          |       |       |            |         |       |          |       |     |       |     |     |       |
| 11          |       |       |            |         |       |          |       |     |       |     |     |       |
| 12          |       |       |            |         |       |          |       |     |       |     |     |       |
| 13          |       |       |            |         |       |          |       |     |       |     |     |       |
| 14          |       |       |            |         |       |          |       |     |       |     |     |       |
| 15          |       |       |            |         |       |          |       |     |       |     |     |       |
| 16          |       |       |            |         |       |          |       |     |       |     |     |       |
| 17          |       |       |            |         |       |          |       |     |       |     |     |       |
| 18          |       |       |            |         |       |          |       |     |       |     |     |       |
| 19          |       |       |            |         |       |          |       |     |       |     |     |       |
| 20          |       |       |            |         |       |          |       |     |       |     |     |       |
| 21          |       |       |            |         |       |          |       |     |       |     |     |       |
| 22          |       |       |            |         |       |          |       |     |       |     |     |       |
| 23          |       |       |            |         |       |          |       |     |       |     |     |       |
| 24          |       |       |            |         |       |          |       |     |       |     |     |       |
| 25          |       |       |            |         |       |          |       |     |       |     |     |       |
| 26          |       |       |            |         |       |          |       |     |       |     |     |       |
| 27          |       |       |            |         |       |          |       |     |       |     |     |       |
| 28          |       |       |            |         |       |          |       |     |       |     |     |       |
| 29          |       |       |            |         |       |          |       |     |       |     |     |       |
| 30          |       |       |            |         |       |          |       |     |       |     |     |       |
| 31          |       | ----- |            |         | ----- |          | ----- |     | ----- |     |     | ----- |
| 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 1971 | TOTAL | 16.15 | MEAN .044  | MAX 3.0 | MIN 0 | AC-FT 32 |       |     |       |     |     |       |
| WTR YR 1972 | TOTAL | 0.00  | MEAN .0000 | MAX .00 | MIN 0 | AC-FT .0 |       |     |       |     |     |       |

## PYRAMID AND WINNEMUCCA LAKES BASIN

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10348000 Truckee River at Reno, Nev.

LOCATION.--Lat 39°31'55", long 119°47'05", in NW¼ sec.7, T.19 N., R.20 E., Washoe County, on left bank 400 ft downstream from Kietzke Lane bridge, 0.5 mile downstream from Scott Island, 1.5 miles east of Reno Post Office, and 5 miles upstream from Steamboat Creek.

DRAINAGE AREA.--1,067 sq mi.

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.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft above mean sea level (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mile upstream at different datum.

AVERAGE DISCHARGE.--46 years (1906-21, 1925-26, 1930-34, 1946-72), 676 cfs (489,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs May 19; maximum gage height, 5.01 ft Oct. 19; minimum discharge, 88 cfs July 14. Period of record: Maximum discharge, 20,800 cfs Dec. 23, 1955; maximum gage height, 13.83 ft Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

REMARKS.--Records 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.

REVISIONS.--WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| 1     | 1,050  | 272    | 331    | 386    | 420    | 573    | 540    | 758    | 942    | 143   | 181    | 204    |
| 2     | 941    | 233    | 328    | 386    | 355    | 576    | 515    | 828    | 888    | 138   | 180    | 202    |
| 3     | 904    | 218    | 327    | 380    | 420    | 754    | 510    | 985    | 882    | 141   | 189    | 191    |
| 4     | 986    | 206    | 330    | 367    | 548    | 933    | 539    | 511    | 868    | 124   | 196    | 224    |
| 5     | 980    | 185    | 330    | 406    | 516    | 875    | 694    | 958    | 826    | 127   | 169    | 238    |
| 6     | 830    | 180    | 339    | 426    | 519    | 826    | 1,070  | 1,000  | 757    | 123   | 181    | 229    |
| 7     | 940    | 181    | 320    | 521    | 518    | 911    | 1,170  | 1,050  | 775    | 127   | 167    | 251    |
| 8     | 951    | 166    | 307    | 584    | 433    | 909    | 1,090  | 1,010  | 784    | 139   | 164    | 232    |
| 9     | 839    | 165    | 326    | 574    | 458    | 957    | 1,050  | 963    | 762    | 135   | 164    | 207    |
| 10    | 878    | 170    | 317    | 537    | 353    | 1,010  | 561    | 881    | 688    | 141   | 212    | 156    |
| 11    | 869    | 218    | 317    | 520    | 403    | 1,030  | 835    | 880    | 576    | 150   | 194    | 209    |
| 12    | 775    | 417    | 317    | 515    | 398    | 982    | 836    | 871    | 516    | 150   | 196    | 260    |
| 13    | 864    | 380    | 315    | 405    | 393    | 935    | 743    | 889    | 473    | 153   | 199    | 241    |
| 14    | 847    | 370    | 332    | 390    | 405    | 950    | 631    | 959    | 457    | 157   | 330    | 219    |
| 15    | 811    | 353    | 342    | 390    | 429    | 919    | 643    | 1,040  | 395    | 156   | 470    | 209    |
| 16    | 861    | 301    | 488    | 385    | 431    | 884    | 678    | 1,060  | 325    | 158   | 445    | 207    |
| 17    | 877    | 227    | 422    | 390    | 430    | 898    | 701    | 574    | 266    | 153   | 480    | 196    |
| 18    | 884    | 286    | 365    | 450    | 436    | 905    | 724    | 929    | 247    | 158   | 495    | 196    |
| 19    | 928    | 334    | 351    | 455    | 444    | 877    | 700    | 1,160  | 237    | 164   | 470    | 215    |
| 20    | 820    | 329    | 348    | 460    | 461    | 852    | 672    | 1,050  | 161    | 165   | 460    | 221    |
| 21    | 704    | 337    | 352    | 460    | 488    | 877    | 636    | 973    | 142    | 179   | 327    | 215    |
| 22    | 700    | 343    | 460    | 460    | 531    | 933    | 544    | 838    | 147    | 175   | 251    | 235    |
| 23    | 866    | 338    | 456    | 505    | 505    | 858    | 561    | 736    | 146    | 172   | 244    | 241    |
| 24    | 1,020  | 343    | 413    | 450    | 490    | 810    | 623    | 657    | 167    | 173   | 229    | 241    |
| 25    | 1,100  | 335    | 435    | 450    | 502    | 834    | 716    | 673    | 160    | 176   | 229    | 244    |
| 26    | 1,090  | 332    | 423    | 435    | 461    | 810    | 663    | 572    | 146    | 163   | 204    | 247    |
| 27    | 854    | 458    | 433    | 435    | 452    | 750    | 657    | 646    | 197    | 168   | 204    | 334    |
| 28    | 193    | 417    | 427    | 450    | 483    | 673    | 702    | 702    | 190    | 184   | 215    | 301    |
| 29    | 162    | 403    | 408    | 425    | 619    | 651    | 764    | 750    | 183    | 201   | 209    | 247    |
| 30    | 192    | 362    | 401    | 400    | -----  | 607    | 762    | 769    | 147    | 206   | 238    | 224    |
| 31    | 286    | -----  | 389    | 415    | -----  | 580    | -----  | 753    | -----  | 217   | 218    | -----  |
| TOTAL | 24,991 | 3,859  | 11,449 | 13,822 | 13,381 | 25,939 | 21,930 | 27,315 | 13,450 | 4,916 | 8,110  | 6,875  |
| MEAN  | 803    | 296    | 369    | 446    | 461    | 837    | 731    | 881    | 448    | 159   | 262    | 229    |
| MAX   | 1,100  | 458    | 488    | 584    | 619    | 1,030  | 1,170  | 1,180  | 942    | 217   | 495    | 334    |
| MIN   | 162    | 165    | 307    | 367    | 393    | 573    | 510    | 572    | 142    | 123   | 164    | 191    |
| AC-FT | 49,370 | 17,590 | 22,710 | 27,420 | 26,540 | 51,450 | 43,500 | 54,180 | 26,680 | 9,750 | 16,090 | 13,640 |

CAL YR 1971 TOTAL 313,896 MEAN 860 MAX 2,750 MIN 162 AC-FT 622,600  
 WTR YR 1972 TOTAL 180,947 MEAN 494 MAX 1,180 MIN 123 AC-FT 358,900

## 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 north of Carson City.

DRAINAGE AREA.--83.8 sq mi (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, 5,029.2 ft Apr. 26; minimum observed, 5,025.8 ft Sept. 21.  
Period of record: Maximum elevation observed, 5,030.6 ft Feb. 12, 24, 1970; minimum observed, 5,023.5 ft 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 1971 to September 1972

|               |         |               |         |
|---------------|---------|---------------|---------|
| Sept. 21..... | 5,027.7 | Apr. 26.....  | 5,029.2 |
| Oct. 20.....  | 5,027.4 | May 24.....   | 5,028.9 |
| Nov. 26.....  | 5,027.4 | June 20.....  | 5,028.2 |
| Dec. 22.....  | 5,027.7 | Aug. 25.....  | 5,026.2 |
| Jan. 31.....  | 5,028.4 | Aug. 29.....  | 5,026.2 |
| Mar. 2.....   | 5,028.6 | Sept. 21..... | 5,025.8 |
| Apr. 13.....  | 5,029.0 |               |         |

\* Area table (elevation, in feet, and area, in acres)

|         |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|
| 5,017.5 | 0     | 5,022 | 2,840 | 5,027 | 5,360 |
| 5,018   | 320   | 5,023 | 3,060 | 5,028 | 5,550 |
| 5,019   | 800   | 5,024 | 3,280 | 5,029 | 5,710 |
| 5,020   | 1,650 | 5,025 | 4,650 | 5,030 | 5,830 |
| 5,021   | 2,360 | 5,026 | 5,110 | 5,031 | 5,930 |

\* Volume table (elevation, in feet and volume, in acre-feet)

|         |       |         |        |       |        |
|---------|-------|---------|--------|-------|--------|
| 5,017.5 | 0     | 5,022   | 5,200  | 5,027 | 23,000 |
| 5,018   | 60    | 5,023   | 8,400  | 5,028 | 27,000 |
| 5,019   | 600   | 5,024   | 12,000 | 5,029 | 30,000 |
| 5,020   | 1,700 | b 5,025 | 16,000 | 5,030 | 34,000 |
| 5,021   | 3,500 | 5,026   | 19,000 | 5,031 | 38,000 |

\* Includes Wildlife Management area.

b Stage at which Little Washoe Lake becomes isolated from Washoe Lake.

## 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 $\frac{1}{4}$ NW $\frac{1}{4}$  sec.24, T.17 N., R.19 E., Washoe County, at outlet (head of Steamboat Creek). 5.5 miles southwest of Steamboat.

DRAINAGE AREA.--83.8 sq mi.

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, 5,029.7 ft Feb. 23; minimum recorded, 5,023.2 ft Sept. 30.  
Period of record: Maximum elevation observed, 5,030.6 ft Feb. 12, 24, 1970; minimum observed, 5,021.9 ft 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 (elevation, in feet, and area, in acres)

|       |    |       |     |       |     |
|-------|----|-------|-----|-------|-----|
| 5,021 | 0  | 5,025 | 90  | 5,029 | 110 |
| 5,022 | 18 | 5,026 | 100 | 5,030 | 111 |
| 5,023 | 51 | 5,027 | 105 | 5,031 | 112 |
| 5,024 | 75 | 5,028 | 108 |       |     |

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

|       |    |       |     |       |     |
|-------|----|-------|-----|-------|-----|
| 5,021 | 0  | 5,025 | 110 | 5,029 | 520 |
| 5,022 | 7  | 5,026 | 180 | 5,030 | 710 |
| 5,023 | 32 | 5,027 | 260 | 5,031 | 950 |
| 5,024 | 62 | 5,028 | 370 |       |     |

## ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY  | OCT    | NOV   | DEC  | JAN  | FEB   | MAR  | APR   | MAY  | JUN    | JUL    | AUG  | SEP   |
|------|--------|-------|------|------|-------|------|-------|------|--------|--------|------|-------|
| 1    | 7.40   |       | 7.60 | 8.00 | 8.40  | 9.00 | 8.90  | 8.80 | 8.50   |        |      | 4.30  |
| 2    | 7.40   |       | 7.60 | 8.00 | 8.40  | 9.00 | 8.90  | 8.80 | 8.50   |        |      | 4.20  |
| 3    | 7.40   |       | 7.40 | 8.00 | 8.40  | 8.80 | 9.00  | 8.80 | 8.50   |        |      | 4.20  |
| 4    | 7.40   |       | 7.50 | 8.00 | 8.40  | 8.80 | 9.10  | 8.80 | 8.50   |        |      | 4.20  |
| 5    | 7.40   |       | 7.80 | 8.00 | 8.40  | 8.90 | 9.10  | 8.80 | 8.50   |        |      | 4.20  |
| 6    | 7.40   |       | 7.30 | 8.00 | 8.50  | 8.80 | 9.20  | 8.90 | 8.40   |        |      | 4.10  |
| 7    | 7.40   |       | 7.50 | 8.00 | 8.50  | 8.80 | 9.00  | 9.10 | 8.50   |        |      | 4.00  |
| 8    | 7.40   |       | 7.50 | 8.10 | 8.50  | 8.80 | 9.00  | 8.70 | 8.50   |        |      | 4.00  |
| 9    | 7.40   |       | 7.50 | 8.10 | 8.50  | 9.00 | 9.00  | 8.70 | 8.50   |        |      | 4.00  |
| 10   | 7.40   |       | 7.60 | 8.10 | 8.50  | 8.90 | 9.20  | 8.70 | 8.30   |        |      | 3.90  |
| 11   | 7.40   |       | 7.60 | 8.10 | 8.50  |      | 9.30  | 8.70 | 8.40   |        |      | 3.90  |
| 12   | 7.40   |       | 7.60 | 8.10 | 8.50  |      | 8.70  | 8.70 | 8.40   |        |      | 3.80  |
| 13   |        |       | 7.60 | 8.10 | 8.50  | 8.80 | 8.90  | 8.70 | 8.40   |        |      | 3.80  |
| 14   |        |       | 7.60 | 8.10 | 8.50  |      | 9.00  | 8.70 | 8.30   |        |      | 3.80  |
| 15   |        |       | 7.60 | 8.10 | 8.50  | 8.80 | 9.10  | 8.80 | 8.30   |        |      | 3.70  |
| 16   |        |       | 7.60 | 8.20 | 8.60  | 8.80 | 8.90  | 8.80 | 8.30   |        |      | 3.60  |
| 17   |        | 7.40  | 7.60 | 8.20 | 8.60  | 9.00 | 8.70  | 8.60 | 8.30   |        |      |       |
| 18   |        | 7.30  | 7.60 | 8.20 | 8.60  | 8.80 | 8.90  | 8.60 | 8.20   |        |      |       |
| 19   |        | 7.40  | 7.60 | 8.20 | 8.60  | 8.90 | 8.90  | 8.70 |        |        |      |       |
| 20   |        | 7.40  | 7.60 | 8.30 | 8.60  | 8.90 | 8.90  | 8.80 |        |        |      |       |
| 21   |        | 7.40  | 7.60 | 8.40 | 9.00  | 9.00 | 8.90  | 8.60 |        |        |      |       |
| 22   |        | 7.40  | 7.90 | 8.40 | 9.20  | 8.90 | 8.90  | 8.60 |        |        |      |       |
| 23   |        | 7.50  | 7.80 | 8.40 | 9.70  | 8.90 | 9.40  | 8.70 |        |        |      |       |
| 24   |        | 7.60  | 7.80 | 8.40 | 8.90  | 9.50 | 8.90  | 8.60 |        |        |      |       |
| 25   |        | 7.50  | 7.90 | 8.40 | 8.80  | 8.80 | 8.90  | 8.60 |        |        | 4.60 |       |
| 26   |        | 8.10  | 7.90 | 8.40 | 8.60  | 8.80 | 8.90  | 8.60 |        |        |      | 3.20  |
| 27   |        | 7.80  | 7.90 | 8.40 | 8.70  | 8.90 | 9.10  | 8.60 |        |        |      | 3.20  |
| 28   |        | 7.80  | 8.00 | 8.40 | 9.00  | 8.90 | 8.80  | 8.60 |        |        | 4.40 | 3.20  |
| 29   |        | 7.40  | 8.00 | 8.40 | 8.70  | 8.90 | 8.80  | 8.60 |        |        | 4.40 | 3.20  |
| 30   |        | 7.50  | 8.00 | 8.40 | ----- | 8.90 | 8.80  | 8.60 | g 7.60 |        | 4.40 | 3.20  |
| 31   | g 7.40 | ----- | 8.00 | 8.40 | ----- | 8.90 | ----- | 8.60 | -----  | g 6.00 | 4.30 | ----- |
| MEAN |        |       | 7.68 | 8.20 | 8.64  |      | 8.97  | 8.71 |        |        |      |       |
| MAX  |        |       | 8.00 | 8.40 | 9.70  |      | 9.40  | 9.10 |        |        |      |       |
| MIN  |        |       | 7.30 | 8.00 | 8.40  |      | 8.70  | 8.60 |        |        |      |       |

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 SW¼SW¼ sec.2, T.17 N., R.19 E., Washoe County, on right bank 1 mile upstream from Jones Creek, 3.5 miles upstream from mouth, 4.5 miles west-southwest of Steamboat, and 12 miles south of Reno.

DRAINAGE AREA.--8.5 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft higher.

AVERAGE DISCHARGE.--11 years, 9.52 cfs (6,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 99 cfs June 7 (gage height, 3.14 ft); maximum gage height, 3.27 ft Jan. 27 (backwater from ice); no flow Dec. 9, 16-20.

Period of record: Maximum discharge, 3,670 cfs 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 fair. 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 8.0   | 7.3   | 2.0   | 1.0   | .80   | .80   | .90    | 9.6   | 36    | 12    | 5.8   | 5.1   |
| 2     | 8.0   | 7.3   | 1.3   | 1.0   | .70   | 1.0   | 1.0    | 11    | 38    | 12    | 5.8   | 5.1   |
| 3     | 8.0   | 7.3   | .20   | 1.1   | .70   | 1.3   | 1.1    | 12    | 49    | 11    | 5.8   | 4.8   |
| 4     | 8.0   | 7.5   | .20   | 1.1   | .70   | 1.1   | 1.3    | 19    | 42    | 10    | 5.4   | 5.4   |
| 5     | 8.0   | 8.0   | .90   | 1.1   | .70   | 1.0   | 1.5    | 17    | 40    | 9.6   | 5.4   | 6.2   |
| 6     | 8.0   | 8.0   | 2.0   | 1.1   | .70   | .90   | 1.2    | 16    | 44    | 10    | 5.4   | 5.4   |
| 7     | 8.0   | 8.5   | .20   | 1.1   | .70   | .90   | 1.0    | 13    | 59    | 9.6   | 5.4   | 4.8   |
| 8     | 8.0   | 8.0   | .50   | 1.1   | .70   | .90   | 1.0    | 12    | 55    | 10    | 5.4   | 4.8   |
| 9     | 8.0   | 8.0   | 0     | 1.1   | .70   | .90   | 1.0    | 12    | 51    | 9.6   | 5.4   | 4.5   |
| 10    | 8.0   | 8.0   | .30   | 1.1   | .70   | .80   | .90    | 12    | 24    | 9.0   | 5.4   | 4.5   |
| 11    | 8.0   | 12    | .80   | .90   | .70   | .80   | 1.0    | 15    | 21    | 9.6   | 5.4   | 4.8   |
| 12    | 8.0   | 10    | 1.3   | .90   | .70   | .90   | 1.1    | 19    | 20    | 9.0   | 5.1   | 4.8   |
| 13    | 8.0   | 9.0   | .90   | .90   | .70   | .90   | .40    | 21    | 20    | 9.0   | 5.1   | 5.1   |
| 14    | 7.0   | 7.0   | .60   | .90   | .70   | .90   | .50    | 20    | 19    | 8.5   | 5.1   | 4.5   |
| 15    | 6.0   | 7.0   | .70   | .90   | .60   | .90   | 1.0    | 20    | 19    | 8.0   | 5.1   | 4.5   |
| 16    | 7.0   | 7.0   | 0     | .90   | .70   | .90   | 2.6    | 22    | 19    | 8.0   | 5.1   | 4.2   |
| 17    | 9.0   | 6.0   | 0     | .90   | .70   | 1.2   | 5.1    | 21    | 18    | 8.0   | 5.8   | 4.2   |
| 18    | 15    | 4.0   | 0     | .90   | .70   | 1.6   | 4.8    | 20    | 18    | 7.5   | 6.2   | 4.2   |
| 19    | 10    | 3.3   | 0     | .90   | .70   | 1.5   | 5.0    | 19    | 18    | 7.5   | 5.8   | 4.2   |
| 20    | 8.0   | 3.3   | 0     | .90   | .80   | 1.6   | 5.0    | 17    | 18    | 7.5   | 5.8   | 4.2   |
| 21    | 8.0   | 3.3   | 1.6   | 1.0   | .80   | 2.0   | 5.4    | 15    | 19    | 8.0   | 5.4   | 4.2   |
| 22    | 8.0   | 2.9   | 1.4   | 1.0   | .80   | 1.6   | 6.2    | 16    | 19    | 7.0   | 5.1   | 4.2   |
| 23    | 8.0   | 2.9   | 1.2   | .90   | .70   | 1.2   | 7.5    | 15    | 17    | 6.6   | 5.1   | 4.2   |
| 24    | 8.5   | 2.6   | 1.2   | 1.0   | .60   | 1.1   | 7.5    | 18    | 16    | 6.2   | 5.1   | 4.2   |
| 25    | 7.5   | 2.4   | 1.1   | 1.0   | .70   | 1.2   | 7.0    | 19    | 15    | 6.2   | 5.1   | 4.2   |
| 26    | 7.5   | 2.0   | 1.0   | .80   | .70   | .50   | 8.0    | 19    | 15    | 6.2   | 5.1   | 7.5   |
| 27    | 7.5   | 2.2   | 1.0   | .80   | .90   | .50   | 9.6    | 22    | 15    | 6.2   | 4.8   | 9.0   |
| 28    | 7.3   | 2.2   | 1.0   | .80   | 1.0   | .40   | 10     | 23    | 14    | 5.8   | 4.8   | 5.4   |
| 29    | 7.0   | 2.6   | 1.0   | .60   | 1.0   | .90   | 9.6    | 29    | 13    | 5.8   | 5.4   | 5.1   |
| 30    | 7.2   | 2.4   | 1.0   | .60   | ----- | .40   | 9.6    | 26    | 12    | 6.2   | 5.8   | 4.8   |
| 31    | 7.3   | ----- | 1.0   | .90   | ----- | .90   | -----  | 31    | ----- | 6.2   | 5.1   | ----- |
| TOTAL | 249.8 | 172.0 | 24.40 | 29.20 | 21.30 | 31.50 | 117.80 | 560.6 | 783   | 255.8 | 166.5 | 148.1 |
| MEAN  | 8.06  | 5.73  | .79   | .94   | .73   | 1.02  | 3.93   | 18.1  | 26.1  | 8.25  | 5.37  | 4.94  |
| MAX   | 15    | 12    | 2.0   | 1.1   | 1.0   | 2.0   | 10     | 31    | 59    | 12    | 6.2   | 9.0   |
| MIN   | 6.0   | 2.0   | 0     | .60   | .60   | .40   | .40    | 9.6   | 12    | 5.8   | 4.8   | 4.2   |
| AC-FT | 495   | 341   | 48    | 58    | 42    | 62    | 234    | 1,110 | 1,550 | 507   | 330   | 294   |

CAL YR 1971 TOTAL 3,050.20 MEAN 8.36 MAX 49 MIN 0 AC-FT 6,050  
WTR YR 1972 TOTAL 2,560.00 MEAN 6.99 MAX 59 MIN 0 AC-FT 5,080

## PEAK DISCHARGE (BASE, 20 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 5-4  | 2015 | 2.72  | 26        | 6-2  | 2300 | 2.98  | 61        |
| 5-18 | 2100 | 2.73  | 25        | 6-7  | 1715 | 3.14  | 99        |



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LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, on left bank 250 ft upstream from Steamboat ditch, 0.2 mile southwest of Steamboat Post Office, and 11 miles southeast of Reno.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 16.3 cfs (11,810 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 68 cfs Dec. 22 (gage height, 1.93 ft); minimum daily, 2.8 cfs June 30, Sept. 20.

Period of record: Maximum discharge, 1,000 cfs Jan. 31, 1963 (gage height, 5.44 ft), from rating curve extended above 360 cfs by logarithmic plotting; minimum daily, 0.50 cfs Aug. 21, 28, 31, 1964.

REMARKS.--Records excellent. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake.

| DAY         | JCT   | NOV     | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1           | 18    | 10      | 5.0   | 4.8   | 4.4   | 4.9   | 3.9   | 3.6   | 14    | 3.9    | 13    | 4.6   |
| 2           | 18    | 10      | 4.9   | 4.8   | 4.5   | 5.2   | 3.8   | 3.6   | 13    | 7.5    | 13    | 4.4   |
| 3           | 18    | 10      | 4.8   | 4.7   | 4.4   | 5.9   | 3.7   | 4.0   | 14    | 6.2    | 13    | 4.1   |
| 4           | 17    | 9.9     | 4.9   | 4.7   | 4.5   | 5.1   | 4.0   | 4.0   | 13    | 6.2    | 15    | 4.3   |
| 5           | 18    | 9.9     | 5.0   | 4.7   | 4.6   | 4.7   | 6.5   | 3.5   | 12    | 7.1    | 15    | 4.9   |
| 6           | 17    | 9.8     | 4.9   | 4.7   | 5.2   | 4.5   | 6.5   | 3.5   | 14    | 12     | 15    | 4.7   |
| 7           | 17    | 9.5     | 4.5   | 4.7   | 5.1   | 4.4   | 5.9   | 3.4   | 21    | 12     | 16    | 4.5   |
| 8           | 18    | 9.4     | 4.7   | 4.7   | 4.7   | 4.4   | 7.9   | 3.8   | 18    | 13     | 16    | 4.3   |
| 9           | 17    | 9.0     | 6.1   | 4.8   | 4.5   | 4.4   | 5.4   | 3.3   | 18    | 14     | 17    | 3.9   |
| 10          | 15    | 9.0     | 5.6   | 4.8   | 4.5   | 4.8   | 4.2   | 3.5   | 16    | 14     | 15    | 3.5   |
| 11          | 15    | 13      | 5.5   | 4.9   | 4.6   | 4.6   | 5.9   | 3.4   | 12    | 13     | 16    | 3.7   |
| 12          | 15    | 12      | 5.5   | 5.0   | 4.7   | 4.1   | 12    | 4.2   | 12    | 12     | 14    | 4.2   |
| 13          | 17    | 11      | 5.3   | 5.3   | 4.7   | 4.0   | 7.3   | 5.9   | 10    | 12     | 16    | 4.6   |
| 14          | 17    | 10      | 5.5   | 5.2   | 4.6   | 3.9   | 4.3   | 6.5   | 9.0   | 14     | 14    | 4.4   |
| 15          | 18    | 10      | 5.5   | 4.8   | 4.5   | 3.8   | 3.9   | 7.2   | 7.7   | 14     | 15    | 4.5   |
| 16          | 21    | 9.2     | 5.3   | 4.6   | 4.4   | 3.7   | 4.5   | 7.5   | 6.6   | 12     | 14    | 4.7   |
| 17          | 23    | 7.1     | 5.6   | 4.6   | 4.3   | 4.1   | 5.8   | 8.1   | 6.3   | 13     | 15    | 4.8   |
| 18          | 23    | 8.8     | 5.7   | 7.4   | 4.3   | 4.9   | 4.2   | 8.6   | 7.0   | 13     | 15    | 4.4   |
| 19          | 22    | 7.8     | 5.6   | 11    | 4.3   | 4.2   | 4.1   | 32    | 6.1   | 13     | 13    | 3.3   |
| 20          | 23    | 8.3     | 5.5   | 10    | 4.3   | 4.1   | 3.8   | 14    | 6.8   | 13     | 12    | 2.8   |
| 21          | 12    | 8.0     | 5.6   | 7.9   | 4.3   | 4.5   | 3.9   | 9.9   | 6.4   | 12     | 8.9   | 3.7   |
| 22          | 10    | 5.9     | 27    | 7.4   | 6.9   | 5.8   | 3.9   | 12    | 6.3   | 12     | 7.3   | 4.3   |
| 23          | 8.9   | 5.4     | 8.1   | 7.3   | 7.9   | 5.5   | 3.9   | 11    | 4.9   | 13     | 6.4   | 4.3   |
| 24          | 11    | 5.0     | 7.2   | 5.3   | 17    | 5.1   | 3.5   | 9.0   | 5.1   | 13     | 5.0   | 3.8   |
| 25          | 13    | 4.8     | 6.0   | 6.0   | 7.1   | 14    | 3.1   | 8.3   | 5.4   | 13     | 4.7   | 3.3   |
| 26          | 9.6   | 4.9     | 5.3   | 6.3   | 4.4   | 5.9   | 3.2   | 10    | 4.6   | 13     | 4.3   | 4.8   |
| 27          | 9.4   | 4.9     | 5.0   | 5.9   | 4.4   | 4.3   | 3.3   | 11    | 3.7   | 14     | 3.3   | 7.0   |
| 28          | 9.4   | 4.9     | 4.9   | 5.8   | 5.5   | 4.0   | 3.8   | 11    | 3.2   | 15     | 3.3   | 5.2   |
| 29          | 9.1   | 4.9     | 4.8   | 5.0   | 9.5   | 4.1   | 4.5   | 12    | 3.0   | 14     | 3.8   | 4.9   |
| 30          | 11    | 5.1     | 4.8   | 4.4   | ----- | 3.9   | 3.4   | 12    | 2.8   | 15     | 4.1   | 4.5   |
| 31          | 11    | -----   | 4.8   | 4.9   | ----- | 3.8   | ----- | 14    | ----- | 14     | 4.5   | ----- |
| TOTAL       | 478.4 | 247.5   | 188.9 | 176.4 | 158.1 | 150.6 | 144.1 | 253.8 | 281.9 | 372.9  | 347.6 | 130.4 |
| MEAN        | 15.4  | 8.25    | 6.09  | 5.69  | 5.45  | 4.86  | 4.80  | 8.19  | 9.40  | 12.0   | 11.2  | 4.35  |
| MAX         | 23    | 13      | 27    | 11    | 17    | 14    | 12    | 32    | 21    | 15     | 17    | 7.0   |
| MIN         | 8.9   | 4.8     | 4.5   | 4.4   | 4.3   | 3.7   | 3.1   | 3.3   | 2.8   | 3.9    | 3.3   | 2.8   |
| AC-FT       | 949   | 491     | 375   | 350   | 314   | 299   | 286   | 503   | 559   | 740    | 689   | 259   |
| CAL YR 1971 | TOTAL | 6,979.4 | MEAN  | 19.1  | MAX   | 65    | MIN   | 4.4   | AC-FT | 13,840 |       |       |
| WTR YR 1972 | TOTAL | 2,930.6 | MEAN  | 8.01  | MAX   | 32    | MIN   | 2.8   | AC-FT | 5,810  |       |       |



## PYRAMID AND WINNEMUCCA LAKES BASIN

149

10350400 Truckee River below Tracy, Nev.

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼ sec.33, T.20 N., R.22 E., Washoe County, on left bank on upstream side of bridge, 200 ft downstream from Tracy powerplant, and 13 miles east of Sparks.

DRAINAGE AREA.--1,590 sq mi.

PERIOD OF RECORD.--May 1972 to Sept. 30, 1972.

GAGE.--Water-stage recorder. Altitude of gage is 4,250 ft (from topographic map).

EXTREMES.--Maximum discharge during period, May to September 1972, 1,720 cfs May 19 (gage height, 6.93 ft); minimum, 168 cfs July 13.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation.

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|-----|-------|-----|-----|-------|-----|-------|--------|--------|--------|--------|--------|
| 1     |     |       |     |     |       |     |       | 900    | 1,090  | 270    | 267    | 324    |
| 2     |     |       |     |     |       |     |       | 920    | 1,050  | 255    | 262    | 339    |
| 3     |     |       |     |     |       |     |       | 950    | 1,060  | 262    | 257    | 320    |
| 4     |     |       |     |     |       |     |       | 998    | 1,050  | 237    | 264    | 358    |
| 5     |     |       |     |     |       |     |       | 1,050  | 1,030  | 228    | 238    | 404    |
| 6     |     |       |     |     |       |     |       | 1,090  | 945    | 215    | 251    | 354    |
| 7     |     |       |     |     |       |     |       | 1,140  | 977    | 230    | 243    | 402    |
| 8     |     |       |     |     |       |     |       | 1,150  | 1,050  | 247    | 241    | 384    |
| 9     |     |       |     |     |       |     |       | 1,110  | 1,020  | 248    | 254    | 362    |
| 10    |     |       |     |     |       |     |       | 1,010  | 913    | 217    | 273    | 367    |
| 11    |     |       |     |     |       |     |       | 1,020  | 823    | 250    | 278    | 311    |
| 12    |     |       |     |     |       |     |       | 1,050  | 717    | 244    | 247    | 372    |
| 13    |     |       |     |     |       |     |       | 1,070  | 656    | 245    | 252    | 387    |
| 14    |     |       |     |     |       |     |       | 1,160  | 611    | 272    | 380    | 381    |
| 15    |     |       |     |     |       |     |       | 1,220  | 552    | 227    | 501    | 359    |
| 16    |     |       |     |     |       |     |       | 1,240  | 494    | 245    | 516    | 333    |
| 17    |     |       |     |     |       |     |       | 1,170  | 441    | 239    | 540    | 329    |
| 18    |     |       |     |     |       |     |       | 1,120  | 395    | 243    | 614    | 315    |
| 19    |     |       |     |     |       |     |       | 1,450  | 400    | 247    | 558    | 327    |
| 20    |     |       |     |     |       |     |       | 1,530  | 331    | 243    | 591    | 343    |
| 21    |     |       |     |     |       |     |       | 1,330  | 275    | 272    | 546    | 350    |
| 22    |     |       |     |     |       |     |       | 1,160  | 237    | 281    | 402    | 363    |
| 23    |     |       |     |     |       |     |       | 1,040  | 227    | 265    | 384    | 394    |
| 24    |     |       |     |     |       |     |       | 934    | 235    | 277    | 354    | 386    |
| 25    |     |       |     |     |       |     |       | 918    | 244    | 285    | 363    | 371    |
| 26    |     |       |     |     |       |     |       | 800    | 257    | 260    | 334    | 397    |
| 27    |     |       |     |     |       |     |       | 828    | 237    | 254    | 349    | 475    |
| 28    |     |       |     |     |       |     |       | 886    | 324    | 257    | 323    | 494    |
| 29    |     |       |     |     |       |     |       | 926    | 275    | 289    | 304    | 418    |
| 30    |     |       |     |     | ----- |     |       | 918    | 280    | 277    | 323    | 411    |
| 31    |     | ----- |     |     | ----- |     | ----- | 856    | -----  | 317    | 327    | -----  |
| TOTAL |     |       |     |     |       |     |       | 32,944 | 18,196 | 7,898  | 11,036 | 11,170 |
| MEAN  |     |       |     |     |       |     |       | 1,063  | 607    | 255    | 356    | 372    |
| MAX   |     |       |     |     |       |     |       | 1,530  | 1,090  | 317    | 614    | 494    |
| MIN   |     |       |     |     |       |     |       | 800    | 227    | 215    | 238    | 311    |
| ΔC-FT |     |       |     |     |       |     |       | 65,340 | 36,090 | 15,670 | 21,890 | 22,160 |

## 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 miles southwest of Wadsworth.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (from topographic map). Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mile downstream from base gage.

AVERAGE DISCHARGE.--6 years, 308 cfs (223,100 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 955 cfs June 10, 1970; no flow at times during some years.

REMARKS.--Records fair except those for period Dec. 14 to Feb. 29, 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 1971 TO SEPTEMBER 1972

| DAY         | OCT    | NOV        | DEC    | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL     | AUG    | SEP    |
|-------------|--------|------------|--------|-------|-------|--------|--------|--------|--------|---------|--------|--------|
| 1           | 265    | 346        | 498    | 55    | 18    | 56     | 75     | 603    | 895    | 220     | 235    | 244    |
| 2           | 333    | 336        | 480    | 55    | 18    | 121    | 92     | 628    | 899    | 213     | 188    | 204    |
| 3           | 465    | 332        | 487    | 55    | 18    | 233    | 195    | 662    | 914    | 213     | 200    | 274    |
| 4           | 558    | 327        | 496    | 55    | 18    | 253    | 410    | 712    | 918    | 222     | 201    | 295    |
| 5           | 561    | 321        | 485    | 55    | 18    | 248    | 519    | 753    | 934    | 189     | 206    | 329    |
| 6           | 537    | 319        | 481    | 55    | 18    | 244    | 591    | 803    | 905    | 178     | 184    | 361    |
| 7           | 401    | 317        | 483    | 55    | 18    | 251    | 814    | 849    | 902    | 184     | 188    | 341    |
| 8           | 407    | 318        | 464    | 55    | 18    | 243    | 910    | 883    | 913    | 203     | 176    | 359    |
| 9           | 369    | 318        | 462    | 55    | 18    | 243    | 908    | 864    | 913    | 208     | 197    | 348    |
| 10          | 383    | 444        | 481    | 55    | 18    | 247    | 868    | 814    | 816    | 198     | 195    | 317    |
| 11          | 394    | 467        | 472    | 55    | 18    | 252    | 730    | 828    | 585    | 174     | 244    | 302    |
| 12          | 394    | 512        | 474    | 55    | 18    | 246    | 727    | 844    | 574    | 228     | 193    | 305    |
| 13          | 396    | 532        | 360    | 55    | 18    | 242    | 692    | 861    | 604    | 196     | 205    | 364    |
| 14          | 409    | 537        | 55     | 55    | 18    | 248    | 627    | 893    | 580    | 197     | 232    | 359    |
| 15          | 404    | 522        | 55     | 55    | 18    | 250    | 560    | 932    | 536    | 208     | 226    | 346    |
| 16          | 394    | 517        | 55     | 35    | 18    | 242    | 591    | 938    | 456    | 183     | 232    | 315    |
| 17          | 426    | 480        | 55     | 35    | 18    | 240    | 633    | 930    | 385    | 203     | 226    | 295    |
| 18          | 422    | 459        | 55     | 35    | 18    | 237    | 643    | 907    | 322    | 194     | 243    | 294    |
| 19          | 421    | 498        | 55     | 35    | 18    | 239    | 632    | 784    | 321    | 194     | 230    | 287    |
| 20          | 410    | 510        | 55     | 35    | 18    | 238    | 582    | 638    | 302    | 191     | 230    | 306    |
| 21          | 391    | 508        | 55     | 18    | 18    | 236    | 558    | 867    | 217    | 206     | 227    | 325    |
| 22          | 397    | 507        | 55     | 18    | 18    | 296    | 464    | 911    | 188    | 232     | 215    | 330    |
| 23          | 406    | 507        | 55     | 18    | 18    | 286    | 437    | 927    | 155    | 223     | 222    | 359    |
| 24          | 432    | 493        | 55     | 18    | 18    | 146    | 485    | 876    | 179    | 223     | 212    | 369    |
| 25          | 448    | 507        | 55     | 18    | 18    | 109    | 517    | 844    | 186    | 227     | 223    | 356    |
| 26          | 444    | 495        | 55     | 18    | 18    | 118    | 453    | 792    | 205    | 219     | 258    | 358    |
| 27          | 444    | 505        | 55     | 18    | 18    | 112    | 424    | 735    | 194    | 189     | 257    | 404    |
| 28          | 312    | 528        | 55     | 18    | 0     | 94     | 450    | 786    | 238    | 196     | 260    | 495    |
| 29          | 333    | 512        | 55     | 18    | 0     | 75     | 550    | 805    | 235    | 207     | 251    | 453    |
| 30          | 335    | 506        | 55     | 18    | ----- | 75     | 590    | 822    | 233    | 221     | 243    | 382    |
| 31          | 356    | -----      | 55     | 18    | ----- | 67     | -----  | 828    | -----  | 239     | 273    | -----  |
| TOTAL       | 12,672 | 13,481     | 7,113  | 1,198 | 486   | 6,187  | 16,732 | 25,319 | 15,704 | 6,378   | 6,872  | 10,076 |
| MEAN        | 409    | 449        | 229    | 38.6  | 16.8  | 200    | 558    | 817    | 523    | 206     | 222    | 336    |
| MAX         | 561    | 537        | 498    | 55    | 18    | 296    | 910    | 938    | 934    | 239     | 273    | 495    |
| MIN         | 265    | 317        | 55     | 18    | 0     | 56     | 75     | 603    | 155    | 174     | 176    | 204    |
| AC-FT       | 25,130 | 26,740     | 14,110 | 2,380 | 964   | 12,270 | 33,190 | 50,220 | 31,150 | 12,650  | 13,630 | 19,990 |
| CAL YR 1971 | TOTAL  | 116,348.00 | MEAN   | 319   | MAX   | 872    | MIN    | 0      | AC-FT  | 230,800 |        |        |
| WTR YR 1972 | TOTAL  | 122,218.00 | MEAN   | 334   | MAX   | 938    | MIN    | 0      | AC-FT  | 242,400 |        |        |

## 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 SW¼NW¼ sec.17, T.20 N., R.25 E., Lyon County, on right bank 2.6 miles east of Fernley.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,115 ft (from topographic map). Prior to Aug. 13, 1971, water-stage recorder at site 60 ft upstream at datum 2.64 ft higher.

EXTREMES.--Period of record: Maximum daily discharge, about 60 cfs July 21, 1971; minimum daily, 0.60 cfs Mar. 21-24, 1970.

REMARKS.--Records fair. Flow in canal is returnflow from lands irrigated by Truckee Canal and discharges to Fernley State Wildlife Management Area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 13    | 3.7      | 2.4  | 1.6  | 1.6   | 1.0   | 1.4   | 12    | 8.7   | 11    | 10    | 17    |
| 2           | 11    | 3.6      | 2.4  | 1.6  | 1.1   | .91   | 4.3   | 13    | 13    | 11    | 15    | 12    |
| 3           | 6.6   | 3.5      | 2.3  | 1.6  | 1.7   | .91   | 1.5   | 9.2   | 12    | 13    | 18    | 8.2   |
| 4           | 6.3   | 3.4      | 2.3  | 1.3  | 1.7   | .91   | 1.2   | 8.9   | 10    | 10    | 19    | 5.9   |
| 5           | 7.0   | 3.4      | 2.3  | 1.4  | 1.6   | .91   | 1.2   | 9.0   | 9.7   | 11    | 17    | 6.5   |
| 6           | 10    | 3.3      | 2.2  | 1.4  | 1.6   | .87   | 1.2   | 4.6   | 4.6   | 13    | 16    | 5.7   |
| 7           | 14    | 3.3      | 2.2  | 1.4  | 1.7   | .87   | 1.4   | 10    | 6.2   | 15    | 14    | 4.6   |
| 8           | 14    | 3.2      | 2.2  | 1.5  | 1.6   | .87   | 2.9   | 5.6   | 3.5   | 19    | 18    | 4.0   |
| 9           | 18    | 3.2      | 2.1  | 1.5  | 1.5   | .87   | 3.0   | 5.1   | 2.9   | 20    | 12    | 3.9   |
| 10          | 14    | 3.1      | 2.0  | 1.7  | 1.4   | .87   | 1.8   | 5.0   | 2.8   | 15    | 7.9   | 4.0   |
| 11          | 16    | 3.1      | 2.0  | 1.6  | 1.4   | .87   | 3.6   | 8.6   | 2.8   | 18    | 5.1   | 3.8   |
| 12          | 14    | 3.0      | 2.0  | 1.6  | 1.4   | .91   | 7.0   | 16    | 3.5   | 12    | 10    | 5.9   |
| 13          | 13    | 3.0      | 1.9  | 1.5  | 1.3   | .91   | 3.7   | 11    | 4.6   | 5.9   | 14    | 12    |
| 14          | 14    | 2.9      | 1.9  | 1.4  | 1.3   | .91   | 3.0   | 14    | 3.4   | 4.8   | 9.4   | 11    |
| 15          | 6.8   | 2.8      | 1.9  | 1.4  | 1.3   | .91   | 2.3   | 9.8   | 3.6   | 4.7   | 9.9   | 4.8   |
| 16          | 5.9   | 2.8      | 1.8  | 1.4  | 1.3   | .96   | 2.4   | 5.2   | 4.0   | 7.1   | 8.3   | 5.0   |
| 17          | 5.0   | 2.8      | 1.8  | 1.4  | 1.2   | 1.5   | 2.0   | 4.8   | 10    | 10    | 11    | 10    |
| 18          | 4.8   | 2.8      | 1.8  | 1.5  | 1.3   | 1.0   | 2.8   | 6.1   | 7.4   | 12    | 12    | 8.8   |
| 19          | 4.6   | 2.8      | 1.8  | 1.7  | 1.2   | .87   | 4.8   | 4.1   | 6.6   | 15    | 8.3   | 5.0   |
| 20          | 4.5   | 2.8      | 1.8  | 1.9  | 1.2   | .87   | 3.7   | 3.6   | 14    | 14    | 6.9   | 10    |
| 21          | 6.3   | 2.8      | 1.8  | 2.0  | 1.2   | 1.6   | 3.0   | 3.4   | 17    | 13    | 6.5   | 17    |
| 22          | 7.8   | 2.7      | 2.1  | 2.2  | 1.1   | 1.9   | 3.4   | 3.3   | 14    | 11    | 12    | 15    |
| 23          | 7.2   | 2.6      | 1.9  | 2.0  | 1.2   | 3.2   | 5.1   | 3.1   | 12    | 10    | 20    | 15    |
| 24          | 5.5   | 2.5      | 1.9  | 1.8  | 1.2   | 1.9   | 4.7   | 3.3   | 13    | 5.0   | 18    | 17    |
| 25          | 4.5   | 2.5      | 1.9  | 1.8  | 1.2   | 1.5   | 6.4   | 5.1   | 10    | 6.5   | 11    | 14    |
| 26          | 4.3   | 2.5      | 1.8  | 1.7  | 1.1   | 1.7   | 3.2   | 13    | 7.5   | 10    | 12    | 14    |
| 27          | 4.2   | 2.5      | 1.8  | 1.6  | 1.1   | 1.1   | 3.6   | 14    | 11    | 8.0   | 18    | 11    |
| 28          | 4.1   | 2.5      | 1.7  | 1.7  | 1.0   | .96   | 3.2   | 26    | 9.2   | 7.5   | 16    | 5.9   |
| 29          | 4.0   | 2.5      | 1.6  | 1.7  | 1.0   | .96   | 11    | 23    | 11    | 13    | 13    | 5.0   |
| 30          | 3.9   | 2.4      | 1.6  | 1.7  | ----- | .96   | 13    | 21    | 8.5   | 18    | 12    | 4.4   |
| 31          | 3.8   | -----    | 1.6  | 1.7  | ----- | 1.0   | ----- | 14    | ----- | 15    | 19    | ----- |
| TOTAL       | 258.1 | 88.0     | 60.8 | 50.3 | 38.5  | 35.48 | 111.8 | 294.8 | 246.5 | 358.5 | 399.3 | 266.4 |
| MEAN        | 8.33  | 2.93     | 1.96 | 1.62 | 1.33  | 1.14  | 3.73  | 9.51  | 8.22  | 11.6  | 12.9  | 8.88  |
| MAX         | 18    | 3.7      | 2.4  | 2.2  | 1.7   | 3.2   | 13    | 26    | 17    | 20    | 20    | 17    |
| MIN         | 3.8   | 2.4      | 1.6  | 1.3  | 1.0   | .87   | 1.2   | 3.1   | 2.8   | 4.7   | 5.1   | 3.8   |
| AC-FT       | 512   | 175      | 121  | 100  | 76    | 70    | 222   | 585   | 489   | 711   | 792   | 528   |
| CAL YR 1971 | TOTAL | 2,708.51 | MEAN | 7.42 | MAX   | 60    | MIN   | .90   | AC-FT | 5,370 |       |       |
| WTR YR 1972 | TOTAL | 2,208.48 | MEAN | 6.03 | MAX   | 26    | MIN   | .87   | AC-FT | 4,380 |       |       |



## PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 Truckee Canal near Hazen, Nev.

LOCATION.--Lat 39°32'15", long 119°04'15", in NE¼SW¼ sec.4, T.19 N., R.26 E., Churchill County, on left bank 0.1 mile downstream from Hazen check dam and 2.3 miles southwest of Hazen.

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

GAGE.--Water-stage recorder. Datum of gage is 4,172.10 ft above mean sea level (Bureau of Reclamation datum). Since Mar. 17, 1972, auxiliary water-stage recorder 20 ft upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 miles downstream from base gage.

AVERAGE DISCHARGE.--6 years, 229 cfs (165,900 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 916 cfs Feb. 3, 1967; no flow at times.

REMARKS.--Records poor until Apr. 26, fair thereafter. Flow regulated by Derby Dam, diversions, and wasteways between Derby Dam and station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT    | NOV       | DEC    | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL     | AUG   | SEP    |
|-------------|--------|-----------|--------|-------|-------|--------|--------|--------|--------|---------|-------|--------|
| 1           | 210    | 305       | 431    | 50    | 2.6   | 15     | 35     | 458    | 625    | 56      | 134   | 119    |
| 2           | 264    | 303       | 422    | 50    | 2.6   | 32     | 47     | 471    | 655    | 57      | 59    | 90     |
| 3           | 386    | 297       | 408    | 50    | 2.6   | 159    | 124    | 481    | 688    | 83      | 25    | 179    |
| 4           | 430    | 292       | 420    | 50    | 2.6   | 217    | 335    | 559    | 639    | 94      | 24    | 201    |
| 5           | 496    | 287       | 429    | 50    | 2.6   | 217    | 480    | 555    | 721    | 36      | 30    | 250    |
| 6           | 469    | 278       | 430    | 50    | 2.6   | 210    | 549    | 585    | 760    | 26      | 31    | 275    |
| 7           | 394    | 275       | 434    | 50    | 2.6   | 207    | 666    | 621    | 791    | 57      | 43    | 266    |
| 8           | 349    | 285       | 427    | 50    | 2.6   | 214    | 769    | 738    | 820    | 41      | 38    | 290    |
| 9           | 315    | 299       | 406    | 50    | 2.6   | 213    | 781    | 730    | 804    | 40      | 46    | 290    |
| 10          | 294    | 329       | 415    | 50    | 2.6   | 216    | 744    | 668    | 785    | 64      | 61    | 262    |
| 11          | 314    | 398       | 395    | 50    | 2.6   | 217    | 694    | 633    | 583    | 58      | 73    | 247    |
| 12          | 310    | 407       | 400    | 50    | 2.6   | 217    | 618    | 632    | 533    | 44      | 69    | 225    |
| 13          | 311    | 459       | 356    | 50    | 2.6   | 214    | 638    | 642    | 516    | 45      | 66    | 248    |
| 14          | 318    | 464       | 50     | 50    | 2.6   | 213    | 597    | 645    | 501    | 80      | 82    | 254    |
| 15          | 322    | 448       | 50     | 50    | 2.6   | 214    | 540    | 746    | 476    | 116     | 55    | 269    |
| 16          | 329    | 445       | 50     | 20    | 2.6   | 209    | 526    | 765    | 329    | 87      | 46    | 249    |
| 17          | 333    | 435       | 50     | 20    | 2.6   | 215    | 543    | 750    | 252    | 59      | 61    | 219    |
| 18          | 360    | 411       | 50     | 20    | 2.6   | 214    | 557    | 725    | 228    | 33      | 99    | 207    |
| 19          | 366    | 414       | 50     | 20    | 2.6   | 225    | 590    | 756    | 184    | 40      | 123   | 182    |
| 20          | 366    | 447       | 50     | 20    | 2.6   | 217    | 561    | 494    | 152    | 34      | 117   | 168    |
| 21          | 357    | 445       | 50     | 2.6   | 2.6   | 200    | 496    | 670    | 53     | 49      | 132   | 170    |
| 22          | 341    | 444       | 50     | 2.6   | 2.6   | 268    | 453    | 730    | 90     | 62      | 63    | 181    |
| 23          | 335    | 443       | 50     | 2.6   | 2.6   | 304    | 363    | 765    | 49     | 67      | 55    | 223    |
| 24          | 347    | 438       | 50     | 2.6   | 2.6   | 173    | 306    | 707    | 75     | 73      | 42    | 262    |
| 25          | 364    | 437       | 50     | 2.6   | 2.6   | 134    | 399    | 663    | 77     | 65      | 55    | 296    |
| 26          | 372    | 438       | 50     | 2.6   | 2.6   | 121    | 373    | 603    | 84     | 106     | 107   | 273    |
| 27          | 372    | 432       | 50     | 2.6   | 2.6   | 77     | 332    | 451    | 46     | 82      | 105   | 296    |
| 28          | 356    | 453       | 50     | 2.6   | 1.0   | 130    | 313    | 481    | 53     | 80      | 103   | 377    |
| 29          | 304    | 448       | 50     | 2.6   | 1.0   | 117    | 329    | 586    | 83     | 66      | 97    | 383    |
| 30          | 292    | 440       | 50     | 2.6   | ----- | 95     | 425    | 603    | 41     | 84      | 102   | 341    |
| 31          | 295    | -----     | 50     | 2.6   | ----- | 73     | -----  | 599    | -----  | 134     | 110   | -----  |
| TOTAL       | 10,726 | 11,686    | 6,273  | 878.6 | 72.2  | 5,547  | 14,183 | 19,512 | 11,743 | 2,018   | 2,253 | 7,292  |
| MEAN        | 346    | 390       | 202    | 28.3  | 2.49  | 179    | 473    | 629    | 391    | 65.1    | 72.7  | 243    |
| MAX         | 496    | 464       | 434    | 50    | 2.6   | 304    | 781    | 765    | 820    | 134     | 134   | 383    |
| MIN         | 210    | 275       | 50     | 2.6   | 1.0   | 15     | 35     | 451    | 41     | 26      | 24    | 90     |
| AC-FT       | 21,280 | 23,180    | 12,440 | 1,740 | 143   | 11,000 | 28,130 | 38,700 | 23,290 | 4,000   | 4,470 | 14,460 |
| CAL YR 1971 | TOTAL  | 85,904.20 | MEAN   | 235   | MAX   | 715    | MIN    | 0      | AC-FT  | 170,400 |       |        |
| WTR YR 1972 | TOTAL  | 92,183.80 | MEAN   | 252   | MAX   | 820    | MIN    | 1.0    | AC-FT  | 182,800 |       |        |

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| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL     | AUG   | SEP   |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|-------|---------|-------|-------|
| 1           | 1,030  | 276     | 28     | 492    | 485    | 589    | 375    | 263    | 151   | 33      | 35    | 37    |
| 2           | 832    | 239     | 20     | 488    | 485    | 460    | 343    | 263    | 141   | 33      | 35    | 37    |
| 3           | 603    | 213     | 21     | 472    | 495    | 480    | 222    | 286    | 145   | 34      | 39    | 32    |
| 4           | 556    | 206     | 21     | 418    | 589    | 755    | 94     | 283    | 123   | 31      | 39    | 32    |
| 5           | 524    | 191     | 19     | 432    | 598    | 745    | 110    | 281    | 113   | 30      | 35    | 43    |
| 6           | 568    | 178     | 19     | 496    | 594    | 661    | 334    | 271    | 60    | 30      | 35    | 39    |
| 7           | 685    | 174     | 18     | 496    | 594    | 745    | 294    | 271    | 65    | 30      | 39    | 36    |
| 8           | 730    | 167     | 18     | 572    | 552    | 750    | 193    | 263    | 149   | 31      | 35    | 38    |
| 9           | 695    | 128     | 18     | 560    | 520    | 785    | 193    | 251    | 130   | 30      | 39    | 30    |
| 10          | 695    | 23      | 20     | 552    | 488    | 832    | 204    | 206    | 174   | 30      | 40    | 30    |
| 11          | 670    | 23      | 26     | 560    | 480    | 886    | 180    | 171    | 271   | 32      | 39    | 30    |
| 12          | 634    | 106     | 32     | 572    | 480    | 838    | 178    | 178    | 134   | 33      | 34    | 35    |
| 13          | 639    | 120     | 211    | 544    | 472    | 785    | 174    | 188    | 65    | 32      | 35    | 44    |
| 14          | 675    | 128     | 366    | 476    | 488    | 795    | 169    | 220    | 45    | 35      | 128   | 30    |
| 15          | 648    | 106     | 404    | 460    | 492    | 775    | 141    | 261    | 43    | 33      | 248   | 28    |
| 16          | 675    | 76      | 484    | 460    | 504    | 730    | 124    | 273    | 40    | 33      | 271   | 27    |
| 17          | 735    | 28      | 556    | 464    | 504    | 740    | 128    | 246    | 43    | 34      | 288   | 28    |
| 18          | 760    | 21      | 496    | 500    | 492    | 725    | 143    | 204    | 41    | 35      | 337   | 29    |
| 19          | 760    | 38      | 460    | 572    | 504    | 715    | 163    | 552    | 42    | 34      | 301   | 28    |
| 20          | 750    | 46      | 460    | 580    | 504    | 685    | 182    | 685    | 38    | 35      | 323   | 31    |
| 21          | 598    | 48      | 453    | 630    | 536    | 690    | 182    | 436    | 36    | 33      | 309   | 33    |
| 22          | 589    | 36      | 598    | 735    | 576    | 630    | 174    | 246    | 35    | 35      | 159   | 32    |
| 23          | 625    | 35      | 862    | 720    | 572    | 670    | 180    | 134    | 35    | 36      | 134   | 35    |
| 24          | 780    | 27      | 612    | 598    | 552    | 750    | 184    | 74     | 34    | 35      | 108   | 27    |
| 25          | 838    | 36      | 621    | 556    | 556    | 730    | 246    | 58     | 35    | 35      | 103   | 26    |
| 26          | 844    | 26      | 560    | 536    | 524    | 710    | 263    | 39     | 33    | 34      | 48    | 32    |
| 27          | 856    | 46      | 552    | 504    | 496    | 594    | 241    | 54     | 32    | 35      | 50    | 39    |
| 28          | 307    | 82      | 540    | 502    | 512    | 520    | 251    | 49     | 45    | 35      | 41    | 62    |
| 29          | 229    | 43      | 508    | 492    | 603    | 488    | 263    | 94     | 34    | 39      | 36    | 27    |
| 30          | 227    | 36      | 503    | 484    | -----  | 439    | 253    | 91     | 35    | 37      | 36    | 30    |
| 31          | 309    | -----   | 496    | 480    | -----  | 429    | -----  | 47     | ----- | 39      | 46    | ----- |
| TOTAL       | 20,066 | 2,907   | 10,007 | 16,403 | 15,247 | 21,126 | 6,181  | 6,938  | 2,372 | 1,041   | 3,445 | 1,007 |
| MEAN        | 647    | 96.9    | 323    | 529    | 526    | 681    | 206    | 224    | 79.1  | 33.6    | 111   | 33.6  |
| MAX         | 1,030  | 276     | 862    | 735    | 603    | 886    | 375    | 685    | 271   | 39      | 337   | 62    |
| MIN         | 227    | 21      | 18     | 418    | 472    | 429    | 94     | 39     | 32    | 30      | 34    | 26    |
| AC-FT       | 39,800 | 5,770   | 19,850 | 32,540 | 30,240 | 41,900 | 12,260 | 13,760 | 4,700 | 2,060   | 6,830 | 2,000 |
| CAL YR 1971 | TOTAL  | 261,837 | MEAN   | 717    | MAX    | 2,200  | MIN    | 18     | AC-FT | 519,400 |       |       |
| WTR YR 1972 | TOTAL  | 106,740 | MEAN   | 292    | MAX    | 1,030  | MIN    | 18     | AC-FT | 211,700 |       |       |

## PYRAMID AND WINNEMICCA LAKES BASIN

10351650 Truckee River at Wadsworth, Nev.

LOCATION.--Lat 39°38'19", long 119°16'09", in SW<sub>14</sub>SW<sub>14</sub> sec.34, T.21 N., R.24 E., Washoe County, on right bank 0.5 mile downstream from U.S. Highway 40 bridge and 0.2 mile northeast of Wadsworth.

DRAINAGE AREA.--1,719 sq mi.

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

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1956.

AVERAGE DISCHARGE.--7 years, 641 cfs (464,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,650 cfs May 19 (gage height, 7.38 ft); minimum, 20 cfs Dec. 8, 9.  
Period of record: Maximum discharge, 7,790 cfs Jan. 24, 1970 (gage height, 11.65 ft); maximum gage height, 11.90 ft, May 22, 1967; minimum discharge, 3.3 cfs 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 1971 TO SEPTEMBER 1972

| DAY         | OCT           | NOV   | DEC      | JAN       | FEB    | MAR           | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|---------------|-------|----------|-----------|--------|---------------|--------|--------|-------|-------|-------|-------|
| 1           | 1,030         | 290   | 43       | 480       | 510    | 634           | 499    | 285    | 146   | 33    | 38    | 70    |
| 2           | 892           | 253   | 38       | 500       | 490    | 521           | 471    | 284    | 170   | 34    | 29    | 106   |
| 3           | 666           | 232   | 35       | 470       | 520    | 467           | 363    | 299    | 172   | 36    | 28    | 50    |
| 4           | 585           | 211   | 35       | 450       | 608    | 745           | 99     | 306    | 162   | 35    | 33    | 48    |
| 5           | 545           | 200   | 34       | 460       | 644    | 770           | 79     | 306    | 148   | 32    | 28    | 58    |
| 6           | 576           | 183   | 32       | 480       | 621    | 684           | 340    | 293    | 110   | 31    | 27    | 64    |
| 7           | 693           | 180   | 32       | 500       | 621    | 755           | 325    | 290    | 95    | 34    | 28    | 56    |
| 8           | 735           | 173   | 32       | 480       | 585    | 770           | 236    | 284    | 178   | 36    | 35    | 60    |
| 9           | 711           | 161   | 29       | 470       | 533    | 800           | 203    | 271    | 169   | 26    | 34    | 40    |
| 10          | 706           | 56    | 32       | 500       | 516    | 848           | 231    | 238    | 187   | 28    | 35    | 35    |
| 11          | 680           | 41    | 37       | 520       | 491    | 866           | 214    | 176    | 325   | 27    | 38    | 35    |
| 12          | 652           | 76    | 41       | 540       | 495    | 853           | 207    | 182    | 205   | 31    | 35    | 42    |
| 13          | 634           | 143   | 121      | 598       | 487    | 795           | 218    | 193    | 123   | 32    | 37    | 54    |
| 14          | 675           | 145   | 396      | 520       | 503    | 790           | 217    | 208    | 85    | 31    | 77    | 42    |
| 15          | 662           | 116   | 432      | 499       | 507    | 780           | 193    | 259    | 76    | 30    | 223   | 40    |
| 16          | 684           | 105   | 503      | 495       | 520    | 730           | 154    | 265    | 64    | 32    | 268   | 39    |
| 17          | 750           | 60    | 612      | 499       | 520    | 730           | 148    | 259    | 57    | 38    | 290   | 36    |
| 18          | 775           | 39    | 545      | 533       | 512    | 725           | 170    | 220    | 54    | 42    | 356   | 35    |
| 19          | 775           | 44    | 495      | 621       | 524    | 720           | 197    | 590    | 53    | 42    | 321   | 35    |
| 20          | 780           | 63    | 491      | 634       | 528    | 653           | 219    | 966    | 53    | 45    | 340   | 37    |
| 21          | 626           | 62    | 495      | 684       | 559    | 680           | 217    | 516    | 51    | 48    | 347   | 39    |
| 22          | 608           | 58    | 590      | 795       | 594    | 644           | 210    | 315    | 48    | 56    | 196   | 35    |
| 23          | 616           | 52    | 930      | 785       | 626    | 662           | 205    | 185    | 43    | 52    | 148   | 35    |
| 24          | 795           | 43    | 666      | 684       | 598    | 745           | 208    | 121    | 44    | 48    | 121   | 33    |
| 25          | 836           | 47    | 662      | 634       | 608    | 716           | 248    | 97     | 43    | 50    | 119   | 33    |
| 26          | 848           | 47    | 594      | 616       | 599    | 765           | 293    | 81     | 40    | 48    | 77    | 30    |
| 27          | 875           | 44    | 580      | 581       | 554    | 698           | 257    | 68     | 35    | 38    | 72    | 33    |
| 28          | 407           | 102   | 560      | 540       | 563    | 657           | 258    | 85     | 38    | 33    | 68    | 54    |
| 29          | 247           | 66    | 550      | 520       | 630    | 612           | 286    | 97     | 38    | 32    | 56    | 35    |
| 30          | 232           | 57    | 530      | 480       | -----  | 567           | 279    | 111    | 32    | 42    | 56    | 27    |
| 31          | 306           | ----- | 500      | 520       | -----  | 550           | -----  | 79     | ----- | 42    | 58    | ----- |
| TOTAL       | 20,602        | 3,359 | 10,672   | 17,088    | 16,066 | 21,992        | 7,244  | 7,929  | 3,049 | 1,164 | 3,618 | 1,336 |
| MEAN        | 665           | 112   | 344      | 551       | 554    | 709           | 241    | 256    | 102   | 37.5  | 117   | 44.5  |
| MAX         | 1,030         | 290   | 930      | 795       | 644    | 866           | 499    | 966    | 325   | 56    | 356   | 106   |
| MIN         | 232           | 39    | 29       | 450       | 487    | 467           | 79     | 68     | 32    | 26    | 27    | 27    |
| AC-FT       | 40,860        | 6,660 | 21,170   | 33,890    | 31,870 | 43,620        | 14,370 | 15,730 | 6,050 | 2,310 | 7,180 | 2,650 |
| CAL YR 1971 | TOTAL 264,126 |       | MEAN 724 | MAX 2,190 | MIN 29 | AC-FT 523,900 |        |        |       |       |       |       |
| WTR YR 1972 | TOTAL 114,115 |       | MEAN 312 | MAX 1,030 | MIN 26 | AC-FT 226,400 |        |        |       |       |       |       |

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LOCATION.--Lat 39°46'40", long 119°20'10", in SW 1/4 sec.18, T.22 N., R.24 E., Washoe County, on right bank 1 mile upstream from Pyramid Indian Reservation diversion dam, 4 miles south of Nixon, and 13 miles 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 mile 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.--15 years. 429 cfs (310,800 acre-ft per year).

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, Prosser Creek, Stampede, and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts practically all flow at Derby Dam, about 25 miles 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | JCT    | NOV     | DEC    | JAN    | FEB    | MAK    | APR    | MAY    | JUN           | JUL   | AUG   | SEP   |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|---------------|-------|-------|-------|
| 1           | 981    | 330     | 70     | 450    | 534    | 674    | 549    | 258    | 95            | 36    | 51    | 65    |
| 2           | 910    | 292     | 64     | 450    | 515    | 576    | 505    | 263    | 176           | 37    | 46    | 123   |
| 3           | 706    | 262     | 57     | 450    | 537    | 484    | 427    | 275    | 174           | 40    | 42    | 73    |
| 4           | 579    | 248     | 56     | 450    | 566    | 702    | 179    | 292    | 172           | 39    | 39    | 64    |
| 5           | 572    | 237     | 55     | 450    | 637    | 787    | 117    | 286    | 164           | 39    | 42    | 50    |
| 6           | 541    | 223     | 53     | 450    | 625    | 722    | 235    | 281    | 142           | 38    | 39    | 74    |
| 7           | 508    | 213     | 52     | 460    | 631    | 747    | 297    | 275    | 118           | 38    | 40    | 71    |
| 8           | 719    | 212     | 50     | 465    | 614    | 784    | 245    | 277    | 146           | 39    | 42    | 70    |
| 9           | 716    | 199     | 54     | 470    | 546    | 795    | 195    | 264    | 193           | 34    | 46    | 52    |
| 10          | 696    | 136     | 60     | 490    | 550    | 840    | 222    | 252    | 169           | 30    | 47    | 46    |
| 11          | 677    | 79      | 60     | 520    | 509    | 902    | 212    | 189    | 296           | 34    | 45    | 47    |
| 12          | 655    | 69      | 61     | 550    | 515    | 886    | 198    | 193    | 241           | 33    | 47    | 56    |
| 13          | 617    | 165     | 63     | 597    | 509    | 840    | 211    | 198    | 152           | 34    | 42    | 62    |
| 14          | 665    | 162     | 342    | 522    | 517    | 825    | 210    | 205    | 104           | 37    | 45    | 69    |
| 15          | 655    | 150     | 382    | 494    | 521    | 824    | 198    | 247    | 92            | 38    | 169   | 58    |
| 16          | 551    | 141     | 441    | 492    | 533    | 792    | 162    | 255    | 81            | 39    | 243   | 57    |
| 17          | 731    | 107     | 563    | 485    | 539    | 778    | 146    | 262    | 73            | 35    | 263   | 53    |
| 18          | 755    | 74      | 524    | 511    | 532    | 778    | 154    | 232    | 71            | 42    | 315   | 52    |
| 19          | 755    | 66      | 494    | 586    | 535    | 776    | 183    | 324    | 66            | 47    | 311   | 50    |
| 20          | 771    | 83      | 475    | 601    | 539    | 747    | 197    | 983    | 68            | 49    | 307   | 50    |
| 21          | 637    | 86      | 473    | 630    | 562    | 732    | 202    | 518    | 65            | 57    | 333   | 55    |
| 22          | 504    | 87      | 514    | 722    | 586    | 717    | 195    | 348    | 63            | 59    | 228   | 56    |
| 23          | 592    | 77      | 834    | 731    | 626    | 698    | 189    | 207    | 59            | 62    | 162   | 52    |
| 24          | 738    | 72      | 667    | 675    | 592    | 781    | 197    | 148    | 54            | 57    | 139   | 52    |
| 25          | 787    | 66      | 634    | 614    | 597    | 769    | 206    | 113    | 51            | 57    | 131   | 50    |
| 26          | 825    | 72      | 589    | 590    | 609    | 812    | 266    | 102    | 43            | 54    | 111   | 49    |
| 27          | 847    | 64      | 559    | 575    | 567    | 739    | 239    | 77     | 40            | 51    | 81    | 53    |
| 28          | 509    | 98      | 530    | 575    | 572    | 692    | 239    | 86     | 37            | 45    | 80    | 57    |
| 29          | 296    | 98      | 500    | 544    | 617    | 648    | 258    | 81     | 42            | 40    | 76    | 73    |
| 30          | 272    | 78      | 480    | 534    | -----  | 620    | 258    | 111    | 39            | 47    | 68    | 49    |
| 31          | 305    | -----   | 465    | 530    | -----  | 590    | -----  | 109    | -----         | 55    | 61    | ----- |
| TOTAL       | 20,508 | 4,246   | 10,221 | 16,663 | 16,332 | 23,057 | 7,091  | 7,711  | 3,286         | 1,342 | 3,691 | 1,808 |
| MEAN        | 562    | 142     | 330    | 538    | 563    | 744    | 236    | 249    | 110           | 43.3  | 119   | 60.3  |
| MAX         | 981    | 330     | 834    | 731    | 637    | 902    | 549    | 983    | 296           | 62    | 333   | 123   |
| MIN         | 272    | 64      | 50     | 450    | 509    | 484    | 117    | 77     | 37            | 30    | 39    | 46    |
| AC-FT       | 40,680 | 8,420   | 20,270 | 33,050 | 32,390 | 45,730 | 14,070 | 15,290 | 6,520         | 2,660 | 7,320 | 3,590 |
| CAL YR 1971 | TOTAL  | 267,937 | MEAN   | 734    | MAX    | 2,240  | MIN    | 50     | AC-FT 531,500 |       |       |       |
| WTR YR 1972 | TOTAL  | 115,956 | MEAN   | 317    | MAX    | 983    | MIN    | 30     | AC-FT 230,000 |       |       |       |

## BLACK ROCK DESERT

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 miles southwest of McDermitt.

DRAINAGE AREA.--225 sq mi.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (from topographic map). Prior to May 11, 1972 at site approximately 300 ft downstream on left bank at same datum.

AVERAGE DISCHARGE.--24 years, 29.4 cfs (21,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 784 cfs Mar. 3 (gage height, 3.61 ft); minimum, 1.3 cfs Nov. 7.

Period of record: Maximum discharge, 3,970 cfs about Feb. 1, 1963 (gage height, 8.64 ft, in gage well), from rating curve extended above 250 cfs 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 above station.

REVISIONS (WATER YEARS).--WSP 1214: 1949-50 (P).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT             | NOV       | DEC     | JAN     | FEB          | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-----------------|-----------|---------|---------|--------------|--------|-------|-------|-------|-------|-------|-------|
| 1           | 12              | 7.3       | 14      | 9.0     | 9.5          | 48     | 73    | 53    | 54    | 15    | 6.0   | 2.8   |
| 2           | 10              | 9.1       | 9.7     | 9.0     | 9.0          | 162    | 84    | 54    | 55    | 14    | 5.2   | 2.8   |
| 3           | 9.4             | 8.7       | 14      | 9.0     | 10           | 628    | 94    | 55    | 53    | 13    | 4.8   | 3.1   |
| 4           | 9.4             | 8.4       | 11      | 8.5     | 10           | 475    | 97    | 49    | 52    | 13    | 4.6   | 3.4   |
| 5           | 9.4             | 9.5       | 15      | 9.0     | 10           | 496    | 111   | 51    | 49    | 13    | 4.2   | 3.2   |
| 6           | 9.3             | 10        | 18      | 9.5     | 10           | 525    | 104   | 64    | 49    | 12    | 4.0   | 3.0   |
| 7           | 9.5             | 8.0       | 8.0     | 9.5     | 10           | 439    | 96    | 70    | 63    | 11    | 3.7   | 3.2   |
| 8           | 9.1             | 9.0       | 8.9     | 9.5     | 10           | 344    | 90    | 70    | 59    | 9.9   | 3.5   | 2.9   |
| 9           | 8.7             | 9.4       | 11      | 9.5     | 10           | 380    | 86    | 60    | 82    | 9.3   | 3.7   | 3.0   |
| 10          | 8.2             | 9.3       | 12      | 10      | 10           | 490    | 85    | 56    | 82    | 9.7   | 3.3   | 3.0   |
| 11          | 7.9             | 8.4       | 16      | 11      | 11           | 417    | 82    | 55    | 68    | 9.1   | 3.3   | 3.7   |
| 12          | 7.8             | 10        | 16      | 13      | 10           | 361    | 85    | 54    | 52    | 16    | 3.1   | 4.9   |
| 13          | 7.7             | 10        | 14      | 14      | 12           | 338    | 71    | 55    | 45    | 17    | 3.3   | 4.9   |
| 14          | 7.5             | 9.7       | 14      | 10      | 11           | 288    | 73    | 56    | 41    | 15    | 2.9   | 4.6   |
| 15          | 7.8             | 8.8       | 14      | 9.3     | 10           | 216    | 76    | 57    | 37    | 14    | 2.8   | 3.9   |
| 16          | 8.8             | 9.0       | 13      | 10      | 15           | 184    | 77    | 60    | 35    | 13    | 3.0   | 3.8   |
| 17          | 10              | 8.8       | 10      | 12      | 25           | 171    | 70    | 61    | 34    | 12    | 3.4   | 3.4   |
| 18          | 11              | 9.4       | 10      | 60      | 42           | 187    | 63    | 63    | 32    | 11    | 3.5   | 3.1   |
| 19          | 9.0             | 9.8       | 11      | 124     | 45           | 155    | 62    | 65    | 31    | 10    | 3.1   | 3.2   |
| 20          | 8.3             | 8.8       | 12      | 139     | 45           | 124    | 64    | 75    | 29    | 10    | 3.1   | 3.2   |
| 21          | 8.7             | 11        | 12      | 134     | 64           | 111    | 59    | 63    | 26    | 10    | 2.9   | 3.4   |
| 22          | 8.6             | 9.8       | 14      | 251     | 61           | 89     | 46    | 57    | 26    | 10    | 2.7   | 3.3   |
| 23          | 8.6             | 8.9       | 16      | 112     | 51           | 65     | 49    | 53    | 25    | 9.1   | 2.6   | 2.6   |
| 24          | 8.6             | 9.5       | 17      | 25      | 43           | 52     | 51    | 49    | 24    | 8.0   | 2.7   | 2.7   |
| 25          | 8.3             | 9.3       | 18      | 20      | 35           | 48     | 51    | 47    | 24    | 7.2   | 2.8   | 3.1   |
| 26          | 8.2             | 9.6       | 17      | 15      | 36           | 48     | 51    | 46    | 23    | 7.1   | 2.6   | 4.0   |
| 27          | 8.3             | 13        | 10      | 10      | 76           | 85     | 55    | 46    | 21    | 6.6   | 2.7   | 5.4   |
| 28          | 7.3             | 13        | 9.5     | 10      | 163          | 86     | 57    | 46    | 19    | 6.3   | 2.5   | 7.0   |
| 29          | 4.0             | 13        | 9.5     | 10      | 191          | 78     | 57    | 48    | 18    | 6.0   | 2.6   | 6.0   |
| 30          | 6.4             | 12        | 9.5     | 10      | -----        | 72     | 52    | 51    | 16    | 6.1   | 2.8   | 5.4   |
| 31          | 8.6             | -----     | 9.5     | 10      | -----        | 72     | ----- | 51    | ----- | 7.1   | 2.8   | ----- |
| TOTAL       | 266.4           | 290.5     | 393.6   | 1,101.8 | 1,044.5      | 7,234  | 2,171 | 1,740 | 1,224 | 330.5 | 104.2 | 112.0 |
| MEAN        | 8.59            | 9.68      | 12.7    | 35.5    | 36.0         | 233    | 72.4  | 56.1  | 40.8  | 10.7  | 3.36  | 3.73  |
| MAX         | 12              | 13        | 18      | 251     | 191          | 628    | 111   | 75    | 82    | 17    | 6.0   | 7.0   |
| MIN         | 4.0             | 7.3       | 8.0     | 8.5     | 9.0          | 48     | 46    | 46    | 16    | 6.0   | 2.5   | 2.6   |
| AC-FT       | 528             | 576       | 781     | 2,190   | 2,070        | 14,350 | 4,310 | 3,450 | 2,430 | 656   | 207   | 222   |
| CAL YR 1971 | TOTAL 13,952.40 | MEAN 38.2 | MAX 562 | MIN .90 | AC-FT 27,670 |        |       |       |       |       |       |       |
| WTR YR 1972 | TOTAL 16,012.50 | MEAN 43.8 | MAX 628 | MIN 2.5 | AC-FT 31,760 |        |       |       |       |       |       |       |

## PEAK DISCHARGE (BASE, 150 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-20 | 2200 | 2.58  | 270       | 3-3  | 0100 | 3.61  | 784       |
| 1-23 | 0100 | 3.12  | 560       | 3-10 | 2000 | 3.31  | 644       |
| 2-28 | 2200 | 2.69  | 325       |      |      |       |           |



## BLACK ROCK DESERT

157

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 mile downstream from South Fork and 7 miles east of McDermitt.

DRAINAGE AREA.--140 sq mi, approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (from topographic map).

AVERAGE DISCHARGE.--24 years, 26.1 cfs (18,910 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 780 cfs Mar. 3 (gage height, 7.19 ft); minimum, 1.8 cfs Aug. 11, 12.

Period of record: Maximum discharge, 1,270 cfs Jan. 15, 1956 (gage height, 8.52 ft); minimum, 0.10 cfs Sept. 6, 7, 1955.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN     | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|---------|-------|--------|-------|-------|-------|-------|------|-------|
| 1     | 7.0   | 5.3   | 10    | 6.5     | 26    | 331    | 92    | 58    | 40    | 8.5   | 3.0  | 2.3   |
| 2     | 6.4   | 6.1   | 9.2   | 6.5     | 30    | 424    | 148   | 58    | 39    | 8.3   | 2.8  | 2.4   |
| 3     | 6.1   | 6.1   | 9.9   | 6.5     | 25    | 683    | 122   | 59    | 38    | 7.8   | 2.8  | 2.6   |
| 4     | 6.1   | 6.1   | 9.9   | 6.2     | 22    | 478    | 135   | 62    | 36    | 7.3   | 2.7  | 2.6   |
| 5     | 6.1   | 6.1   | 10    | 6.8     | 22    | 529    | 136   | 64    | 34    | 7.1   | 2.5  | 3.0   |
| 6     | 6.1   | 5.0   | 14    | 7.0     | 21    | 530    | 125   | 67    | 34    | 6.8   | 2.3  | 3.1   |
| 7     | 6.1   | 5.3   | 8.2   | 7.0     | 19    | 427    | 110   | 68    | 36    | 6.2   | 2.3  | 3.0   |
| 8     | 5.8   | 5.8   | 7.3   | 7.2     | 18    | 347    | 100   | 68    | 36    | 6.0   | 2.2  | 2.8   |
| 9     | 5.8   | 6.4   | 9.9   | 7.5     | 18    | 367    | 94    | 66    | 37    | 5.8   | 2.2  | 2.7   |
| 10    | 5.8   | 6.4   | 11    | 7.9     | 15    | 412    | 91    | 62    | 37    | 5.7   | 2.1  | 2.8   |
| 11    | 5.8   | 6.1   | 11    | 7.9     | 15    | 373    | 88    | 60    | 34    | 5.4   | 2.1  | 3.1   |
| 12    | 5.8   | 6.7   | 11    | 8.2     | 15    | 328    | 84    | 63    | 29    | 5.1   | 2.0  | 3.3   |
| 13    | 5.8   | 7.0   | 10    | 7.9     | 16    | 311    | 79    | 58    | 26    | 4.7   | 2.1  | 3.2   |
| 14    | 5.8   | 6.7   | 9.6   | 6.4     | 16    | 280    | 79    | 58    | 24    | 4.4   | 2.2  | 3.1   |
| 15    | 6.1   | 6.7   | 10    | 6.7     | 16    | 245    | 81    | 58    | 22    | 4.3   | 2.3  | 3.0   |
| 16    | 6.7   | 5.8   | 9.6   | 7.6     | 16    | 239    | 77    | 58    | 20    | 4.1   | 2.4  | 3.0   |
| 17    | 7.0   | 5.3   | 7.9   | 8.2     | 19    | 224    | 70    | 57    | 19    | 3.9   | 2.5  | 2.9   |
| 18    | 6.7   | 6.1   | 7.9   | 12      | 23    | 242    | 66    | 57    | 18    | 3.7   | 2.5  | 2.9   |
| 19    | 6.7   | 5.3   | 8.2   | 49      | 26    | 205    | 63    | 56    | 17    | 3.6   | 2.5  | 3.2   |
| 20    | 6.4   | 6.4   | 9.2   | 62      | 40    | 185    | 62    | 56    | 16    | 3.9   | 3.0  | 3.2   |
| 21    | 6.4   | 7.0   | 9.2   | 119     | 51    | 175    | 63    | 69    | 15    | 4.1   | 2.4  | 3.2   |
| 22    | 6.4   | 6.7   | 9.9   | 253     | 57    | 170    | 62    | 65    | 14    | 4.1   | 2.3  | 3.2   |
| 23    | 6.4   | 6.4   | 9.9   | 237     | 48    | 159    | 62    | 58    | 13    | 3.8   | 2.4  | 3.3   |
| 24    | 6.1   | 6.7   | 9.9   | 132     | 43    | 136    | 65    | 52    | 14    | 3.5   | 2.5  | 3.4   |
| 25    | 6.1   | 6.7   | 10    | 90      | 40    | 152    | 65    | 49    | 13    | 3.3   | 2.5  | 3.5   |
| 26    | 6.1   | 7.6   | 9.6   | 65      | 48    | 125    | 61    | 47    | 12    | 3.2   | 2.4  | 4.1   |
| 27    | 6.1   | 9.2   | 7.0   | 51      | 132   | 108    | 59    | 45    | 11    | 3.1   | 2.4  | 4.9   |
| 28    | 5.0   | 9.9   | 6.6   | 44      | 500   | 105    | 60    | 44    | 10    | 3.0   | 2.2  | 4.5   |
| 29    | 3.7   | 11    | 6.5   | 41      | 527   | 97     | 65    | 43    | 9.6   | 2.9   | 2.3  | 4.2   |
| 30    | 4.8   | 11    | 6.5   | 37      | ----- | 90     | 60    | 42    | 8.9   | 3.0   | 2.5  | 4.0   |
| 31    | 5.5   | ----- | 6.5   | 29      | ----- | 87     | ----- | 41    | ----- | 3.2   | 2.4  | ----- |
| TOTAL | 186.7 | 202.9 | 285.4 | 1,343.0 | 1,864 | 8,564  | 2,524 | 1,768 | 712.5 | 149.8 | 74.8 | 96.5  |
| MEAN  | 6.02  | 6.76  | 9.21  | 43.3    | 64.3  | 276    | 84.1  | 57.0  | 23.8  | 4.83  | 2.41 | 3.22  |
| MAX   | 7.0   | 11    | 14    | 253     | 527   | 683    | 148   | 69    | 40    | 8.5   | 3.0  | 4.9   |
| MIN   | 3.7   | 5.0   | 6.5   | 6.2     | 15    | 87     | 59    | 41    | 8.9   | 2.9   | 2.0  | 2.3   |
| AC-FT | 370   | 402   | 566   | 2,660   | 3,700 | 16,990 | 5,010 | 3,510 | 1,410 | 297   | 148  | 191   |

CAL YR 1971 TOTAL 14,176.0 MEAN 38.8 MAX 686 MIN 2.9 AC-FT 28,120  
WTR YR 1972 TOTAL 17,771.6 MEAN 48.6 MAX 683 MIN 2.0 AC-FT 35,250

## PEAK DISCHARGE (BASE, 100 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-22 | 1900 | 4.54  | 294       | 3-10 | 1900 | 5.66  | 493       |
| 2-28 | 2300 | 7.03  | 750       | 4-4  | 1900 | 3.85  | 184       |
| 3-3  | 0900 | 7.19  | 780       |      |      |       |           |



## BLACK ROCK DESERT

159

10353700 Leonard Creek near Denio, Nev.

LOCATION.--Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, on right bank 0.3 mile upstream from concrete diversion structure, 0.7 mile upstream from Leonard Creek Ranch buildings, about 18 miles upstream from Quinn River, and 32 miles south of Denio.

DRAINAGE AREA.--52 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage in 4,300 ft (from topographic map AMS). Prior to Aug. 21, 1969, at site 50 ft downstream at datum 0.28 ft higher.

AVERAGE DISCHARGE.--12 years, 4.81 cfs (3,480 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 21 cfs June 9 (gage height, 1.40 ft); maximum gage height, 1.92 ft (backwater from ice); minimum discharge, 1.5 cfs Oct. 28.

Period of record: Maximum discharge, 612 cfs Feb. 1, 1963 (gage height, 4.98 ft), from rating curve extended above 15 cfs 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, which are poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 3.1   | 5.1   | 3.1   | 3.0   | 3.3   | 8.5   | 8.1   | 9.4   | 12    | 5.4   | 2.8  | 2.2   |
| 2     | 4.9   | 4.0   | 4.0   | 3.0   | 3.3   | 9.8   | 8.6   | 9.8   | 12    | 5.2   | 2.7  | 2.3   |
| 3     | 4.7   | 4.0   | 3.5   | 3.0   | 3.5   | 19    | 8.3   | 11    | 13    | 4.9   | 2.7  | 2.3   |
| 4     | 4.5   | 4.0   | 5.6   | 2.8   | 4.5   | 14    | 8.6   | 11    | 12    | 5.1   | 2.7  | 2.5   |
| 5     | 4.5   | 3.6   | 4.2   | 3.0   | 5.0   | 15    | 9.2   | 11    | 12    | 5.0   | 2.7  | 2.8   |
| 6     | 4.4   | 4.0   | 4.2   | 3.0   | 5.6   | 14    | 9.1   | 12    | 12    | 4.8   | 2.5  | 3.0   |
| 7     | 4.2   | 4.4   | 4.0   | 3.0   | 4.0   | 14    | 8.8   | 12    | 13    | 4.7   | 2.3  | 2.8   |
| 8     | 3.8   | 3.6   | 3.5   | 3.1   | 3.6   | 12    | 8.8   | 11    | 13    | 4.6   | 2.3  | 2.7   |
| 9     | 3.6   | 3.5   | 4.0   | 3.2   | 3.8   | 12    | 8.8   | 11    | 16    | 4.4   | 2.5  | 2.7   |
| 10    | 3.5   | 3.5   | 4.0   | 3.4   | 3.8   | 12    | 8.7   | 11    | 13    | 4.5   | 2.7  | 2.7   |
| 11    | 3.6   | 3.6   | 4.9   | 3.6   | 3.8   | 12    | 9.2   | 11    | 12    | 4.3   | 2.3  | 2.8   |
| 12    | 3.6   | 4.5   | 3.8   | 3.5   | 3.8   | 12    | 8.9   | 12    | 10    | 4.1   | 2.2  | 3.0   |
| 13    | 3.5   | 4.0   | 3.6   | 3.5   | 4.2   | 11    | 8.5   | 12    | 9.4   | 3.9   | 2.3  | 3.0   |
| 14    | 3.5   | 2.7   | 4.0   | 3.5   | 3.6   | 10    | 9.5   | 12    | 8.7   | 3.8   | 2.5  | 2.7   |
| 15    | 3.6   | 4.0   | 3.6   | 3.5   | 3.6   | 10    | 9.1   | 13    | 8.0   | 3.6   | 2.6  | 2.7   |
| 16    | 3.5   | 3.8   | 4.0   | 3.5   | 4.4   | 11    | 8.8   | 13    | 7.3   | 3.5   | 2.7  | 2.4   |
| 17    | 4.2   | 4.4   | 3.7   | 3.5   | 5.1   | 12    | 8.1   | 13    | 6.8   | 3.4   | 2.7  | 2.4   |
| 18    | 4.0   | 3.5   | 3.5   | 3.5   | 4.7   | 12    | 7.7   | 13    | 6.2   | 3.3   | 2.5  | 2.3   |
| 19    | 4.7   | 4.0   | 3.5   | 3.8   | 6.8   | 11    | 7.8   | 13    | 6.2   | 3.3   | 2.3  | 2.3   |
| 20    | 4.2   | 4.5   | 4.0   | 3.8   | 7.9   | 11    | 7.7   | 14    | 6.2   | 3.5   | 2.2  | 2.5   |
| 21    | 4.0   | 3.8   | 5.0   | 4.5   | 6.8   | 10    | 7.8   | 13    | 6.2   | 3.6   | 2.3  | 2.5   |
| 22    | 4.0   | 3.6   | 6.8   | 8.2   | 6.1   | 10    | 8.2   | 12    | 6.1   | 3.6   | 2.2  | 2.4   |
| 23    | 3.8   | 3.5   | 4.5   | 6.8   | 4.9   | 9.6   | 8.3   | 12    | 6.1   | 3.3   | 2.2  | 2.4   |
| 24    | 3.6   | 3.5   | 3.5   | 5.9   | 4.9   | 9.5   | 8.5   | 12    | 6.3   | 3.1   | 2.2  | 2.6   |
| 25    | 3.5   | 3.3   | 3.6   | 4.0   | 4.7   | 9.2   | 8.5   | 11    | 6.2   | 3.0   | 2.2  | 2.7   |
| 26    | 3.8   | 3.8   | 3.5   | 3.5   | 7.6   | 8.2   | 8.4   | 11    | 6.0   | 2.8   | 2.1  | 3.1   |
| 27    | 3.5   | 4.0   | 3.3   | 3.5   | 12    | 9.7   | 8.9   | 11    | 5.5   | 2.8   | 1.9  | 3.3   |
| 28    | 2.7   | 3.8   | 3.0   | 3.3   | 16    | 8.6   | 9.3   | 11    | 5.2   | 2.8   | 2.2  | 3.0   |
| 29    | 2.5   | 3.6   | 3.3   | 3.3   | 15    | 8.2   | 9.4   | 11    | 5.0   | 2.7   | 2.3  | 2.8   |
| 30    | 3.5   | 3.6   | 3.0   | 3.3   | ----- | 7.8   | 9.0   | 12    | 4.8   | 3.3   | 2.5  | 2.7   |
| 31    | 4.4   | ----- | 3.0   | 3.5   | ----- | 7.7   | ----- | 12    | ----- | 3.1   | 2.5  | ----- |
| TOTAL | 118.9 | 115.2 | 121.2 | 116.0 | 166.3 | 340.8 | 258.6 | 363.2 | 266.2 | 119.4 | 74.8 | 79.6  |
| MEAN  | 3.84  | 3.84  | 3.91  | 3.74  | 5.73  | 11.0  | 8.62  | 11.7  | 8.87  | 3.85  | 2.41 | 2.65  |
| MAX   | 4.9   | 5.1   | 6.8   | 8.2   | 16    | 19    | 9.5   | 14    | 16    | 5.4   | 2.8  | 3.3   |
| MIN   | 2.5   | 2.7   | 3.0   | 2.8   | 3.3   | 7.7   | 7.7   | 9.4   | 4.8   | 2.7   | 1.9  | 2.2   |
| AC-FT | 236   | 229   | 240   | 230   | 330   | 676   | 513   | 720   | 528   | 237   | 148  | 158   |

CAL YR 1971 TOTAL 2,678.6 MEAN 7.34 MAX 32 MIN 1.1 AC-FT 5,310  
WTR YR 1972 TOTAL 2,140.2 MEAN 5.85 MAX 19 MIN 1.9 AC-FT 4,250

## PEAK DISCHARGE (BASE, 15 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 2-27 | 2300 | 1.37  | 17        | 5-19 | 2300 | 1.28  | 15        |
| 3-3  | 0300 | 1.42  | 19        | 6-9  | 1200 | 1.40  | 21        |
| 3-27 | 1400 | 1.39  | 18        |      |      |       |           |

## GUANO VALLEY BASIN

10361700 Badger Creek Tributary near Vya, Nev.

LOCATION.--Lat 41°43'20", long 119°22'20", in NE $\frac{1}{4}$  sec.22, T.44 N., R.23 E., Washoe County, on left bank at culvert on State Highway 8A, 27 miles northeast of Vya, and 43 miles southwest of Denio.

DRAINAGE AREA.--7.7 sq mi.

PERIOD OF RECORD.--Annual maximum, water years 1962-63. October 1963 to current year.

GAGE.--Water-stage recorder with rain gage attachment. Altitude of gage is 5,885 ft (from topographic map). August 1962 to current year, auxilliary crest-stage gages located 32 and 58 ft downstream respectively, at same datum.

AVERAGE DISCHARGE.--9 years, 0.147 cfs (106 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 15 cfs Mar. 3; no flow most of year.

Period of record: Maximum discharge 137 cfs June 19, 1969 (gage height, 3.87 ft); no flow most of the time.

REMARKS.--Records of flow are poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV    | DEC  | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL  | AUG | SEP   |
|-------------|-------|--------|------|-------|-------|-------|-------|------|-------|------|-----|-------|
| 1           | 0     |        | 0    | 0     | 0     | 1.5   | .20   | .10  | .10   | .10  |     |       |
| 2           | 0     |        | 0    | 0     | 0     | 2.0   | .10   | .10  | .10   | .10  |     |       |
| 3           | 0     |        | 0    | 0     | 0     | 12    | .10   | .10  | .10   | .10  |     |       |
| 4           | 0     |        | 0    | 0     | 0     | 9.0   | .10   | .10  | .10   | .10  |     |       |
| 5           | 0     |        | 0    | 0     | 0     | 10    | .20   | .10  | .10   | .10  |     |       |
| 6           | 0     |        | 0    | 0     | 0     | 8.0   | .10   | .10  | .10   | .10  |     |       |
| 7           | 0     |        | 0    | 0     | 0     | 3.0   | .10   | .10  | 1.3   | .10  |     |       |
| 8           | 0     |        | 0    | 0     | 0     | 2.0   | .10   | .10  | .10   | .10  |     |       |
| 9           | 0     |        | 0    | 0     | 0     | 1.0   | .10   | .10  | 3.0   | .10  |     |       |
| 10          | 0     |        | 0    | 0     | 0     | .50   | .10   | .10  | .20   | .10  |     |       |
| 11          | 0     |        | 0    | 0     | 0     | .20   | .10   | .10  | .20   | .10  |     |       |
| 12          | 0     |        | 0    | 0     | 0     | .10   | .10   | .10  | .20   | .10  |     |       |
| 13          | 0     |        | 0    | 0     | 0     | .10   | .10   | .10  | .20   | .10  |     |       |
| 14          | 0     |        | 0    | 0     | 0     | .10   | .10   | .10  | .10   | .10  |     |       |
| 15          | 0     |        | 0    | 0     | 0     | .10   | .10   | .10  | .10   | .10  |     |       |
| 16          | 0     |        | 0    | 0     | 0     | .20   | .10   | .10  | .10   | 0    |     |       |
| 17          | .10   |        | 0    | 0     | 0     | .20   | .10   | .10  | .10   | 0    |     |       |
| 18          | .10   |        | 0    | 0     | 0     | .40   | .10   | .10  | .10   | 0    |     |       |
| 19          | .20   |        | 0    | .10   | .50   | .30   | .10   | .10  | .10   | 0    |     |       |
| 20          | .20   |        | .10  | .40   | .80   | .30   | .10   | .10  | .10   | 0    |     |       |
| 21          | .10   |        | .50  | 1.0   | 1.0   | .30   | .10   | .10  | .10   | 0    |     |       |
| 22          | .10   |        | 1.0  | 6.0   | .50   | .20   | .10   | .10  | .10   | 0    |     |       |
| 23          | .10   |        | .10  | 4.0   | 0     | .20   | .10   | .10  | .10   | 0    |     |       |
| 24          | 0     |        | 0    | 1.0   | 0     | .20   | .10   | .10  | .10   | 0    |     |       |
| 25          | 0     |        | 0    | .10   | .10   | .40   | .10   | .10  | .10   | 0    |     |       |
| 26          | 0     |        | 0    | 0     | 1.0   | 30    | .10   | .10  | .10   | 0    |     |       |
| 27          | 0     |        | 0    | 0     | 4.0   | .20   | .10   | .10  | .10   | 0    |     |       |
| 28          | 0     |        | 0    | 0     | 8.0   | .20   | .10   | .10  | .10   | 0    |     |       |
| 29          | 0     |        | 0    | 0     | 6.0   | .20   | .10   | .10  | .10   | 0    |     |       |
| 30          | 0     |        | 0    | 0     | ----- | .20   | .10   | .10  | .10   | 0    |     |       |
| 31          | 0     | -----  | 0    | 0     | ----- | .20   | ----- | .10  | ----- | 0    |     | ----- |
| TOTAL       | .90   | 0      | 1.70 | 12.60 | 21.90 | 53.60 | 3.20  | 3.10 | 7.50  | 1.50 | 0   | 0     |
| MEAN        | .029  | 0      | .055 | .41   | .76   | 1.73  | .11   | .10  | .25   | .048 | 0   | 0     |
| MAX         | .20   | 0      | 1.0  | 6.0   | 8.0   | 12    | .20   | .10  | 3.0   | .10  | 0   | 0     |
| MIN         | 0     | 0      | 0    | 0     | 0     | .10   | .10   | .10  | .10   | 0    | 0   | 0     |
| AC-FT       | 1.8   | 0      | 3.4  | 25    | 43    | 106   | 6.3   | 6.1  | 15    | 3.0  | 0   | 0     |
| CAL YR 1971 | TOTAL | 130.20 | MEAN | .36   | MAX   | 20    | MIN   | 0    | AC-FT | 258  |     |       |
| WTR YR 1972 | TOTAL | 106.00 | MEAN | .29   | MAX   | 12    | MIN   | 0    | AC-FT | 210  |     |       |

## PEAK DISCHARGE (BASE, 5.0 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-22 | unk. | -     | about 9.0 | 3-03 | unk. | -     | about 15  |
| 2-28 | unk. | -     | about 10  | 6-09 | unk. | -     | about 6.0 |

Note.--Flows are estimated.

## ALVORD LAKE BASIN

161

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., Malheur County, on right bank 0.4 mile upstream from bridge at mouth of canyon, 5 miles east of Trout Creek Ranch, and 14 miles northeast of Denio.

DRAINAGE AREA.--88 sq mi, 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 above mean sea level. Mar. 25, 1911, to Mar. 31, 1912, nonrecording gage at bridge 0.4 mile downstream at different datum. April 28, 1922, to June 14, 1932, water-stage recorder at site 10 ft upstream at datum 0.50 ft higher.

AVERAGE DISCHARGE.--41 years (1922-23, 1932-72), 15.1 cfs (10,940 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 89 cfs Mar. 13 (gage height, 3.10 ft); maximum gage height, 3.96 ft Feb. 3 (ice jam); minimum discharge 2.7 cfs Dec. 28, Jan. 3.

Period of record: Maximum discharge, 470 cfs Aug. 1, 1933 (gage height, 5.26 ft), from rating curve extended above 230 cfs; minimum observed, 0.10 cfs Aug. 4, 1930, Aug. 1, Sept. 12, 28, 1934. Probably no flow at times Sept. 1-19, 1931. Maximum stage, 6.0 ft (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 1971 TO SEPTEMBER 1972

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1           | 11    | 9.2      | 9.8   | 11    | 10    | 47    | 33    | 36    | 70    | 13     | 6.1   | 5.9   |
| 2           | 11    | 8.9      | 9.8   | 9.0   | 10    | 70    | 34    | 34    | 66    | 12     | 5.7   | 5.7   |
| 3           | 11    | 9.2      | 14    | 5.5   | 10    | 72    | 35    | 37    | 63    | 12     | 5.5   | 5.7   |
| 4           | 11    | 9.2      | 13    | 5.5   | 10    | 74    | 37    | 42    | 63    | 15     | 5.5   | 5.9   |
| 5           | 12    | 9.2      | 12    | 5.5   | 10    | 74    | 44    | 47    | 56    | 17     | 5.5   | 6.1   |
| 6           | 12    | 8.1      | 12    | 5.5   | 10    | 75    | 46    | 49    | 54    | 15     | 5.5   | 6.3   |
| 7           | 12    | 9.5      | 10    | 5.2   | 10    | 80    | 47    | 51    | 59    | 15     | 5.1   | 6.1   |
| 8           | 12    | 9.2      | 8.1   | 5.2   | 10    | 78    | 46    | 51    | 59    | 14     | 4.7   | 5.9   |
| 9           | 11    | 8.4      | 9.0   | 5.0   | 10    | 78    | 45    | 50    | 69    | 14     | 5.3   | 5.5   |
| 10          | 11    | 8.4      | 10    | 5.0   | 10    | 83    | 45    | 47    | 63    | 13     | 5.5   | 5.7   |
| 11          | 10    | 8.4      | 10    | 5.0   | 10    | 87    | 43    | 46    | 41    | 13     | 5.1   | 5.9   |
| 12          | 9.8   | 9.5      | 10    | 5.0   | 10    | 87    | 42    | 45    | 35    | 13     | 4.9   | 6.1   |
| 13          | 9.5   | 9.5      | 10    | 5.0   | 10    | 87    | 38    | 47    | 43    | 13     | 4.9   | 6.1   |
| 14          | 9.5   | 9.5      | 10    | 5.0   | 10    | 83    | 34    | 52    | 42    | 13     | 5.1   | 5.9   |
| 15          | 9.2   | 9.5      | 10    | 5.0   | 10    | 79    | 33    | 54    | 42    | 11     | 5.1   | 5.9   |
| 16          | 9.2   | 8.1      | 9.0   | 5.0   | 10    | 78    | 33    | 62    | 39    | 10     | 5.1   | 5.5   |
| 17          | 10    | 9.2      | 9.0   | 6.0   | 10    | 80    | 32    | 70    | 35    | 9.5    | 5.1   | 5.5   |
| 18          | 11    | 9.5      | 9.0   | 8.0   | 11    | 87    | 30    | 62    | 32    | 7.8    | 4.9   | 5.5   |
| 19          | 11    | 8.4      | 9.0   | 10    | 12    | 82    | 30    | 53    | 31    | 7.8    | 4.7   | 5.5   |
| 20          | 9.8   | 8.9      | 9.0   | 15    | 13    | 75    | 30    | 49    | 29    | 7.8    | 4.4   | 5.7   |
| 21          | 9.8   | 8.9      | 10    | 25    | 14    | 72    | 28    | 53    | 28    | 7.8    | 5.1   | 5.9   |
| 22          | 9.8   | 8.9      | 11    | 45    | 15    | 69    | 28    | 47    | 28    | 7.8    | 5.1   | 5.7   |
| 23          | 9.8   | 8.7      | 11    | 45    | 15    | 64    | 30    | 43    | 28    | 7.8    | 5.1   | 5.7   |
| 24          | 9.5   | 9.2      | 11    | 40    | 16    | 59    | 34    | 43    | 27    | 7.5    | 5.1   | 5.9   |
| 25          | 9.2   | 9.2      | 11    | 30    | 17    | 56    | 34    | 45    | 25    | 7.5    | 5.1   | 6.1   |
| 26          | 9.2   | 9.5      | 11    | 20    | 16    | 50    | 32    | 47    | 24    | 7.3    | 5.3   | 7.0   |
| 27          | 8.9   | 11       | 10    | 15    | 25    | 45    | 31    | 49    | 22    | 7.3    | 5.5   | 12    |
| 28          | 8.1   | 10       | 9.2   | 14    | 31    | 42    | 35    | 51    | 18    | 7.3    | 5.5   | 8.7   |
| 29          | 7.0   | 11       | 12    | 12    | 45    | 40    | 41    | 57    | 17    | 7.0    | 5.9   | 7.3   |
| 30          | 10    | 12       | 12    | 11    | ----- | 37    | 39    | 59    | 13    | 6.7    | 5.9   | 7.0   |
| 31          | 9.5   | -----    | 12    | 10    | ----- | 35    | ----- | 63    | ----- | 6.5    | 5.9   | ----- |
| TOTAL       | 313.8 | 278.2    | 322.9 | 398.4 | 400   | 2,125 | 1,089 | 1,541 | 1,221 | 326.4  | 163.2 | 187.7 |
| MEAN        | 10.1  | 9.27     | 10.4  | 12.9  | 13.8  | 68.5  | 36.3  | 49.7  | 40.7  | 10.5   | 5.26  | 6.26  |
| MAX         | 12    | 12       | 14    | 45    | 45    | 87    | 47    | 70    | 70    | 17     | 6.1   | 12    |
| MIN         | 7.0   | 8.1      | 8.1   | 5.0   | 10    | 35    | 28    | 34    | 13    | 6.5    | 4.4   | 5.5   |
| AC-FT       | 622   | 552      | 640   | 790   | 793   | 4,210 | 2,160 | 3,060 | 2,420 | 647    | 324   | 372   |
| CAL YR 1971 | TOTAL | 10,656.1 | MEAN  | 29.2  | MAX   | 191   | MIN   | 4.1   | AC-FT | 21,140 |       |       |
| WTR YR 1972 | TOTAL | 8,366.6  | MEAN  | 22.9  | MAX   | 87    | MIN   | 4.4   | AC-FT | 16,600 |       |       |



## GOOSE CREEK BASIN

13082500 Goose Creek above Trapper Creek, near Oakley, Idaho

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 mile upstream from maximum flow line of Oakley Reservoir, 5 miles upstream from Trapper Creek, 5 miles south of Oakley Dam, and 9 miles southwest of Oakley.

DRAINAGE AREA.--633 sq mi. Mean altitude, 6,030 ft.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft (by barometer). Prior to Aug. 29, 1912, at site 200 ft downstream at different datum.

AVERAGE DISCHARGE.--58 years, 45.2 cfs (32,750 acre-ft per year); 15-year base period (1952-67), 38.0 cfs.

EXTREMES.--Current year: Maximum discharge, 354 cfs May 19 (gage height, 3.88 ft) caused by breakup of ice jam upstream; minimum, 3.9 cfs Oct. 29 (gage height, 1.17 ft).  
Period of record: Maximum discharge, 3,240 cfs Feb. 11, 1962 (gage height, 9.3 ft), from rating curve extended above 200 cfs 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.

REMARKS.--Records good except those for December and January, which are fair. Decreed water rights are reported to apply to about 2,700 acres above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage discharged into the channel during 1961-64. Pumps were not operated during the current year. Practically entire flow passing station is stored in Oakley Reservoir (sta. 13083500).

REVISIONS.--WSP 1567: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT            | NOV   | DEC   | JAN       | FEB       | MAR     | APR          | MAY    | JUN   | JUL   | AUG  | SEP   |
|-------------|----------------|-------|-------|-----------|-----------|---------|--------------|--------|-------|-------|------|-------|
| 1           | 18             | 29    | 38    | 29        | 39        | 70      | 115          | 185    | 185   | 29    | 20   | 12    |
| 2           | 21             | 30    | 27    | 33        | 43        | 77      | 115          | 191    | 194   | 27    | 19   | 12    |
| 3           | 24             | 30    | 30    | 29        | 48        | 125     | 123          | 187    | 194   | 28    | 19   | 13    |
| 4           | 25             | 32    | 27    | 22        | 38        | 119     | 136          | 185    | 187   | 29    | 18   | 14    |
| 5           | 25             | 29    | 33    | 24        | 29        | 102     | 147          | 194    | 179   | 28    | 19   | 13    |
| 6           | 24             | 24    | 37    | 29        | 32        | 100     | 154          | 210    | 173   | 26    | 17   | 15    |
| 7           | 24             | 24    | 30    | 33        | 38        | 100     | 162          | 231    | 151   | 21    | 16   | 16    |
| 8           | 23             | 27    | 40    | 33        | 45        | 98      | 171          | 251    | 154   | 17    | 15   | 18    |
| 9           | 23             | 29    | 23    | 33        | 46        | 99      | 176          | 265    | 192   | 18    | 14   | 18    |
| 10          | 23             | 32    | 33    | 31        | 55        | 104     | 179          | 287    | 176   | 18    | 13   | 18    |
| 11          | 23             | 29    | 34    | 34        | 54        | 111     | 185          | 297    | 153   | 19    | 13   | 19    |
| 12          | 22             | 30    | 32    | 36        | 40        | 116     | 198          | 289    | 136   | 17    | 13   | 19    |
| 13          | 22             | 32    | 30    | 34        | 50        | 123     | 198          | 282    | 129   | 9.7   | 13   | 20    |
| 14          | 23             | 35    | 27    | 33        | 59        | 133     | 183          | 275    | 118   | 7.1   | 15   | 20    |
| 15          | 23             | 35    | 26    | 32        | 51        | 139     | 171          | 282    | 111   | 12    | 15   | 19    |
| 16          | 23             | 32    | 28    | 28        | 69        | 144     | 158          | 294    | 101   | 12    | 16   | 18    |
| 17          | 24             | 32    | 32    | 33        | 73        | 148     | 153          | 312    | 100   | 10    | 15   | 18    |
| 18          | 25             | 30    | 32    | 53        | 77        | 159     | 151          | 317    | 98    | 8.1   | 15   | 18    |
| 19          | 25             | 28    | 26    | 69        | 79        | 167     | 148          | 335    | 89    | 7.3   | 15   | 20    |
| 20          | 24             | 30    | 27    | 70        | 81        | 173     | 147          | 340    | 86    | 7.5   | 14   | 20    |
| 21          | 24             | 35    | 29    | 70        | 86        | 167     | 145          | 348    | 80    | 8.5   | 13   | 20    |
| 22          | 24             | 33    | 34    | 69        | 84        | 167     | 144          | 330    | 75    | 11    | 13   | 19    |
| 23          | 24             | 31    | 37    | 68        | 77        | 174     | 145          | 309    | 74    | 17    | 13   | 20    |
| 24          | 24             | 31    | 39    | 69        | 73        | 179     | 148          | 287    | 74    | 19    | 13   | 19    |
| 25          | 24             | 31    | 40    | 70        | 67        | 191     | 159          | 251    | 74    | 21    | 12   | 20    |
| 26          | 24             | 32    | 39    | 72        | 63        | 178     | 171          | 222    | 73    | 23    | 11   | 20    |
| 27          | 25             | 37    | 31    | 72        | 69        | 153     | 173          | 210    | 68    | 25    | 11   | 21    |
| 28          | 25             | 38    | 33    | 59        | 84        | 142     | 169          | 206    | 60    | 22    | 10   | 24    |
| 29          | 21             | 39    | 32    | 47        | 79        | 139     | 167          | 198    | 52    | 20    | 10   | 25    |
| 30          | 27             | 38    | 36    | 44        | -----     | 129     | 173          | 200    | 43    | 19    | 10   | 25    |
| 31          | 26             | ----- | 30    | 54        | -----     | 119     | -----        | 192    | ----- | 19    | 11   | ----- |
| TOTAL       | 732            | 944   | 992   | 1,412     | 1,728     | 4,145   | 4,764        | 7,962  | 3,579 | 555.2 | 441  | 553   |
| MEAN        | 23.6           | 31.5  | 32.0  | 45.5      | 59.6      | 134     | 159          | 257    | 119   | 17.9  | 14.2 | 18.4  |
| MAX         | 27             | 39    | 40    | 72        | 86        | 191     | 198          | 348    | 194   | 29    | 20   | 25    |
| MIN         | 18             | 24    | 23    | 22        | 29        | 70      | 115          | 185    | 43    | 7.1   | 10   | 12    |
| AC-FT       | 1,450          | 1,870 | 1,970 | 2,800     | 3,430     | 8,220   | 9,450        | 15,790 | 7,100 | 1,100 | 875  | 1,100 |
| CAL YR 1971 | TOTAL 31,709.0 |       |       | MEAN 86.9 | MAX 1,410 | MIN 11  | AC-FT 62,890 |        |       |       |      |       |
| WTR YR 1972 | TOTAL 27,807.2 |       |       | MEAN 76.0 | MAX 348   | MIN 7.1 | AC-FT 55,160 |        |       |       |      |       |

## SALMON FALLS CREEK BASIN

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13105000 Salmon Falls Creek near San Jacinto, Nev.

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 downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 miles north of San Jacinto.

DRAINAGE AREA.--1,450 sq mi, approximately. Mean altitude, 6,350 ft.

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (by barometer). Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

AVERAGE DISCHARGE.--60 years (1910-16, 1918-72), 137 cfs (99,260 acre-ft per year); 15-year base period (1952-67), 123 cfs.

EXTREMES.--Current year: Maximum discharge, 1,130 cfs Mar. 24 (gage height, 8.12 ft); minimum, 11 cfs Aug. 29 (gage height, 3.85 ft).

Period of record: Maximum discharge, 1,970 cfs Feb. 12, 1962 (gage height, 12.65 ft, 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 Sept. 4, 1961 (gage height, 3.37 ft).

REMARKS.--Records good except those for August, which are fair. Diversions above station for irrigation of about 18,200 acres (1966 determination). Salmon Dam of Salmon River Canal Co. is 15 miles downstream (see sta 13106500).

REVISIONS (WATER YEARS).--WSP 1934: 1943(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 76    | 67    | 81    | 61    | 93    | 182    | 396    | 515    | 566    | 120   | 49    | 31    |
| 2     | 77    | 66    | 74    | 68    | 81    | 161    | 419    | 472    | 613    | 112   | 44    | 35    |
| 3     | 75    | 67    | 70    | 61    | 75    | 241    | 560    | 446    | 626    | 109   | 38    | 40    |
| 4     | 74    | 67    | 73    | 46    | 79    | 292    | 596    | 467    | 626    | 104   | 32    | 47    |
| 5     | 73    | 67    | 76    | 50    | 91    | 256    | 609    | 539    | 600    | 101   | 33    | 48    |
| 6     | 73    | 65    | 76    | 64    | 93    | 295    | 656    | 643    | 558    | 97    | 31    | 49    |
| 7     | 71    | 62    | 90    | 68    | 94    | 319    | 697    | 790    | 532    | 90    | 28    | 51    |
| 8     | 70    | 64    | 44    | 68    | 94    | 337    | 795    | 858    | 596    | 85    | 25    | 46    |
| 9     | 69    | 66    | 59    | 68    | 93    | 370    | 750    | 852    | 660    | 82    | 26    | 45    |
| 10    | 69    | 67    | 55    | 66    | 86    | 477    | 730    | 820    | 584    | 80    | 27    | 48    |
| 11    | 68    | 67    | 65    | 69    | 83    | 571    | 735    | 755    | 502    | 78    | 24    | 54    |
| 12    | 68    | 72    | 64    | 72    | 94    | 636    | 735    | 692    | 454    | 72    | 22    | 65    |
| 13    | 66    | 78    | 57    | 67    | 95    | 742    | 702    | 656    | 405    | 67    | 23    | 63    |
| 14    | 66    | 80    | 60    | 61    | 95    | 798    | 617    | 669    | 365    | 62    | 26    | 57    |
| 15    | 66    | 73    | 67    | 58    | 95    | 831    | 565    | 692    | 351    | 58    | 24    | 53    |
| 16    | 69    | 70    | 68    | 56    | 110   | 828    | 510    | 706    | 347    | 53    | 24    | 52    |
| 17    | 75    | 69    | 66    | 58    | 127   | 839    | 500    | 711    | 331    | 53    | 23    | 48    |
| 18    | 75    | 67    | 58    | 89    | 135   | 917    | 489    | 745    | 336    | 50    | 21    | 49    |
| 19    | 74    | 65    | 54    | 241   | 136   | 990    | 481    | 750    | 320    | 47    | 20    | 51    |
| 20    | 72    | 66    | 58    | 255   | 139   | 909    | 471    | 660    | 286    | 52    | 20    | 52    |
| 21    | 69    | 70    | 66    | 207   | 151   | 816    | 449    | 626    | 263    | 54    | 19    | 54    |
| 22    | 68    | 71    | 73    | 197   | 148   | 780    | 465    | 588    | 243    | 53    | 19    | 51    |
| 23    | 67    | 72    | 77    | 162   | 134   | 840    | 465    | 519    | 228    | 47    | 18    | 53    |
| 24    | 67    | 70    | 80    | 126   | 125   | 982    | 488    | 463    | 229    | 45    | 16    | 53    |
| 25    | 67    | 72    | 83    | 123   | 117   | 820    | 565    | 419    | 221    | 44    | 17    | 55    |
| 26    | 68    | 74    | 82    | 122   | 110   | 665    | 565    | 403    | 210    | 43    | 13    | 56    |
| 27    | 69    | 80    | 65    | 116   | 117   | 345    | 520    | 407    | 194    | 40    | 12    | 61    |
| 28    | 69    | 83    | 67    | 100   | 180   | 499    | 473    | 425    | 167    | 41    | 12    | 62    |
| 29    | 63    | 83    | 65    | 77    | 215   | 461    | 468    | 448    | 144    | 41    | 12    | 58    |
| 30    | 61    | 82    | 75    | 82    | ----- | 416    | 528    | 485    | 132    | 42    | 14    | 60    |
| 31    | 65    | ----- | 62    | 83    | ----- | 398    | -----  | 538    | -----  | 45    | 22    | ----- |
| TOTAL | 2,159 | 2,122 | 2,110 | 3,041 | 3,285 | 18,213 | 16,999 | 18,759 | 11,689 | 2,067 | 734   | 1,547 |
| MEAN  | 69.6  | 70.7  | 68.1  | 98.1  | 113   | 588    | 567    | 605    | 390    | 66.7  | 23.7  | 51.6  |
| MAX   | 77    | 83    | 90    | 255   | 215   | 990    | 795    | 858    | 660    | 120   | 49    | 65    |
| MIN   | 61    | 62    | 44    | 46    | 75    | 161    | 396    | 403    | 132    | 40    | 12    | 31    |
| AC-FT | 4,280 | 4,210 | 4,190 | 6,030 | 6,520 | 36,130 | 33,720 | 37,210 | 23,190 | 4,100 | 1,460 | 3,070 |

CAL YR 1971 TOTAL 98,671 MEAN 270 MAX 1,330 MIN 32 AC-FT 195,700  
WTR YR 1972 TOTAL 82,725 MEAN 226 MAX 990 MIN 12 AC-FT 164,100

## SALMON FALLS CREEK BASIN

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 miles west of Rogerson, and at mile 46.0.

DRAINAGE AREA.--1,610 sq mi, approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft above mean sea level.

EXTREMES.--Current year: Maximum contents observed, 158,000 acre-ft June 15 (gage height, 72.52 ft); minimum observed, 76,400 acre-ft Oct. 3 (gage height, 42.85 ft).

Period of record: Maximum contents observed, 158,000 acre-ft June 15 1972 (gage height, 72.52 ft); minimum observed, 125 acre-ft Sept. 21 to Oct. 5, 1934 (gage height, 0.1 ft).

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (maximum operating level). Dead storage, 48,000 acre-ft. 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)

|      |        |      |         |
|------|--------|------|---------|
| 18.3 | 27,100 | 50.0 | 93,800  |
| 20.0 | 30,000 | 60.0 | 120,600 |
| 30.0 | 48,800 | 70.0 | 150,000 |
| 40.0 | 69,800 | 72.0 | 156,300 |

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT         | NOV        | DEC         | JAN    | FEB    | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP    |
|-------------|-------------|------------|-------------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 1           | 76,600      | 76,900     | 78,500      | 79,500 | 85,000 | 89,500  | 121,500 | 148,900 | 157,100 | 151,600 | 118,300 | 92,700 |
| 2           | 76,500      | 76,900     |             |        | 85,200 | 89,900  | 122,000 | 149,400 | 157,100 | 150,800 | 117,300 | 92,000 |
| 3           | 76,400      | 76,900     | 78,600      | 79,800 | 85,300 | 90,400  | 122,900 | 149,800 | 157,100 | 149,800 | 116,300 | 91,500 |
| 4           | 76,500      | 77,000     |             |        | 85,300 | 90,800  | 123,900 | 150,200 | 157,200 | 148,900 | 115,300 | 91,100 |
| 5           | 76,500      | 77,000     | 78,800      |        | 85,400 | 91,200  | 124,800 | 150,500 | 157,300 | 148,000 | 114,400 | 90,600 |
| 6           |             | 77,000     |             | 79,900 | 85,400 | 91,900  | 125,700 | 150,900 | 157,300 | 146,900 | 113,500 | 90,100 |
| 7           |             | 77,000     |             |        | 85,500 | 92,300  | 126,800 | 151,600 | 157,200 | 145,800 | 112,700 | 89,900 |
| 8           |             | 77,000     |             | 80,000 | 85,600 | 92,900  | 126,800 | 152,000 | 157,200 | 144,900 | 111,800 | 89,800 |
| 9           | 76,600      | 77,000     |             |        | 85,800 | 93,400  | 129,200 | 152,800 | 157,400 | 143,600 | 110,900 | 89,800 |
| 10          |             | 77,100     | 78,900      |        | 85,900 | 94,100  | 130,500 | 153,600 | 157,600 | 142,400 | 110,000 |        |
| 11          |             | 77,100     |             | 80,100 | 86,000 | 94,800  | 131,800 | 154,100 | 157,700 | 141,300 | 109,100 | 89,900 |
| 12          |             | 77,200     |             |        | 86,000 | 96,000  | 132,900 | 154,600 | 157,800 | 140,100 | 108,200 |        |
| 13          |             | 77,200     |             | 80,200 | 86,100 | 97,100  | 134,100 | 155,000 | 157,800 | 138,900 | 107,300 |        |
| 14          |             | 77,400     |             | 80,400 | 86,200 | 98,300  | 135,100 | 155,500 | 157,900 | 137,800 | 106,300 |        |
| 15          | 76,600      | 77,400     |             |        | 86,400 | 99,700  | 136,100 | 155,800 | 158,000 | 136,700 | 105,500 |        |
| 16          |             | 77,400     |             |        | 86,400 | 101,000 | 137,200 | 156,300 | 157,800 | 135,400 | 104,600 |        |
| 17          |             | 77,400     |             | 80,500 | 86,600 | 102,300 | 137,900 | 156,600 | 157,700 | 134,100 | 103,800 |        |
| 18          | 76,800      | 77,600     | 79,000      | 80,600 | 86,900 | 104,000 | 138,800 | 156,800 | 157,500 | 133,100 | 103,000 |        |
| 19          |             | 77,700     |             | 81,000 | 87,000 | 105,400 | 139,400 | 157,100 | 157,400 | 131,800 | 102,200 |        |
| 20          | 76,700      | 77,700     |             | 81,700 | 87,200 | 106,800 | 140,300 | 157,400 | 157,300 | 130,600 | 101,400 |        |
| 21          |             | 77,800     |             | 82,800 | 87,400 | 108,600 | 141,000 | 157,700 | 156,900 | 129,600 | 100,500 | 89,800 |
| 22          | 76,900      | 77,800     |             | 83,100 | 87,600 | 110,100 | 141,600 | 157,900 | 156,600 | 128,600 | 99,700  | 89,800 |
| 23          |             | 77,900     | 79,200      | 83,700 | 87,900 | 111,200 | 142,400 | 157,900 | 156,200 | 127,400 | 99,000  |        |
| 24          |             | 77,900     |             | 84,100 | 88,100 | 112,800 | 143,200 | 157,900 | 155,700 | 126,200 | 98,200  | 89,700 |
| 25          |             | 77,900     | 79,300      | 84,400 | 88,400 | 114,400 | 144,000 | 157,900 | 155,200 | 125,100 | 97,400  | 89,600 |
| 26          |             | 77,900     | 79,400      |        | 88,500 | 115,800 | 144,800 | 157,900 | 154,800 | 124,300 | 96,600  |        |
| 27          |             | 78,100     |             | 84,700 | 88,600 | 117,200 | 145,800 | 157,700 | 154,300 | 123,300 | 95,800  |        |
| 28          |             | 78,400     |             | 84,700 | 88,900 | 118,300 | 146,900 | 157,600 | 153,900 | 122,300 | 95,100  |        |
| 29          |             | 78,400     |             | 84,800 | 89,100 | 119,100 | 147,700 | 157,400 | 153,300 | 121,400 | 94,400  |        |
| 30          |             | 78,500     | 79,500      | 84,900 | -----  | 120,000 | 148,400 | 157,300 | 152,500 | 120,200 | 93,800  | 89,600 |
| 31          | 76,900      | -----      | 79,500      | 85,000 | -----  | 120,800 | -----   | 157,100 | -----   | 119,200 | 93,200  | -----  |
| MAX         |             | 78,500     |             |        | 89,100 | 120,800 | 148,400 | 157,900 | 158,000 | 151,600 | 118,300 |        |
| MIN         |             | 76,900     |             |        | 85,000 | 89,500  | 121,500 | 148,900 | 152,500 | 119,200 | 93,200  |        |
| (†)         | 43.05       | 43.75      | 44.20       | 46.50  | 48.15  | 60.05   | 69.50   | 72.25   | 70.80   | 59.50   | 49.75   | 48.35  |
| (‡)         | -200        | +1,600     | +1,000      | +5,500 | +4,100 | +31,700 | +27,600 | +8,700  | -4,600  | -33,300 | -26,000 | -3,600 |
| CAL YR 1971 | MAX 143,200 | MIN 34,400 | (‡) +45,200 |        |        |         |         |         |         |         |         |        |
| WTR YR 1972 | MAX 158,000 | MIN 76,400 | (‡) +12,500 |        |        |         |         |         |         |         |         |        |

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

‡ Change in contents, in acre-feet.

## BRUNEAU RIVER BASIN

165

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 miles upstream from McDonald Creek and 0.5 mile south of Rowland.

DRAINAGE AREA.--382 sq mi. Area at crest-stage site, 380 sq mi.

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 (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 miles upstream at different datum.

AVERAGE DISCHARGE.--11 years, 122 cfs (88,390 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 905 cfs Mar 14 (gage height, 6.70 ft); minimum daily, about 12 cfs about Aug. 26.  
Period of record: Maximum discharge, 2,120 cfs Feb. 11, 1962 (gage height, 13.0 ft, site and datum then in use); minimum, 5 cfs Aug. 12, 13, 1918.

REMARKS.--Records good except those for winter months, or no gage-height record, which are poor. Minor diversions for irrigation above station.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 40    | 35    | 40    | 36    | 58    | 149    | 337    | 378    | 436    | 87    | 25    | 16    |
| 2     | 41    | 33    | 32    | 38    | 55    | 217    | 400    | 390    | 436    | 78    | 24    | 18    |
| 3     | 40    | 34    | 45    | 33    | 53    | 480    | 419    | 433    | 419    | 77    | 23    | 19    |
| 4     | 40    | 36    | 44    | 27    | 55    | 448    | 438    | 505    | 402    | 71    | 23    | 20    |
| 5     | 40    | 37    | 40    | 28    | 60    | 675    | 485    | 582    | 373    | 66    | 22    | 25    |
| 6     | 40    | 32    | 50    | 30    | 65    | 608    | 562    | 610    | 468    | 65    | 21    | 24    |
| 7     | 38    | 36    | 32    | 32    | 65    | 690    | 550    | 630    | 482    | 59    | 19    | 23    |
| 8     | 38    | 38    | 30    | 34    | 63    | 632    | 505    | 628    | 498    | 52    | 18    | 20    |
| 9     | 37    | 39    | 33    | 35    | 62    | 650    | 492    | 585    | 443    | 50    | 20    | 17    |
| 10    | 37    | 40    | 33    | 37    | 52    | 720    | 488    | 545    | 397    | 50    | 22    | 20    |
| 11    | 37    | 40    | 34    | 40    | 54    | 790    | 455    | 512    | 352    | 49    | 22    | 25    |
| 12    | 36    | 41    | 35    | 42    | 56    | 740    | 448    | 502    | 311    | 48    | 17    | 32    |
| 13    | 36    | 44    | 32    | 40    | 56    | 768    | 433    | 512    | 276    | 43    | 16    | 28    |
| 14    | 36    | 44    | 31    | 38    | 55    | 862    | 400    | 525    | 252    | 40    | 16    | 28    |
| 15    | 36    | 44    | 32    | 36    | 56    | 800    | 390    | 542    | 241    | 39    | 17    | 26    |
| 16    | 38    | 40    | 33    | 35    | 57    | 778    | 381    | 558    | 230    | 37    | 16    | 24    |
| 17    | 40    | 34    | 31    | 36    | 59    | 815    | 357    | 562    | 217    | 37    | 16    | 23    |
| 18    | 39    | 33    | 30    | 40    | 57    | 855    | 335    | 535    | 206    | 36    | 15    | 22    |
| 19    | 39    | 32    | 29    | 45    | 60    | 755    | 321    | 492    | 192    | 34    | 15    | 22    |
| 20    | 40    | 35    | 30    | 65    | 67    | 672    | 304    | 453    | 175    | 34    | 15    | 24    |
| 21    | 43    | 40    | 37    | 111   | 75    | 668    | 309    | 448    | 164    | 34    | 14    | 24    |
| 22    | 44    | 40    | 50    | 164   | 89    | 712    | 325    | 412    | 153    | 34    | 14    | 24    |
| 23    | 41    | 40    | 55    | 203   | 89    | 742    | 342    | 376    | 149    | 33    | 13    | 25    |
| 24    | 41    | 41    | 54    | 147   | 92    | 622    | 383    | 347    | 143    | 29    | 13    | 24    |
| 25    | 40    | 43    | 50    | 135   | 87    | 592    | 385    | 333    | 135    | 27    | 13    | 24    |
| 26    | 40    | 44    | 49    | 117   | 81    | 488    | 357    | 330    | 129    | 26    | 12    | 24    |
| 27    | 40    | 56    | 28    | 101   | 95    | 443    | 352    | 337    | 117    | 25    | 13    | 26    |
| 28    | 38    | 49    | 30    | 90    | 121   | 419    | 393    | 354    | 108    | 25    | 15    | 30    |
| 29    | 30    | 49    | 35    | 75    | 157   | 383    | 448    | 381    | 99     | 24    | 17    | 30    |
| 30    | 32    | 48    | 37    | 64    | ----- | 345    | 400    | 405    | 91     | 24    | 18    | 29    |
| 31    | 36    | ----- | 35    | 60    | ----- | 330    | -----  | 417    | -----  | 24    | 17    | ----- |
| TOTAL | 1,193 | 1,197 | 1,156 | 2,014 | 2,051 | 18,848 | 12,194 | 14,619 | 8,094  | 1,357 | 541   | 716   |
| MEAN  | 38.5  | 39.9  | 37.3  | 65.0  | 70.7  | 608    | 406    | 472    | 270    | 43.8  | 17.5  | 23.9  |
| MAX   | 44    | 56    | 55    | 203   | 157   | 862    | 562    | 630    | 498    | 87    | 25    | 32    |
| MIN   | 30    | 32    | 28    | 27    | 52    | 149    | 304    | 330    | 91     | 24    | 12    | 16    |
| AC-FT | 2,370 | 2,370 | 2,290 | 3,990 | 4,070 | 37,390 | 24,190 | 29,000 | 16,050 | 2,690 | 1,070 | 1,420 |

CAL YR 1971 TOTAL 69,884 MEAN 191 MAX 1,200 MIN 26 AC-FT 138,600  
WTR YR 1972 TOTAL 63,980 MEAN 175 MAX 862 MIN 12 AC-FT 126,900

## PEAK DISCHARGE (BASE, 200 CFS)

Note.--No gage-height record July 27 to Sept. 11.

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 1-23 | 0600 | 3.93  | 223       | 5-08 | 0100 | 5.70  | 655       |
| 3-14 | 0900 | 6.70  | 905       | 6-08 | 0400 | 5.39  | 578       |
| 4-06 | 2100 | unkn  | 620       |      |      |       |           |

13174000 Wild Horse Reservoir near Gold Creek, Nev.

LOCATION.--Lat 41°41'10", long 115°51'20", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.25, T.44 N., R.54 E., Elko County, at Wild Horse Dam on Owyhee River, 8 miles west of Gold Creek, and 12 miles southeast of Mountain City.

DRAINAGE AREA.--209 sq mi.

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 Mar. 30, May 7 (elevation, 6,205.8 ft); minimum observed, 51,250 acre-ft Mar. 3, 4 (elevation, 6,197.5 ft)  
Period of record: Maximum contents observed, 74,750 acre-ft May 7, 9, 14, 1971 (elevation, 6,206.0 ft); 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 between elevations 6,138.50 (sill of outlet gate) and 6,205.00 ft (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.

## CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN    | JUL      | AUG      | SEP      |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|--------|----------|----------|----------|
| 1   | 55,480   |          |          |          |          |          |          |          |        |          |          | 54,970   |
| 2   |          | 55,480   |          |          |          |          |          |          |        |          |          |          |
| 3   |          |          |          |          |          | 51,250   |          |          |        | 64,910   |          |          |
| 4   |          |          |          |          | 58,610   | 51,250   |          |          |        |          |          |          |
| 5   |          |          |          |          |          |          |          |          |        |          |          |          |
| 6   |          |          |          |          |          |          |          |          |        |          |          |          |
| 7   |          |          |          | 58,080   |          | 54,220   |          | 74,130   |        |          | 63,780   |          |
| 8   | 55,480   |          |          |          |          |          |          |          |        |          |          | 55,740   |
| 9   |          |          |          |          |          |          |          |          |        |          |          |          |
| 10  |          |          |          |          |          |          |          |          |        | 68,380   |          |          |
| 11  |          |          |          |          | 57,030   |          |          |          |        |          | 62,940   |          |
| 12  |          |          |          |          |          | 59,930   |          |          |        |          |          |          |
| 13  |          |          | 57,290   |          |          |          |          |          |        |          |          | 54,970   |
| 14  | 55,480   |          |          |          |          |          |          |          |        | 68,090   |          | 53,970   |
| 15  |          |          |          |          |          |          |          |          |        |          |          |          |
| 16  |          |          |          |          |          |          |          |          |        |          |          |          |
| 17  |          |          |          |          |          |          |          |          |        | 65,760   |          |          |
| 18  |          |          |          |          |          |          |          |          |        |          | 61,290   |          |
| 19  |          | 56,000   |          |          | 55,480   |          |          |          |        |          |          |          |
| 20  |          |          |          |          |          |          |          |          |        |          |          |          |
| 21  |          |          |          | 58,080   |          |          |          |          |        |          |          |          |
| 22  |          | 56,000   |          |          |          |          |          |          |        |          |          | 54,470   |
| 23  |          |          |          |          |          | 71,970   |          |          |        |          |          |          |
| 24  |          |          |          | 58,340   |          |          |          |          |        |          |          |          |
| 25  |          |          |          |          | 52,970   |          |          |          |        | 66,050   | 59,670   | 54,220   |
| 26  | 55,480   | 56,000   |          |          |          |          | 73,820   | 73,510   | 71,970 |          |          |          |
| 27  |          |          |          |          |          |          |          |          |        |          |          |          |
| 28  |          |          |          |          |          | 51,740   |          |          |        |          | 58,870   |          |
| 29  | 55,480   |          |          |          | a 51,560 |          |          |          |        |          |          | 53,970   |
| 30  |          | a 56,300 |          |          | -----    | 74,130   | a 73,930 |          | 71,060 |          |          | a 53,970 |
| 31  | a 55,480 | -----    | a 57,860 | a 58,510 | -----    | a 74,120 | -----    | a 73,260 | -----  | a 65,290 | a 55,940 | -----    |
| (+) | 0        | +820     | +1,560   | +650     | -6,950   | +22,560  | -190     | -670     | -2,200 | -5,770   | -9,350   | -1,970   |

CALENDAR YEAR 1971 . . . . . +21,660

WATER YEAR 1971-72 . . . . . + -1,510

+ Change in contents, in acre-feet.

a No gage-height record; contents interpolated.



OWYHEE RIVER BASIN

167

13174500 Owyhee River near Gold Creek, Nev.

LOCATION.--Lat 41°41'20", long 115°50'38", in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 25, T. 44 N., R. 54 E., Elko County, on left bank 500 ft downstream from Wild Horse Dam, 0.1 mile upstream from Beaver Creek, 8 miles west of Gold Creek, and 12 miles southeast of Mountain City.

DRAINAGE AREA.--209 sq mi.

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 (Bureau of Reclamation datum). Prior to Oct. 1, 1936, at site 0.3 mile upstream at differend datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mile upstream at differend datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage 250 ft downstream at different datum (while new dam was being constructed 300 ft downstream from old dam).

AVERAGE DISCHARGE.--44 years (1917-25, 1936-72), 41.2 cfs (29,850 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 352 cfs Apr. 8 (gage height, 2.98 ft); no flow at times during winter months. Period of record: Maximum discharge, 1,810 cfs May 5, 1922 (gage height, 10.11 ft, 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 mile upstream beginning Mar. 18, 1938.

REVISIONS (WATER YEARS).--WSP 1317: 1939-42 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY         | OCT             | NOV   | DEC | JAN       | FEB     | MAR      | APR          | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-----------------|-------|-----|-----------|---------|----------|--------------|-------|-------|-------|-------|-------|
| 1           | 11              |       |     | 0         | 71      | 222      | 180          | 139   | 78    | 146   | 35    | 144   |
| 2           | 11              |       |     | 0         | 71      | 222      | 202          | 136   | 75    | 146   | 35    | 146   |
| 3           | 11              |       |     | 0         | 66      | 132      | 229          | 134   | 73    | 146   | 57    | 145   |
| 4           | 11              |       |     | 0         | 90      | 0        | 243          | 139   | 70    | 146   | 93    | 145   |
| 5           | 11              |       |     | 0         | 94      | 0        | 268          | 145   | 66    | 126   | 93    | 146   |
| 6           | 11              |       |     | 0         | 83      | 0        | 275          | 159   | 66    | 102   | 93    | 146   |
| 7           | 11              |       |     | 0         | 74      | 0        | 308          | 173   | 78    | 100   | 93    | 147   |
| 8           | 11              |       |     | 0         | 74      | 0        | 332          | 176   | 102   | 98    | 92    | 108   |
| 9           | 11              |       |     | 0         | 74      | 0        | 320          | 176   | 120   | 96    | 91    | 61    |
| 10          | 11              |       |     | 0         | 74      | 0        | 312          | 173   | 116   | 71    | 91    | 60    |
| 11          | 11              |       |     | 17        | 96      | 0        | 305          | 168   | 105   | 43    | 91    | 60    |
| 12          | 11              |       |     | 38        | 122     | 1.58     | 305          | 159   | 92    | 43    | 91    | 59    |
| 13          | 11              |       |     | 38        | 123     | 2.4      | 292          | 156   | 80    | 43    | 91    | 59    |
| 14          | 11              |       |     | 38        | 125     | 2.5      | 285          | 154   | 70    | 44    | 90    | 59    |
| 15          | 11              |       |     | 38        | 124     | 2.5      | 281          | 152   | 64    | 43    | 90    | 28    |
| 16          | 11              |       |     | 38        | 125     | 2.5      | 263          | 150   | 64    | 43    | 90    | 13    |
| 17          | 11              |       |     | 38        | 127     | 2.5      | 242          | 141   | 69    | 44    | 93    | 13    |
| 18          | 11              |       |     | 38        | 174     | 2.5      | 226          | 136   | 60    | 44    | 92    | 13    |
| 19          | 11              |       |     | 38        | 222     | 2.6      | 206          | 132   | 52    | 45    | 92    | 13    |
| 20          | 11              |       |     | 38        | 222     | 2.6      | 190          | 136   | 45    | 44    | 92    | 13    |
| 21          | 5.2             |       |     | 38        | 222     | 2.6      | 179          | 147   | 39    | 44    | 92    | 13    |
| 22          | 0               |       |     | 38        | 222     | 2.7      | 173          | 147   | 76    | 44    | 92    | 13    |
| 23          | 0               |       |     | 38        | 222     | 7.8      | 168          | 145   | 117   | 43    | 92    | 13    |
| 24          | 0               |       |     | 38        | 222     | 34       | 167          | 134   | 100   | 43    | 90    | 12    |
| 25          | 0               |       |     | 38        | 222     | 84       | 169          | 126   | 89    | 43    | 116   | 11    |
| 26          | 0               |       |     | 38        | 222     | 130      | 164          | 116   | 80    | 43    | 145   | 11    |
| 27          | 0               |       |     | 61        | 222     | 153      | 159          | 105   | 77    | 43    | 144   | 11    |
| 28          | 0               |       |     | 73        | 222     | 165      | 150          | 98    | 77    | 36    | 145   | 11    |
| 29          | 0               |       |     | 73        | 222     | 182      | 146          | 89    | 107   | 35    | 145   | 11    |
| 30          | 0               |       |     | 72        | -----   | 185      | 142          | 86    | 146   | 35    | 146   | 11    |
| 31          | 0               | ----- |     | 71        | -----   | 178      | -----        | 81    | ----- | 35    | 146   | ----- |
| TOTAL       | 225.2           | 0     | 0   | 937       | 4,229   | 1,720.78 | 6,881        | 4,308 | 2,453 | 2,057 | 3,038 | 1,695 |
| MEAN        | 7.26            | 0     | 0   | 30.2      | 146     | 55.5     | 229          | 139   | 81.8  | 66.4  | 98.0  | 56.5  |
| MAX         | 11              | 0     | 0   | 73        | 222     | 222      | 332          | 176   | 146   | 146   | 146   | 147   |
| MIN         | 0               | 0     | 0   | 0         | 66      | 0        | 142          | 81    | 39    | 35    | 35    | 11    |
| AC-FT       | 447             | 0     | 0   | 1,860     | 8,390   | 3,410    | 13,650       | 8,540 | 4,870 | 4,080 | 6,030 | 3,360 |
| CAJ YR 1971 | TOTAL 19,116.40 |       |     | MEAN 52.4 | MAX 256 | MIN 0    | AC-FT 37,920 |       |       |       |       |       |
| WTR YR 1972 | TOTAL 27,543.98 |       |     | MEAN 75.3 | MAX 332 | MIN 0    | AC-FT 54,630 |       |       |       |       |       |

## OWYHEE RIVER BASIN

13174900 Owyhee River at Patsville, Nev.

LOCATION.--Lat 41°48'35", long 115°57'20", in NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.12, T.45 N., R.53 E., Elko County, on left bank, 100 ft downstream from Rio Tinto Mine road (off State Highway 11-A), 0.1 mile upstream from Mill Creek, and in Patsville.

DRAINAGE AREA.--305 sq mi, approximately.

PERIOD OF RECORD.--December 1971 to September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 958 cfs Mar. 3 (gage height 7.06 ft); minimum, 8.5 cfs Dec. 27, 31; Jan. 3.

REMARKS.--Records good. Flow partly regulated by Wild Horse Reservoir.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT | NOV   | DEC | JAN   | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-----|-------|-----|-------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | -   | -     | -   | 16    | 91     | 345    | 302    | 296    | 299    | 171   | 65    | 140   |
| 2     | -   | -     | -   | 15    | 85     | 572    | 343    | 298    | 299    | 171   | 64    | 140   |
| 3     | -   | -     | -   | 11    | 87     | 888    | 372    | 316    | 292    | 168   | 72    | 142   |
| 4     | -   | -     | -   | 13    | 100    | 467    | 392    | 345    | 281    | 166   | 104   | 140   |
| 5     | -   | -     | -   | 15    | 113    | 437    | 436    | 392    | 270    | 160   | 105   | 142   |
| 6     | -   | -     | -   | 15    | 109    | 438    | 509    | 422    | 259    | 133   | 95    | 143   |
| 7     | -   | -     | -   | 16    | 106    | 383    | 512    | 451    | 295    | 122   | 96    | 143   |
| 8     | -   | -     | -   | 16    | 106    | 336    | 500    | 452    | 348    | 122   | 98    | 130   |
| 9     | -   | -     | -   | 15    | 105    | 345    | 480    | 430    | 375    | 122   | 102   | 83    |
| 10    | -   | -     | -   | 15    | 103    | 372    | 462    | 402    | 312    | 111   | 102   | 82    |
| 11    | -   | -     | -   | 14    | 111    | 359    | 442    | 389    | 277    | 73    | 102   | 85    |
| 12    | -   | -     | -   | 48    | 143    | 338    | 438    | 385    | 247    | 74    | 103   | 85    |
| 13    | -   | -     | -   | 66    | 143    | 356    | 413    | 394    | 220    | 78    | 104   | 82    |
| 14    | -   | -     | -   | 69    | 143    | 374    | 395    | 407    | 202    | 74    | 106   | 80    |
| 15    | -   | -     | -   | 75    | 143    | 338    | 379    | 418    | 189    | 77    | 106   | 68    |
| 16    | -   | -     | 22  | 75    | 144    | 329    | 370    | 416    | 180    | 77    | 105   | 36    |
| 17    | -   | -     | 21  | 76    | 154    | 339    | 343    | 407    | 179    | 78    | 108   | 35    |
| 18    | -   | -     | 19  | 90    | 177    | 343    | 323    | 396    | 171    | 84    | 108   | 34    |
| 19    | -   | -     | 18  | 114   | 242    | 303    | 305    | 375    | 152    | 83    | 106   | 34    |
| 20    | -   | -     | 18  | 143   | 255    | 262    | 293    | 367    | 130    | 80    | 108   | 34    |
| 21    | -   | -     | 17  | 171   | 264    | 255    | 289    | 412    | 120    | 80    | 108   | 33    |
| 22    | -   | -     | 14  | 352   | 264    | 249    | 289    | 371    | 130    | 80    | 108   | 32    |
| 23    | -   | -     | 18  | 401   | 255    | 269    | 296    | 339    | 179    | 78    | 104   | 32    |
| 24    | -   | -     | 22  | 192   | 253    | 269    | 316    | 313    | 168    | 76    | 103   | 32    |
| 25    | -   | -     | 22  | 150   | 249    | 320    | 311    | 295    | 155    | 74    | 111   | 33    |
| 26    | -   | -     | 21  | 124   | 253    | 320    | 294    | 288    | 143    | 70    | 136   | 34    |
| 27    | -   | -     | 16  | 109   | 287    | 320    | 289    | 285    | 132    | 69    | 136   | 36    |
| 28    | -   | -     | 19  | 110   | 429    | 327    | 302    | 285    | 125    | 69    | 133   | 38    |
| 29    | -   | -     | 17  | 100   | 433    | 327    | 323    | 292    | 136    | 66    | 136   | 36    |
| 30    | -   | -     | 16  | 94    | -----  | 311    | 305    | 297    | 172    | 62    | 136   | 34    |
| 31    | -   | ----- | 14  | 90    | -----  | 302    | -----  | 297    | -----  | 67    | 137   | ----- |
| TOTAL | -   | -     | -   | 2,810 | 5,347  | 11,193 | 11,023 | 11,232 | 6,437  | 3,015 | 3,307 | 2,198 |
| MEAN  | -   | -     | -   | 90.6  | 184    | 361    | 367    | 362    | 215    | 97.3  | 107   | 73.3  |
| MAX   | -   | -     | -   | 401   | 433    | 888    | 512    | 452    | 375    | 171   | 137   | 143   |
| MIN   | -   | -     | -   | 11    | 85     | 249    | 289    | 285    | 120    | 62    | 64    | 32    |
| AC-FT | -   | -     | -   | 5,570 | 10,610 | 22,200 | 21,860 | 22,280 | 12,770 | 5,980 | 6,560 | 4,360 |

13176000 Owyhee River above China diversion dam, near Owyhee, Nev.

LOCATION.--Lat 41°55'20", long 116°04'10", in NW $\frac{1}{4}$  sec.6, T.46 N., R.53 E., Elko County, on right bank 1,000 ft downstream from Skull Creek, 1 mile upstream from China diversion dam, and 2 miles southeast of Owyhee.

DRAINAGE AREA.--458 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft above mean sea level, unadjusted. Prior to Oct. 1, 1939, at datum 1.48 ft higher.

AVERAGE DISCHARGE.--33 years, 141 cfs (102,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs Mar. 3 (gage height, 9.72 ft); minimum, 19 cfs Nov. 6.

Period of record: Maximum discharge, 2,710 cfs May 3 or 4, 1952 (gage height, 10.07 ft); minimum, 1.8 cfs Nov. 16, 1961.

REMARKS.--Records good except those for winter months, which are fair. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 45    | 35    | 41    | 33     | 120    | 498    | 448    | 490    | 449    | 237   | 69    | 146   |
| 2     | 41    | 35    | 39    | 32     | 110    | 671    | 537    | 495    | 445    | 236   | 67    | 147   |
| 3     | 39    | 34    | 37    | 30     | 115    | 1,350  | 572    | 520    | 435    | 203   | 66    | 148   |
| 4     | 33    | 37    | 40    | 28     | 125    | 1,010  | 594    | 570    | 417    | 200   | 98    | 148   |
| 5     | 33    | 31    | 43    | 30     | 145    | 718    | 658    | 530    | 403    | 195   | 109   | 151   |
| 6     |       |       |       |        |        |        |        |        |        |       |       |       |
| 7     | 37    | 29    | 45    | 32     | 140    | 771    | 768    | 590    | 383    | 173   | 101   | 154   |
| 8     | 37    | 32    | 41    | 34     | 135    | 720    | 817    | 720    | 427    | 158   | 98    | 154   |
| 9     | 37    | 32    | 36    | 35     | 133    | 613    | 787    | 730    | 514    | 152   | 100   | 153   |
| 10    | 37    | 32    | 37    | 33     | 132    | 621    | 756    | 710    | 570    | 152   | 104   | 102   |
| 11    | 36    | 30    | 41    | 32     | 130    | 698    | 729    | 660    | 465    | 148   | 105   | 85    |
| 12    |       |       |       |        |        |        |        |        |        |       |       |       |
| 13    | 36    | 31    | 42    | 34     | 150    | 680    | 694    | 640    | 410    | 112   | 103   | 91    |
| 14    | 35    | 33    | 43    | 70     | 180    | 636    | 678    | 630    | 365    | 97    | 103   | 93    |
| 15    | 35    | 35    | 40    | 110    | 180    | 642    | 655    | 640    | 327    | 98    | 106   | 86    |
| 16    | 35    | 38    | 41    | 135    | 178    | 696    | 621    | 670    | 301    | 93    | 111   | 84    |
| 17    | 36    | 35    | 43    | 130    | 178    | 621    | 597    | 680    | 286    | 92    | 110   | 83    |
| 18    |       |       |       |        |        |        |        |        |        |       |       |       |
| 19    | 39    | 32    | 43    | 140    | 178    | 600    | 575    | 690    | 276    | 92    | 110   | 52    |
| 20    | 41    | 32    | 40    | 150    | 198    | 612    | 539    | 670    | 262    | 90    | 110   | 41    |
| 21    | 40    | 31    | 37    | 210    | 211    | 626    | 507    | 550    | 251    | 95    | 114   | 39    |
| 22    | 40    | 32    | 34    | 375    | 279    | 581    | 480    | 630    | 235    | 93    | 111   | 39    |
| 23    | 41    | 30    | 35    | 369    | 305    | 505    | 455    | 610    | 214    | 92    | 112   | 39    |
| 24    |       |       |       |        |        |        |        |        |        |       |       |       |
| 25    | 43    | 30    | 39    | 438    | 325    | 488    | 453    | 660    | 197    | 91    | 113   | 39    |
| 26    | 39    | 32    | 42    | 646    | 338    | 487    | 460    | 590    | 186    | 90    | 112   | 38    |
| 27    | 30    | 31    | 45    | 1,030  | 323    | 515    | 473    | 540    | 231    | 87    | 111   | 37    |
| 28    | 29    | 33    | 47    | 402    | 329    | 483    | 514    | 505    | 229    | 83    | 108   | 38    |
| 29    | 27    | 34    | 45    | 280    | 324    | 536    | 511    | 475    | 218    | 80    | 110   | 39    |
| 30    |       |       |       |        |        |        |        |        |        |       |       |       |
| 31    | 28    | 52    | 40    | 220    | 330    | 537    | 484    | 460    | 206    | 76    | 138   | 41    |
| 32    | 29    | 82    | 37    | 140    | 390    | 544    | 474    | 445    | 192    | 74    | 144   | 45    |
| 33    | 30    | 59    | 39    | 150    | 602    | 528    | 497    | 441    | 179    | 72    | 143   | 47    |
| 34    | 30    | 53    | 35    | 130    | 665    | 504    | 543    | 446    | 174    | 70    | 144   | 44    |
| 35    | 28    | 48    | 35    | 120    | -----  | 474    | 510    | 449    | 204    | 67    | 143   | 42    |
| 36    | 32    | ----- | 31    | 115    | -----  | 445    | -----  | 453    | -----  | 71    | 144   | ----- |
| TOTAL | 1,109 | 1,110 | 1,233 | 5,713  | 6,948  | 19,410 | 17,386 | 18,189 | 9,451  | 3,610 | 3,417 | 2,445 |
| MEAN  | 35.8  | 37.0  | 39.8  | 184    | 240    | 626    | 580    | 587    | 315    | 116   | 110   | 81.5  |
| MAX   | 45    | 82    | 47    | 1,030  | 665    | 1,350  | 817    | 730    | 570    | 207   | 144   | 154   |
| MIN   | 27    | 29    | 31    | 28     | 110    | 445    | 448    | 441    | 174    | 57    | 66    | 37    |
| AC-FT | 2,200 | 2,200 | 2,450 | 11,330 | 13,780 | 38,500 | 34,490 | 36,080 | 18,750 | 7,160 | 6,780 | 4,850 |

CAL YR 1971 TOTAL 90,212 MEAN 247 MAX 1,810 MIN 27 AC-FT 178,900  
 WTR YR 1972 TOTAL 90,021 MEAN 246 MAX 1,350 MIN 27 AC-FT 178,600

13177200 South Fork Owyhee River at Spanish Ranch, near Tuscarora, Nev.

LOCATION.--Lat 41°25'40", long 116°10'40", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.30, T.41 N., R.52 E., Elko County, on left bank 0.2 mile downstream from Hot Creek, 2.8 miles west of Spanish Ranch headquarters, and 8 miles north of Tuscarora.

DRAINAGE AREA.--330 sq mi, approximately.

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 64.6 cfs (46,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 548 cfs June 9 (gage height, 4.63 ft); minimum, 6.2 cfs Aug. 30, 31.

Period of record: Maximum discharge, 4,130 cfs Feb. 10, 1962 (gage height, 7.40 ft), from rating curve extended above 250 cfs on basis of slope-area measurement of peak flow; minimum, 0.40 cfs 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 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 30    | 32    | 28    | 17    | 40    | 59     | 154   | 79    | 157   | 47    | 35    | 7.6   |
| 2     | 30    | 29    | 29    | 18    | 37    | 112    | 195   | 79    | 185   | 47    | 33    | 7.8   |
| 3     | 29    | 28    | 25    | 16    | 38    | 317    | 180   | 72    | 201   | 47    | 31    | 7.9   |
| 4     | 27    | 30    | 24    | 15    | 45    | 210    | 160   | 70    | 200   | 47    | 29    | 8.6   |
| 5     | 29    | 31    | 26    | 15    | 32    | 169    | 158   | 73    | 205   | 49    | 17    | 14    |
| 6     | 28    | 27    | 30    | 16    | 22    | 188    | 169   | 87    | 187   | 50    | 19    | 17    |
| 7     | 28    | 27    | 22    | 17    | 23    | 171    | 167   | 103   | 209   | 48    | 18    | 18    |
| 8     | 27    | 29    | 20    | 17    | 21    | 173    | 160   | 106   | 404   | 49    | 15    | 26    |
| 9     | 27    | 30    | 20    | 18    | 21    | 220    | 152   | 125   | 517   | 50    | 13    | 23    |
| 10    | 27    | 31    | 21    | 20    | 20    | 233    | 156   | 129   | 385   | 50    | 11    | 23    |
| 11    | 29    | 30    | 22    | 21    | 20    | 239    | 160   | 119   | 254   | 50    | 9.2   | 33    |
| 12    | 29    | 31    | 22    | 23    | 20    | 228    | 185   | 108   | 195   | 52    | 8.5   | 30    |
| 13    | 29    | 31    | 21    | 24    | 21    | 245    | 185   | 104   | 157   | 54    | 8.9   | 26    |
| 14    | 29    | 33    | 20    | 24    | 20    | 257    | 228   | 115   | 128   | 53    | 8.6   | 25    |
| 15    | 29    | 30    | 22    | 23    | 20    | 254    | 213   | 123   | 114   | 54    | 9.7   | 24    |
| 16    | 33    | 29    | 21    | 24    | 25    | 254    | 158   | 131   | 107   | 52    | 9.4   | 23    |
| 17    | 35    | 27    | 20    | 40    | 35    | 269    | 131   | 145   | 92    | 50    | 9.7   | 23    |
| 18    | 31    | 27    | 18    | 90    | 32    | 281    | 113   | 171   | 90    | 49    | 9.7   | 23    |
| 19    | 30    | 29    | 17    | 160   | 36    | 272    | 117   | 190   | 73    | 47    | 9.5   | 25    |
| 20    | 31    | 28    | 17    | 125   | 46    | 254    | 112   | 205   | 75    | 48    | 8.6   | 24    |
| 21    | 36    | 28    | 18    | 100   | 53    | 248    | 106   | 391   | 73    | 48    | 8.3   | 23    |
| 22    | 31    | 29    | 20    | 150   | 48    | 242    | 99    | 272   | 66    | 47    | 8.7   | 23    |
| 23    | 30    | 29    | 22    | 115   | 37    | 239    | 97    | 200   | 63    | 44    | 8.7   | 24    |
| 24    | 30    | 31    | 25    | 80    | 31    | 242    | 92    | 150   | 61    | 42    | 8.9   | 25    |
| 25    | 29    | 30    | 27    | 90    | 27    | 266    | 91    | 123   | 58    | 40    | 9.3   | 25    |
| 26    | 30    | 29    | 23    | 100   | 29    | 230    | 92    | 106   | 61    | 39    | 9.9   | 26    |
| 27    | 32    | 39    | 20    | 60    | 50    | 210    | 91    | 96    | 59    | 38    | 9.7   | 28    |
| 28    | 30    | 33    | 21    | 43    | 98    | 208    | 84    | 94    | 57    | 37    | 10    | 29    |
| 29    | 28    | 34    | 21    | 41    | 111   | 195    | 73    | 101   | 53    | 36    | 11    | 26    |
| 30    | 27    | 32    | 19    | 45    | ----- | 169    | 75    | 117   | 51    | 37    | 9.2   | 26    |
| 31    | 31    | ----- | 17    | 50    | ----- | 163    | ----- | 143   | ----- | 38    | 6.6   | ----- |
| TOTAL | 921   | 903   | 678   | 1,597 | 1,058 | 6,817  | 4,153 | 4,127 | 4,537 | 1,439 | 413.1 | 663.9 |
| MEAN  | 29.7  | 30.1  | 21.9  | 51.5  | 36.5  | 220    | 138   | 133   | 151   | 46.4  | 13.3  | 22.1  |
| MAX   | 36    | 39    | 30    | 160   | 111   | 317    | 228   | 391   | 517   | 54    | 35    | 33    |
| MIN   | 27    | 27    | 17    | 15    | 20    | 59     | 73    | 70    | 51    | 36    | 6.6   | 7.6   |
| AC-FT | 1,830 | 1,790 | 1,340 | 3,170 | 2,100 | 13,520 | 8,240 | 8,190 | 9,000 | 2,850 | 819   | 1,320 |

CAL YR 1971 TOTAL 38,568.0 MEAN 106 MAX 576 MIN 17 AC-FT 76,500  
WTR YR 1972 TOTAL 27,307.0 MEAN 74.6 MAX 517 MIN 6.6 AC-FT 54,160

## PEAK DISCHARGE (BASE, 300 CFS)

| DATE | TIME | G.HT. | DISCHARGE | DATE | TIME | G.HT. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 3-03 | 1730 | 4.42  | 474       | 6-09 | 0600 | 4.63  | 548       |
| 5-21 | 1300 | 4.33  | 432       |      |      |       |           |

OWYHEE RIVER BASIN

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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 downstream from Rye Grass Creek, 1.8 miles upstream from Chimney Creek, and 17 miles northwest of Whiterock.

DRAINAGE AREA.--1,080 sq mi, approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (from topographic map).

AVERAGE DISCHARGE.--17 years, 162 cfs (117,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,710 cfs Jan. 19 (gage height, 6.46 ft); minimum, 8.2 cfs Aug. 26, 27.  
Period of record: Maximum discharge, 3,830 cfs June 5, 1963 (gage height, 7.55 ft); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

REMARKS.--Records good except those for winter months or period of no gage-height record, which are fair. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs (total capacity, about 16,100 acre-ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 60    | 64    | 104   | 80     | 180    | 300    | 570    | 238    | 261    | 71    | 34    | 15    |
| 2     | 64    | 75    | 79    | 83     | 175    | 500    | 700    | 224    | 305    | 64    | 30    | 18    |
| 3     | 58    | 69    | 83    | 75     | 177    | 1,450  | 660    | 179    | 351    | 58    | 29    | 19    |
| 4     | 58    | 75    | 95    | 65     | 180    | 900    | 610    | 188    | 383    | 56    | 29    | 20    |
| 5     | 54    | 78    | 94    | 70     | 150    | 700    | 600    | 232    | 390    | 65    | 28    | 19    |
| 6     | 52    | 65    | 109   | 80     | 120    | 750    | 620    | 246    | 375    | 78    | 24    | 19    |
| 7     | 52    | 64    | 100   | 81     | 125    | 710    | 620    | 269    | 371    | 73    | 19    | 21    |
| 8     | 52    | 68    | 85    | 83     | 120    | 740    | 610    | 275    | 674    | 60    | 18    | 21    |
| 9     | 51    | 69    | 75    | 85     | 117    | 900    | 570    | 283    | 850    | 62    | 24    | 22    |
| 10    | 52    | 71    | 80    | 92     | 112    | 950    | 570    | 303    | 758    | 62    | 24    | 28    |
| 11    | 52    | 72    | 83    | 110    | 110    | 1,000  | 600    | 302    | 594    | 56    | 20    | 41    |
| 12    | 52    | 77    | 90    | 120    | 110    | 980    | 700    | 287    | 492    | 51    | 16    | 49    |
| 13    | 52    | 84    | 85    | 125    | 115    | 1,020  | 730    | 279    | 340    | 48    | 15    | 48    |
| 14    | 52    | 84    | 80    | 115    | 110    | 1,070  | 840    | 280    | 253    | 38    | 16    | 44    |
| 15    | 49    | 86    | 83    | 110    | 110    | 1,020  | 800    | 285    | 227    | 38    | 16    | 42    |
| 16    | 58    | 80    | 90    | 120    | 140    | 1,020  | 600    | 289    | 232    | 40    | 15    | 41    |
| 17    | 65    | 71    | 80    | 170    | 170    | 1,060  | 450    | 309    | 209    | 41    | 14    | 40    |
| 18    | 67    | 75    | 75    | 400    | 150    | 1,100  | 370    | 355    | 173    | 38    | 14    | 39    |
| 19    | 62    | 73    | 68    | 1,720  | 180    | 1,050  | 390    | 368    | 161    | 35    | 14    | 40    |
| 20    | 60    | 84    | 70    | 807    | 213    | 1,000  | 360    | 389    | 141    | 34    | 12    | 39    |
| 21    | 65    | 81    | 75    | 789    | 268    | 950    | 330    | 574    | 134    | 38    | 12    | 37    |
| 22    | 69    | 79    | 85    | 981    | 329    | 910    | 310    | 688    | 122    | 43    | 9.2   | 36    |
| 23    | 64    | 80    | 100   | 874    | 270    | 905    | 300    | 568    | 110    | 48    | 9.2   | 37    |
| 24    | 62    | 81    | 120   | 527    | 220    | 920    | 290    | 446    | 109    | 46    | 9.2   | 37    |
| 25    | 62    | 87    | 125   | 466    | 180    | 1,000  | 275    | 355    | 102    | 38    | 9.2   | 39    |
| 26    | 56    | 91    | 110   | 431    | 200    | 900    | 265    | 297    | 92     | 37    | 9.1   | 42    |
| 27    | 60    | 117   | 90    | 337    | 320    | 800    | 230    | 262    | 73     | 35    | 10    | 45    |
| 28    | 60    | 125   | 93    | 262    | 400    | 770    | 204    | 258    | 70     | 34    | 14    | 51    |
| 29    | 52    | 114   | 95    | 225    | 450    | 740    | 184    | 230    | 69     | 35    | 18    | 50    |
| 30    | 51    | 112   | 87    | 200    | -----  | 670    | 235    | 219    | 78     | 33    | 19    | 41    |
| 31    | 67    | ----- | 80    | 190    | -----  | 610    | -----  | 232    | -----  | 33    | 16    | ----- |
| TOTAL | 1,790 | 2,451 | 2,768 | 9,873  | 5,501  | 27,395 | 14,593 | 9,709  | 8,499  | 1,488 | 545.9 | 1,040 |
| MEAN  | 57.7  | 81.7  | 89.3  | 318    | 190    | 884    | 486    | 313    | 283    | 48.0  | 17.6  | 34.7  |
| MAX   | 69    | 125   | 125   | 1,720  | 450    | 1,450  | 840    | 688    | 850    | 78    | 34    | 51    |
| MIN   | 49    | 64    | 68    | 65     | 110    | 300    | 184    | 179    | 69     | 33    | 9.1   | 15    |
| AC-FT | 3,550 | 4,860 | 5,490 | 19,580 | 10,910 | 54,340 | 28,950 | 19,260 | 16,860 | 2,950 | 1,080 | 2,060 |

CAL YR 1971 TOTAL 113,691.0 MEAN 311 MAX 1,790 MIN 35 AC-FT 225,500  
WTR YR 1972 TOTAL 85,652.9 MEAN 234 MAX 1,720 MIN 9.1 AC-FT 169,900

PEAK DISCHARGE (BASE, 600 CFS)

NOTE.--No gage-height record Feb. 24 to Apr. 25.

| DATE | TIME | G.H. | DISCHARGE | DATE | TIME | G.H. | DISCHARGE |
|------|------|------|-----------|------|------|------|-----------|
| 1-19 | 1900 | 6.46 | 2,710     | 5-22 | 1100 | 3.92 | 745       |
| 3-3  | unk. | 5.98 | 2,250     | 6-9  | 1100 | 4.25 | 935       |
| 4-14 | unk. | unk. | 1,300     |      |      |      |           |





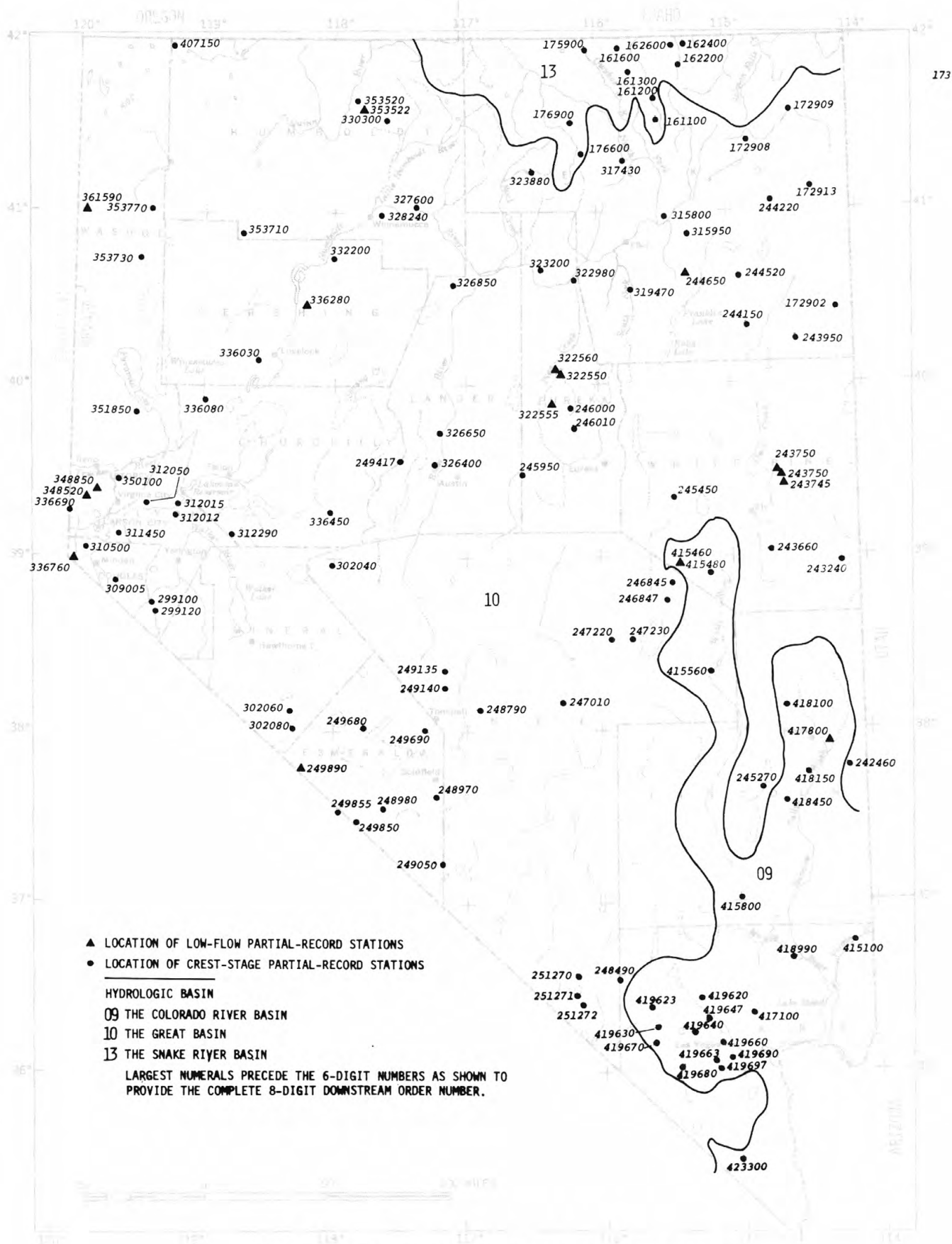


FIGURE 4 - MAP OF NEVADA SHOWING LOCATION OF PARTIAL-RECORD STATIONS.



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 1972

| Discharge measurements made at low-flow partial-record stations during water year 1972 |                                                     |                                                                                                                                                                                                          |                       |                  |                                                                             |                                                         |
|----------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------------------------------------------------------------------------|---------------------------------------------------------|
| 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 $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.13 N., R.59 E., White Pine County, at camp-site 8.0 miles northwest of State Highway 6 and 15 miles northwest of Preston. | 18.6                  | 1965-72          | 10-20-71<br>2-22-72<br>7-26-72<br>9-23-72                                   | 3.18<br>2.52<br>1.70<br>1.25                            |
| 09417800                                                                               | Meadow Valley Wash at Echo Point, near Ursine, Nev. | Lat 37°54'30", long 114°15'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 miles southwest of Ursine.                    | 354                   | 1970-72          | 10-19-71<br>11-15-71<br>1-17-72<br>2-16-72<br>4-17-72<br>5-30-72<br>7-25-72 | 1.06<br>e 3.60<br>10.9<br>13.1<br>.91<br>e .50<br>e .50 |
| Spring Valley                                                                          |                                                     |                                                                                                                                                                                                          |                       |                  |                                                                             |                                                         |
| 10243750                                                                               | Bassett Creek near McGill, Nev.                     | Lat 39°26'20", long 114°32'30", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.18 N., R.66 E., White Pine County, 2.4 miles upstream from State secondary 739 and 13 miles northeast of McGill.          | 6.5                   | 1968-72          | 11-16-71<br>2-22-72<br>3-21-72<br>5- 2-72<br>7-18-72                        | 3.54<br>2.15<br>3.50<br>4.47<br>3.10                    |
| 10243760                                                                               | Piermont Creek near McGill, Nev.                    | Lat 39°29'05", long 114°33'00", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.19 N., R.66 E., White Pine County, at mouth of canyon, just above diversion, and 14 miles northeast of McGill.            | 7.5                   | 1972             | 7-18-72                                                                     | .91                                                     |
| Ruby Valley                                                                            |                                                     |                                                                                                                                                                                                          |                       |                  |                                                                             |                                                         |
| 10244650                                                                               | Lutts Creek near Ruby Valley, Nev.                  | Lat 40°36'10", long 115°17'20", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.31 N., R.59 E., Elko County, 0.8 mile west of McCrea Ranch and 13.5 miles northeast of Ruby Valley Post Office.            | 7.56                  | 1965-72          | 11-19-71<br>3-30-72<br>6-13-72<br>9-27-72                                   | 2.93<br>11.4<br>23.7<br>2.11                            |
| Fish Lake Valley                                                                       |                                                     |                                                                                                                                                                                                          |                       |                  |                                                                             |                                                         |
| 10249890                                                                               | Indian Creek near Dyer, Nev.                        | Lat 37°47'20", long 118°11'10", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.2 S., R.34 E., Esmeralda County, 4.8 miles upstream from State Highway 3A and 10 miles northwest of Dyer.                  | 15                    | 1966-72          | 10-26-71<br>1-20-72                                                         | 2.03<br>3.12                                            |

e Estimated

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--continued

Discharge measurements made at low-flow partial-record stations during water year 1972--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 miles upstream from Pete Hanson Creek, 11 miles from mouth, and 42 miles south of Palisade.                            | 150                   | 1972             | 8- 9-72                                                                      | 0                                                    |
| 10322555                           | Pete Hanson Creek near Eureka, Nev.     | Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 miles from mouth, 52 miles south of Palisade, and 33 miles northwest of Eureka.                                         | 5.0                   | 1972             | 8- 9-72                                                                      | 0                                                    |
| 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 mile above mouth, and 40 miles south of Palisade.                                                                      | 67                    | 1972             | 8- 9-72                                                                      | 0                                                    |
| 10336280                           | Buena Vista Creek near Unionville, Nev. | Lat 40°26'55", long 118°08'50", in NW $\frac{1}{4}$ sec.27 T.30 N., R.34 E., Pershing County, just below Wilson Canyon and 1.3 miles west of Unionville.                                                                | 6.22                  | 1965-72          | 10-21-72<br>2-16-72<br>3-22-72<br>4-19-72<br>6- 8-72<br>6-16-72              | .92<br>1.57<br>3.46<br>1.90<br>198<br>2.26           |
| 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 mile northeast of Stateline.                      | 5.5                   | 1967-72          | 10- 6-71<br>10-28-71<br>12-14-71<br>2-17-72<br>4-17-72<br>5-16-72<br>7-21-72 | 3.01<br>3.89<br>4.48<br>4.45<br>6.97<br>4.55<br>2.30 |
| 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 miles southwest of Steamboat.                                                      | 4.2                   | 1972             | 3-21-72<br>4-26-72<br>5-24-72<br>8-25-72                                     | 7.75<br>3.56<br>7.54<br>.38                          |
| 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 miles upstream from mouth and 5.0 miles southwest of Steamboat.                                       | 3.6                   | 1972             | 3-21-72<br>4-26-72<br>5-24-72<br>8-25-72                                     | 9.85<br>2.37<br>3.26<br>.17                          |
| Black Rock Desert                  |                                         |                                                                                                                                                                                                                         |                       |                  |                                                                              |                                                      |
| 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 mile upstream from Rebel Creek ranch diversion and 3.0 miles northeast of Orovida. | 11.0                  | 1969-72          | 10-19-71<br>3-20-72                                                          | 2.41<br>9.16                                         |
| 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 (Surprise Valley) 39 miles northwest of Gerlach.                          | 64.0                  | 1971             | 10-18-71<br>2-15-72<br>4-19-72<br>6-15-72                                    | .07<br>5.38<br>2.40<br>.09                           |



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## Crest-stage partial-record stations

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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 years 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°06'37", 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                  | 1963-72          | 9- 6-72        | 2.71               | b15              |
| 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                   | 1962-72          | 1972           | —                  | b0.1             |
| 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                   | 1967-72          | 9-18-72        | 4.09               | 363              |
| 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                    | 1964-72          | 9-19-72        | —                  | b45              |
| 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                  | 1964-72          | 1972           | —                  | 0                |
| 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                    | 1964-72          | 6- 6-72        | 5.45               | b24              |
| 09418150                                                        | Caselton 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                   | 1963-72          | 6- 6-72        | b3.61              | b12              |
| 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                 | 1964-72          | 1-27-72        | —                  | b0.5             |
| 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                   | 1966-72          | 1972           | 10.11              | 584              |
| Las Vegas Wash basin                                            |                                                     |                                                                                                                                                                                                                                          |                       |                  |                |                    |                  |
| 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                  | 1962-72          | 9- 6-72        | —                  | b80              |
| 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                  | 1967-72          | 9-18-72        | —                  | b0.3             |

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) |
| Las Vegas Wash basin--Continued                                            |                                                               |                                                                                                                                                                                                               |                       |                  |                |                    |                  |
| 09419630                                                                   | Telephone Canyon near Charleston Park, Nev.                   | Lat 36°16'20", long 115°32'30", in SE¼SW¼ 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                  | 1962-72          | —              | —                  | 0                |
| 09419640                                                                   | Kyle Canyon near Charleston Park, Nev.                        | Lat 36°16'40", long 115°28'10", in SE¼SW¼ sec.22, T.19 S., R.58 E., Clark County, 650 ft below culvert on State Highway 39 and 10 miles east of Charleston Park.                                              | 35.9                  | 1961-72          | 8-13-72        | 2.11               | b38              |
| 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                   | 1963-72          | 9-18-72        | 6.04               | 927              |
| 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                  | 1961-72          | 11-15-72       | 1.44               | b0.2             |
| 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                  | 1963-72          | 1972           | —                  | 0                |
| 09419670                                                                   | Red Rock Wash near Blue Diamond, Nev.                         | Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.                                                 | 8.09                  | 1962-72          | 1972           | —                  | 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                   | 1966-72          | 1972           | 2.52               | 145              |
| 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                  | 1969-72          | 3- 7-72        | —                  | b1.5             |
| 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                  | 1961-72          | 8-13-72        | —                  | b10              |
| 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                   | 1961-72          | 8-13-72        | —                  | b40              |
| 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                  | 1967-72          | 8-13-72        | —                  | b76              |
| Piute Valley                                                               |                                                               |                                                                                                                                                                                                               |                       |                  |                |                    |                  |
| 10248510                                                                   | 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                   | 1967-72          | 9-18-72        | —                  | b1.5             |

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) |
| 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                    | 1961-72                     | 9- 1-72        | 7.14               | 710              |
| 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                   | 1968-72                     | —              | 4.14               | (+)              |
| 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                  | 1968-72                     | 9-19-72        | 2.53               | b0.9             |
| 10172913               | Loray Wash tributary near Cobre, Nev.        | Lat 41°07'37", 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                   | 1961-72                     | 6- 8-72        | 2.74               | 14               |
| 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                  | 1964-72                     | 6- 6-72        | 3.89               | b3               |
| 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†, 1960-72           | 6- 4-72        | 2.05               | 54               |
| 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                  | 1962-72                     | —              | —                  | 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†, 1968-72 | 1972           | 1.75               | 11               |
| Antelope Valley        |                                              |                                                                                                                                                                                    |                       |                             |                |                    |                  |
| 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, 1968-72               | —              | —                  | 0                |
| Goshute Valley         |                                              |                                                                                                                                                                                    |                       |                             |                |                    |                  |
| 10244150               | 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                  | 1961-72                     | 9-19-72        | 1.15               | b0.2             |
| Independence Valley    |                                              |                                                                                                                                                                                    |                       |                             |                |                    |                  |
| 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                  | 1968-72                     | —              | —                  | 0                |

† Discharge not determined.

‡ 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) |
| Clover Valley                                                              |                                                               |                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 10244520                                                                   | 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                    | 1968-72           | —              | —                  | 0                |
| Ruby Valley                                                                |                                                               |                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 10244700                                                                   | 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†, 1968-72 | 6- 8-72        | 1.70               | 70               |
| 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                   | 1967-72           | 9-19-72        | —                  | b4               |
| 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                  | 1962-72           | 2-19-72        | 2.16               | b22              |
| Monitor Valley                                                             |                                                               |                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 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                  | 1961-72           | 9- 5-72        | 1.96               | b2               |
| Diamond Valley                                                             |                                                               |                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 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                  | 1962-72           | 7-31-72        | 4.83               | 18               |
| 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                  | 1965-72           | 7-31-72        | 5.31               | 150              |
| Railroad Valley                                                            |                                                               |                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 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                  | 1962-72           | 9-18-72        | 2.81               | b2               |
| 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                  | 1964-72           | 5- -72         | —                  | b3               |
| 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.                                  | —                     | 1964-72           | 1972           | —                  | 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 southwest of Currant.                                                                                    | 6.35                  | 1967-72           | 6-12-72        | —                  | b0.8             |
| 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                  | 1962-72           | 1972           | —                  | 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

| 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) |
| 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                   | 1964-72          | 8-14-72        | 7.37               | 497              |
| Ralston - Stone Cabin Valley                                               |                                                           |                                                                                                                                                                            |                       |                  |                |                    |                  |
| 10248790                                                                   | Saulsbury Wash near Tonopah, Nev.                         | Lat 38°07'30", long 116°48'30", in S½SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6 and 23 miles east of Tonopah.                                   | c56                   | 1962-72          | 6- 6-72        | 3.03               | 27               |
| 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                  | 1964-72          | 6-22-72        | —                  | 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                  | 1968-72          | 1972           | —                  | 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                  | 1961-72          | 1972           | —                  | 0                |
| 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                  | 1965-72          | 8-13-72        | 9.65               | b660             |
| 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                  | 1961-72          | 8-13-72        | —                  | b370             |
| Big Smoky and Ione Valleys                                                 |                                                           |                                                                                                                                                                            |                       |                  |                |                    |                  |
| 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                  | 1968-72          | 8-13-72        | 3.20               | 4                |
| 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                  | 1961-72          | 5-30-72        | 2.30               | 63               |
| 10249690                                                                   | 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                  | 1961-72          | 9- 5-72        | —                  | b0.1             |
| Fish Lake Valley                                                           |                                                           |                                                                                                                                                                            |                       |                  |                |                    |                  |
| 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                  | 1967-72          | 6- 7-72        | —                  | b0.2             |
| 10249855                                                                   | Palmetto Wash tributary near Oasis, Calif.                | Lat 37°27'25", long 117°46'10", in W¼SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 3 and 8 miles south-east of Oasis, Calif.            | c0.24                 | 1968-72          | 1972           | —                  | 0                |

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) |
| Death Valley                                                              |                                                              |                                                                                                                                                                   |                       |                   |                |                    |                  |
| 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. | c 470                 | 1963-68†, 1969-72 | 1972           | —                  | 0                |
| 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                   | 1963-72           | 8-13-72        | 5.95               | 1,540            |
| 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                  | 1967-72           | 9-18-72        | 2.81               | 6                |
| 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                  | 1968-72           | 9-18-72        | —                  | 0.5              |
| 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 on Pole Line Road and 9.3 miles south of Bodie, Calif.                    | 13.1                  | 1963-72           | 6- 4-72        | 3.89               | 4                |
| 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.                | 73.0                  | 1946-64†, 1967-72 | 5-31-72        | 5.29               | 1,040            |
| 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.     | 0.97                  | 1965-72           | 3-12-72        | 4.50               | b0.1             |
| 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.            | 0.14                  | 1963-72           | 2- 6-72        | —                  | b0.2             |
| 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†, 1972    | 5-19-72        | 1.69               | 36               |
| 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                  | 1965-72           | 1972           | —                  | —                |
| 10302040                                                                  | 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.                           | c 7                   | 1965, 1968-72     | 9-19-72        | 5.51               | 51               |
| 10302060                                                                  | 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.                                                    | c 0.4                 | 1961-72           | 6- 8-72        | —                  | b1               |
| 10302080                                                                  | 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                  | 1967-72           | 1972           | —                  | 0                |

† Operated as a continuous-record station.

c Approximately.

b Estimated.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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## 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) |
| 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.                  | 19.6                  | 1947-67†, 1968-72 | 7-31-72        | 3.92               | 280              |
| 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.                     | 5.10                  | 1963-72           | 5- -72         | —                  | b0.7             |
| 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.                                  | 31.5                  | 1962-69†, 1972    | 3- 5-72        | 1.86               | 100              |
| 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                  | 1967-72           | 1972           | 0                  | 0                |
| 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†, 1963-72 | 1972           | 0.52               | 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                  | 1966-72           | 1972           | —                  | 0                |
| 10312012                                                                   | Adrian Valley tributary near Wabuska, Nev.                       | Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95 and 4.8 miles northwest of Wabuska.                               | 5.75                  | 1968-72           | 5-27-72        | —                  | b0.1             |
| 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                  | 1968-72           | 7-31-72        | —                  | b0.2             |
| 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                  | 1962-72           | 1972           | —                  | 0                |
| 10312290                                                                   | Rawhide Flats tributary near Schurz, Nev.                        | Lat 39°08'40", long 118°44'55", in S¼SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95 and 14 miles north of Schurz.                                           | 0.96                  | 1967-72           | 9- 4-72        | 8.28               | b1               |
| Humboldt River basin                                                       |                                                                  |                                                                                                                                                                                            |                       |                   |                |                    |                  |
| 10315800                                                                   | Humboldt River tributary near Halleck, Nev.                      | Lat 40°58'10", long 115°26'50", in NW¼NW¼ sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80 and 1.5 miles north of Halleck.                                       | c 3                   | 1966-72           | 1-19-72        | 4.97               | 24               |
| 10315950                                                                   | Secret Creek tributary near Arthur, Nev.                         | Lat 40°52'00", long 115°15'40", in S¼SE¼ 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.            | c 3                   | 1967-72           | 3- 3-72        | 19.58              | 42               |
| 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.                                                | c 25                  | 1962, 1966-72     | 6- 1-72        | 4.60               | 70               |
| 10319470                                                                   | Willow Creek tributary near Jiggs, Nev.                          | Lat 40°30'47", long 115°39'42", in SW¼NW¼ sec.3, T.30 N., R.56 E., Elko County, at culvert on State Highway 46 and 6 miles north of Jiggs.                                                 | 0.82                  | 1962-72           | 1972           | —                  | 0                |

† 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) | Discharge (cfs) |
| Humboldt River basin--Continued |                                                                 |                                                                                                                                                                                                                   |                       |                  |                |                    |                 |
| 10322980                        | Cole Creek near Palisade, Nev.                                  | Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7, T.31 N., R.52 E., Eureka County, at culvert on State Highway 20 and 3.2 miles southeast of Palisade.                                                             | 11.4                  | 1962-72          | 1972           | c3.70              | b10             |
| 10323200                        | Bob Creek near Beowawe, Nev.                                    | Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80 and 6 miles northeast of Beowawe.                                                          | 13.9                  | 1962-72          | 3-10-72        | 2.97               | 34              |
| 10323880                        | Willow Creek above Willow Creek Reservoir, near Tuscarora, Nev. | Lat 41°13'00", long 116°28'00", in SW¼NE¼ sec.36, T.39 N., R.48 E., Elko County, 4 miles upstream from dam and 14.5 miles southwest of Tuscarora.                                                                 | c 81                  | 1968-72          | 4-11-72        | 4.19               | 820             |
| 10326400                        | Reese River tributary near Austin, Nev.                         | Lat 39°28'29", long 117°19'10", in NE¼NW¼ sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50 and 14 miles west of Austin.                                                                     | 8.27                  | 1968-72          | 6- 8-72        | 4.84               | b47             |
| 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.                                                                     | c 25                  | 1961-72          | 1-28-72        | 3.49               | 40              |
| 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.                                                          | c 0.2                 | 1962-72          | 1- -72         | d2.68              | b0.7            |
| 10327600                        | Humboldt River tributary near Golconda, Nev.                    | Lat 41°00'40", long 117°21'20", in E½ sec.9, T.36 N., R.41 E., Humboldt County, at culvert on State Highway 18 and 8 miles northeast of Golconda.                                                                 | c 3.4                 | 1962-72          | 1972           | —                  | 0               |
| 10328240                        | Humboldt River tributary near Bliss, Nev.                       | Lat 40°59'55", long 117°39'30", in SE¼NE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80 and 5 miles northeast of Winnemucca.                                                     | c 1.9                 | 1968-72          | 12-22-71       | —                  | b0.6            |
| 10330300                        | Mullinix Creek near Paradise Valley, Nev.                       | Lat 41°30'40", long 117°32'25", in NE¼NE¼ 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                  | 1962-72          | 1-22-72        | 5.73               | 91              |
| 10332200                        | Raspberry Creek near Mill City, Nev.                            | Lat 40°47'14", long 117°59'54", in SW¼SW¼ sec.25, T.34 N., R.35 E., Pershing County, at culvert on access road, upstream from Cosgrove Interchange on Interstate Highway 80 and 8.5 miles northeast of Mill City. | 9.38                  | 1961-72          | 1972           | —                  | b0.2            |
| 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                  | 1962-72          | 1972           | —                  | 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 northeast of Bradys Hot Springs.                                         | 11.0                  | 1962-72          | 9- 5-72        | 3.44               | b17             |
| 10336450                        | 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.                                                                    | c 11                  | 1961-72          | 8-13-72        | 4.00               | 37              |

b Estimated.

c Approximately.

d Below base of gage.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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## 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) |
| 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                  | 1970-72          | 9-26-72        | 1.14               | 22               |
| 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                  | 1970-72          | 3- 3-72        | —                  | b7               |
| 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                  | 1967-72          | 5- -72         | —                  | b4               |
| 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                  | 1970-72          | 5- -72         | —                  | b4               |
| 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                  | 1970-72          | 6- 2-72        | 2.52               | 35               |
| 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.                                                             | 1.05                  | 1963-72          | 3-23-72        | 16.34              | 4.5              |
| 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.                                                        | 2.80                  | 1965-72          | 2- -72         | 13.2               | 67               |
| 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 southeast of Sparks.                                                                    | 79.9                  | 1967-72          | 3-15-72        | —                  | b1               |
| 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                  | 1968-72          | 1972           | —                  | 0                |
| 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                  | 1962-72          | 12-23-71       | 5.75               | b2               |
| 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.                                                                                                           | c 33                  | 1967-72          | 6- 8-72        | 5.90               | 384              |
| 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.                                                                       | c 3.5                 | 1968-72          | 1972           | —                  | 0                |
| 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.                                                                            | c 31                  | 1963-72          | 1-27-72        | 0.61               | 4                |

\* 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

| Annual maximum discharge at first 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)  |
| 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                  | 1963-72              | 1972                            | —                    | 0                 |
| 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.                 | c 44                  | 1962-72              | 2-23-72                         | —                    | b200              |
| 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                  | 1963-72              | 2-23-72                         | c7.80                | b12               |
| 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                  | 1963-72              | 2-23-72                         | 12.50                | 360               |
| 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                  | 1963-72              | 6- 7-72                         | 8.69                 | 73                |
| 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                  | 1964-72              | 1-18-72                         | 15.63                | 210               |
| 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                  | 1963-72              | 1972                            | 17.15                | 100               |
| 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                  | 1963-72              | 6- 7-72                         | 7.29                 | 16                |
| 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                  | 1963-72              | 6- 7-72                         | 3.55                 | 34                |
| 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.                                              | c 1.2                 | 1967-72              | 1972                            | c3.30                | b8                |
| 13176900                                                                   | Jack Creek below Schoonover Creek, near Tuscarora, Nev. | Lat 41°30'30", long 116°06'20", in NE¼SE¼ sec.25, T.42 N., R.52 E., Elko County, 0.2 mile downstream from Schoonover Creek, 2 miles upstream from mouth, and 16 miles northeast of Tuscarora. | 10.0                  | 1970<br>1971<br>1972 | f6-29-72<br>f5-16-71<br>6- 7-72 | 2.92<br>2.99<br>3.50 | 187<br>195<br>237 |

b Estimated.

c Approximately.

f Not previously published.



## 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 (†).

## Discharge measurements made at miscellaneous sites during water year 1972

| Discharge measurements made at miscellaneous sites during water year 1972 |                 |                                                                                                                                                                                                                               |                       |                                   |                                          |                               |
|---------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|------------------------------------------|-------------------------------|
| Stream                                                                    | Tributary to    | Location                                                                                                                                                                                                                      | Drainage area (sq mi) | Measured previously (water years) | Measurements                             |                               |
|                                                                           |                 |                                                                                                                                                                                                                               |                       |                                   | Date                                     | Discharge (cfs)               |
| Virgin River basin                                                        |                 |                                                                                                                                                                                                                               |                       |                                   |                                          |                               |
| Meadow Valley Wash                                                        | Muddy River     | Lat 37°54'00", long 114°17'30", in S½ sec.31, T.1 N., R.69 E., Lincoln County, 5 miles upstream from Patterson Wash and 7 miles southwest of Ursine. Previously published under low-flow partial-record station No. 09417900. | --                    | 1968-71                           | 2-16-72<br>9-13-72                       | 0<br>0                        |
| Meadow Valley Wash                                                        | Muddy River     | Lat 37°52'00", long 114°19'04", in NE¼ sec.13, T.1 S., R.68 E., Lincoln County, 0.2 mile below Delmue Ranch and 7 miles northeast of Panaca.                                                                                  | --                    | 1971                              | 2-16-72<br>5-30-72<br>6-26-72<br>9-13-72 | b 1.0<br>b .7<br>b .2<br>b .5 |
| Railroad Valley                                                           |                 |                                                                                                                                                                                                                               |                       |                                   |                                          |                               |
| Green Springs                                                             | Railroad Valley | Lat 39°07'04", long 115°34'12", in NW¼SW¼ sec.33, T.15 N., R.57 E., White Pine County, at Green Springs.                                                                                                                      | --                    | --                                | 11- 5-70                                 | .25                           |
| Jack Springs                                                              | Railroad Valley | Lat 38°33'52", long 115°31'38", in SE¼SE¼ sec.11, T.8 N., R.57 E., Nye County, 0.1 mile northwest of Blue Eagle Ranch and 12.8 miles southwest of Currant.                                                                    | --                    | --                                | 3-30-72                                  | 1.4                           |
| Blue Eagle Spring                                                         | Railroad Valley | Lat 38°33'48", long 115°31'40", in SE¼SE¼ sec.11, T.8 N., R.57 E., Nye County, 0.1 mile west of Blue Eagle Ranch and 12.9 miles southwest of Currant.                                                                         | --                    | --                                | 3-30-72                                  | 2.7                           |
| Troy Canyon                                                               | Railroad Valley | Lat 38°23'15", long 115°35'01", in NW¼SE¼ sec.29, T.6 N., R.57 E., Nye County, 1.2 miles downstream from the junction of the North and South forks and 19 miles south-southeast of Currant.                                   | --                    | --                                | 11- 7-70                                 | .1                            |
| Hooper Creek                                                              | Railroad Valley | Lat 38°14'20", long 115°38'40", in NE¼SE¼ sec.2, T.4 N., R.56 E., Nye County, 4.5 miles southeast of Nyala Ranch and 2.2 miles southwest of Bordoli Ranch and 40 miles southwest of Currant.                                  | --                    | --                                | 11- 7-70                                 | .1                            |
| Willow Creek Canyon                                                       | Railroad Valley | Lat 38°12'12", long 115°43'15", in SW¼ sec.18, T.4 N., R.56 E., Nye County, 3.3 miles south of Nyala Ranch and 41 miles southwest of Currant.                                                                                 | --                    | --                                | 11- 7-70                                 | b .4                          |
| Big Creek Canyon                                                          | Railroad Valley | Lat 38°11'03", long 115°44'45", in SW¼SE¼ sec.24, T.4 N., R.55 E., Nye County, 6.6 miles southwest of Nyala Ranch, and 44 miles southwest of Currant.                                                                         | --                    | --                                | 11- 8-70                                 | .3                            |
| Unnamed Spring above Bull Creek Ranch                                     | Bull Creek      | Lat 39°04'17", long 115°38'06", in SE¼SE¼ sec.14, T.14 N., R.56 E., White Pine County, 1.6 miles northwest of Bull Creek Ranch and 4.7 miles southwest of Green Springs.                                                      | --                    | --                                | 11- 6-70                                 | .90                           |
| Little Warm Spring                                                        | Railroad Valley | Lat 39°55'43", long 115°41'41", in NW¼SE¼ sec.5, T.12 N., R.56 E., Nye County, 0.2 mile south of Little Warm Spring and 1.1 miles southeast of Duckwater.                                                                     | --                    | --                                | 3-30-72                                  | .44                           |

b Field estimate.

## Discharge measurements made at miscellaneous sites during water year 1972--Continued

Discharge measurements made at miscellaneous sites during water year 1971 continued

| Stream                | Tributary to           | Location                                                                                                                                                       | Drainage area (sq mi) | Measured previously (water years) | Measurements       |                 |
|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------------|-----------------|
|                       |                        |                                                                                                                                                                |                       |                                   | Date               | Discharge (cfs) |
| Walker Lake basin     |                        |                                                                                                                                                                |                       |                                   |                    |                 |
| Spring Gulch          | Walker River           | Lat 38°44'08", long 119°23'53", in NE¼ sec.15, T.10 N., R.32 E., Douglas County, above road above mouth, 2 miles southwest of Wellington.                      | 3.04                  | 1971                              | 4-24-72            | 0.21            |
| Burbank Canyon        | Artesia Lake           | Lat 38°49'56", long 119°24'47", in SE¼ sec.9, T.11 N., R.23 E., Douglas County, at road crossing, and 6 miles north of Wellington.                             | 4.24                  | 1971                              | 4-24-72<br>9-15-72 | .23<br>.06      |
| Red Canyon            | Artesia Lake           | Lat 38°50'55", long 119°25'42", in SW¼ sec.5, T.11 N., R.23 E., Douglas County, 7 miles north of Wellington.                                                   | 10.7                  | 1971                              | 4-24-72<br>9-15-72 | 1.33<br>.76     |
| Pipeline Canyon       | Artesia Lake           | Lat 38°52'38", long 119°26'12", in SW¼ sec.29, T.12 N., R.23 E., Douglas County, 9 miles north of Wellington.                                                  | 3.10                  | 1971                              | 4-24-72<br>9-15-72 | .31<br>.25      |
| Sheep Creek           | Dalzell Canyon         | Lat 38°30'08", long 119°15'47", T.8 N., R.24 E., Lyon County, above Wiley Ditch, 0.8 mile downstream from county line, and 18.5 miles southeast of Wellington. | 1.78                  | 1971                              | 4-24-72<br>9-15-72 | .39<br>.25      |
| Dalzell Canyon        | Desert Creek           | Lat 38°38'10", long 119°16'00", in T.9 N., R.24 E., Lyon County, just below O'Banion Canyon, and 10 miles southeast of Wellington.                             | 89.4                  | 1971                              | 4-24-72<br>9-15-72 | .04<br>b .05    |
| Carson River basin    |                        |                                                                                                                                                                |                       |                                   |                    |                 |
| Fredericksburg Canyon | West Fork Carson River | Lat 38°49'41", long 119°47'56", in NE¼ sec.12, T.11 N., R.19 E., Alpine County, 0.7 mile west of Fredericksburg.                                               | 3.71                  | --                                | 8-18-72            | 3.93            |
| Mott Canyon           | West Fork Carson River | Lat 38°55'41", long 119°51'34", in SW¼ sec.4, T.12 N., R.19 E., Douglas County, 0.8 mile upstream from Foothill Road, and 5.5 miles southwest of Minden.       | 2.03                  | 1969-71                           | 8-18-72            | 2.66            |
| Genoa Canyon          | Carson River           | Lat 39°00'03", long 119°51'12", in SE¼ sec.9, T.13 N., R.19 E., Douglas County, 0.5 mile southwest of Genoa.                                                   | 2.24                  | --                                | 8-18-72            | .79             |
| Owyhee River basin    |                        |                                                                                                                                                                |                       |                                   |                    |                 |
| Mill Creek            | Owyhee River           | Lat 41°48'40", long 115°57'25", in SW¼ sec.12, T.45 N., R.53 E., Elko County, at wooden bridge over Mill Creek, at Patsville, Nev.                             | --                    | --                                | 11- 8-70           | .3              |

b Field estimate.

## PART 2. WATER QUALITY RECORDS



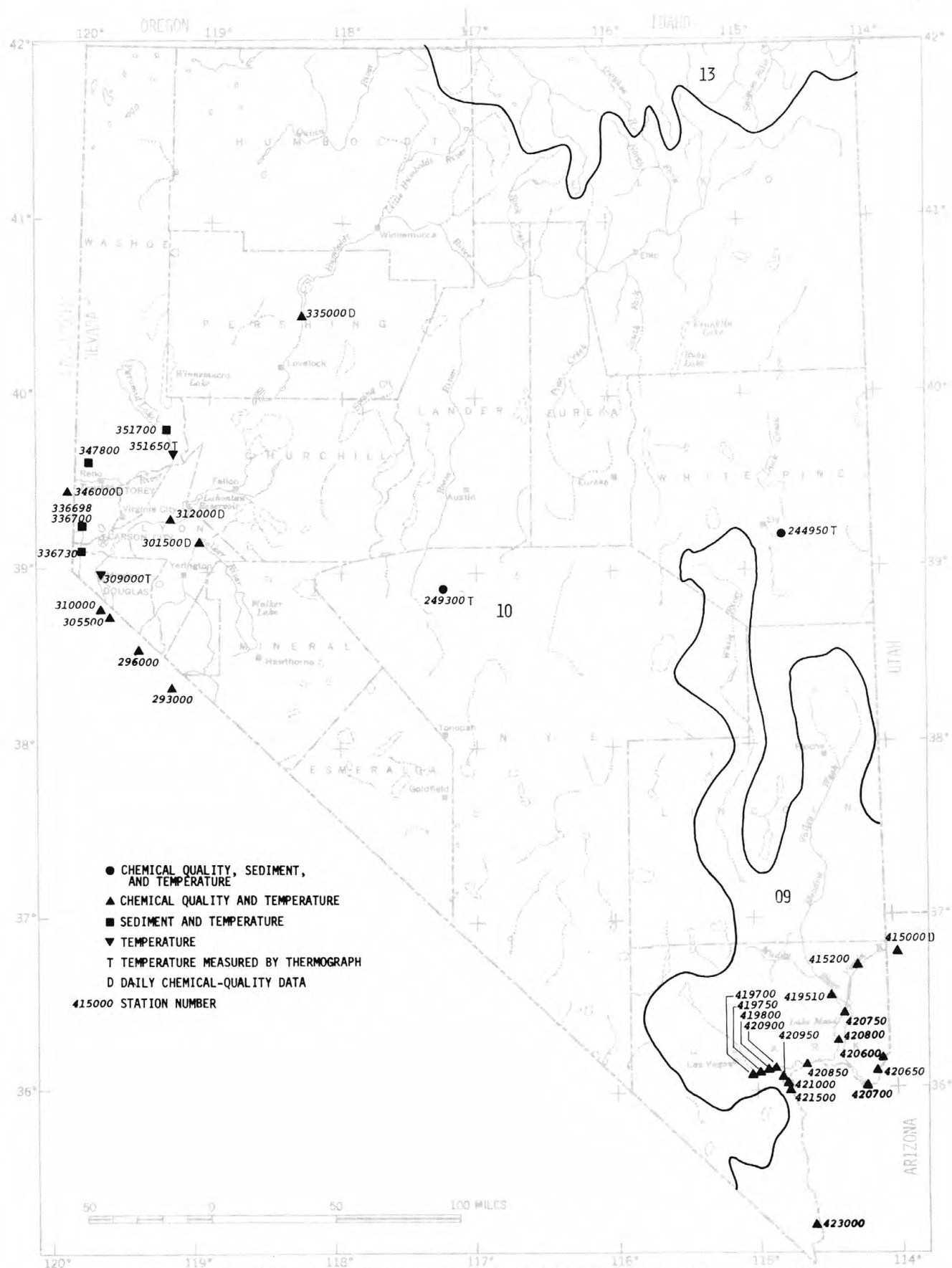


FIGURE 5 - MAP OF NEVADA SHOWING SAMPLING SITES WHERE WATER QUALITY DATA WERE OBTAINED DURING WATER YEAR 1972.



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 downstream from Beaver Dam Wash, 0.4 mile upstream from Littlefield, and 36 miles upstream from waterline of Lake Mead at elevation 1,221 ft above mean sea level.

DRAINAGE AREA.--5,090 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1949 to September 1972.

Water temperatures: October 1947 to September 1972.

Sediment records: October 1947 to September 1968.

EXTREMES.--1971-72:

Specific conductance: Maximum recorded daily, 3,600 micromhos June 7 (higher values may have occurred during period of no daily record in Aug. and Sept.); minimum daily, 1,260 micromhos Dec. 26.

Water temperature: Maximum recorded daily, 31.0°C on June 18 (higher temperatures may have occurred during Aug. and Sept.); minimum daily, 4.0°C Jan. 4.

Period of record:

Specific conductance (1949-72): Maximum daily, 4,650 micromhos Aug. 21, 1966; minimum daily, 689 micromhos May 14, 15, 1969.

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 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| JCT.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 18... | 1310  | 273                     | 14.5                        | 13                                           | 330                                              | 53                                            | 200                                        | 17                                                     | 257                                  | 0                                 |
| 18... | F1310 | 273                     | 14.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| NOV.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 23... | 1500  | 196                     | 15.0                        | 20                                           | 270                                              | 78                                            | 250                                        | --                                                     | 316                                  | 0                                 |
| 23... | F1500 | 196                     | 15.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JAN.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 06... | 0900  | 202                     | 6.0                         | --                                           | 290                                              | 83                                            | 240                                        | --                                                     | 355                                  | 0                                 |
| 06... | F0900 | 202                     | 6.0                         | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| FEB.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 07... | 1000  | 152                     | 11.0                        | --                                           | 240                                              | 78                                            | 240                                        | 20                                                     | 325                                  | 0                                 |
| 07... | F1000 | 152                     | 11.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 16... | 0930  | 56                      | 16.0                        | --                                           | 330                                              | 100                                           | 260                                        | 28                                                     | 351                                  | 0                                 |
| 16... | F0930 | 56                      | 16.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| APR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 18... | 0930  | 76                      | 17.0                        | 21                                           | 360                                              | 100                                           | 280                                        | 28                                                     | 327                                  | 0                                 |
| 18... | F0930 | 76                      | 17.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAY   |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 25... | 1230  | 63                      | 25.0                        | 20                                           | 390                                              | 120                                           | 270                                        | 31                                                     | 324                                  | 0                                 |
| 25... | F1230 | 63                      | 25.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JULY  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 11-13 | --    | 64                      | --                          | 21                                           | 280                                              | 120                                           | 270                                        | 19                                                     | --                                   | 0                                 |
| SEP.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 12... | 0900  | 64                      | 18.5                        | 21                                           | 360                                              | 110                                           | 260                                        | 28                                                     | 316                                  | 0                                 |

F FIELD DATA

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>BORON<br>(B)<br>(UG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|
| UCT.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 18... | 930                                          | 250                                               | .6                                               | 550                                      | 1920                                                                | 1420                                             | 1000                               | 2.7                                     | 2630                                                  | --            | --                                 |
| 18... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 2500                                                  | 7.7           | --                                 |
| NOV.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 23... | 790                                          | 350                                               | .7                                               | 720                                      | --                                                                  | --                                               | 990                                | 3.4                                     | 2770                                                  | --            | --                                 |
| 23... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 2800                                                  | 7.8           | 8.4                                |
| JAN.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 06... | 800                                          | 340                                               | --                                               | --                                       | --                                                                  | --                                               | 1100                               | 3.2                                     | 2850                                                  | --            | --                                 |
| 06... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 2800                                                  | 7.6           | 12.1                               |
| FEB.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 09... | 730                                          | 360                                               | --                                               | --                                       | --                                                                  | --                                               | 920                                | 3.4                                     | 2730                                                  | --            | --                                 |
| 09... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 2800                                                  | 8.0           | 10.2                               |
| MAR.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 16... | 960                                          | 360                                               | --                                               | --                                       | --                                                                  | --                                               | 1200                               | 3.2                                     | 3050                                                  | --            | --                                 |
| 16... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 3100                                                  | 7.8           | 8.6                                |
| APR.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 18... | 1100                                         | 390                                               | 1.0                                              | 1000                                     | 2440                                                                | 506                                              | 1300                               | 3.4                                     | 3260                                                  | --            | --                                 |
| 18... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 3500                                                  | 7.8           | 9.5                                |
| MAY   |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 25... | 1200                                         | 390                                               | 1.1                                              | 1100                                     | 2580                                                                | 444                                              | 1500                               | 3.1                                     | 3350                                                  | --            | --                                 |
| 25... | --                                           | --                                                | --                                               | --                                       | --                                                                  | --                                               | --                                 | --                                      | 3500                                                  | 7.3           | 8.2                                |
| JULY  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 11-13 | 1200                                         | 390                                               | 1.0                                              | 1100                                     | --                                                                  | --                                               | 1200                               | 3.4                                     | 3070                                                  | 8.0           | --                                 |
| SEP.  |                                              |                                                   |                                                  |                                          |                                                                     |                                                  |                                    |                                         |                                                       |               |                                    |
| 12... | 1100                                         | 360                                               | 1.3                                              | 1000                                     | 2410                                                                | 418                                              | 1400                               | 3.1                                     | 3260                                                  | 7.5           | --                                 |

## 09415000 VIRGIN RIVER AT LITTLEFIELD, Ariz.--Continued

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ATER TEMPERATURE (DEG. C) , RANDOM (INSTANTANEOUS)

[illegible]

## 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 downstream from Riverside bridge, 14 miles southwest of Mesquite, and about 10 miles upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972 (data for the period January 1964 to September 1968 are available from the Water Quality Office, U.S. Environmental Protection Agency).

EXTREMES.--Period of record (1968-72):

Specific conductance: Maximum, 6,790 micromhos July 11, 1972; minimum, 977 micromhos Apr. 23, 1969.

Water temperature: Maximum, 35.0°C Aug. 20, 1969; minimum, 1.0°C Dec. 18, 1968, and Jan. 6, 1970.

REMARKS.--Nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |       |                         |                             |                                                  |                                                         |                                            |                                                 |                                      |                                   |
| 14... | 1400  | --                      | --                          | 400                                              | 150                                                     | 360                                        | 30                                              | 221                                  | 0                                 |
| 14... | F1400 | F30                     | 24.0                        | --                                               | --                                                      | --                                         | --                                              | --                                   | --                                |
| JAN.  |       |                         |                             |                                                  |                                                         |                                            |                                                 |                                      |                                   |
| 28... | 1300  | --                      | --                          | 280                                              | 92                                                      | 280                                        | 24                                              | 283                                  | 0                                 |
| 28... | F1300 | F150                    | 8.5                         | --                                               | --                                                      | --                                         | --                                              | --                                   | --                                |
| APR.  |       |                         |                             |                                                  |                                                         |                                            |                                                 |                                      |                                   |
| 20... | 1130  | --                      | --                          | 440                                              | 190                                                     | 530                                        | 43                                              | 231                                  | 0                                 |
| 26... | F1130 | E20                     | 22.0                        | --                                               | --                                                      | --                                         | --                                              | --                                   | --                                |
| JULY  |       |                         |                             |                                                  |                                                         |                                            |                                                 |                                      |                                   |
| 11... | 1315  | --                      | --                          | 570                                              | 260                                                     | 750                                        | 51                                              | 186                                  | 0                                 |
| 11... | F1315 | F.2                     | 34.0                        | --                                               | --                                                      | --                                         | --                                              | --                                   | --                                |

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|-----|------------------------------------|--------------------------|----------------------------------------------------|
| OCT.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |     |                                    |                          |                                                    |
| 14... | 1500                                         | 550                                               | 3380                                                             | E274                                             | 1600                               | 4.1                                     | 4130                                                  | --  | --                                 | 0.50                     | 0.10                                               |
| 14... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.2 | 9.2                                | --                       | --                                                 |
| JAN.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |     |                                    |                          |                                                    |
| 28... | 940                                          | 410                                               | 2060                                                             | E834                                             | 1100                               | 3.7                                     | 3090                                                  | --  | --                                 | --                       | --                                                 |
| 28... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.2 | 11.0                               | --                       | --                                                 |
| APR.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |     |                                    |                          |                                                    |
| 26... | 1800                                         | 720                                               | 4260                                                             | E230                                             | 1900                               | 5.3                                     | 5100                                                  | --  | --                                 | .01                      | .02                                                |
| 26... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.1 | 8.2                                | --                       | --                                                 |
| JULY  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |     |                                    |                          |                                                    |
| 11... | 2400                                         | 1100                                              | 5420                                                             | E2.93                                            | 2500                               | 6.5                                     | 6790                                                  | --  | --                                 | .01                      | .01                                                |
| 11... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.3 | 7.8                                | --                       | --                                                 |

F: Field data.

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 southeast of Overton, and about 3.8 miles downstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

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 Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>POT-<br>ASS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|---------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |       |                         |                             |                                                  |                                               |                                            |                                                         |                                      |                                   |
| 13... | 1015  | --                      | --                          | 140                                              | 82                                            | 250                                        | 22                                                      | 347                                  | 0                                 |
| 13... | F1015 | E2                      | 20.0                        | --                                               | --                                            | --                                         | --                                                      | --                                   | --                                |
| JAN.  |       |                         |                             |                                                  |                                               |                                            |                                                         |                                      |                                   |
| 28... | 1050  | --                      | --                          | 190                                              | 110                                           | 330                                        | 28                                                      | 342                                  | 0                                 |
| 28... | F1050 | E1                      | 11.0                        | --                                               | --                                            | --                                         | --                                                      | --                                   | --                                |
| APR.  |       |                         |                             |                                                  |                                               |                                            |                                                         |                                      |                                   |
| 26... | 0945  | --                      | --                          | 260                                              | 170                                           | 500                                        | 39                                                      | 475                                  | 0                                 |
| 26... | F0945 | E5                      | 15.0                        | --                                               | --                                            | --                                         | --                                                      | --                                   | --                                |
| JULY  |       |                         |                             |                                                  |                                               |                                            |                                                         |                                      |                                   |
| 11... | 1130  | --                      | --                          | 210                                              | 150                                           | 450                                        | 36                                                      | 414                                  | 0                                 |
| 11... | F1130 | E2.5                    | 24.0                        | --                                               | --                                            | --                                         | --                                                      | --                                   | --                                |

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TUNS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|--------------------------|----------------------------------------------------|
| OCT.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |                          |                                                    |
| 13... | 750                                          | 170                                               | 1770                                                             | E9.56                                            | 690                                | 4.2                                     | 2290                                                  | --            | --                                 | 0.42                     | 0.11                                               |
| 13... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.4           | 10.1                               | --                       | --                                                 |
| JAN.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |                          |                                                    |
| 28... | 990                                          | 240                                               | 2060                                                             | E5.56                                            | 930                                | 4.7                                     | 2860                                                  | --            | --                                 | --                       | --                                                 |
| 28... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.9           | 15.2                               | --                       | --                                                 |
| APR.  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |                          |                                                    |
| 26... | 1600                                         | 350                                               | 3640                                                             | E49.1                                            | 1300                               | 5.9                                     | 4050                                                  | --            | --                                 | .18                      | .16                                                |
| 26... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.2           | 9.7                                | --                       | --                                                 |
| JULY  |                                              |                                                   |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |                          |                                                    |
| 11... | 1400                                         | 320                                               | 2720                                                             | E18.4                                            | 1100                               | 5.8                                     | 3680                                                  | --            | --                                 | .06                      | .10                                                |
| 11... | --                                           | --                                                | --                                                               | --                                               | --                                 | --                                      | --                                                    | 8.5           | 9.4                                | --                       | --                                                 |

F: Field data.

E: Estimated.

## LAS VEGAS WASH BASIN

09419700 LAS VEGAS WASH NEAR HENDERSON, NEV.

LOCATION.--Lat 36°05'20", long 114°59'05", in SE 1/4 sec. 30, T.21 S., R.63 E., Clark County, 3.5 miles north of Henderson, and 6.0 miles upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

DRAINAGE AREA.--2,125 sq mi, of which 1,518 sq mi contribute directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972 (data for the period January 1964 to September 1968 are available from the Water Quality Office, U.S. Environmental Protection Agency).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MA-<br>GNE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 28... | 1330  | --                      | --                          | 200                                              | 89                                            | 350                                        | 24                                                     | 281                                  | 0                                 |
| 28... | F1330 | 48                      | 12.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| NOV.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1400  | --                      | --                          | 170                                              | 76                                            | 240                                        | 24                                                     | 226                                  | 0                                 |
| 30... | F1400 | 58                      | 9.5                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| DEC.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1200  | --                      | --                          | 180                                              | 87                                            | 260                                        | 30                                                     | 246                                  | 0                                 |
| 30... | F1200 | 59                      | 6.5                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JAN.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 31... | 0900  | --                      | --                          | 200                                              | 97                                            | 320                                        | 30                                                     | 238                                  | 0                                 |
| 31... | F0900 | 58                      | 2.0                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| FEB.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 28... | 1010  | --                      | --                          | 220                                              | 99                                            | 320                                        | 26                                                     | 300                                  | 0                                 |
| 28... | F1010 | 47                      | 11.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAR.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 0840  | --                      | --                          | 220                                              | 110                                           | 350                                        | 25                                                     | 240                                  | 0                                 |
| 30... | F0840 | 54                      | 15.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| APR.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 25... | 0920  | --                      | --                          | 230                                              | 110                                           | 380                                        | 25                                                     | 289                                  | 0                                 |
| 25... | F0920 | 52                      | 14.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAY   |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 25... | 0930  | --                      | --                          | 230                                              | 110                                           | 360                                        | 23                                                     | 297                                  | 0                                 |
| 25... | F0930 | 46                      | 15.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JUNE  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 0930  | --                      | --                          | 220                                              | 100                                           | 370                                        | 24                                                     | 286                                  | 0                                 |
| 21... | F0930 | 44                      | 21.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JULY  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 31... | 0915  | --                      | --                          | 300                                              | 130                                           | 530                                        | 33                                                     | 293                                  | 0                                 |
| 31... | F0915 | 35                      | 22.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| AUG.  |       |                         |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 29... | 1245  | --                      | --                          | 210                                              | 96                                            | 360                                        | 29                                                     | 277                                  | 0                                 |
| 29... | F1245 | 52                      | 19.5                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |

F: Field data.

## LAS VEGAS WASH BASIN

197

09419700 LAS VEGAS WASH NEAR HENDERSON, NEV.--Continued

## EXTREMES.--1971-72:

Specific conductance: Maximum, 4,260 micromhos July 31; minimum, 2,460 micromhos Nov. 20.

Water temperature: Maximum, 22.0°C July 31; minimum, 2.0°C Jan. 31.

## Period of record (1968-72):

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 1972): 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. Nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLOR-<br>IDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TDS)<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|--------------------------|----------------------------------------------------|
| OCT.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 28... | 780                                                       | 430                                               | 2480                                                             | 321                                              | 870                                 | 5.2                                     | 3070                                                  | 7.4           | --                                 | --                       | --                                                 |
| 28... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | --            | 2.9                                | --                       | --                                                 |
| NOV.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 660                                                       | 280                                               | 1820                                                             | 285                                              | 740                                 | 3.8                                     | 2460                                                  | --            | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.4           | 2.2                                | --                       | --                                                 |
| DEC.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 730                                                       | 330                                               | 1840                                                             | 293                                              | 810                                 | 4.0                                     | 2660                                                  | 7.2           | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | --            | 4.2                                | --                       | --                                                 |
| JAN.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 31... | 900                                                       | 380                                               | 2040                                                             | 320                                              | 900                                 | 4.6                                     | 3150                                                  | --            | --                                 | --                       | --                                                 |
| 31... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.6           | 4.5                                | --                       | --                                                 |
| FEB.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 28... | 930                                                       | 340                                               | 2220                                                             | 282                                              | 960                                 | 4.5                                     | 2880                                                  | --            | --                                 | --                       | --                                                 |
| 28... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.9           | 7.2                                | --                       | --                                                 |
| MAR.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 980                                                       | 370                                               | 2560                                                             | 374                                              | 1000                                | 4.8                                     | 3080                                                  | --            | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.7           | 6.2                                | --                       | --                                                 |
| APR.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 25... | 1000                                                      | 390                                               | 2600                                                             | 364                                              | 1000                                | 5.2                                     | 3240                                                  | --            | --                                 | 3.3                      | 6.8                                                |
| 25... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.7           | 6.2                                | --                       | --                                                 |
| MAY   |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 25... | 990                                                       | 380                                               | 2420                                                             | 301                                              | 1000                                | 4.9                                     | 3200                                                  | --            | --                                 | --                       | --                                                 |
| 25... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.8           | 6.1                                | --                       | --                                                 |
| JUNE  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 21... | 930                                                       | 420                                               | 2660                                                             | 319                                              | 960                                 | 5.2                                     | 3250                                                  | 7.3           | --                                 | --                       | --                                                 |
| 21... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | --            | 2.0                                | --                       | --                                                 |
| JULY  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 31... | 1200                                                      | 640                                               | 3280                                                             | 313                                              | 1300                                | 6.4                                     | 4260                                                  | --            | --                                 | 1.6                      | 5.6                                                |
| 31... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 8.0           | 5.5                                | --                       | --                                                 |
| AUG.  |                                                           |                                                   |                                                                  |                                                  |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 29... | 900                                                       | 420                                               | 2300                                                             | 323                                              | 920                                 | 5.2                                     | 3190                                                  | --            | --                                 | --                       | --                                                 |
| 29... | --                                                        | --                                                | --                                                               | --                                               | --                                  | --                                      | --                                                    | 7.6           | 2.5                                | --                       | --                                                 |



## LAS VEGAS WASH BASIN

09419750 LAS VEGAS WASH BELOW HENDERSON, NEV.

LOCATION.--Lat 36°05'55", long 114°56'40", in NW 1/4 sec.28, T.21 S., R.21 E., Clark County, 5 miles northeast of Henderson, and 3.5 miles upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

DRAINAGE AREA.--2,179 sq mi, of which 1,571 sq mi contribute directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: March 1969 to October 1972 (discontinued; final analysis is included here although sample was collected on first day of water year 1973).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO OCTOBER 1972

| DATE  | TIME  | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PU-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 28... | 1130  | --                          | 390                                              | 170                                           | 530                                        | 50                                                     | 258                                  | 0                                 |
| 28... | F1130 | 13.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| NOV.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1200  | --                          | 350                                              | 150                                           | 480                                        | 46                                                     | 243                                  | 0                                 |
| 30... | F1200 | 9.0                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| DEC.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1105  | --                          | 360                                              | 160                                           | 460                                        | 53                                                     | 245                                  | 0                                 |
| 30... | F1105 | 6.0                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JAN.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 31... | 1130  | --                          | 370                                              | 160                                           | 520                                        | 51                                                     | 231                                  | 0                                 |
| 31... | F1130 | 3.5                         | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| FEB.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 28... | 1200  | --                          | 410                                              | 180                                           | 510                                        | 53                                                     | 269                                  | 0                                 |
| 28... | F1200 | 13.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAR.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1030  | --                          | 410                                              | 170                                           | 570                                        | 51                                                     | 247                                  | 0                                 |
| 30... | F1030 | 11.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| APR.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 25... | 1045  | --                          | 430                                              | 180                                           | 610                                        | 55                                                     | 271                                  | 0                                 |
| 25... | F1045 | 16.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAY   |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 25... | 1100  | --                          | 470                                              | 200                                           | 610                                        | 60                                                     | 273                                  | 0                                 |
| 25... | F1100 | 18.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JUNE  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 1200  | --                          | 440                                              | 180                                           | 570                                        | 53                                                     | 268                                  | 0                                 |
| 21... | F1200 | 22.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JULY  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 31... | 1210  | --                          | 480                                              | 210                                           | 660                                        | 67                                                     | 279                                  | 0                                 |
| 31... | F1210 | 23.5                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| AUG.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 29... | 1345  | --                          | 370                                              | 160                                           | 530                                        | 50                                                     | 267                                  | 0                                 |
| 29... | F1345 | 20.5                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| OCT.  |       |                             |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 01... | 0850  | --                          | 390                                              | 170                                           | 500                                        | 50                                                     | 275                                  | 0                                 |
| 01... | F0850 | 15.0                        | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |

F: Field data.

## LAS VEGAS WASH BASIN

199

09419750 LAS VEGAS WASH BELOW HENDERSON, NEV.--Continued

## EXTREMES.--1971-72:

Specific conductance: Maximum, 5,890 micromhos July 31; minimum, 4,610 micromhos Nov. 30.  
 Water temperature: Maximum, 23.5°C July 31; minimum, 3.5°C Jan. 31.

## Period of record:

Specific conductance: Maximum, 6,920 micromhos June 25, 1969; minimum, 4,610 micromhos Nov. 30, 1971.  
 Water temperature (March 1969-August 1969, July 1970-September 1972): Maximum, 26.0°C July 23, 1969; minimum, 3.5°C Jan. 31, 1972.

REMARKS.--Discharge includes sewage effluent and waste water from industrial plants. Nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO OCTOBER 1972

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESIDUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SODIUM<br>AD-<br>SURP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|-----------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|--------------------------|----------------------------------------------------|
| OCT.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 28... | 1300                                                      | 880                                          | 3880                                                        | 1700                                | 5.6                                     | 5050                                                  | 7.8           | --                                 | 8.4                      | 6.7                                                |
| 28... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | --            | 9.4                                | --                       | --                                                 |
| NOV.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 1300                                                      | 810                                          | 3600                                                        | 1500                                | 5.4                                     | 4610                                                  | --            | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 8.1           | 10.3                               | --                       | --                                                 |
| DEC.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 1300                                                      | 760                                          | 3420                                                        | 1000                                | 5.1                                     | 4670                                                  | 7.7           | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | --            | 11.0                               | --                       | --                                                 |
| JAN.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 31... | 1400                                                      | 810                                          | 3500                                                        | 1600                                | 5.7                                     | 4990                                                  | --            | --                                 | --                       | --                                                 |
| 31... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 8.1           | 12.1                               | --                       | --                                                 |
| FEB.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 28... | 1500                                                      | 870                                          | 4000                                                        | 1800                                | 5.3                                     | 5240                                                  | --            | --                                 | --                       | --                                                 |
| 28... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 8.2           | 9.2                                | --                       | --                                                 |
| MAR.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 30... | 1500                                                      | 840                                          | 4180                                                        | 1700                                | 6.0                                     | 5130                                                  | --            | --                                 | --                       | --                                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 7.9           | 9.6                                | --                       | --                                                 |
| APR.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 25... | 1600                                                      | 930                                          | 4380                                                        | 1800                                | 6.2                                     | 5420                                                  | --            | --                                 | 5.8                      | 3.9                                                |
| 25... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 7.9           | --                                 | --                       | --                                                 |
| MAY   |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 25... | 1600                                                      | 1000                                         | 4480                                                        | 2000                                | 5.9                                     | 5850                                                  | --            | --                                 | --                       | --                                                 |
| 25... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 7.9           | --                                 | --                       | --                                                 |
| JUNE  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 21... | 1600                                                      | 990                                          | 4380                                                        | 1800                                | 5.8                                     | 5590                                                  | 7.6           | --                                 | --                       | --                                                 |
| 21... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | --            | 8.6                                | --                       | --                                                 |
| JULY  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 31... | 1700                                                      | 1100                                         | 4740                                                        | 2100                                | 6.3                                     | 5890                                                  | --            | --                                 | 6.8                      | 2.7                                                |
| 31... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 8.2           | 7.7                                | --                       | --                                                 |
| AUG.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 29... | 1400                                                      | 870                                          | 3920                                                        | 1600                                | 5.2                                     | 5120                                                  | --            | --                                 | --                       | --                                                 |
| 29... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 7.9           | 7.6                                | --                       | --                                                 |
| OCT.  |                                                           |                                              |                                                             |                                     |                                         |                                                       |               |                                    |                          |                                                    |
| 01... | 1400                                                      | 860                                          | 3860                                                        | 1700                                | 5.3                                     | 4990                                                  | --            | --                                 | --                       | --                                                 |
| 01... | --                                                        | --                                           | --                                                          | --                                  | --                                      | --                                                    | 7.9           | 8.4                                | --                       | --                                                 |

E: Estimated.

## LAS VEGAS WASH BASIN

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, 11 miles northwest of Boulder City, and about 0.8 mile upstream from high-water line of Lake Mead at elevation 1,221.4 ft above mean sea level.

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

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972 (data for the period January 1964 to September 1968 are available from the Water Quality Office, U.S. Environmental Protection Agency).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MS)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 28... | 0930  | --                      | --                          | 390                                              | 170                                                     | 520                                        | 49                                                     | 271                                  | 0                                 |
| 28... | F0930 | 53                      | 13.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| NOV.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 30... | 0930  | --                      | --                          | 350                                              | 150                                                     | 470                                        | 46                                                     | 250                                  | 0                                 |
| 30... | F0930 | 59                      | 8.0                         | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| DEC.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 30... | 0905  | --                      | --                          | 340                                              | 150                                                     | 460                                        | 54                                                     | 236                                  | 0                                 |
| 30... | F0905 | 70                      | 5.5                         | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| JAN.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 31... | 1330  | --                      | --                          | 380                                              | 170                                                     | 500                                        | 46                                                     | 231                                  | 0                                 |
| 31... | F1330 | 58                      | 4.5                         | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| FEB.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 28... | 1315  | --                      | --                          | 410                                              | 180                                                     | 530                                        | 54                                                     | 273                                  | 0                                 |
| 28... | F1315 | 47                      | 13.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| MAR.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 30... | 1200  | --                      | --                          | 410                                              | 170                                                     | 570                                        | 51                                                     | 249                                  | 0                                 |
| 30... | F1200 | 52                      | 13.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| APR.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 25... | 1230  | --                      | --                          | 430                                              | 180                                                     | 610                                        | 54                                                     | 273                                  | 0                                 |
| 25... | F1230 | 43                      | 17.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| MAY   |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 25... | 1215  | --                      | --                          | 460                                              | 190                                                     | 610                                        | 57                                                     | 276                                  | 0                                 |
| 25... | F1215 | 43                      | 19.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| JUNE  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 21... | 1310  | --                      | --                          | 440                                              | 180                                                     | 580                                        | 57                                                     | 273                                  | 0                                 |
| 21... | F1310 | 37                      | 22.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| JULY  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 31... | 1310  | --                      | --                          | 480                                              | 200                                                     | 670                                        | 64                                                     | 282                                  | 0                                 |
| 31... | F1310 | 27                      | 25.0                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |
| AUG.  |       |                         |                             |                                                  |                                                         |                                            |                                                        |                                      |                                   |
| 29... | 1420  | --                      | --                          | 430                                              | 170                                                     | 570                                        | 54                                                     | 274                                  | 0                                 |
| 29... | F1420 | 55                      | 20.5                        | --                                               | --                                                      | --                                         | --                                                     | --                                   | --                                |

F: Field data.

## 09419800 LAS VEGAS WASH NEAR BOULDER CITY, NEV.--Continued

## EXTREMES.--1971-72:

Specific conductance: Maximum, 5,800 micromhos July 31; minimum, 4,560 micromhos Dec. 30.

Water temperature: Maximum, 25.0°C July 31; minimum, 4.5°C Jan. 31.

## Period of record (1968-72):

Specific conductance: Maximum, 6,850 micromhos June 25, 1969; minimum, 4,560 micromhos Dec. 30, 1971.

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. Nutrient and trace-metal data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESIDUE AT<br>180°C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(FUNGUS PER<br>DAY)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>CONDUCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-----------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------|-----------------------------------------|--------------------------------------------------|---------------|------------------------------------|
| OCT.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 28... | 1300                                                      | 820                                          | 3940                                                        | 565                                                       | 1700                                | 5.3                                     | 4970                                             | 7.9           | --                                 |
| 28... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | --            | 10.4                               |
| NOV.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 30... | 1300                                                      | 750                                          | 3780                                                        | 612                                                       | 1500                                | 5.3                                     | 4580                                             | --            | --                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.2           | 11.0                               |
| DEC.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 30... | 1300                                                      | 730                                          | 3360                                                        | 635                                                       | 1500                                | 5.2                                     | 4560                                             | 7.8           | --                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | --            | 11.2                               |
| JAN.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 31... | 1400                                                      | 800                                          | 3780                                                        | 593                                                       | 1600                                | 5.4                                     | 4970                                             | --            | --                                 |
| 31... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.2           | 12.1                               |
| FEB.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 28... | 1500                                                      | 890                                          | 4040                                                        | 513                                                       | 1800                                | 5.5                                     | 5240                                             | --            | --                                 |
| 28... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.3           | 10.3                               |
| MAR.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 30... | 1500                                                      | 830                                          | 4120                                                        | 577                                                       | 1700                                | 6.0                                     | 5070                                             | --            | --                                 |
| 30... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.3           | 10.2                               |
| APR.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 25... | 1600                                                      | 920                                          | 4400                                                        | 510                                                       | 1800                                | 6.2                                     | 5420                                             | --            | --                                 |
| 25... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.3           | 9.5                                |
| MAY   |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 25... | 1600                                                      | 990                                          | 4360                                                        | 507                                                       | 1900                                | 6.0                                     | 5730                                             | --            | --                                 |
| 25... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.2           | 8.6                                |
| JUNE  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 21... | 1600                                                      | 950                                          | 4440                                                        | 442                                                       | 1800                                | 5.9                                     | 5510                                             | 7.7           | --                                 |
| 21... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | --            | 7.9                                |
| JULY  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 31... | 1700                                                      | 1100                                         | 4600                                                        | 340                                                       | 2000                                | 6.5                                     | 5800                                             | --            | --                                 |
| 31... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.4           | 7.7                                |
| AUG.  |                                                           |                                              |                                                             |                                                           |                                     |                                         |                                                  |               |                                    |
| 29... | 1500                                                      | 900                                          | 4040                                                        | 635                                                       | 1800                                | 5.9                                     | 5310                                             | --            | --                                 |
| 29... | --                                                        | --                                           | --                                                          | --                                                        | --                                  | --                                      | --                                               | 8.0           | 8.6                                |

| DATE  | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MANGA-<br>NESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>NICKEL<br>(NI)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>VANA-<br>DIUM<br>(V)<br>(UG/L) |
|-------|--------------------------|----------------------------------------------------|------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| OCT.  |                          |                                                    |                                          |                                                    |                                                   |                                            |                                            |                                          |                                          |                                             |                                                  |                                                  |
| 28... | 8.4                      | 4.2                                                | 1000                                     | 258                                                | 20                                                | 15                                         | 18                                         | 150                                      | 16                                       | <100                                        | ≤10                                              | --                                               |
| APR.  |                          |                                                    |                                          |                                                    |                                                   |                                            |                                            |                                          |                                          |                                             |                                                  |                                                  |
| 25... | 5.6                      | 3.5                                                | 40                                       | 70                                                 | 26                                                | 60                                         | 20                                         | 320                                      | 16                                       | <50                                         | 20                                               | <500                                             |
| JUL.  |                          |                                                    |                                          |                                                    |                                                   |                                            |                                            |                                          |                                          |                                             |                                                  |                                                  |
| 31... | 5.8                      | 2.6                                                | 30                                       | 80                                                 | 22                                                | 70                                         | 20                                         | 410                                      | 10                                       | <50                                         | 10                                               | <500                                             |



COLORADO RIVER MAIN STEM

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09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NEV.

LOCATION.--Lat 36°06'30", long 114°49'10", (unsurveyed), Clark County, 2.8 miles east-southeast of Las Vegas Beach, and 10 miles northeast of Henderson.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.

REMARKS.--Samples collected and field data furnished by the U.S. Bureau of Reclamation, Boulder City, Nev.; nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITROGEN<br>(N)<br>(MG/L) | ORGANIC<br>NITROGEN<br>(N)<br>(MG/L) | ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>SOLUBLE<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|---------------|-----------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|--------------------------|--------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 29... | 0             | 18.0                              | --                                            | 1060                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 29... | 10            | 16.0                              | 140                                           | 1120                                              | 8.2                    | 8.2                           | 0.42                     | 0.05                                 | 0.39                                 | <0.01                                      | 0.01                                                 |
| 29... | 175           | 16.0                              | 146                                           | 1160                                              | 8.3                    | 8.6                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| MAR.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 1...  | 0             | 14.0                              | --                                            | 1140                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 1...  | 10            | 14.0                              | 147                                           | 1130                                              | 8.6                    | 11.0                          | --                       | --                                   | --                                   | --                                         | --                                                   |
| 1...  | 190           | 12.0                              | 144                                           | 1190                                              | 8.2                    | 9.0                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| AUG.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 30... | 0             | 28.0                              | --                                            | 1120                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 30... | 10            | 28.0                              | 105                                           | 1120                                              | 8.3                    | 7.8                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| 30... | 186           | 13.5                              | 136                                           | 1140                                              | 8.2                    | 3.5                           | --                       | --                                   | --                                   | --                                         | --                                                   |

09420950 LAKE MEAD AT SADDLE ISLAND, NEV.

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 north-northeast of Boulder City.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.

REMARKS.--Samples collected and field data furnished by the U.S. Bureau of Reclamation, Boulder City, Nev.; nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) | NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITROGEN<br>(N)<br>(MG/L) | ORGANIC<br>NITROGEN<br>(N)<br>(MG/L) | ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>SOLUBLE<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|---------------|-----------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|--------------------------|--------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 29... | 0             | 16.5                              | --                                            | 1140                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 29... | 10            | 16.5                              | 128                                           | 1140                                              | 8.1                    | 8.2                           | 0.40                     | 0.02                                 | 0.34                                 | <0.01                                      | 0.01                                                 |
| 29... | 100           | 16.0                              | 140                                           | 1140                                              | 8.2                    | 8.1                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| 29... | 190           | 16.0                              | 138                                           | 1160                                              | 7.6                    | 4.7                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| MAR.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 1...  | 0             | 13.5                              | --                                            | 1130                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 1...  | 10            | 13.5                              | 145                                           | 1130                                              | 7.7                    | 10.5                          | --                       | --                                   | --                                   | --                                         | --                                                   |
| 1...  | 110           | 13.5                              | 145                                           | 1130                                              | 8.3                    | 10.3                          | --                       | --                                   | --                                   | --                                         | --                                                   |
| 1...  | 190           | 12.0                              | 147                                           | 1140                                              | 8.3                    | 8.5                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| AUG.  |               |                                   |                                               |                                                   |                        |                               |                          |                                      |                                      |                                            |                                                      |
| 30... | 0             | 28.5                              | --                                            | 1100                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 30... | 10            | 28.0                              | 104                                           | 1100                                              | 8.3                    | 8.4                           | --                       | --                                   | --                                   | --                                         | --                                                   |
| 30... | 110           | 18.0                              | --                                            | 1120                                              | --                     | --                            | --                       | --                                   | --                                   | --                                         | --                                                   |
| 30... | 186           | 13.5                              | 148                                           | 1120                                              | 8.1                    | 6.0                           | --                       | --                                   | --                                   | --                                         | --                                                   |



09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.

LOCATION.--Lat 36°00'58", long 114°44'13", in NE 1/4 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, approximately.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DEPTH<br>(FT) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SIO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) |
|-------|---------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|
| NOV.  |               |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |
| 02... | .0            | 19.0                        | 8.5                                                       | 89                                               | 30                                            | 110                                        | 5.0                                                    | 142                                               |
| 02... | 10            | 19.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 142                                               |
| 02... | 25            | 19.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 142                                               |
| 02... | 75            | 19.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 142                                               |
| 02... | 125           | 19.0                        | 8.7                                                       | 89                                               | 30                                            | 110                                        | 5.0                                                    | 142                                               |
| 02... | 175           | 15.5                        | 8.0                                                       | 90                                               | 32                                            | 100                                        | 5.0                                                    | 157                                               |
| 02... | 225           | 13.5                        | 10                                                        | 89                                               | 32                                            | 100                                        | 5.0                                                    | 161                                               |
| 02... | 250           | 13.0                        | 10                                                        | 89                                               | 32                                            | 100                                        | 5.0                                                    | 161                                               |
| 02... | 275           | 13.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 161                                               |
| 02... | 325           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 161                                               |
| 02... | 375           | 12.0                        | 10                                                        | 90                                               | 31                                            | 100                                        | 5.0                                                    | 161                                               |
| 02... | 430           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 163                                               |
| 30... | .0            | 16.0                        | 8.0                                                       | 87                                               | 33                                            | 110                                        | 5.0                                                    | 145                                               |
| 30... | 10            | 16.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 145                                               |
| 30... | 25            | 16.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 145                                               |
| 30... | 75            | 16.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 145                                               |
| 30... | 125           | 16.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 145                                               |
| 30... | 175           | 16.0                        | 8.7                                                       | 90                                               | 32                                            | 110                                        | 5.0                                                    | 155                                               |
| 30... | 225           | 14.0                        | 9.2                                                       | 89                                               | 32                                            | 100                                        | 5.0                                                    | 160                                               |
| 30... | 250           | 13.5                        | 8.9                                                       | 89                                               | 32                                            | 100                                        | 4.0                                                    | 161                                               |
| 30... | 275           | 13.0                        | 8.7                                                       | 89                                               | 31                                            | 100                                        | 4.0                                                    | 161                                               |
| 30... | 325           | 13.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 161                                               |
| 30... | 375           | 13.0                        | 9.2                                                       | 89                                               | 32                                            | 100                                        | 5.0                                                    | 161                                               |
| 30... | 432           | 12.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 163                                               |
| DEC.  |               |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |
| 24... | .0            | 14.0                        | 6.8                                                       | 89                                               | 32                                            | 110                                        | 5.0                                                    | 153                                               |
| 24... | 10            | 14.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 153                                               |
| 24... | 25            | 14.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 153                                               |
| 24... | 75            | 14.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 153                                               |
| 24... | 125           | 13.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 150                                               |
| 24... | 175           | 14.0                        | 7.2                                                       | 89                                               | 32                                            | 110                                        | 5.0                                                    | 150                                               |
| 24... | 225           | 14.0                        | 6.4                                                       | 90                                               | 32                                            | 110                                        | 5.0                                                    | 150                                               |
| 24... | 250           | 13.5                        | 6.8                                                       | 90                                               | 30                                            | 110                                        | 5.0                                                    | 155                                               |
| 24... | 275           | 13.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 157                                               |
| 24... | 325           | 12.0                        | 7.8                                                       | 90                                               | 30                                            | 100                                        | 4.0                                                    | 157                                               |
| 24... | 375           | 11.5                        | 7.8                                                       | 90                                               | 31                                            | 100                                        | 5.0                                                    | 163                                               |
| 24... | 432           | --                          | --                                                        | --                                               | --                                            | --                                         | --                                                     | 166                                               |
| FEB.  |               |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |
| 03... | .0            | 12.0                        | 8.5                                                       | 88                                               | 32                                            | 100                                        | 4.0                                                    | 155                                               |
| 03... | 10            | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 155                                               |
| 03... | 25            | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 155                                               |
| 03... | 75            | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 154                                               |
| 03... | 125           | 12.0                        | 8.2                                                       | 88                                               | 32                                            | 100                                        | 4.0                                                    | 154                                               |
| 03... | 175           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 154                                               |
| 03... | 225           | 12.0                        | 8.5                                                       | 89                                               | 32                                            | 100                                        | 4.0                                                    | 155                                               |
| 03... | 250           | 12.0                        | 8.0                                                       | 88                                               | 32                                            | 100                                        | 4.0                                                    | 155                                               |
| 03... | 275           | 12.0                        | 8.0                                                       | 88                                               | 32                                            | 110                                        | 4.0                                                    | 154                                               |
| 03... | 325           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 154                                               |
| 03... | 375           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 154                                               |
| 03... | 425           | 12.0                        | 8.0                                                       | 88                                               | 32                                            | 110                                        | 4.0                                                    | 154                                               |
| 03... | 435           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 154                                               |
| 29... | .0            | 13.5                        | 8.0                                                       | 88                                               | 32                                            | 110                                        | 4.0                                                    | 157                                               |
| 29... | 10            | 13.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 156                                               |
| 29... | 25            | 12.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 156                                               |
| 29... | 75            | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 156                                               |
| 29... | 125           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 156                                               |
| 29... | 175           | 12.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 155                                               |
| 29... | 225           | 12.0                        | 7.4                                                       | 89                                               | 32                                            | 110                                        | 4.0                                                    | 156                                               |
| 29... | 250           | 12.0                        | 7.6                                                       | 89                                               | 32                                            | 110                                        | 4.0                                                    | 156                                               |
| 29... | 275           | 12.0                        | 7.4                                                       | 89                                               | 32                                            | 110                                        | 4.0                                                    | 159                                               |
| 29... | 325           | 11.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 159                                               |
| 29... | 375           | 11.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 159                                               |
| 29... | 425           | 11.5                        | 7.6                                                       | 88                                               | 30                                            | 100                                        | 4.0                                                    | 160                                               |
| 29... | 438           | 11.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 160                                               |
| MAR.  |               |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |
| 28... | .0            | 15.5                        | 5.6                                                       | 86                                               | 34                                            | 110                                        | 5.0                                                    | 162                                               |
| 28... | 10            | 15.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 160                                               |
| 28... | 25            | 15.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 161                                               |
| 28... | 75            | 14.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 161                                               |
| 28... | 125           | 12.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 160                                               |
| 28... | 175           | 12.0                        | 5.8                                                       | 84                                               | 34                                            | 100                                        | 5.0                                                    | 160                                               |
| 28... | 225           | 11.5                        | 6.2                                                       | 85                                               | 32                                            | 110                                        | 5.0                                                    | 164                                               |
| 28... | 250           | 11.0                        | 5.8                                                       | 86                                               | 31                                            | 100                                        | 5.0                                                    | 162                                               |
| 28... | 275           | 11.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 163                                               |
| 28... | 325           | 11.0                        | 6.4                                                       | 84                                               | 32                                            | 100                                        | 5.0                                                    | 163                                               |
| 28... | 375           | 11.0                        | 6.2                                                       | 84                                               | 31                                            | 100                                        | 5.0                                                    | 162                                               |
| 28... | 425           | 11.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 162                                               |
| 28... | 437           | 11.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | 162                                               |

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1940 to September 1972.

REMARKS.--Samples and field data collected by Bureau of Reclamation. Non-nutrient samples analyzed by Metropolitan Water District of Southern California, LaVerne, Calif.; nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA\* WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-----------------------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|------------------------|------------------------------------|
| NOV.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 02... | 0                                 | 320                                          | 95                                                | 729                                                       | 350                                | 2.6                                     | 1140                                                  | 7.7                    | 7.0                                |
| 02... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.2                                |
| 02... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.0                    | 7.0                                |
| 02... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.0                                |
| 02... | 0                                 | 320                                          | 93                                                | 727                                                       | 350                                | 2.6                                     | 1150                                                  | 8.1                    | 7.0                                |
| 02... | 0                                 | 320                                          | 94                                                | 729                                                       | 360                                | 2.3                                     | 1160                                                  | 7.9                    | 4.2                                |
| 02... | 0                                 | 310                                          | 89                                                | 716                                                       | 350                                | 2.3                                     | 1140                                                  | 7.9                    | 6.2                                |
| 02... | 0                                 | 310                                          | 86                                                | 715                                                       | 350                                | 2.3                                     | 1140                                                  | 7.9                    | 6.4                                |
| 02... | 0                                 | --                                           | 89                                                | --                                                        | --                                 | --                                      | 1140                                                  | 7.9                    | 6.4                                |
| 02... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1140                                                  | 7.9                    | 6.0                                |
| 02... | 0                                 | 300                                          | 90                                                | 706                                                       | 350                                | 2.3                                     | 1140                                                  | 7.9                    | 5.0                                |
| 02... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1140                                                  | 7.8                    | 3.0                                |
| 30... | 0                                 | 320                                          | 95                                                | 731                                                       | 350                                | 2.5                                     | 1150                                                  | 7.8                    | 7.2                                |
| 30... | 0                                 | --                                           | 95                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.7                                |
| 30... | 0                                 | --                                           | 96                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.6                                |
| 30... | 0                                 | --                                           | 96                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.2                    | 7.1                                |
| 30... | 0                                 | --                                           | 96                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.7                                |
| 30... | 0                                 | 320                                          | 96                                                | 740                                                       | 360                                | 2.5                                     | 1150                                                  | 8.0                    | 5.2                                |
| 30... | 0                                 | 300                                          | 90                                                | 706                                                       | 350                                | 2.3                                     | 1150                                                  | 7.9                    | 5.2                                |
| 30... | 0                                 | 300                                          | 90                                                | 706                                                       | 350                                | 2.3                                     | 1140                                                  | 7.9                    | 6.1                                |
| 30... | 0                                 | 300                                          | 88                                                | 702                                                       | 350                                | 2.3                                     | 1140                                                  | 7.9                    | 6.1                                |
| 30... | 0                                 | --                                           | 86                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.0                    | 6.0                                |
| 30... | 0                                 | 310                                          | 89                                                | 716                                                       | 350                                | 2.3                                     | 1140                                                  | 7.8                    | 5.5                                |
| 30... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1150                                                  | 7.8                    | 2.7                                |
| DEC.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 29... | 0                                 | 320                                          | 93                                                | 733                                                       | 350                                | 2.5                                     | 1160                                                  | 8.1                    | 8.6                                |
| 29... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1160                                                  | 8.1                    | 8.6                                |
| 29... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1160                                                  | 8.2                    | 8.6                                |
| 29... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1160                                                  | 8.2                    | 8.4                                |
| 29... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1160                                                  | 8.2                    | 8.4                                |
| 29... | 0                                 | 320                                          | 92                                                | 731                                                       | 350                                | 2.5                                     | 1160                                                  | 8.2                    | 8.5                                |
| 29... | 0                                 | 320                                          | 97                                                | 736                                                       | 360                                | 2.5                                     | 1170                                                  | 8.2                    | 8.4                                |
| 29... | 0                                 | 320                                          | 93                                                | 733                                                       | 350                                | 2.6                                     | 1160                                                  | 8.2                    | 7.6                                |
| 29... | 0                                 | --                                           | 91                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 7.0                                |
| 29... | 0                                 | 310                                          | 87                                                | 706                                                       | 350                                | 2.3                                     | 1150                                                  | 7.9                    | 5.8                                |
| 29... | 0                                 | 310                                          | 87                                                | 712                                                       | 350                                | 2.3                                     | 1150                                                  | 8.0                    | 4.8                                |
| 29... | 0                                 | --                                           | 87                                                | --                                                        | --                                 | --                                      | 1150                                                  | 7.8                    | 2.7                                |
| FEB.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 03... | 0                                 | 310                                          | 95                                                | 716                                                       | 350                                | 2.3                                     | 1140                                                  | 7.2                    | 8.8                                |
| 03... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.1                    | 8.7                                |
| 03... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | 310                                          | 94                                                | 714                                                       | 350                                | 2.3                                     | 1140                                                  | 8.1                    | 8.2                                |
| 03... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 8.7                                |
| 03... | 0                                 | 310                                          | 94                                                | 715                                                       | 350                                | 2.3                                     | 1150                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | 310                                          | 94                                                | 714                                                       | 350                                | 2.3                                     | 1150                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | 310                                          | 95                                                | 725                                                       | 350                                | 2.6                                     | 1150                                                  | 8.1                    | 9.2                                |
| 03... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | --                                           | 95                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 8.8                                |
| 03... | 0                                 | 310                                          | 95                                                | 725                                                       | 350                                | 2.6                                     | 1150                                                  | 8.0                    | 8.6                                |
| 03... | 0                                 | --                                           | 96                                                | --                                                        | --                                 | --                                      | 1150                                                  | 7.9                    | 8.8                                |
| 29... | 0                                 | 310                                          | 93                                                | 724                                                       | 350                                | 2.6                                     | 1150                                                  | 8.3                    | 10.1                               |
| 29... | 0                                 | --                                           | 93                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.3                    | 10.2                               |
| 29... | 0                                 | --                                           | 93                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.2                    | 9.4                                |
| 29... | 0                                 | --                                           | 93                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.2                    | 8.6                                |
| 29... | 0                                 | --                                           | 93                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 8.6                                |
| 29... | 0                                 | --                                           | 93                                                | --                                                        | --                                 | --                                      | 1150                                                  | 8.1                    | 8.6                                |
| 29... | 0                                 | 310                                          | 94                                                | 726                                                       | 350                                | 2.5                                     | 1160                                                  | 8.1                    | 8.7                                |
| 29... | 0                                 | 310                                          | 94                                                | 726                                                       | 350                                | 2.5                                     | 1160                                                  | 8.1                    | 8.6                                |
| 29... | 0                                 | 310                                          | 92                                                | 725                                                       | 350                                | 2.5                                     | 1140                                                  | 8.1                    | 8.8                                |
| 29... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1120                                                  | 8.2                    | 8.6                                |
| 29... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1120                                                  | 8.1                    | 8.8                                |
| 29... | 0                                 | 300                                          | 88                                                | 699                                                       | 340                                | 2.3                                     | 1120                                                  | 8.2                    | 8.8                                |
| 29... | 0                                 | --                                           | 88                                                | --                                                        | --                                 | --                                      | 1120                                                  | 8.2                    | 8.6                                |
| MAR.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 26... | 0                                 | 310                                          | 92                                                | 724                                                       | 360                                | 2.5                                     | 1140                                                  | 7.8                    | 9.4                                |
| 26... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.4                    | 9.3                                |
| 26... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.4                    | 9.3                                |
| 26... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.4                    | 9.2                                |
| 26... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.2                    | 8.6                                |
| 26... | 0                                 | 310                                          | 90                                                | 709                                                       | 350                                | 2.3                                     | 1130                                                  | 8.2                    | 8.6                                |
| 26... | 0                                 | 310                                          | 88                                                | 720                                                       | 340                                | 2.6                                     | 1110                                                  | 8.1                    | 8.9                                |
| 26... | 0                                 | 310                                          | 86                                                | 706                                                       | 340                                | 2.4                                     | 1090                                                  | 8.2                    | 9.0                                |
| 26... | 0                                 | --                                           | 84                                                | --                                                        | --                                 | --                                      | 1090                                                  | 8.2                    | 9.2                                |
| 26... | 0                                 | 300                                          | 84                                                | 694                                                       | 340                                | 2.4                                     | 1090                                                  | 8.2                    | 9.2                                |
| 26... | 0                                 | 300                                          | 82                                                | 689                                                       | 340                                | 2.4                                     | 1070                                                  | 8.2                    | 9.0                                |
| 26... | 0                                 | --                                           | 82                                                | --                                                        | --                                 | --                                      | 1070                                                  | 8.3                    | 8.9                                |
| 26... | 0                                 | --                                           | 82                                                | --                                                        | --                                 | --                                      | 1070                                                  | 8.2                    | 9.0                                |

## COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DEPTH<br>(FT) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) |
|-------|---------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| APR.  |               |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |
| 20... | 0.0           | 16.0                        | 7.2                                          | 90                                               | 32                                            | 110                                        | 4.0                                                    | 160                                  |
| 20... | 10            | 16.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 159                                  |
| 20... | 25            | 16.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 159                                  |
| 20... | 75            | 14.5                        | 7.0                                          | 86                                               | 32                                            | 110                                        | 4.0                                                    | 159                                  |
| 20... | 125           | 12.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 159                                  |
| 20... | 175           | 12.0                        | 7.2                                          | 86                                               | 32                                            | 100                                        | 4.0                                                    | 159                                  |
| 20... | 225           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 160                                  |
| 20... | 250           | 11.5                        | 7.2                                          | 87                                               | 30                                            | 110                                        | 4.0                                                    | 161                                  |
| 20... | 275           | 11.5                        | 7.2                                          | 87                                               | 30                                            | 100                                        | 4.0                                                    | 161                                  |
| 20... | 325           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 162                                  |
| 20... | 375           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 162                                  |
| 20... | 435           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 162                                  |
| AUG.  |               |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |
| 03... | 0.0           | 25.5                        | 7.6                                          | 79                                               | 32                                            | 110                                        | 5.0                                                    | 131                                  |
| 03... | 10            | 25.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 131                                  |
| 03... | 25            | 25.0                        | 7.2                                          | 79                                               | 32                                            | 110                                        | 5.0                                                    | 129                                  |
| 03... | 75            | 18.5                        | 7.3                                          | 87                                               | 30                                            | 100                                        | 5.0                                                    | 154                                  |
| 03... | 125           | 14.5                        | 7.6                                          | 90                                               | 31                                            | 100                                        | 5.0                                                    | 157                                  |
| 03... | 175           | 13.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 159                                  |
| 03... | 225           | 12.0                        | 7.6                                          | 88                                               | 30                                            | 100                                        | 5.0                                                    | 160                                  |
| 03... | 250           | 11.5                        | 7.8                                          | 87                                               | 30                                            | 100                                        | 5.0                                                    | 161                                  |
| 03... | 275           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 161                                  |
| 03... | 325           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 162                                  |
| 03... | 375           | 11.5                        | 8.0                                          | 87                                               | 30                                            | 100                                        | 5.0                                                    | 163                                  |
| 03... | 435           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 163                                  |
| 31... | 0.0           | 28.0                        | 7.6                                          | 88                                               | 25                                            | 110                                        | 4.0                                                    | 122                                  |
| 31... | 10            | 28.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 122                                  |
| 31... | 25            | 27.5                        | 7.2                                          | 87                                               | 25                                            | 110                                        | 4.0                                                    | 120                                  |
| 31... | 75            | 20.0                        | 7.8                                          | 85                                               | 30                                            | 100                                        | 4.0                                                    | 149                                  |
| 31... | 125           | 16.0                        | 7.8                                          | 91                                               | 30                                            | 110                                        | 4.0                                                    | 160                                  |
| 31... | 175           | 13.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 160                                  |
| 31... | 225           | 12.0                        | 8.2                                          | 88                                               | 31                                            | 100                                        | 4.0                                                    | 161                                  |
| 31... | 250           | 12.0                        | 8.0                                          | 87                                               | 30                                            | 100                                        | 4.0                                                    | 161                                  |
| 31... | 275           | 12.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 161                                  |
| 31... | 325           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 161                                  |
| 31... | 375           | 11.5                        | 10                                           | 87                                               | 28                                            | 100                                        | 4.0                                                    | 162                                  |
| 31... | 435           | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | 162                                  |

COLORADO RIVER MAIN STEM

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09421000 LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | CAR-<br>BONATE<br>(LC3)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCIANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-----------------------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|------------------------|------------------------------------|
| APR.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 20... | 0                                 | 320                                          | 94                                                | 737                                                       | 360                                | 2.5                                     | 1130                                                  | 8.2                    | 9.6                                |
| 20... | --                                | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1130                                                  | 8.4                    | 9.6                                |
| 20... | 0                                 | --                                           | 94                                                | --                                                        | --                                 | --                                      | 1130                                                  | 8.4                    | 9.6                                |
| 20... | 0                                 | 310                                          | 92                                                | 722                                                       | 350                                | 2.6                                     | 1130                                                  | 8.3                    | 8.7                                |
| 20... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 8.2                    | 8.3                                |
| 20... | 0                                 | 310                                          | 90                                                | 711                                                       | 350                                | 2.3                                     | 1140                                                  | 8.1                    | 8.4                                |
| 20... | 0                                 | --                                           | 90                                                | --                                                        | --                                 | --                                      | 1120                                                  | 8.1                    | 8.6                                |
| 20... | 0                                 | 300                                          | 90                                                | 709                                                       | 340                                | 2.6                                     | 1090                                                  | 8.2                    | 8.8                                |
| 20... | 0                                 | 290                                          | 88                                                | 688                                                       | 340                                | 2.4                                     | 1080                                                  | 8.1                    | 8.8                                |
| 20... | 0                                 | --                                           | 88                                                | --                                                        | --                                 | --                                      | 1080                                                  | 8.1                    | 8.9                                |
| 20... | 0                                 | --                                           | 86                                                | --                                                        | --                                 | --                                      | 1080                                                  | 8.1                    | 8.6                                |
| 20... | 0                                 | --                                           | 86                                                | --                                                        | --                                 | --                                      | 1080                                                  | 8.1                    | 8.3                                |
| AUG.  |                                   |                                              |                                                   |                                                           |                                    |                                         |                                                       |                        |                                    |
| 03... | 0                                 | 320                                          | 96                                                | 714                                                       | 330                                | 2.6                                     | 1130                                                  | 8.1                    | 7.6                                |
| 03... | 0                                 | --                                           | 95                                                | --                                                        | --                                 | --                                      | 1130                                                  | 8.2                    | 7.5                                |
| 03... | 0                                 | 320                                          | 95                                                | 712                                                       | 330                                | 2.6                                     | 1130                                                  | 8.2                    | 7.5                                |
| 03... | 0                                 | 310                                          | 92                                                | 708                                                       | 340                                | 2.4                                     | 1140                                                  | 7.7                    | 3.0                                |
| 03... | 0                                 | 310                                          | 92                                                | 714                                                       | 350                                | 2.3                                     | 1150                                                  | 7.6                    | 5.2                                |
| 03... | 0                                 | --                                           | 91                                                | --                                                        | --                                 | --                                      | 1140                                                  | 7.7                    | 6.9                                |
| 03... | 0                                 | 300                                          | 91                                                | 702                                                       | 340                                | 2.3                                     | 1140                                                  | 7.7                    | 7.2                                |
| 03... | 0                                 | 300                                          | 87                                                | 697                                                       | 340                                | 2.4                                     | 1110                                                  | 7.8                    | 7.4                                |
| 03... | 0                                 | --                                           | 87                                                | --                                                        | --                                 | --                                      | 1110                                                  | 7.8                    | 7.4                                |
| 03... | 0                                 | --                                           | 87                                                | --                                                        | --                                 | --                                      | 1100                                                  | 7.8                    | 7.2                                |
| 03... | 0                                 | 290                                          | 87                                                | 688                                                       | 340                                | 2.4                                     | 1100                                                  | 7.8                    | 7.0                                |
| 03... | --                                | --                                           | 86                                                | --                                                        | --                                 | --                                      | 1100                                                  | 7.8                    | 6.4                                |
| 31... | 0                                 | 320                                          | 96                                                | 711                                                       | 320                                | 2.7                                     | 1120                                                  | 8.4                    | 8.1                                |
| 31... | 0                                 | --                                           | 96                                                | --                                                        | --                                 | --                                      | 1130                                                  | 8.4                    | 8.1                                |
| 31... | 0                                 | 310                                          | 98                                                | 700                                                       | 320                                | 2.7                                     | 1130                                                  | 8.4                    | 7.6                                |
| 31... | 0                                 | 300                                          | 94                                                | 695                                                       | 340                                | 2.4                                     | 1130                                                  | 7.8                    | 1.6                                |
| 31... | 0                                 | 310                                          | 94                                                | 728                                                       | 350                                | 2.6                                     | 1140                                                  | 7.7                    | 3.1                                |
| 31... | 0                                 | --                                           | 92                                                | --                                                        | --                                 | --                                      | 1140                                                  | 7.7                    | 5.7                                |
| 31... | 0                                 | 300                                          | 92                                                | 704                                                       | 350                                | 2.3                                     | 1130                                                  | 7.7                    | 6.8                                |
| 31... | 0                                 | 300                                          | 90                                                | 700                                                       | 340                                | 2.4                                     | 1120                                                  | 7.7                    | 7.0                                |
| 31... | 0                                 | --                                           | 88                                                | --                                                        | --                                 | --                                      | 1090                                                  | 7.8                    | 7.0                                |
| 31... | 0                                 | --                                           | 88                                                | --                                                        | --                                 | --                                      | 1090                                                  | 7.8                    | 7.5                                |
| 31... | 0                                 | 290                                          | 86                                                | 686                                                       | 330                                | 2.4                                     | 1090                                                  | 7.8                    | 7.1                                |
| 31... | 0                                 | --                                           | 88                                                | --                                                        | --                                 | --                                      | 1090                                                  | 7.8                    | 6.2                                |

| DATE          | DEPTH<br>(FT) | NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | POLY<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|---------------|---------------|--------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|----------------------------------------------------|
| NOV.<br>30... | 10            | 0.43                     | 0.02                                      | 0.39                                      | ≤0.01                                    | 0.01                                               |

## 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, approximately.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------------|
| OCT.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 13... | 0855  | --                      | --                          | 9.5                                          | 89                                               | 31                                            | 110                                        | 4.2                                                    | 171                                  | 0                                 | 320                                          |
| 13... | F0855 | 14220                   | 13.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| NOV.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 16... | 0915  | --                      | --                          | 9.4                                          | 92                                               | 31                                            | 110                                        | 4.6                                                    | 169                                  | 0                                 | 330                                          |
| 16... | F0915 | 9620                    | 12.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| DEC.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 14... | 1025  | --                      | --                          | 9.2                                          | 88                                               | 31                                            | 110                                        | 5.1                                                    | 159                                  | 0                                 | 330                                          |
| 14... | F1025 | 9960                    | 13.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JAN.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 18... | 1645  | --                      | --                          | 12                                           | 91                                               | 29                                            | 130                                        | 7.0                                                    | 157                                  | 0                                 | 350                                          |
| 18... | F1645 | 8320                    | 14.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| FEB.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 15... | 0930  | --                      | --                          | 8.9                                          | 88                                               | 31                                            | 110                                        | 5.9                                                    | 162                                  | 0                                 | 320                                          |
| 15... | F0930 | 18450                   | 12.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| MAR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 14... | 0920  | --                      | --                          | 9.0                                          | 85                                               | 31                                            | 110                                        | 5.3                                                    | 168                                  | 0                                 | 300                                          |
| 14... | F0923 | 28000                   | 11.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| APR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 18... | 1730  | --                      | --                          | 9.4                                          | 87                                               | 30                                            | 110                                        | 5.3                                                    | 165                                  | 0                                 | 300                                          |
| 18... | F1730 | 25400                   | 11.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| MAY   |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 15... | 1755  | --                      | --                          | 9.4                                          | 90                                               | 29                                            | 100                                        | 4.9                                                    | 165                                  | 0                                 | 300                                          |
| 15... | F1755 | 28060                   | 11.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JUNE  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 19... | 1540  | --                      | --                          | 9.3                                          | 87                                               | 30                                            | 110                                        | 5.0                                                    | 174                                  | 0                                 | 310                                          |
| 19... | F1540 | 18960                   | 12.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JULY  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 18... | 1110  | --                      | --                          | 9.2                                          | 81                                               | 31                                            | 110                                        | 4.9                                                    | 165                                  | 0                                 | 310                                          |
| 18... | F1110 | 25700                   | 12.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| AUG.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 21... | 1330  | 15800                   | 12.0                        | 9.1                                          | 80                                               | 30                                            | 100                                        | 5.4                                                    | 163                                  | 0                                 | 300                                          |
| SEP.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 26... | 1040  | 14620                   | 12.0                        | 9.2                                          | 86                                               | 29                                            | 100                                        | 4.4                                                    | 163                                  | 0                                 | 300                                          |

F: FIELD DATA





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 downstream from Davis Dam, 29 miles west of Kingman, Ariz., and 68 miles downstream from Hoover Dam.

DRAINAGE AREA.--169,300 sq mi, approximately.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------------|
| OCT.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 12... | 1530  | --                      | --                          | 9.3                                          | 84                                               | 33                                            | 120                                        | 4.4                                                    | 150                                  | 0                                 | 340                                          |
| 11... | F1530 | 14060                   | 20.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| NOV.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 15... | 1315  | --                      | --                          | 9.0                                          | 86                                               | 32                                            | 120                                        | 4.9                                                    | 154                                  | 0                                 | 340                                          |
| 15... | F1315 | 6950                    | 15.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| DEC.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 13... | 1355  | --                      | --                          | 9.1                                          | 88                                               | 32                                            | 120                                        | 5.9                                                    | 158                                  | 0                                 | 330                                          |
| 13... | F1355 | 9600                    | 11.5                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JAN.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 18... | 1130  | --                      | --                          | 9.3                                          | 90                                               | 32                                            | 110                                        | 6.9                                                    | 165                                  | 0                                 | 330                                          |
| 18... | F1130 | 4790                    | 9.0                         | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| FEB.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 14... | 1400  | --                      | --                          | 8.5                                          | 87                                               | 32                                            | 110                                        | 5.2                                                    | 166                                  | 0                                 | 330                                          |
| 14... | F1400 | 19090                   | 9.5                         | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| MAR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 13... | 1330  | --                      | --                          | 8.5                                          | --                                               | 32                                            | 110                                        | 5.4                                                    | 166                                  | 0                                 | 320                                          |
| 13... | F1330 | 19450                   | 13.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| APR.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 17... | 1300  | --                      | --                          | 8.5                                          | 89                                               | 31                                            | 120                                        | 5.2                                                    | 161                                  | 0                                 | 310                                          |
| 17... | F1300 | 22700                   | 15.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| MAY   |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 15... | 1500  | --                      | --                          | 8.2                                          | 90                                               | 30                                            | 110                                        | 5.1                                                    | 161                                  | 1                                 | 310                                          |
| 15... | F1500 | 20020                   | 18.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JUNE  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 19... | 0700  | --                      | --                          | 9.0                                          | 88                                               | 30                                            | 100                                        | 5.5                                                    | 168                                  | 0                                 | 310                                          |
| 19... | F0700 | 4420                    | 16.0                        | --                                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                | --                                           |
| JULY  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 17... | 1620  | 26100                   | 17.5                        | 9.1                                          | 85                                               | 30                                            | 110                                        | 5.0                                                    | 161                                  | 0                                 | 320                                          |
| AUG.  |       |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |                                              |
| 01... | 0730  | 9880                    | 18.0                        | 9.0                                          | 86                                               | 31                                            | 110                                        | 4.6                                                    | 154                                  | 0                                 | 320                                          |

F: FIELD DATA

09423000 COLORADO RIVER BELOW DAVIS DAM, ARIZ.-NEV.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1972.

REMARKS.--Nutrient data furnished by Water Quality Office, U.S. Environmental Protection Agency, San Francisco, Calif.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>BORON<br>(B)<br>(UG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|---------------------------------------------------|--------------------------------------------------|------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|
| OCT.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 12... | 98                                                | 0.3                                              | 170                                      | 765                                                            | 690                                                              | 26200                                            | 350                                | 2.8                                     | 1170                                                  | --            | --                                 |
| 13... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1040                                                  | 8.1           | 7.8                                |
| NOV.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 15... | 99                                                | .4                                               | 160                                      | 769                                                            | 784                                                              | 14700                                            | 350                                | 2.8                                     | 1190                                                  | --            | --                                 |
| 15... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1120                                                  | 8.0           | 9.7                                |
| DEC.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 13... | 100                                               | .4                                               | 160                                      | 765                                                            | 792                                                              | 19800                                            | 350                                | 2.8                                     | 1200                                                  | --            | --                                 |
| 13... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1200                                                  | 8.0           | 10.2                               |
| JAN.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 18... | 96                                                | .5                                               | 160                                      | 760                                                            | 800                                                              | 10300                                            | 360                                | 2.5                                     | 1190                                                  | --            | --                                 |
| 18... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1240                                                  | 7.9           | 11.7                               |
| FEB.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 14... | 98                                                | .4                                               | 150                                      | 755                                                            | 750                                                              | 38700                                            | 350                                | 2.6                                     | 1190                                                  | --            | --                                 |
| 14... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1220                                                  | 8.1           | 10.6                               |
| MAR.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 13... | 86                                                | .4                                               | 150                                      | --                                                             | 808                                                              | 42400                                            | --                                 | --                                      | 1160                                                  | --            | --                                 |
| 13... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1220                                                  | 8.1           | 9.5                                |
| APR.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 17... | 94                                                | .6                                               | --                                       | 740                                                            | 852                                                              | 52200                                            | 350                                | 2.8                                     | 1140                                                  | --            | --                                 |
| 17... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1080                                                  | 8.2           | 9.6                                |
| MAY   |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 15... | 95                                                | .3                                               | 120                                      | 731                                                            | 744                                                              | 40200                                            | 350                                | 2.6                                     | 1100                                                  | --            | --                                 |
| 15... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1120                                                  | 8.1           | 8.6                                |
| JUNE  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 19... | 95                                                | .4                                               | 150                                      | 723                                                            | 836                                                              | 9980                                             | 340                                | 2.3                                     | 1150                                                  | --            | --                                 |
| 19... | --                                                | --                                               | --                                       | --                                                             | --                                                               | --                                               | --                                 | --                                      | 1100                                                  | 7.6           | 7.8                                |
| JULY  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 17... | 93                                                | .4                                               | 150                                      | 734                                                            | 800                                                              | 51700                                            | 340                                | 2.6                                     | 1140                                                  | 7.8           | --                                 |
| AUG.  |                                                   |                                                  |                                          |                                                                |                                                                  |                                                  |                                    |                                         |                                                       |               |                                    |
| 01... | 96                                                | .5                                               | 160                                      | 735                                                            | 796                                                              | 21200                                            | 340                                | 2.6                                     | 1150                                                  | 7.9           | --                                 |

| DATE  | NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHOROUS<br>(P)<br>(MG/L) |
|-------|--------------------------|-----------------------------------------------------|
| OCT.  |                          |                                                     |
| 12... | 0.27                     | ≤0.01                                               |
| JAN.  |                          |                                                     |
| 18... | .41                      | .01                                                 |
| APR.  |                          |                                                     |
| 17... | .44                      | ≤.01                                                |

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

LOCATION.--Lat 39°12'05", long 114°41'15", in NW 1/4 sec. 32, T.16 N., R.65 E., White Pine County, at gaging station on left bank, 0.1 mile downstream from Clear Creek, 0.8 mile upstream from Cave Creek, and 11 miles east-southeast of Ely.

DRAINAGE AREA.--11.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1968 to September 1972.  
Water temperatures: October 1966 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|
| OCT.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 20... | 1600  | --                      | --                          | 7.4                                                       | 54                                               | 11                                            | 2.1                                        | .4                                                     | 200                                               | 0                                              | 8.8                                                       |
| 20... | F1600 | 5.7                     | 7.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| NOV.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 16... | 1315  | --                      | --                          | 7.3                                                       | --                                               | 11                                            | 2.6                                        | --                                                     | 200                                               | 0                                              | 8.3                                                       |
| 16... | F1315 | 5.4                     | 5.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| JAN.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 19... | 1115  | --                      | --                          | 7.1                                                       | 49                                               | 11                                            | 1.9                                        | .6                                                     | 201                                               | 0                                              | 7.8                                                       |
| 19... | F1115 | 4.4                     | 5.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| FEB.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 21... | 1425  | --                      | --                          | 6.9                                                       | 53                                               | 11                                            | 2.8                                        | .6                                                     | 208                                               | 0                                              | 11                                                        |
| 21... | F1425 | 3.8                     | 6.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| MAR.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 21... | 1415  | --                      | --                          | 7.6                                                       | 55                                               | 11                                            | 2.3                                        | .6                                                     | 216                                               | 0                                              | 11                                                        |
| 21... | F1415 | 4.8                     | 9.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| MAY   |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 02... | 1630  | --                      | --                          | 7.1                                                       | 52                                               | 11                                            | 3.2                                        | .6                                                     | 204                                               | 0                                              | 12                                                        |
| 02... | F1630 | 5.0                     | 10.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| 31... | 1220  | --                      | --                          | 6.6                                                       | 52                                               | 8.1                                           | 1.8                                        | .4                                                     | 190                                               | 0                                              | 11                                                        |
| 31... | F1220 | 7.9                     | 8.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| JUNE  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 26... | 1615  | --                      | --                          | 6.3                                                       | 48                                               | 8.9                                           | 1.8                                        | .4                                                     | 185                                               | 2                                              | 8.0                                                       |
| 26... | F1615 | 7.6                     | 8.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| JULY  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 19... | 0730  | --                      | --                          | 6.8                                                       | 51                                               | 10                                            | 2.8                                        | .5                                                     | 189                                               | 0                                              | 11                                                        |
| 19... | F0730 | 5.6                     | 7.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| AUG.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 30... | 1245  | --                      | --                          | 6.3                                                       | 50                                               | 10                                            | 1.7                                        | .6                                                     | 199                                               | 0                                              | 9.4                                                       |
| 30... | F1245 | 4.5                     | 9.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |
| SEP.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |                                                           |
| 23... | 1050  | --                      | --                          | 6.7                                                       | 51                                               | 11                                            | 1.6                                        | .5                                                     | 192                                               | 0                                              | 8.1                                                       |
| 23... | F1050 | 4.2                     | 6.5                         | --                                                        | --                                               | --                                            | --                                         | --                                                     | --                                                | --                                             | --                                                        |

F: Field data.

STEPTOE VALLEY

213

10244950 STEPTOE CREEK NEAR ELY, NEV.--Continued

EXTREMES.--1971-72:

Specific conductance: Maximum, 334 micromhos Nov. 16; minimum, 297 micromhos June 26.

Water temperature: Maximum 10.0°C several days in June, July, and August; minimum, 3.0 Jan. 29, 30, Feb. 2.

Period of record:

Specific conductance: Maximum, 382 micromhos Apr. 2, 1969; minimum, 249 micromhos, Jan. 27, 1971.

Water temperature: Maximum, 11.0°C on many days in May, July, and August of most years; minimum, 3.0°C Feb. 21, 1968, and on several days in 1970-72.

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|-------|---------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|-----------------------------------------------------|
| OCT.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 20... | 1.5                                               | .33                                                           | .01                                                          | 185                                                            | 2.95                                             | 180                                 | .1                                      | 314                                                   | --            | --                                 | 0.2                                                 |
| 20... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 7.4           | 11.0                               | --                                                  |
| NOV.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 16... | 2.3                                               | .21                                                           | .06                                                          | E190                                                           | E2.77                                            | 120                                 | .1                                      | 334                                                   | --            | --                                 | 0.4                                                 |
| 16... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.2           | 11.0                               | --                                                  |
| JAN.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 19... | 1.4                                               | .14                                                           | .01                                                          | 178                                                            | 2.12                                             | 170                                 | .1                                      | 325                                                   | --            | --                                 | 0.2                                                 |
| 19... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.5           | 9.7                                | --                                                  |
| FEB.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 21... | 3.0                                               | .11                                                           | .00                                                          | 191                                                            | 1.97                                             | 180                                 | .1                                      | 328                                                   | --            | --                                 | 0.5                                                 |
| 21... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.0           | 10.0                               | --                                                  |
| MAR.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 21... | 2.2                                               | .15                                                           | .02                                                          | 197                                                            | 2.56                                             | 180                                 | .1                                      | 326                                                   | --            | --                                 | 0.1                                                 |
| 21... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.6           | 7.9                                | --                                                  |
| MAY   |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 02... | 2.7                                               | .13                                                           | .00                                                          | 190                                                            | 2.56                                             | 180                                 | .1                                      | 322                                                   | --            | --                                 | 0.1                                                 |
| 02... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.5           | 8.5                                | --                                                  |
| 31... | 3.0                                               | .13                                                           | .00                                                          | 173                                                            | 3.72                                             | 160                                 | .3                                      | 307                                                   | --            | --                                 | 0.7                                                 |
| 31... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.3           | 8.7                                | --                                                  |
| JUNE  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 26... | 1.1                                               | .10                                                           | .02                                                          | 168                                                            | 3.44                                             | 160                                 | .1                                      | 297                                                   | 8.4           | --                                 | 0.4                                                 |
| 26... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | --            | 8.7                                | --                                                  |
| JULY  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 19... | 2.7                                               | .14                                                           | .00                                                          | 173                                                            | 2.68                                             | 170                                 | .1                                      | 307                                                   | --            | --                                 | 0.3                                                 |
| 19... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.4           | 9.0                                | --                                                  |
| AUG.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 30... | 1.8                                               | .19                                                           | .01                                                          | 179                                                            | 2.17                                             | 170                                 | .1                                      | 314                                                   | --            | --                                 | 2.4                                                 |
| 30... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.0           | 9.0                                | --                                                  |
| SEP.  |                                                   |                                                               |                                                              |                                                                |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 23... | 1.1                                               | .19                                                           | .02                                                          | 175                                                            | 1.98                                             | 170                                 | .1                                      | 308                                                   | --            | --                                 | 0.4                                                 |
| 23... | --                                                | --                                                            | --                                                           | --                                                             | --                                               | --                                  | --                                      | --                                                    | 8.0           | 9.2                                | --                                                  |

E: Estimated.

10244950 STEPTOE CREEK NEAR ELY, NEV.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 5.5     | 4.5 | 5.5      | 4.5 | 5.5      | 4.5 | ---     | --- | 4.0      | 3.5 | 5.5       | 4.0 |
| 2     | 6.5     | 5.0 | 5.5      | 4.5 | 5.5      | 4.5 | ---     | --- | 4.0      | 3.0 | 6.5       | 5.0 |
| 3     | 7.5     | 5.5 | 6.0      | 5.0 | 5.0      | 4.5 | ---     | --- | 4.5      | 3.5 | 7.0       | 5.0 |
| 4     | 7.5     | 5.5 | 6.5      | 5.0 | 4.5      | 4.5 | ---     | --- | 4.5      | 4.0 | 7.5       | 5.0 |
| 5     | 8.0     | 6.0 | 6.0      | 4.5 | 5.5      | 4.5 | ---     | --- | 4.5      | 4.0 | 7.5       | 5.0 |
| 6     | 8.0     | 6.5 | 5.5      | 4.5 | 5.5      | 4.5 | ---     | --- | 5.0      | 4.5 | 7.0       | 5.0 |
| 7     | 8.5     | 6.5 | 6.0      | 4.5 | 5.0      | 4.0 | ---     | --- | 5.0      | 4.0 | 7.5       | 5.0 |
| 8     | 8.0     | 6.5 | 6.0      | 5.0 | 5.0      | 4.0 | ---     | --- | 5.0      | 4.0 | 8.0       | 5.5 |
| 9     | 8.5     | 6.5 | 6.0      | 5.5 | 5.5      | 4.0 | ---     | --- | 5.0      | 4.0 | 8.5       | 5.5 |
| 10    | 8.5     | 6.5 | 6.5      | 5.0 | 5.0      | 4.0 | ---     | --- | 5.0      | 4.0 | 8.5       | 5.5 |
| 11    | 8.0     | 6.5 | 6.5      | 5.5 | 4.5      | 4.0 | ---     | --- | 5.0      | 4.0 | 8.5       | 5.5 |
| 12    | 8.0     | 6.5 | 6.0      | 5.0 | 4.5      | 4.5 | ---     | --- | 5.0      | 4.5 | 8.0       | 5.5 |
| 13    | 8.0     | 6.5 | 5.5      | 4.5 | 4.5      | 4.0 | ---     | --- | 5.0      | 4.5 | 8.0       | 6.0 |
| 14    | 7.5     | 6.0 | 5.0      | 4.5 | 5.0      | 4.0 | ---     | --- | 5.5      | 4.5 | 8.0       | 5.5 |
| 15    | 7.5     | 5.5 | 5.5      | 4.5 | 5.0      | 4.5 | ---     | --- | 5.5      | 4.5 | 8.0       | 5.0 |
| 16    | 6.5     | 5.0 | 5.0      | 4.5 | 4.5      | 4.0 | ---     | --- | 5.5      | 5.0 | 8.5       | 5.0 |
| 17    | 5.5     | 5.0 | 5.5      | 4.5 | 5.0      | 4.5 | ---     | --- | 5.5      | 4.5 | 9.0       | 5.5 |
| 18    | 6.0     | 5.0 | 5.0      | 4.5 | 5.0      | 4.5 | ---     | --- | 5.5      | 4.5 | 8.5       | 5.5 |
| 19    | 6.5     | 5.0 | 5.5      | 4.5 | 5.0      | 4.5 | 5.0     | 4.5 | 6.0      | 5.0 | 8.0       | 5.0 |
| 20    | 7.0     | 5.5 | 5.0      | 4.5 | 5.0      | 4.5 | 4.5     | 4.0 | 6.0      | 5.0 | 8.5       | 5.0 |
| 21    | 7.0     | 6.0 | 5.5      | 5.0 | 5.0      | 4.5 | 4.5     | 4.0 | 6.0      | 5.0 | 9.0       | 5.5 |
| 22    | 7.5     | 5.5 | 5.5      | 5.0 | 5.5      | 5.0 | 4.5     | 4.0 | 6.0      | 5.0 | ---       | --- |
| 23    | 7.0     | 5.5 | 5.5      | 4.5 | 5.5      | 5.0 | 4.5     | 3.5 | 5.5      | 4.0 | ---       | --- |
| 24    | 6.0     | 5.5 | 6.0      | 5.0 | 5.5      | 5.0 | 4.5     | 3.5 | 6.0      | 4.5 | ---       | --- |
| 25    | 6.0     | 5.0 | 5.5      | 5.0 | 5.5      | 4.5 | 4.0     | 3.5 | 5.5      | 4.5 | ---       | --- |
| 26    | 6.5     | 5.0 | 6.0      | 5.0 | 5.5      | 4.5 | 4.5     | 3.5 | 6.0      | 4.5 | ---       | --- |
| 27    | 6.5     | 4.5 | 5.5      | 4.5 | 5.0      | 4.5 | 4.0     | 3.5 | 6.5      | 4.5 | ---       | --- |
| 28    | 5.0     | 4.5 | 5.0      | 4.5 | 5.0      | 4.0 | 3.5     | 3.5 | 6.5      | 4.5 | ---       | --- |
| 29    | 5.0     | 4.5 | 5.0      | 4.5 | ---      | --- | 4.0     | 3.0 | 6.0      | 4.5 | ---       | --- |
| 30    | 5.5     | 4.5 | 5.5      | 4.5 | ---      | --- | 4.0     | 3.0 | ---      | --- | ---       | --- |
| 31    | 5.5     | 4.5 | ---      | --- | ---      | --- | 4.5     | 3.5 | ---      | --- | ---       | --- |
| MONTH | 8.5     | 4.5 | 6.5      | 4.5 | 5.5      | 4.0 | ---     | --- | 6.5      | 3.0 | ---       | --- |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | ---     | --- | ---      | --- | 9.5      | 7.0 | 10.0    | 7.5 | 9.0      | 7.5 | 8.5       | 7.5 |
| 2     | ---     | --- | ---      | --- | 9.0      | 7.5 | 10.0    | 7.5 | 9.5      | 7.0 | 9.0       | 7.5 |
| 3     | ---     | --- | ---      | --- | 8.5      | 7.5 | 9.5     | 7.0 | 9.5      | 7.0 | 9.0       | 7.5 |
| 4     | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.5     | 7.0 | 9.5      | 7.0 | 8.0       | 7.5 |
| 5     | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.0     | 7.5 | 9.5      | 7.0 | 8.0       | 7.0 |
| 6     | ---     | --- | ---      | --- | 8.5      | 7.5 | 10.0    | 7.5 | 10.0     | 7.0 | 8.5       | 6.5 |
| 7     | ---     | --- | ---      | --- | 8.5      | 7.5 | 9.5     | 7.0 | 9.5      | 7.0 | 9.0       | 7.0 |
| 8     | ---     | --- | ---      | --- | 8.5      | 7.5 | 10.0    | 7.5 | 9.5      | 7.0 | 9.0       | 7.0 |
| 9     | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.5     | 7.5 | 9.5      | 7.0 | 9.0       | 7.0 |
| 10    | ---     | --- | ---      | --- | 9.0      | 7.0 | 10.0    | 7.5 | 9.0      | 7.5 | 9.0       | 7.0 |
| 11    | ---     | --- | ---      | --- | 9.0      | 6.5 | 10.0    | 7.5 | 10.0     | 7.5 | 8.5       | 6.5 |
| 12    | ---     | --- | ---      | --- | 9.5      | 7.0 | 10.0    | 7.5 | 9.0      | 7.5 | 8.5       | 6.5 |
| 13    | ---     | --- | ---      | --- | 9.5      | 7.0 | 10.0    | 7.5 | 9.0      | 7.5 | 9.0       | 6.0 |
| 14    | ---     | --- | ---      | --- | 9.0      | 7.0 | 10.0    | 7.5 | 8.5      | 7.5 | 9.0       | 6.5 |
| 15    | ---     | --- | ---      | --- | 9.5      | 7.0 | 10.0    | 7.5 | 9.0      | 7.5 | 9.0       | 6.5 |
| 16    | ---     | --- | ---      | --- | 9.5      | 7.0 | ---     | --- | 9.0      | 6.5 | 9.0       | 6.5 |
| 17    | ---     | --- | ---      | --- | 9.5      | 7.0 | ---     | --- | 9.0      | 6.5 | 9.0       | 7.0 |
| 18    | ---     | --- | ---      | --- | 9.0      | 7.0 | ---     | --- | 8.0      | 6.5 | 8.5       | 7.0 |
| 19    | ---     | --- | ---      | --- | 8.5      | 7.0 | 9.5     | 7.0 | 8.5      | 7.0 | 8.5       | 7.0 |
| 20    | ---     | --- | ---      | --- | 9.0      | 7.0 | 8.0     | 7.0 | 9.0      | 7.0 | 8.5       | 6.5 |
| 21    | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.0     | 6.5 | 9.0      | 7.0 | 9.0       | 6.5 |
| 22    | ---     | --- | ---      | --- | 8.0      | 7.0 | 9.0     | 6.5 | 9.5      | 7.0 | 8.5       | 6.5 |
| 23    | ---     | --- | ---      | --- | 8.5      | 7.0 | 9.5     | 6.5 | 9.0      | 6.5 | 8.0       | 6.5 |
| 24    | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.0     | 7.0 | 9.0      | 6.5 | 8.0       | 6.0 |
| 25    | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.5     | 6.5 | 8.5      | 7.0 | 7.5       | 5.5 |
| 26    | ---     | --- | ---      | --- | 9.0      | 7.0 | 9.0     | 7.0 | 9.0      | 6.5 | 8.5       | 6.5 |
| 27    | ---     | --- | ---      | --- | 9.5      | 7.0 | 9.5     | 6.5 | 8.5      | 7.0 | 7.5       | 6.5 |
| 28    | ---     | --- | ---      | --- | 10.0     | 7.0 | 9.5     | 7.0 | 8.5      | 7.0 | 8.5       | 6.5 |
| 29    | ---     | --- | ---      | --- | 10.0     | 7.5 | 9.5     | 7.0 | 8.5      | 7.0 | 8.5       | 6.0 |
| 30    | ---     | --- | ---      | --- | 9.0      | 7.0 | 10.0    | 7.5 | 9.0      | 7.0 | 8.0       | 6.0 |
| 31    | ---     | --- | 8.5      | 7.5 | ---      | --- | 10.0    | 7.5 | 8.5      | 7.5 | ---       | --- |
| MONTH | ---     | --- | ---      | --- | 10.0     | 6.5 | 10.0    | 6.5 | 10.0     | 6.5 | 9.0       | 5.5 |
| YEAR  | 10.0    | 3.0 |          |     |          |     |         |     |          |     |           |     |

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10244950 STEPTOE CREEK NEAR ELY, NEV.--Continued

TOTAL EXTRACTABLE TRACE-METAL CONCENTRATIONS, IN MICROGRAMS PER LITER, FROM SPECTROGRAPHIC ANALYSIS

| DATE       | ALU-MINUM (AL) | IRON (FE)                               | MAN-GANESE (MN)                         | MOLYB-DENUM (MO)                        | NICKEL (NI)                             | VANA-DIUM (V)                             | ZINC (ZN)                                 | BIS-MUTH (BI)                             | CAD-MIUM (CD)                                    |                                       |                                         |
|------------|----------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------|-----------------------------------------|
| OCT. 20... | 1.7            | 91                                      | <1.4                                    | <0.3                                    | <0.3                                    | 0.5                                       | <5.7                                      | <0.3                                      | <1.4                                             |                                       |                                         |
| DATE       | CO-BALT (CO)   | COP-PER (CU)                            | CHRO-MIUM (CR)                          | GAL-LIUM (GA)                           | GERMA-NIUM (GE)                         | LEAD (PB)                                 | TITA-NIUM (TI)                            | BERYL-LIUM (BE)                           |                                                  |                                       |                                         |
| OCT. 20... | <1.4           | <1.4                                    | <1.4                                    | <5.7                                    | <0.3                                    | <1.4                                      | <0.6                                      | <0.6                                      |                                                  |                                       |                                         |
| DATE       | TIME           | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)        | DIS-SOLVED NATURAL URANIUM (U) (UG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) |
| OCT. 20... | 1600           | 2.4                                     | .8                                      | <.4                                     | <.1                                     | 1.0                                       | 1.2                                       | <.4                                       | <.4                                              | .46                                   | .08                                     |
| DATE       | TIME           | ALDRIN (UG/L)                           | DDT (UG/L)                              | DDE (UG/L)                              | DDT (UG/L)                              | DI-ELDRIN (UG/L)                          | ENDRIN (UG/L)                             | HEPTA-CHLOR (UG/L)                        | HEPTA-CHLOR EPOXIDE (UG/L)                       |                                       |                                         |
| OCT. 20... | 1600           | .00                                     | .00                                     | .00                                     | .00                                     | .00                                       | .00                                       | .00                                       | .00                                              | .00                                   | .00                                     |
| DATE       | TIME           | LINDANE (UG/L)                          | CHLOR-DANE (UG/L)                       | PARA-THION (UG/L)                       | METHYL PARA-THION (UG/L)                | MALA-THION (UG/L)                         | DI-AZINON (UG/L)                          | 2,4-D (UG/L)                              | 2,4,5-T (UG/L)                                   | SILVEX (UG/L)                         |                                         |
| OCT. 20... |                | .00                                     | .0                                      | .00                                     | .00                                     | .00                                       | .00                                       | .00                                       | .00                                              | .00                                   |                                         |
| DATE       | TIME           | ALDRIN IN BOTTOM DE-POSITS (UG/KG)      | DDT IN BOTTOM DE-POSITS (UG/KG)         | DDE IN BOTTOM DE-POSITS (UG/KG)         | DDT IN BOTTOM DE-POSITS (UG/KG)         | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)     | ENDRIN IN BOTTOM DE-POSITS (UG/KG)        | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)   | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG)   | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)  |
| OCT. 20... | 1600           | <.2                                     | <.2                                     | <.2                                     | <.2                                     | <.2                                       | <.2                                       | <.2                                       | <.2                                              | <.2                                   | <1.0                                    |
| DATE       | TIME           | TEMP-ERATURE (DEG C) (00010)            | DIS-CHARGE (CFS) (00060)                | SUS-PENDED SEDI-MENT (MG/L) (00154)     | SUS-PENDED SEDI-MENT (MG/L) (00155)     |                                           |                                           |                                           |                                                  |                                       |                                         |
| OCT. 20... | 1600           | 7.0                                     | 5.9                                     | 23                                      | .37                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| JAN. 19... | 1115           | 5.5                                     | 4.4                                     | 19                                      | .23                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| FEB. 21... | 1425           | 6.5                                     | 3.8                                     | 35                                      | .36                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| MAR. 21... | 1420           | 9.0                                     | 4.8                                     | 49                                      | .64                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| MAY 02...  | 1650           | 10.0                                    | 5.0                                     | 47                                      | .63                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| JUNE 20... | 1700           | 8.5                                     | 7.6                                     | 25                                      | .51                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| JULY 19... | 0815           | 7.0                                     | 5.6                                     | 12                                      | .18                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| AUG. 30... | 1245           | 9.5                                     | 4.5                                     | 11                                      | .13                                     |                                           |                                           |                                           |                                                  |                                       |                                         |
| SEP. 23... | 1050           | 6.5                                     | 4.2                                     | 21                                      | .24                                     |                                           |                                           |                                           |                                                  |                                       |                                         |



## BIG SMOKY VALLEY

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 on right bank, 600 ft upstream from diversion, 3 miles west of State Highway 8A, and 15 miles northwest of Round Mountain.

DRAINAGE AREA.--20 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1972.

Water temperatures: April 1966 to September 1968, November 1969 to September 1972.

EXTREMES.--1971-72:

Specific conductance: Maximum, 125 micromhos Aug. 31; minimum, 86 micromhos June 5.

Water temperature: Maximum, 17.0°C on several days in July and August; minimum, freezing point on several days in December 1971 and January 1972.

Period of record:

Specific conductance: Maximum 140 micromhos Dec. 18, 1970; minimum, 75 micromhos June 16, 1971.

Water temperature: Maximum, 17°C July 25, 29, 1966 and on several days in July and August 1972; minimum, freezing point on several days in many years.

REMARKS.--Hourly water-quality data for Apr. 26 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 1971 TO SEPTEMBER 1972

| DATE  | TIME  | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) |
|-------|-------|-------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------|
| OCT.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 13... | 1000  | --                      | --                          | 22                                                        | 16                                               | 1.2                                           | 6.3                                        | 1.2                                                       | 68                                                | 0                                              |
| 13... | F1000 | 1.7                     | 8.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| NOV.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 10... | 0800  | --                      | --                          | 21                                                        | 16                                               | 1.6                                           | 6.0                                        | .9                                                        | 67                                                | 0                                              |
| 10... | F0800 | 1.8                     | 3.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| DEC.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 03... | 1100  | --                      | --                          | 21                                                        | 16                                               | 1.4                                           | 5.9                                        | .7                                                        | 69                                                | 0                                              |
| 03... | F1100 | 1.5                     | .0                          | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| JAN.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 06... | 1310  | --                      | --                          | 20                                                        | 15                                               | 1.3                                           | 5.9                                        | .7                                                        | 66                                                | 0                                              |
| 06... | F1310 | 2.4                     | .0                          | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| FEB.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 02... | 1150  | --                      | --                          | 20                                                        | 17                                               | 1.5                                           | 5.5                                        | 1.0                                                       | 68                                                | 0                                              |
| 02... | F1150 | 2.2                     | .0                          | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| MAR.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 04... | 1100  | --                      | --                          | 20                                                        | 16                                               | 1.2                                           | 5.8                                        | 1.0                                                       | 65                                                | 0                                              |
| 04... | F1100 | 3.5                     | 6.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| APR.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 07... | 1030  | --                      | --                          | 19                                                        | 17                                               | 1.5                                           | 5.9                                        | .7                                                        | 59                                                | 0                                              |
| 07... | F1030 | 3.7                     | 7.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| MAY   |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 09... | 1200  | --                      | --                          | 19                                                        | 13                                               | 1.1                                           | 5.0                                        | 1.5                                                       | 54                                                | 0                                              |
| 09... | F1200 | 8.2                     | 5.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| JUNE  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 05... | 1030  | --                      | --                          | 20                                                        | 11                                               | 1.0                                           | 5.1                                        | .7                                                        | 50                                                | 0                                              |
| 05... | F1030 | 9.7                     | 9.0                         | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| 28... | 1015  | --                      | --                          | 21                                                        | 14                                               | 1.2                                           | 5.9                                        | .8                                                        | 57                                                | 0                                              |
| 28... | F1015 | 4.3                     | 11.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| JULY  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 20... | 0845  | --                      | --                          | 22                                                        | 17                                               | 1.3                                           | 6.1                                        | .9                                                        | 63                                                | 0                                              |
| 20... | F0845 | 1.7                     | 11.0                        | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |
| AUG.  |       |                         |                             |                                                           |                                                  |                                               |                                            |                                                           |                                                   |                                                |
| 31... | 1300  | --                      | --                          | 21                                                        | 17                                               | 1.3                                           | 6.4                                        | .7                                                        | 72                                                | 0                                              |
| 31... | F1300 | 1.0                     | 13.5                        | --                                                        | --                                               | --                                            | --                                         | --                                                        | --                                                | --                                             |

F: Field data

## BIG SMOKY VALLEY

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| OCT.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 13... | 5.8                                          | 1.3                                               | .1                                               | .00                                                           | .000                                       | .00                                        | .09                                                         | .08                                       | .17                                     |
| 13... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| NOV.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 10... | 3.8                                          | 1.7                                               | --                                               | .05                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 10... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| DEC.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 03... | 5.5                                          | 1.2                                               | --                                               | .02                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 03... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JAN.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 06... | 6.5                                          | 1.8                                               | .2                                               | .06                                                           | .000                                       | .06                                        | .00                                                         | .20                                       | .26                                     |
| 06... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| FEB.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 02... | 6.9                                          | 1.9                                               | .2                                               | .03                                                           | .000                                       | .03                                        | .00                                                         | .52                                       | .55                                     |
| 02... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAR.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 04... | 7.0                                          | --                                                | .0                                               | .03                                                           | .000                                       | .03                                        | .05                                                         | .02                                       | .10                                     |
| 04... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| APR.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 07... | 6.7                                          | 1.6                                               | .1                                               | .00                                                           | .000                                       | .00                                        | .05                                                         | .02                                       | .07                                     |
| 07... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAY   |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 09... | 4.9                                          | 1.2                                               | --                                               | .10                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 09... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JUNE  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 05... | 4.5                                          | 1.4                                               | --                                               | .10                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 05... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 28... | 4.5                                          | 1.2                                               | .1                                               | .00                                                           | .000                                       | .00                                        | .01                                                         | --                                        | --                                      |
| 28... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JULY  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 20... | 5.3                                          | 1.0                                               | --                                               | .04                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| 20... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |
| AUG.  |                                              |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 31... | 5.8                                          | 1.4                                               | .2                                               | .02                                                           | .000                                       | .02                                        | .02                                                         | --                                        | --                                      |
| 31... | --                                           | --                                                | --                                               | --                                                            | --                                         | --                                         | --                                                          | --                                        | --                                      |

| DATE  | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|-------|--------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|------------------------------------|-----------------------------------------------------|
| OCT.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 13... | .01                                                          | .06                                       | 98                                                                  | .40                                              | 45                                  | .4                                      | 123                                                   | --            | --                                 | 0.2                                                 |
| 13... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 8.0           | 9.0                                | --                                                  |
| NOV.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 10... | .05                                                          | --                                        | 84                                                                  | .42                                              | 47                                  | .4                                      | 121                                                   | --            | --                                 | --                                                  |
| 10... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.6           | 10.5                               | --                                                  |
| DEC.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 03... | .02                                                          | --                                        | 86                                                                  | .36                                              | 46                                  | .4                                      | 122                                                   | --            | --                                 | 0.3                                                 |
| 03... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.5           | 8.7                                | --                                                  |
| JAN.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 06... | .00                                                          | .02                                       | 84                                                                  | .55                                              | 43                                  | .4                                      | 117                                                   | --            | --                                 | 0.2                                                 |
| 06... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.6           | 4.8                                | --                                                  |
| FEB.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 02... | .01                                                          | .05                                       | 88                                                                  | .52                                              | 49                                  | .3                                      | 123                                                   | --            | --                                 | 0.3                                                 |
| 02... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 8.2           | 4.1                                | --                                                  |
| MAR.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 04... | .02                                                          | .02                                       | E86                                                                 | E.81                                             | 45                                  | .4                                      | 119                                                   | --            | --                                 | 0.2                                                 |
| 04... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.4           | 8.6                                | --                                                  |
| APR.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 07... | .00                                                          | .03                                       | 82                                                                  | .82                                              | 49                                  | .4                                      | 115                                                   | --            | --                                 | --                                                  |
| 07... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.8           | 7.8                                | --                                                  |
| MAY   |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 09... | .00                                                          | --                                        | 73                                                                  | 1.61                                             | 37                                  | .4                                      | 97                                                    | --            | --                                 | 0.5                                                 |
| 09... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 8.0           | 10.2                               | --                                                  |
| JUNE  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 05... | .00                                                          | --                                        | 69                                                                  | 1.81                                             | 32                                  | .4                                      | 86                                                    | --            | --                                 | 0.4                                                 |
| 05... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 8.0           | 9.3                                | --                                                  |
| 28... | .01                                                          | .04                                       | 77                                                                  | .89                                              | 40                                  | .4                                      | 100                                                   | --            | --                                 | --                                                  |
| 28... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.5           | 9.2                                | --                                                  |
| JULY  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 20... | .01                                                          | --                                        | 85                                                                  | .39                                              | 48                                  | .4                                      | 116                                                   | --            | --                                 | --                                                  |
| 20... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 8.2           | 8.2                                | --                                                  |
| AUG.  |                                                              |                                           |                                                                     |                                                  |                                     |                                         |                                                       |               |                                    |                                                     |
| 31... | .00                                                          | .02                                       | 89                                                                  | .24                                              | 48                                  | .4                                      | 125                                                   | --            | --                                 | 0.5                                                 |
| 31... | --                                                           | --                                        | --                                                                  | --                                               | --                                  | --                                      | --                                                    | 7.9           | 1.0                                | --                                                  |

E: Estimated.

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

[illegible]

WATER TEMPERATURE (DEG. C)

| OCTOBER |      |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
|---------|------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|------|
| DAY     | MAX  | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1       | 6.0  | 5.0 | 2.5      | 2.0 | 1.5      | 0.5  | 0.0     | 0.0  | 1.0      | 1.0  | 4.5       | 2.5  |
| 2       | 6.0  | 4.5 | 3.0      | 2.5 | 0.5      | 0.5  | 0.0     | 0.0  | 1.0      | 0.5  | 6.0       | 4.5  |
| 3       | 7.0  | 5.5 | 3.0      | 3.0 | 0.5      | 0.0  | 0.0     | 0.0  | 0.5      | 0.5  | 7.5       | 6.0  |
| 4       | 6.0  | 6.0 | 4.0      | 3.0 | 1.0      | 1.0  | 0.0     | 0.0  | 1.0      | 0.5  | 6.5       | 6.0  |
| 5       | 8.5  | 7.0 | 4.0      | 3.5 | 3.0      | 1.0  | 0.0     | 0.0  | 1.5      | 1.0  | 6.0       | 4.5  |
| 6       | 9.0  | 6.0 | 3.5      | 2.0 | 3.0      | 2.0  | 0.0     | 0.0  | 2.0      | 1.5  | 6.0       | 5.0  |
| 7       | 9.5  | 6.0 | 3.0      | 2.0 | 2.0      | 1.5  | 0.5     | 0.0  | 2.0      | 1.5  | 6.5       | 5.0  |
| 8       | 9.5  | 6.5 | 3.5      | 3.0 | 1.5      | 1.5  | 0.5     | 0.5  | 2.0      | 1.5  | 6.5       | 5.0  |
| 9       | 9.5  | 6.0 | 4.0      | 3.5 | 1.5      | 1.0  | 0.5     | 0.5  | 2.0      | 1.5  | 7.0       | 5.0  |
| 10      | 10.0 | 6.5 | 4.5      | 3.0 | 1.0      | 1.0  | 0.5     | 0.5  | 2.0      | 1.5  | 7.5       | 5.5  |
| 11      | 10.0 | 6.5 | 5.5      | 4.5 | 1.0      | 1.0  | 0.5     | 0.5  | 1.5      | 1.0  | 7.0       | 5.5  |
| 12      | 9.5  | 6.0 | 5.5      | 4.0 | 1.5      | 1.0  | 1.0     | 0.5  | 2.5      | 1.5  | 7.5       | 5.5  |
| 13      | 9.5  | 6.0 | 4.0      | 3.0 | 1.5      | 1.5  | 1.0     | 1.0  | 2.5      | 2.0  | 7.5       | 6.5  |
| 14      | 9.0  | 7.5 | 3.0      | 2.0 | 1.5      | 1.5  | 1.0     | 0.5  | 2.5      | 2.5  | 7.5       | 5.5  |
| 15      | 9.0  | 7.0 | 2.0      | 2.0 | 1.5      | 1.5  | 0.5     | 0.0  | 3.0      | 2.5  | 7.5       | 5.5  |
| 16      | 7.0  | 5.0 | 2.0      | 2.0 | 1.5      | 1.0  | 0.0     | 0.0  | 3.0      | 2.5  | 8.0       | 5.5  |
| 17      | 5.0  | 4.0 | 2.0      | 1.5 | 1.0      | 1.0  | 1.5     | 0.5  | 3.0      | 2.5  | 8.5       | 6.5  |
| 18      | 4.0  | 3.5 | 1.5      | 1.0 | 1.5      | 0.5  | 2.0     | 1.5  | 3.5      | 2.5  | 8.0       | 6.5  |
| 19      | 5.0  | 3.5 | 1.5      | 1.0 | 1.5      | 1.5  | 2.5     | 2.0  | 3.5      | 3.0  | 8.0       | 5.5  |
| 20      | 6.0  | 4.5 | 2.5      | 1.5 | 1.5      | 1.5  | 2.5     | 2.0  | 3.5      | 3.0  | 9.0       | 6.0  |
| 21      | 6.0  | 5.5 | 3.0      | 2.0 | 1.5      | 1.0  | 3.0     | 2.5  | 4.0      | 3.5  | 9.0       | 6.5  |
| 22      | 6.5  | 5.0 | 3.0      | 3.0 | 1.5      | 1.5  | 2.5     | 2.5  | 4.0      | 3.5  | 8.0       | 5.5  |
| 23      | 6.0  | 5.5 | 2.5      | 2.0 | 2.0      | 1.5  | 3.0     | 1.5  | 4.0      | 3.0  | 7.5       | 5.5  |
| 24      | 6.0  | 5.5 | 2.5      | 2.5 | 2.0      | 1.5  | 1.5     | 1.0  | 4.0      | 3.0  | 7.5       | 5.0  |
| 25      | 5.5  | 5.0 | 2.5      | 2.0 | 2.0      | 1.5  | 1.0     | 1.0  | 4.0      | 3.5  | 8.5       | 5.5  |
| 26      | 6.0  | 4.5 | 4.0      | 2.5 | 1.5      | 0.5  | 1.0     | 1.0  | 5.0      | 4.0  | 6.5       | 4.5  |
| 27      | 6.0  | 4.0 | 4.0      | 2.5 | 0.0      | 0.0  | 1.0     | 1.0  | 5.0      | 3.5  | 5.0       | 3.5  |
| 28      | 4.0  | 1.5 | 2.5      | 2.0 | 0.0      | 0.0  | 1.0     | 1.0  | 5.0      | 4.0  | 6.5       | 3.5  |
| 29      | 1.5  | 1.5 | 2.5      | 2.5 | 0.0      | 0.0  | 1.0     | 1.0  | 4.5      | 3.0  | 6.5       | 4.5  |
| 30      | 2.0  | 1.5 | 2.5      | 2.0 | 0.0      | 0.0  | 1.0     | 1.0  | ---      | ---  | 7.5       | 4.0  |
| 31      | 2.5  | 2.0 | ---      | --- | 0.0      | 0.0  | 1.0     | 1.0  | ---      | ---  | 8.0       | 5.0  |
| MONTH   | 10.0 | 1.5 | 5.5      | 1.0 | 3.0      | 0.0  | 3.0     | 0.0  | 5.0      | 0.5  | 9.0       | 2.5  |
|         |      |     |          |     |          |      |         |      |          |      |           |      |
| APRIL   |      |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| DAY     | MAX  | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1       | 8.5  | 6.5 | 9.0      | 4.0 | 9.5      | 8.5  | 16.0    | 12.0 | 15.5     | 12.5 | 13.5      | 12.5 |
| 2       | 10.5 | 7.5 | 9.5      | 5.0 | 9.5      | 9.0  | 16.0    | 12.0 | 15.0     | 11.5 | 13.0      | 12.0 |
| 3       | 10.0 | 7.0 | 9.5      | 5.5 | 10.0     | 9.5  | 15.0    | 12.0 | 15.0     | 11.5 | 12.5      | 11.5 |
| 4       | 9.0  | 8.0 | 7.5      | 6.0 | 10.0     | 9.0  | 15.5    | 12.0 | 16.0     | 11.5 | 12.0      | 11.0 |
| 5       | 10.5 | 6.0 | 6.0      | 6.5 | 9.5      | 8.5  | 15.5    | 12.0 | 16.5     | 12.0 | 11.0      | 10.0 |
| 6       | 11.0 | 7.0 | 7.0      | 6.0 | 9.5      | 9.0  | 15.5    | 11.0 | 17.0     | 12.5 | 10.5      | 9.5  |
| 7       | 9.0  | 6.5 | 8.5      | 5.0 | 9.5      | 8.5  | 14.5    | 10.5 | 16.5     | 12.5 | 11.5      | 10.0 |
| 8       | 10.0 | 5.5 | 7.5      | 4.5 | 9.5      | 9.0  | 15.0    | 10.5 | 17.0     | 12.5 | 12.0      | 11.0 |
| 9       | 10.0 | 6.0 | 7.5      | 5.0 | 9.5      | 9.0  | 15.5    | 11.0 | 17.0     | 13.0 | 12.0      | 10.5 |
| 10      | 8.5  | 7.0 | 7.0      | 5.0 | 9.5      | 8.0  | 14.5    | 11.5 | 15.5     | 13.5 | 12.0      | 10.5 |
| 11      | 8.0  | 6.5 | 8.5      | 5.0 | 10.0     | 7.5  | 16.0    | 11.5 | 16.5     | 14.0 | 11.0      | 10.5 |
| 12      | 8.5  | 5.5 | 9.0      | 5.5 | 10.5     | 8.5  | 16.5    | 11.5 | 17.0     | 14.0 | 11.5      | 10.0 |
| 13      | 6.0  | 4.0 | 10.0     | 6.5 | 11.5     | 9.0  | 17.0    | 12.0 | 15.0     | 13.0 | 11.5      | 10.0 |
| 14      | 7.5  | 3.5 | 10.0     | 6.5 | 12.5     | 9.5  | 16.5    | 11.5 | 15.0     | 12.0 | 11.5      | 10.0 |
| 15      | 9.5  | 4.5 | 10.5     | 7.0 | 12.5     | 10.0 | 17.0    | 12.0 | 14.5     | 11.5 | 12.0      | 10.0 |
| 16      | 9.5  | 5.5 | 10.0     | 7.5 | 12.5     | 10.0 | 17.0    | 12.0 | 14.0     | 11.0 | 12.0      | 10.0 |
| 17      | 9.0  | 5.5 | 9.0      | 7.0 | 12.5     | 10.0 | 16.5    | 11.5 | 14.5     | 11.5 | 11.5      | 9.5  |
| 18      | 6.0  | 4.5 | 8.0      | 6.5 | 12.5     | 10.0 | 16.5    | 11.5 | 14.0     | 11.5 | 11.0      | 10.0 |
| 19      | 5.5  | 3.5 | 7.5      | 6.5 | 13.0     | 10.0 | 15.5    | 11.5 | 14.0     | 11.5 | 11.0      | 9.5  |
| 20      | 8.0  | 3.0 | 6.5      | 6.0 | 13.5     | 10.5 | 12.5    | 11.0 | 14.0     | 11.5 | 11.0      | 9.5  |
| 21      | 9.0  | 4.5 | 7.5      | 6.0 | 12.5     | 10.5 | 13.5    | 10.0 | 14.5     | 11.5 | 11.0      | 9.5  |
| 22      | 9.5  | 4.5 | 6.0      | 7.0 | 12.0     | 10.5 | 14.0    | 10.0 | 15.0     | 12.0 | 10.0      | 9.0  |
| 23      | 10.0 | 5.0 | 8.0      | 7.5 | 11.0     | 9.5  | 15.0    | 10.5 | 14.5     | 12.0 | 10.5      | 9.0  |
| 24      | 9.0  | 5.5 | 8.0      | 6.5 | 12.0     | 9.0  | 15.0    | 11.0 | 14.5     | 11.5 | 10.5      | 9.0  |
| 25      | 6.5  | 4.5 | 8.5      | 7.0 | 13.0     | 9.5  | 15.0    | 10.5 | 14.5     | 12.0 | 10.5      | 9.0  |
| 26      | 8.5  | 4.0 | 9.0      | 7.0 | 13.0     | 10.0 | 15.0    | 10.5 | 15.0     | 12.0 | 10.5      | 10.0 |
| 27      | 9.5  | 4.5 | 9.5      | 7.0 | 14.5     | 10.5 | 15.0    | 10.5 | 14.0     | 12.5 | 9.5       | 8.5  |
| 28      | 10.0 | 5.5 | 10.0     | 7.0 | 15.5     | 11.5 | 16.0    | 11.0 | 13.5     | 12.5 | 9.5       | 8.0  |
| 29      | 8.5  | 5.0 | 9.0      | 8.0 | 15.5     | 11.5 | 15.5    | 12.5 | 13.0     | 12.0 | 9.5       | 8.5  |
| 30      | 8.0  | 4.0 | 9.0      | 8.0 | 16.0     | 12.0 | 14.0    | 13.0 | 13.0     | 12.0 | 10.0      | 9.0  |
| 31      | ---  | --- | 9.5      | 8.5 | ---      | ---  | 14.0    | 12.5 | 13.5     | 12.5 | ---       | ---  |
| MONTH   | 11.0 | 3.0 | 10.5     | 4.0 | 16.0     | 7.5  | 17.0    | 10.0 | 17.0     | 11.0 | 13.5      | 8.0  |
| YEAR    | 17.0 | 0.0 |          |     |          |      |         |      |          |      |           |      |

## BIG SMOKY VALLEY

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NEV.--Continued

WATER QUALITY DATA FOR 24-HOUR PERIOD, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE | TIME | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM HG) | WIND<br>SPEED<br>(M/SEC) | LIGHT<br>INTENSITY<br>(FOOT-<br>CANDLES) | AIR<br>TEMPER-<br>ATURE<br>(DEG C) | WATER<br>TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>CHARGE<br>(CFS) | SPECIFIC<br>CONDUCT-<br>ANCE<br>(MICRO-<br>MHOS) | pH  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | DIS-<br>SOLVED<br>OXYGEN<br>(PERCENT<br>OF SAT-<br>URATION) | TOTAL<br>SESTON<br>(MG/L,<br>DRY WT) | ORGANIC<br>SESTON<br>(MG/L,<br>DRY WT) | PHYTO-<br>PLANKTON<br>CHLORO-<br>PHYLL <u>a</u><br>(UG/L) |
|------|------|---------------------------------------------|--------------------------|------------------------------------------|------------------------------------|--------------------------------------|-------------------------|--------------------------------------------------|-----|------------------------------------|-------------------------------------------------------------|--------------------------------------|----------------------------------------|-----------------------------------------------------------|
| APR. |      |                                             |                          |                                          |                                    |                                      |                         |                                                  |     |                                    |                                                             |                                      |                                        |                                                           |
| 26.. | 1300 | 618                                         | --                       | --                                       | 15                                 | 8.0                                  | 4.5                     | 74                                               | 8.2 | 12.3                               | 103                                                         | 1.6                                  | 0.1                                    | 0.000                                                     |
|      | 1400 | 618                                         | 1.3                      | --                                       | 15                                 | 9.0                                  | 4.5                     | 78                                               | 8.3 | 11.9                               | 103                                                         | 2.1                                  | .6                                     | --                                                        |
|      | 1500 | 618                                         | 1.2                      | 8,000                                    | 15                                 | 9.0                                  | 4.5                     | 78                                               | 8.3 | 11.7                               | 101                                                         | 1.9                                  | .7                                     | .000                                                      |
|      | 1600 | 617                                         | 1.0                      | 500                                      | 14                                 | 8.5                                  | 4.5                     | 77                                               | 8.3 | 11.9                               | 101                                                         | 2.0                                  | .6                                     | --                                                        |
|      | 1700 | 617                                         | 1.1                      | 260                                      | 13                                 | 8.0                                  | 4.5                     | 76                                               | 8.2 | 12.0                               | 101                                                         | 2.1                                  | .8                                     | .001                                                      |
|      | 1800 | 617                                         | 1.5                      | 54                                       | 12                                 | 7.5                                  | 4.5                     | 76                                               | 8.2 | 12.0                               | 99                                                          | 1.8                                  | .5                                     | --                                                        |
|      | 1900 | 617                                         | 1.1                      | .0                                       | 10                                 | 7.0                                  | 4.5                     | 75                                               | 8.2 | 12.2                               | 99                                                          | 1.6                                  | .3                                     | .005                                                      |
|      | 2000 | 617                                         | --                       | .0                                       | 10                                 | 6.5                                  | 4.5                     | 74                                               | 8.2 | 12.4                               | 100                                                         | 1.8                                  | .5                                     | --                                                        |
|      | 2100 | 618                                         | .6                       | .0                                       | 9                                  | 6.0                                  | 4.6                     | 73                                               | 8.2 | 12.4                               | 97                                                          | 1.8                                  | .5                                     | .000                                                      |
|      | 2200 | 620                                         | 1.2                      | .0                                       | 8                                  | 5.5                                  | 4.7                     | 72                                               | 8.2 | 12.7                               | 99                                                          | 1.7                                  | .4                                     | --                                                        |
|      | 2300 | 618                                         | 1.0                      | .0                                       | 8                                  | 5.0                                  | 4.7                     | 71                                               | 8.2 | 12.8                               | 99                                                          | 1.9                                  | .7                                     | .003                                                      |
|      | 2400 | 620                                         | 1.5                      | .0                                       | 7                                  | 4.5                                  | 4.7                     | 70                                               | 8.2 | 12.8                               | 97                                                          | 1.9                                  | .5                                     | --                                                        |
| 27.. | 0100 | 619                                         | 1.1                      | .0                                       | 7                                  | 4.0                                  | 4.8                     | 70                                               | 8.2 | 12.9                               | 97                                                          | 2.1                                  | .6                                     | .013                                                      |
|      | 0200 | 618                                         | 1.6                      | .0                                       | 6                                  | 4.0                                  | 4.8                     | 70                                               | 8.2 | 12.9                               | 96                                                          | 2.2                                  | .6                                     | --                                                        |
|      | 0300 | 618                                         | 1.4                      | .0                                       | 6                                  | 4.0                                  | 4.8                     | 69                                               | 8.2 | 13.0                               | 97                                                          | 2.4                                  | 1.0                                    | .008                                                      |
|      | 0400 | 618                                         | 1.2                      | .0                                       | 6                                  | 4.0                                  | 4.8                     | 68                                               | 8.2 | 12.9                               | 95                                                          | 2.2                                  | .7                                     | --                                                        |
|      | 0500 | 618                                         | 1.2                      | 87                                       | 6                                  | 3.5                                  | 4.8                     | 68                                               | 8.2 | 12.9                               | 94                                                          | 2.4                                  | .7                                     | .003                                                      |
|      | 0600 | 618                                         | .8                       | 260                                      | 6                                  | 4.0                                  | 4.8                     | 68                                               | 8.2 | 13.0                               | 96                                                          | 2.6                                  | 1.1                                    | --                                                        |
|      | 0700 | 618                                         | .3                       | 428                                      | 6                                  | 4.0                                  | 4.8                     | 68                                               | 8.2 | 13.0                               | 96                                                          | 1.8                                  | .6                                     | .003                                                      |
|      | 0800 | 617                                         | .5                       | 650                                      | 8                                  | 4.0                                  | 4.8                     | 69                                               | 8.2 | 13.1                               | 99                                                          | 2.0                                  | .6                                     | --                                                        |
|      | 0900 | 617                                         | .9                       | 12,800                                   | 12                                 | 5.0                                  | 4.8                     | 70                                               | 8.3 | 12.7                               | 99                                                          | 1.7                                  | .5                                     | .003                                                      |
|      | 1000 | 617                                         | 1.0                      | 13,300                                   | 16                                 | 7.0                                  | 4.7                     | 74                                               | 8.3 | 12.0                               | 97                                                          | 1.8                                  | .6                                     | --                                                        |
|      | 1100 | 616                                         | 1.0                      | 13,300                                   | 18                                 | 8.0                                  | 4.7                     | 76                                               | 8.3 | 11.8                               | 98                                                          | 1.6                                  | .5                                     | .000                                                      |
|      | 1200 | 615                                         | 1.2                      | 13,300                                   | 20                                 | 9.5                                  | 4.7                     | 79                                               | 8.3 | 11.5                               | 101                                                         | --                                   | --                                     | --                                                        |

| DATE  | TIME | TEMP-<br>ERATURE<br>(DEG C)<br>(00010) | DIS-<br>CHARGE<br>(CFS)<br>(00000) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>(MG/L)<br>(00154) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY)<br>(00155) |
|-------|------|----------------------------------------|------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|
| OCT.  |      |                                        |                                    |                                                      |                                                                         |
| 13... | 1000 | 8.0                                    | 1.7                                | 3                                                    | .01                                                                     |
| NOV.  |      |                                        |                                    |                                                      |                                                                         |
| 10... | 1030 | 3.5                                    | 1.8                                | 2                                                    | .01                                                                     |
| DEC.  |      |                                        |                                    |                                                      |                                                                         |
| 03... | 1220 | .0                                     | 1.5                                | 2                                                    | .01                                                                     |
| JAN.  |      |                                        |                                    |                                                      |                                                                         |
| 06... | 1400 | .0                                     | 2.4                                | 2                                                    | .01                                                                     |
| FEB.  |      |                                        |                                    |                                                      |                                                                         |
| 02... | 1150 | .0                                     | 2.2                                | 7                                                    | .04                                                                     |
| MAR.  |      |                                        |                                    |                                                      |                                                                         |
| 04... | 1200 | 6.0                                    | 3.5                                | 4                                                    | .04                                                                     |
| APR.  |      |                                        |                                    |                                                      |                                                                         |
| 07... | 1130 | 7.0                                    | 3.7                                | 2                                                    | .02                                                                     |
| MAY   |      |                                        |                                    |                                                      |                                                                         |
| 09... | 1045 | 5.0                                    | 8.2                                | 16                                                   | .35                                                                     |
| JUNE  |      |                                        |                                    |                                                      |                                                                         |
| 05... | 1100 | 9.0                                    | 9.7                                | 7                                                    | .18                                                                     |
| 28... | 1205 | 13.0                                   | 4.3                                | 5                                                    | .06                                                                     |
| JULY  |      |                                        |                                    |                                                      |                                                                         |
| 20... | 0845 | 11.0                                   | 1.7                                | 14                                                   | .06                                                                     |
| AUG.  |      |                                        |                                    |                                                      |                                                                         |
| 31... | 1300 | 13.5                                   | 1.0                                | 13                                                   | .04                                                                     |





## WALKER RIVER BASIN

10301500 WALKER RIVER NEAR WABUSKA, NEV.  
(Irrigation network station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.20, T.15 N., R.26 E., Lyon County, at gaging station on left bank, 600 ft upstream from timber bridge at Julian Ranch, 1.8 miles downstream from Southern Pacific Railroad bridge, 4.6 miles east of Wabuska, and 16 miles upstream from Weber Dam.

DRAINAGE AREA.--2,600 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.  
Water temperatures: October 1968 to September 1972.

## EXTREMES.--1971-72:

Specific conductance: Maximum daily, 753 micromhos Jan. 24; minimum daily, 406 micromhos Sept. 5.

Water temperature: Maximum daily, 31.0°C July 14; minimum daily, freezing point on several days during December, January, and February.

## Period of record:

Specific conductance: Maximum daily, 754 micromhos Jan. 5, 1971; 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 the stream less than a mile above the sampling site. Because the inflow and stream-flow differ in quality, and because the waters do not mix thoroughly above the sampling site, flow at the site is not homogenous, either chemically or thermally. This doubtless is responsible for some of the variation shown by the daily specific-conductance and temperature data.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) |
|-------|------|-------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------------|
| UCT.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 27... | 1105 | 93                      | 8.0                         | 28                                                        | 44                                               | 11                                            | 68                                         | 5.9                                                    | 237                                               | 0                                              |
| NOV.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 23... | 1020 | 106                     | 3.5                         | --                                                        | 56                                               | 13                                            | 82                                         | --                                                     | 273                                               | 0                                              |
| DEC.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 21... | 0945 | 887                     | .0                          | --                                                        | 50                                               | 12                                            | 83                                         | --                                                     | 255                                               | 0                                              |
| JAN.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 24... | 1130 | 120                     | 1.0                         | 33                                                        | 48                                               | 12                                            | 97                                         | 5.7                                                    | 236                                               | 0                                              |
| FEB.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 21... | 1020 | 96                      | 7.5                         | 33                                                        | 52                                               | 12                                            | 76                                         | 5.4                                                    | 240                                               | 0                                              |
| MAR.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 22... | 1000 | 102                     | 9.5                         | 27                                                        | 41                                               | 9.4                                           | 60                                         | 6.4                                                    | 210                                               | 0                                              |
| APR.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 27... | 1000 | 83                      | 13.0                        | 24                                                        | 50                                               | 12                                            | 69                                         | 6.2                                                    | 225                                               | 0                                              |
| MAY   |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 23... | 1715 | 151                     | 22.0                        | 18                                                        | 32                                               | 7.7                                           | 45                                         | 5.3                                                    | 170                                               | 0                                              |
| JUNE  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 21... | 1200 | 66                      | 24.5                        | 24                                                        | 37                                               | 9.3                                           | 59                                         | 6.1                                                    | 216                                               | 0                                              |
| JULY  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 26... | 1350 | 39                      | 28.5                        | 29                                                        | 41                                               | 9.1                                           | 63                                         | 5.4                                                    | 208                                               | 0                                              |
| AUG.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 25... | 1230 | 31                      | 25.0                        | 28                                                        | 41                                               | 8.8                                           | 51                                         | 5.7                                                    | 202                                               | 0                                              |
| SEP.  |      |                         |                             |                                                           |                                                  |                                               |                                            |                                                        |                                                   |                                                |
| 13... | 1430 | 30                      | 19.0                        | 31                                                        | 49                                               | 12                                            | 75                                         | 5.5                                                    | 231                                               | 0                                              |

## WALKER RIVER BASIN

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10301500 WALKER RIVER NEAR WABUSKA, NEV.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE          | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| OCT.<br>27... | 76                                           | 23                                                | .9                                               | .04                                                           | .000                                       | .04                                        | .22                                                         | .18                                       | .44                                     |
| NOV.<br>23... | --                                           | 34                                                | --                                               | .29                                                           | .000                                       | .29                                        | --                                                          | --                                        | --                                      |
| DEC.<br>21... | --                                           | 29                                                | --                                               | .00                                                           | .000                                       | .00                                        | --                                                          | --                                        | --                                      |
| JAN.<br>24... | 130                                          | 41                                                | .9                                               | .43                                                           | .000                                       | .43                                        | .06                                                         | .48                                       | .97                                     |
| FEB.<br>21... | 110                                          | 31                                                | --                                               | .35                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAR.<br>22... | 79                                           | 25                                                | --                                               | .27                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| APR.<br>27... | 100                                          | 30                                                | .8                                               | .13                                                           | .000                                       | .13                                        | .00                                                         | .27                                       | .40                                     |
| MAY<br>23...  | 51                                           | 19                                                | --                                               | .07                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JUNE<br>21... | 75                                           | 22                                                | .9                                               | .00                                                           | .000                                       | .00                                        | .08                                                         | .61                                       | .69                                     |
| JULY<br>26... | 78                                           | 23                                                | --                                               | .01                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| AUG.<br>25... | 63                                           | 17                                                | --                                               | .06                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| SEP.<br>13... | 100                                          | 32                                                | --                                               | .04                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |

| DATE          | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) |
|---------------|--------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|
| OCT.<br>27... | .12                                                          | .23                                       | --                                                               | 374                                                                 | 93.9                                    | 160                                | 2.4                                     | 597                                                   | 7.8           |
| NOV.<br>23... | .10                                                          | --                                        | 476                                                              | --                                                                  | 136                                     | 190                                | 2.6                                     | 729                                                   | 8.0           |
| DEC.<br>21... | .12                                                          | --                                        | 430                                                              | --                                                                  | 1030                                    | 170                                | 2.7                                     | 682                                                   | 7.8           |
| JAN.<br>24... | .13                                                          | .27                                       | --                                                               | 486                                                                 | 157                                     | 170                                | 3.2                                     | 753                                                   | 7.4           |
| FEB.<br>21... | .09                                                          | --                                        | --                                                               | 439                                                                 | 114                                     | 180                                | 2.5                                     | 661                                                   | 8.1           |
| MAR.<br>22... | .09                                                          | --                                        | --                                                               | 353                                                                 | 97.2                                    | 140                                | 2.2                                     | 549                                                   | 7.8           |
| APR.<br>27... | .14                                                          | .29                                       | --                                                               | 404                                                                 | 90.5                                    | 170                                | 2.3                                     | 629                                                   | 7.9           |
| MAY<br>23...  | .07                                                          | --                                        | --                                                               | 262                                                                 | 107                                     | 110                                | 1.9                                     | 413                                                   | 8.1           |
| JUNE<br>21... | .09                                                          | .25                                       | --                                                               | 340                                                                 | 60.6                                    | 130                                | 2.2                                     | 538                                                   | 8.0           |
| JULY<br>26... | .11                                                          | --                                        | --                                                               | 351                                                                 | 37.1                                    | 140                                | 2.3                                     | 540                                                   | 8.1           |
| AUG.<br>25... | .09                                                          | --                                        | --                                                               | 314                                                                 | 27.0                                    | 140                                | 1.9                                     | 483                                                   | 7.7           |
| SEP.<br>13... | .11                                                          | --                                        | --                                                               | 419                                                                 | 34.3                                    | 170                                | 2.5                                     | 673                                                   | 8.1           |

[illegible][illegible]

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WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

|               | LINDANE | CHLOR-DANE | PARA-THION | BETHYL-PARA-THION | MALA-THION | DI-AZINON | 2,4-D  | 2,4,5-T | SILVEX |
|---------------|---------|------------|------------|-------------------|------------|-----------|--------|---------|--------|
| DATE          | (UG/L)  | (UG/L)     | (UG/L)     | (UG/L)            | (UG/L)     | (UG/L)    | (UG/L) | (UG/L)  | (UG/L) |
| FEB.<br>21... | --      | --         | --         | --                | --         | --        | .00    | .00     | .00    |
| APR.<br>27... | .00     | .0         | .00        | .00               | .00        | .00       | .00    | .00     | .00    |
| JUNE<br>21... | .00     | .0         | .00        | .00               | .00        | .00       | .08    | .00     | .00    |

[illegible]

## 10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NEV.

LOCATION.--Lat  $38^{\circ}50'50''$ , long  $119^{\circ}41'10''$ , in SW  $\frac{1}{4}$  sec.2, T.11 N., R.20 E., Douglas County, temperature recorder at gaging station on left bank, 0.1 mile downstream from Horseshoe Bend, 2 miles east of Mud Lake Reservoir, 4.5 miles downstream from Bryant Creek, and 7 miles southeast of Gardnerville.

DRAINAGE AREA.--341 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1955 to September 1972 (discontinued).

TEMPERATURE ( $^{\circ}$ C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DAY   | OCTOBER |      | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
|-------|---------|------|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | MAX     | MIN  | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
| 1     | 10.0    | 7.0  | 5.5      | 3.5 | 5.0      | 4.0 | 2.0     | 1.5 | 0.5      | 0.5 | 6.5   | 5.0 |
| 2     | 10.5    | 7.5  | 6.0      | 4.5 | 4.5      | 4.0 | 2.0     | 1.0 | 1.0      | 0.5 | 7.0   | 5.0 |
| 3     | 11.0    | 8.0  | 6.0      | 4.5 | 4.0      | 3.5 | 2.0     | 1.5 | 0.5      | 0.5 | 8.0   | 7.0 |
| 4     | 11.5    | 8.5  | 6.5      | 4.5 | 3.5      | 3.0 | 2.0     | 1.5 | 0.5      | 0.5 | 8.0   | 5.5 |
| 5     | 12.5    | 9.5  | 6.5      | 5.0 | 4.0      | 2.5 | 1.5     | 0.5 | 1.0      | 1.0 | 8.0   | 5.0 |
| 6     | 13.5    | 10.5 | 6.0      | 4.5 | 4.0      | 4.0 | 1.5     | 1.0 | 1.5      | 1.0 | 7.0   | 6.0 |
| 7     | 14.0    | 11.5 | 5.5      | 4.5 | 4.0      | 3.5 | 1.5     | 1.0 | 2.0      | 1.0 | 8.0   | 6.0 |
| 8     | 14.0    | 11.5 | 5.0      | 4.5 | 3.5      | 2.5 | 1.5     | 1.0 | 2.0      | 2.0 | 8.0   | 6.0 |
| 9     | 14.0    | 11.0 | 5.5      | 4.5 | 2.5      | 2.0 | 1.0     | 1.0 | 2.0      | 1.5 | 7.5   | 5.5 |
| 10    | 14.0    | 11.5 | 5.5      | 5.0 | 2.0      | 2.0 | 0.5     | 0.5 | 2.5      | 2.0 | 7.5   | 5.5 |
| 11    | 14.0    | 11.5 | 6.0      | 5.5 | 2.0      | 2.0 | 0.5     | 0.5 | 3.0      | 2.5 | 7.5   | 5.5 |
| 12    | 14.0    | 11.5 | 6.0      | 5.0 | 2.0      | 2.0 | 0.5     | 0.5 | 4.0      | 3.0 | 7.5   | 6.5 |
| 13    | 14.5    | 12.0 | 6.0      | 5.0 | 2.5      | 2.0 | 0.5     | 0.5 | 4.0      | 3.0 | 8.0   | 5.5 |
| 14    | 14.0    | 12.0 | 5.0      | 4.0 | 2.5      | 2.0 | 0.5     | 0.5 | 4.0      | 3.5 | 7.0   | 5.5 |
| 15    | 13.5    | 10.5 | 4.0      | 4.0 | 2.5      | 2.0 | 0.0     | 0.0 | 4.5      | 3.5 | 6.5   | 5.0 |
| 16    | 10.5    | 5.5  | 4.0      | 4.0 | 2.5      | 2.0 | 0.0     | 0.0 | 5.0      | 3.0 | 7.0   | 5.0 |
| 17    | 8.5     | 6.5  | 4.0      | 3.5 | 2.5      | 2.0 | 0.0     | 0.0 | 5.0      | 3.0 | 7.0   | 6.0 |
| 18    | 8.0     | 6.5  | 3.5      | 3.5 | 2.5      | 2.0 | 0.0     | 0.0 | 4.5      | 3.5 | 7.0   | 5.0 |
| 19    | 9.0     | 7.5  | 3.5      | 3.0 | 2.0      | 1.5 | 0.0     | 0.0 | 6.0      | 4.5 | 7.0   | 4.5 |
| 20    | 9.5     | 7.5  | 3.5      | 3.0 | 2.0      | 1.5 | 0.5     | 0.0 | 6.5      | 5.0 | 6.5   | 4.5 |
| 21    | 10.0    | 7.5  | 3.5      | 3.5 | 2.0      | 2.0 | 0.0     | 0.0 | 6.5      | 5.0 | 7.5   | 5.5 |
| 22    | 10.0    | 7.5  | 4.0      | 3.5 | 2.0      | 2.0 | 0.5     | 0.0 | 6.0      | 6.0 | 8.0   | 4.0 |
| 23    | 9.0     | 7.5  | 4.0      | 4.0 | 2.5      | 2.0 | 0.5     | 0.0 | 6.0      | 5.0 | 5.0   | 1.5 |
| 24    | 8.5     | 6.0  | 5.0      | 4.0 | 2.5      | 2.5 | 0.5     | 0.5 | 5.5      | 5.0 | 5.0   | 3.5 |
| 25    | 8.0     | 7.0  | 5.0      | 4.5 | 2.5      | 2.5 | 0.5     | 0.5 | 6.5      | 5.5 | 6.5   | 4.5 |
| 26    | 8.0     | 6.5  | 5.5      | 4.5 | 2.0      | 1.5 | 0.5     | 0.5 | 7.5      | 6.0 | 6.5   | 4.0 |
| 27    | 8.5     | 7.0  | 5.5      | 5.0 | 2.0      | 2.0 | 0.5     | 0.5 | 7.5      | 5.5 | 5.5   | 3.5 |
| 28    | 8.0     | 5.0  | 5.0      | 5.0 | 2.5      | 1.5 | 0.5     | 0.5 | 7.0      | 6.5 | 5.5   | 3.0 |
| 29    | 5.0     | 4.0  | 5.0      | 4.5 | 2.5      | 1.5 | 1.0     | 0.5 | 8.0      | 6.5 | 5.5   | 3.5 |
| 30    | 4.0     | 3.5  | 5.0      | 5.0 | 2.5      | 2.0 | 1.0     | 0.5 | ---      | --- | 6.5   | 3.5 |
| 31    | 5.0     | 4.0  | ---      | --- | 2.0      | 2.0 | 1.0     | 0.5 | ---      | --- | 7.0   | 3.5 |
| MONTH | 14.5    | 3.5  | 6.5      | 3.0 | 5.0      | 1.5 | 2.0     | 0.0 | 8.0      | 0.5 | 8.0   | 1.5 |

EXTREMES.--1971-72:

Water temperature: Maximum, 23.5°C Aug. 6, 10; minimum, freezing point on several days in January and February.

Period of record:

Water temperature: Maximum (1955-65, 1966-72), 29.5°C Aug. 7, 1960; minimum (1955-72), freezing point on many days during winter months of most years.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

[illegible]



## CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NEV.  
(Irrigation network station)

LOCATION.--Lat 39°17'30", long 119°18'40", in SW<sup>1</sup>/<sub>4</sub> sec. 32, T.17 N., R.24 E., Lyon County, at gaging station 400 ft downstream from Buckland Ditch, 2 miles west of Ft. Churchill, and 4.5 miles upstream from Weeks bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,450 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1962 to September 1972 (published as Carson River near Silver Springs, sta. no. 10312020, Oct. 1962-Sept. 1970).

Water temperatures: October 1962 to September 1972 (see note above).

## EXTREMES.--1971-72:

Specific conductance: Maximum 653 micromhos Sept. 15 and 28; minimum, 152 micromhos Mar. 20, May 19.

Water temperature: Maximum 29.0°C Aug. 7; minimum, 0.5°C Dec. 21.

## Period of record:

Specific conductance: Maximum, 685 micromhos Aug. 17, 1963; 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 upstream from the gage. Discharge data do not include ditch flow.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) | CAR-<br>BONATE<br>(C03)<br>(MG/L) |
|-------|------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 1130 | 117                     | 8.5                         | 25                                           | 40                                               | 8.8                                           | 40                                         | 4.4                                                    | 162                                  | 0                                 |
| NOV.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 22... | 1310 | 160                     | 5.5                         | --                                           | 32                                               | 7.6                                           | 32                                         | --                                                     | 136                                  | 0                                 |
| DEC.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 1405 | 193                     | .5                          | --                                           | 28                                               | 6.4                                           | 26                                         | --                                                     | 117                                  | 0                                 |
| JAN.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 24... | 1500 | 550                     | 2.0                         | 21                                           | 26                                               | 7.1                                           | 28                                         | 4.5                                                    | 136                                  | 0                                 |
| FEB.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 22... | 1500 | 298                     | 9.0                         | 25                                           | 28                                               | 6.4                                           | 27                                         | 3.9                                                    | 115                                  | 0                                 |
| MAR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 22... | 1210 | 635                     | 11.5                        | 20                                           | 15                                               | 3.4                                           | 12                                         | 1.9                                                    | 65                                   | 0                                 |
| APR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 20... | 1130 | 218                     | 12.0                        | 22                                           | 27                                               | 6.2                                           | 25                                         | 3.6                                                    | 105                                  | 0                                 |
| MAY   |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 1100 | 845                     | 13.5                        | 19                                           | 14                                               | 3.5                                           | 11                                         | 2.2                                                    | 65                                   | 0                                 |
| JUNE  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 22... | 1030 | 265                     | 21.0                        | 23                                           | 23                                               | 5.8                                           | 21                                         | 3.3                                                    | 100                                  | 0                                 |
| JULY  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 1350 | .77                     | 22.0                        | 31                                           | 52                                               | 12                                            | 50                                         | 5.3                                                    | 185                                  | 0                                 |
| AUG.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 23... | 1200 | .40                     | 19.0                        | 32                                           | 59                                               | 14                                            | 56                                         | 5.6                                                    | 203                                  | 0                                 |
| SEP.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 1510 | 39                      | 18.5                        | 32                                           | 56                                               | 14                                            | 56                                         | 5.1                                                    | 195                                  | 0                                 |

10312000 CARSON RIVER NEAR FORT CHURCHILL, NEV.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE          | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUORIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|-----------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| OCT.<br>19... | 81                                                        | 12                                           | .5                                          | .01                                                           | .000                                       | .01                                        | .15                                                         | .03                                       | .19                                     |
| NOV.<br>22... | --                                                        | 10                                           | --                                          | .33                                                           | .000                                       | .33                                        | --                                                          | --                                        | --                                      |
| DEC.<br>21... | --                                                        | 8.9                                          | --                                          | .00                                                           | .000                                       | .00                                        | --                                                          | --                                        | --                                      |
| JAN.<br>24... | 41                                                        | 10                                           | .3                                          | .23                                                           | .010                                       | .22                                        | .23                                                         | .97                                       | 1.4                                     |
| FEB.<br>22... | 48                                                        | 9.3                                          | --                                          | .35                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAR.<br>22... | 22                                                        | 2.5                                          | --                                          | .23                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| APR.<br>20... | 56                                                        | 7.0                                          | .4                                          | .03                                                           | .000                                       | .03                                        | .11                                                         | .18                                       | .32                                     |
| MAY<br>19...  | 19                                                        | 4.9                                          | --                                          | .08                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JUNE<br>22... | 50                                                        | 7.4                                          | --                                          | .05                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JULY<br>19... | 130                                                       | 12                                           | .5                                          | .16                                                           | .000                                       | .16                                        | .06                                                         | .30                                       | .52                                     |
| AUG.<br>23... | 150                                                       | 13                                           | --                                          | .01                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| SEP.<br>21... | 150                                                       | 14                                           | --                                          | .00                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |

| DATE          | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) |
|---------------|--------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|
| OCT.<br>19... | .23                                                          | .35                                       | --                                                               | 292                                                            | 92.2                                             | 140                                | 1.5                                     | 452                                                   | 7.7           |
| NOV.<br>22... | .21                                                          | --                                        | 270                                                              | --                                                             | 117                                              | 110                                | 1.3                                     | 374                                                   | 7.9           |
| DEC.<br>21... | .17                                                          | --                                        | 200                                                              | --                                                             | 104                                              | 96                                 | 1.2                                     | 318                                                   | 7.6           |
| JAN.<br>24... | .13                                                          | .40                                       | --                                                               | 207                                                            | 307                                              | 94                                 | 1.3                                     | 319                                                   | 7.9           |
| FEB.<br>22... | .15                                                          | --                                        | --                                                               | 206                                                            | 166                                              | 96                                 | 1.2                                     | 301                                                   | 8.1           |
| MAR.<br>22... | .09                                                          | --                                        | --                                                               | 110                                                            | 189                                              | 51                                 | .7                                      | 164                                                   | 7.4           |
| APR.<br>20... | .14                                                          | .29                                       | --                                                               | 200                                                            | 118                                              | 93                                 | 1.1                                     | 297                                                   | 7.9           |
| MAY<br>19...  | .08                                                          | --                                        | --                                                               | 106                                                            | 242                                              | 49                                 | .7                                      | 152                                                   | 7.8           |
| JUNE<br>22... | .14                                                          | --                                        | --                                                               | 183                                                            | 131                                              | 81                                 | 1.0                                     | 265                                                   | 7.7           |
| JULY<br>19... | .10                                                          | .26                                       | --                                                               | 386                                                            | .80                                              | 180                                | 1.6                                     | 581                                                   | 7.8           |
| AUG.<br>23... | .09                                                          | --                                        | --                                                               | 430                                                            | .46                                              | 200                                | 1.7                                     | 644                                                   | 7.8           |
| SEP.<br>21... | .06                                                          | --                                        | --                                                               | 423                                                            | 44.5                                             | 200                                | 1.7                                     | 644                                                   | 8.0           |

10312000 CARSON RIVER NEAR FORT CHURCHILL, NEV.--Continued

## CONDUCTIVITY (MICROMHOS AT 25 DEG. C) , RANDOM (INSTANTANEOUS)

[illegible]

## WATER TEMPERATURE (DEG. C) , RANDOM (INSTANTANEOUS)

[illegible]



## HYMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NEV.  
(Irrigation network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, at gaging station 1,000 ft downstream from Rye Patch Dam, and 1.5 miles northwest of Rye Patch.

DRAINAGE AREA.--16,100 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: December 1951 to September 1958, October 1959 to September 1961, May 1962 to September 1972.  
Water temperatures: December 1951 to September 1958, October 1959 to September 1961, May 1962 to September 1972.

## EXTREMES.--1971-72:

Specific conductance: Maximum daily, 1,460 micromhos Feb. 11; minimum daily, 834 micromhos Dec. 16.  
Water temperature: Maximum daily, 21.5°C on several days in July; minimum daily, 2.5°C Dec. 17.

## Period of record:

Specific conductance (1951-58, 1962-72): Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.  
Water temperature: Maximum (1951-54, 1956-58, 1959-61, 1962-68, 1969-72), 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 1971 TO SEPTEMBER 1972

| DATE  | TIME | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) | CAR-<br>BONATE<br>(C03)<br>(MG/L) |
|-------|------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| DEC.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 01... | 1340 | 55                      | 5.0                         | --                                           | 39                                               | 16                                            | 130                                        | --                                                     | --                                   | --                                |
| 17... | 1025 | 19                      | 2.5                         | --                                           | 41                                               | 17                                            | 130                                        | --                                                     | 246                                  | 51                                |
| JAN.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 26... | 1130 | 20                      | 3.5                         | 27                                           | 41                                               | 18                                            | 150                                        | 16                                                     | 331                                  | 14                                |
| FEB.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 16... | 1515 | 218                     | 4.5                         | 30                                           | 43                                               | 19                                            | 220                                        | 21                                                     | 359                                  | 0                                 |
| MAR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 17... | 1130 | 613                     | 10.0                        | 25                                           | 41                                               | 17                                            | 150                                        | 17                                                     | 334                                  | 9                                 |
| APR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 1450 | 688                     | 9.5                         | 27                                           | 42                                               | 16                                            | 140                                        | 15                                                     | 321                                  | 7                                 |
| MAY   |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 11... | 0940 | 513                     | 13.0                        | 29                                           | 43                                               | 16                                            | 130                                        | 18                                                     | 309                                  | 0                                 |
| JUNE  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 17... | 0900 | 222                     | 10.5                        | 30                                           | 42                                               | 15                                            | 120                                        | 14                                                     | 304                                  | 0                                 |
| JULY  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 20... | 1200 | 153                     | 22.0                        | 32                                           | 39                                               | 15                                            | 120                                        | 14                                                     | 288                                  | 0                                 |
| AUG.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 15... | 1115 | 285                     | 21.5                        | 32                                           | 42                                               | 15                                            | 120                                        | 13                                                     | 268                                  | 1                                 |
| SEP.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 1025 | 82                      | 17.0                        | 32                                           | 38                                               | 16                                            | 150                                        | 17                                                     | 299                                  | 0                                 |

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NEV.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| DEC.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 01... | --                                                        | 78                                                | --                                               | .01                                                           | .000                                       | .01                                        | --                                                          | --                                        | --                                      |
| 17... | --                                                        | 82                                                | --                                               | .02                                                           | .000                                       | .02                                        | --                                                          | --                                        | --                                      |
| JAN.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 26... | 79                                                        | 100                                               | .9                                               | .01                                                           | .000                                       | .01                                        | .05                                                         | .77                                       | .83                                     |
| FEB.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 16... | 94                                                        | 230                                               | --                                               | .08                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAR.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 17... | 82                                                        | 110                                               | --                                               | .00                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| APR.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 19... | 74                                                        | 110                                               | .9                                               | .00                                                           | .000                                       | .00                                        | .09                                                         | .22                                       | .31                                     |
| MAY   |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 11... | 68                                                        | 110                                               | --                                               | .03                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JUNE  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 17... | 72                                                        | 91                                                | --                                               | .04                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JULY  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 20... | 72                                                        | 100                                               | .8                                               | .01                                                           | .000                                       | .01                                        | .09                                                         | .44                                       | .54                                     |
| AUG.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 15... | 82                                                        | 100                                               | --                                               | .03                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| SEP.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 21... | 79                                                        | 140                                               | --                                               | .00                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |

| DATE  | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) |
|-------|--------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|
| DEC.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 01... | .03                                                          | --                                        | --                                                               | E550                                                                | E81.4                                            | 160                                | 4.4                                     | 895                                                   | --            |
| 17... | .03                                                          | --                                        | 564                                                              | --                                                                  | 29.5                                             | 170                                | 4.3                                     | 919                                                   | 8.4           |
| JAN.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 26... | .02                                                          | .07                                       | --                                                               | 609                                                                 | 32.9                                             | 180                                | 4.9                                     | 973                                                   | 8.5           |
| FEB.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 16... | .03                                                          | --                                        | --                                                               | 834                                                                 | 491                                              | 190                                | 7.0                                     | 1430                                                  | 8.3           |
| MAR.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 17... | .01                                                          | --                                        | --                                                               | 615                                                                 | 1020                                             | 170                                | 5.0                                     | 1000                                                  | 8.5           |
| APR.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 19... | .03                                                          | .07                                       | --                                                               | 590                                                                 | 1100                                             | 170                                | 4.7                                     | 990                                                   | 8.5           |
| MAY   |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 11... | .04                                                          | --                                        | --                                                               | 566                                                                 | 784                                              | 170                                | 4.3                                     | 946                                                   | 8.3           |
| JUNE  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 17... | .04                                                          | --                                        | --                                                               | 534                                                                 | 320                                              | 170                                | 4.0                                     | 881                                                   | 8.1           |
| JULY  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 20... | .05                                                          | .18                                       | --                                                               | 535                                                                 | 221                                              | 160                                | 4.1                                     | 903                                                   | 8.1           |
| AUG.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 15... | .06                                                          | --                                        | --                                                               | 537                                                                 | 413                                              | 170                                | 4.0                                     | 926                                                   | 8.4           |
| SEP.  |                                                              |                                           |                                                                  |                                                                     |                                                  |                                    |                                         |                                                       |               |
| 21... | .04                                                          | --                                        | --                                                               | 619                                                                 | 138                                              | 160                                | 5.1                                     | 1070                                                  | 8.3           |

E: Estimated.



CONDUCTIVITY (MICROMHOS AT 25 DEG. C) , RANDOM (INSTANTANEOUS)

WATER TEMPERATURE (DEG. C) , RANDOM (INSTANTANEOUS)[illegible]

## PYRAMID AND WINNEMUCCA LAKES BASIN

235

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 downstream from Farad hydroelectric powerplant, 2.5 miles north of Floriston, and 3.5 miles upstream from California-Nevada State line.

DRAINAGE AREA.--932 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1964 to September 1972 (published as Truckee River at Floriston, Calif., sta. no. 10345900, Jan. 1964 to Sept. 1971).

Water temperatures: January 1964 to September 1972 (see note above).

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 129 micromhos Feb. 27; minimum daily, 58 micromhos May 28.

Water temperature: Maximum daily, 22.0°C July 20; minimum daily, freezing point on several days during winter months.

Period of record:

Specific conductance 1964-66, 1967-72: Maximum, 141 micromhos Feb. 3, 1964; minimum, 39 micromhos Dec. 23, 1964.

Water temperature: Maximum, 22.0°C July 20, 1972; 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 upstream from present site from January 1964 through September 1971. Daily specific-conductance and temperature data are collected at Farad powerplant, 0.7 miles upstream from gage.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME | DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|-------|------|-------------------------|-----------------------------|----------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| UCT.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 1045 | 1040                    | 8.5                         | 16                                           | 7.8                                              | 2.0                                           | 4.5                                        | 1.5                                                    | 45                                   | 0                                 |
| NOV.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 26... | 1415 | 447                     | 5.5                         | --                                           | 8.4                                              | 2.8                                           | 5.9                                        | --                                                     | 58                                   | 0                                 |
| DEC.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 20... | 1050 | 450                     | .5                          | --                                           | 9.5                                              | 3.1                                           | 6.1                                        | --                                                     | 55                                   | 0                                 |
| JAN.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 24... | 0955 | 405                     | .0                          | 17                                           | 9.6                                              | 3.2                                           | 6.9                                        | 1.6                                                    | 55                                   | 0                                 |
| FEB.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 23... | 1310 | 492                     | 4.5                         | 18                                           | 11                                               | 3.3                                           | 10                                         | 1.9                                                    | 68                                   | 0                                 |
| MAR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 21... | 1100 | 892                     | 7.0                         | 18                                           | 8.7                                              | 2.4                                           | 4.2                                        | 1.4                                                    | 45                                   | 0                                 |
| APR.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 17... | 1330 | 873                     | 8.0                         | 17                                           | 7.3                                              | 2.4                                           | 5.0                                        | 1.2                                                    | 44                                   | 0                                 |
| MAY   |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 23... | 1055 | 1040                    | 9.0                         | 17                                           | 7.2                                              | 2.1                                           | 3.4                                        | 1.3                                                    | 42                                   | 0                                 |
| JUNE  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 20... | 1455 | 484                     | 16.5                        | 17                                           | 7.6                                              | 2.2                                           | 3.6                                        | 1.4                                                    | 41                                   | 0                                 |
| JULY  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 17... | 1405 | 527                     | 20.0                        | 16                                           | 8.8                                              | 2.7                                           | 5.9                                        | 1.8                                                    | 53                                   | 0                                 |
| AUG.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 24... | 0900 | 536                     | 15.0                        | 15                                           | 9.7                                              | 2.8                                           | 6.6                                        | 1.7                                                    | 55                                   | 0                                 |
| SEP.  |      |                         |                             |                                              |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 19... | 0930 | 508                     | 12.0                        | 15                                           | 8.8                                              | 2.6                                           | 5.4                                        | 1.6                                                    | 52                                   | 0                                 |

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| OCT.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 19... | 2.8                                                       | 1.7                                               | .0                                               | .03                                                           | .000                                       | .03                                        | .11                                                         | .15                                       | .29                                     |
| NOV.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 26... | --                                                        | 3.0                                               | --                                               | .01                                                           | .000                                       | .01                                        | --                                                          | --                                        | --                                      |
| DEC.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 20... | --                                                        | 3.4                                               | --                                               | .03                                                           | .000                                       | .03                                        | --                                                          | --                                        | --                                      |
| JAN.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 24... | 2.8                                                       | 5.5                                               | .0                                               | .04                                                           | .000                                       | .04                                        | .01                                                         | .24                                       | .29                                     |
| FEB.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 23... | 4.4                                                       | 6.1                                               | --                                               | .06                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| MAR.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 21... | 2.5                                                       | 4.5                                               | --                                               | .08                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| APR.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 17... | 3.4                                                       | 3.7                                               | .3                                               | .02                                                           | .000                                       | .02                                        | .01                                                         | .18                                       | .21                                     |
| MAY   |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 23... | 2.9                                                       | 3.4                                               | --                                               | .02                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JUNE  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 20... | 5.1                                                       | 1.1                                               | --                                               | .02                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| JULY  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 17... | 3.3                                                       | 2.4                                               | --                                               | .04                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |
| AUG.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 24... | 4.0                                                       | 3.2                                               | .1                                               | .02                                                           | .000                                       | .02                                        | .01                                                         | .14                                       | .17                                     |
| SEP.  |                                                           |                                                   |                                                  |                                                               |                                            |                                            |                                                             |                                           |                                         |
| 19... | 4.2                                                       | 5.1                                               | --                                               | .02                                                           | --                                         | --                                         | --                                                          | --                                        | --                                      |

| DATE  | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) |
|-------|--------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|---------------|
| OCT.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 19... | .00                                                          | .08                                       | --                                                               | 59                                                             | 166                                              | 28                                 | .4                                      | 79                                                    | 7.5           |
| NOV.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 26... | .01                                                          | --                                        | 72                                                               | --                                                             | 86.9                                             | 32                                 | .5                                      | 101                                                   | 7.5           |
| DEC.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 20... | .01                                                          | --                                        | 64                                                               | --                                                             | 77.8                                             | 36                                 | .4                                      | 104                                                   | 7.7           |
| JAN.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 24... | .01                                                          | .05                                       | --                                                               | 74                                                             | 80.9                                             | 37                                 | .5                                      | 111                                                   | 7.4           |
| FEB.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 23... | .01                                                          | --                                        | --                                                               | 88                                                             | 117                                              | 41                                 | .7                                      | 112                                                   | 8.2           |
| MAR.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 21... | .00                                                          | --                                        | --                                                               | 64                                                             | 154                                              | 32                                 | .3                                      | 84                                                    | 7.6           |
| APR.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 17... | .02                                                          | .11                                       | --                                                               | 62                                                             | 146                                              | 28                                 | .4                                      | 84                                                    | 7.6           |
| MAY   |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 23... | .01                                                          | --                                        | --                                                               | 58                                                             | 163                                              | 27                                 | .3                                      | 82                                                    | 7.9           |
| JUNE  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 20... | .00                                                          | --                                        | --                                                               | 58                                                             | 75.8                                             | 28                                 | .3                                      | 75                                                    | 8.0           |
| JULY  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 17... | .00                                                          | --                                        | --                                                               | 67                                                             | 95.3                                             | 33                                 | .4                                      | 96                                                    | 7.0           |
| AUG.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 24... | .00                                                          | .03                                       | --                                                               | 70                                                             | 101                                              | 36                                 | .5                                      | 98                                                    | 7.6           |
| SEP.  |                                                              |                                           |                                                                  |                                                                |                                                  |                                    |                                         |                                                       |               |
| 19... | .01                                                          | --                                        | --                                                               | 68                                                             | 93.3                                             | 33                                 | .4                                      | 94                                                    | 7.1           |

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[illegible]

## 10351650 TRUCKEE RIVER AT WADSWORTH, NEV.

LOCATION.--Lat 39°38'19", long 119°16'09", in SW 1/4 sec.34, T.21 N., R.24 E., Washoe County, temperature recorder at gaging station on right bank, 0.5 mile downstream from U.S. Highway 40 bridge, and 0.2 mile northeast of Wadsworth.

DRAINAGE AREA.--1,719 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1965 to September 1972.

## WATER TEMPERATURE (DEG. C)

| DAY   | OCTOBER |      | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
|-------|---------|------|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | MAX     | MIN  | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
| 1     | 10.5    | 8.5  | 8.5      | 5.0 | 6.5      | 4.5 | 3.5     | 3.0 | 1.0      | 0.5 | 6.5   | 5.0 |
| 2     | 12.5    | 9.5  | 9.0      | 6.0 | 8.0      | 5.5 | 3.5     | 2.5 | 1.5      | 0.5 | 9.5   | 6.0 |
| 3     | 13.5    | 10.5 | 9.5      | 6.0 | 6.5      | 4.5 | 2.5     | 2.0 | 1.5      | 0.5 | 11.0  | 7.5 |
| 4     | 14.5    | 11.0 | 10.0     | 7.5 | 6.5      | 4.0 | ---     | --- | 2.0      | 0.5 | 11.0  | 9.0 |
| 5     | 15.5    | 12.0 | 9.5      | 7.0 | 8.5      | 6.0 | 2.5     | 2.0 | 3.0      | 1.5 | 10.5  | 8.5 |
| 6     | 16.0    | 12.5 | 9.0      | 6.0 | 8.5      | 6.5 | 2.5     | 2.0 | 5.0      | 2.5 | 9.5   | 7.5 |
| 7     | 16.0    | 13.5 | 8.5      | 6.0 | 6.0      | 3.5 | 2.5     | 2.0 | 5.5      | 3.5 | 10.0  | 7.5 |
| 8     | 16.0    | 14.0 | 9.0      | 6.0 | 4.0      | 3.0 | 2.5     | 2.0 | 5.5      | 4.0 | 10.5  | 9.0 |
| 9     | 16.0    | 13.5 | 9.5      | 6.5 | 4.0      | 3.5 | 2.5     | 2.0 | 5.5      | 4.0 | 10.0  | 8.0 |
| 10    | 16.0    | 13.5 | 11.5     | 7.5 | 4.0      | 3.0 | 3.0     | 2.0 | 5.5      | 3.0 | 10.0  | 8.0 |
| 11    | 16.0    | 14.0 | 11.5     | 9.5 | 5.0      | 3.0 | 3.0     | 2.0 | 6.0      | 3.5 | 10.5  | 8.0 |
| 12    | 15.5    | 13.5 | 11.0     | 6.5 | 5.0      | 4.0 | 3.5     | 2.5 | 6.5      | 5.0 | 9.0   | 8.0 |
| 13    | 15.5    | 13.0 | 6.5      | 7.0 | 4.0      | 1.5 | 3.5     | 2.5 | 7.0      | 5.5 | 9.5   | 7.0 |
| 14    | 15.5    | 13.0 | 7.5      | 5.5 | 3.0      | 1.5 | 5.0     | 2.5 | 6.5      | 5.0 | 9.5   | 7.5 |
| 15    | 13.5    | 11.0 | 7.0      | 6.5 | 3.0      | 2.0 | 5.0     | 4.0 | 6.5      | 4.5 | 9.5   | 7.5 |
| 16    | 11.0    | 9.0  | 8.5      | 4.5 | 2.5      | 1.5 | 4.5     | 3.0 | 7.5      | 4.5 | 10.5  | 7.5 |
| 17    | 9.0     | 6.5  | 6.5      | 5.0 | 2.5      | 1.5 | 4.5     | 3.0 | 7.0      | 4.5 | 11.0  | 8.5 |
| 18    | 10.0    | 6.0  | 7.5      | 6.5 | 2.0      | 1.5 | 5.5     | 4.0 | 7.0      | 5.0 | 11.0  | 9.0 |
| 19    | 11.5    | 9.0  | 9.0      | 4.5 | 3.0      | 1.5 | 6.0     | 5.0 | 8.0      | 5.5 | 10.5  | 8.0 |
| 20    | 11.5    | 10.0 | 9.0      | 4.5 | 3.5      | 1.5 | 7.0     | 5.5 | 9.0      | 6.5 | 10.5  | 7.5 |
| 21    | 13.0    | 10.5 | 8.5      | 6.0 | 3.5      | 2.5 | 6.5     | 6.0 | 9.0      | 6.0 | 11.0  | 8.5 |
| 22    | 12.0    | 10.0 | 10.0     | 6.5 | 4.5      | 3.0 | 6.5     | 5.0 | 8.0      | 6.0 | 11.0  | 9.0 |
| 23    | 11.5    | 9.5  | 9.5      | 6.0 | 4.0      | 3.5 | 5.5     | 3.5 | 7.0      | 5.0 | 9.5   | 7.0 |
| 24    | 10.5    | 9.5  | 9.5      | 6.5 | 4.0      | 3.5 | 4.5     | 3.0 | 7.0      | 4.0 | 9.0   | 6.5 |
| 25    | 10.0    | 6.5  | 6.5      | 6.5 | 4.0      | 3.0 | 4.0     | 2.0 | 7.0      | 3.5 | 10.0  | 7.5 |
| 26    | 10.0    | 6.5  | 6.0      | 7.0 | 3.5      | 1.5 | 3.0     | 1.5 | 7.5      | 5.0 | 9.0   | 6.5 |
| 27    | 9.5     | 6.5  | 6.0      | 7.0 | 1.5      | 1.5 | 2.0     | 1.0 | 9.0      | 6.0 | 8.5   | 5.5 |
| 28    | 9.5     | 7.0  | 7.5      | 6.0 | 2.5      | 1.5 | 2.5     | 1.0 | 9.0      | 7.0 | 8.5   | 5.5 |
| 29    | 7.5     | 4.5  | 7.0      | 5.0 | 3.0      | 1.5 | 2.5     | 1.0 | 7.0      | 9.0 | 9.5   | 6.0 |
| 30    | 7.0     | 4.5  | 6.5      | 5.5 | 3.5      | 2.5 | 2.5     | 1.0 | ---      | --- | 11.0  | 6.5 |
| 31    | 8.0     | 5.0  | ---      | --- | 3.5      | 2.5 | 2.5     | 0.5 | ---      | --- | 10.5  | 7.5 |
| MONTH | 16.0    | 4.5  | 11.5     | 4.5 | 8.5      | 1.5 | 7.0     | 0.5 | 9.0      | 0.5 | 11.0  | 5.0 |

EXTREMES.--1971-72:

Period of record:

WATER TEMPERATURE (DEG. C)

[illegible]





## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATION

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## PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NEV. (LAT 39°46'40", LONG 119°20'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE  | TIME | TEMP-<br>ERATURE<br>(DEG C)<br>(00010) | DIS-<br>CHARGE<br>(CFS)<br>(00060) | SUS-<br>PENDED<br>SEDIM-<br>ENT<br>(MG/L)<br>(80154) | SUS-<br>PENDED<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(1/DAY)<br>(80155) |
|-------|------|----------------------------------------|------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|
| OCT.  |      |                                        |                                    |                                                      |                                                                         |
| 05... | 1250 | 11.0                                   | 602                                | 37                                                   | 60                                                                      |
| NOV.  |      |                                        |                                    |                                                      |                                                                         |
| 05... | 1345 | 7.0                                    | 253                                | 14                                                   | 9.6                                                                     |
| 30... | 1235 | 5.0                                    | 74                                 | 2                                                    | .40                                                                     |
| DEC.  |      |                                        |                                    |                                                      |                                                                         |
| 20... | 1530 | 6.0                                    | 1300                               | 82                                                   | 288                                                                     |
| JAN.  |      |                                        |                                    |                                                      |                                                                         |
| 01... | 1350 | 7.0                                    | 708                                | 67                                                   | 128                                                                     |
| 08... | 1330 | 11.5                                   | 695                                | 63                                                   | 118                                                                     |
| FEB.  |      |                                        |                                    |                                                      |                                                                         |
| 05... | 1400 | 12.0                                   | 115                                | 9                                                    | 2.8                                                                     |
| MAY   |      |                                        |                                    |                                                      |                                                                         |
| 02... | 1340 | 16.0                                   | 260                                | 26                                                   | 18                                                                      |
| 31... | 1130 | 21.0                                   | 124                                | 14                                                   | 4.7                                                                     |
| JULY  |      |                                        |                                    |                                                      |                                                                         |
| 03... | 1330 | 23.0                                   | 40                                 | 29                                                   | 3.1                                                                     |
| AUG.  |      |                                        |                                    |                                                      |                                                                         |
| 01... | 1300 | 24.0                                   | 52                                 | 42                                                   | 5.9                                                                     |
| SEP.  |      |                                        |                                    |                                                      |                                                                         |
| 05... | 1300 | 19.5                                   | 73                                 | 26                                                   | 5.1                                                                     |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

09420600 LAKE MEAD AT ICEBERG CANYON, ARIZ.-NEV.  
(RIVER MILE 287.5) (LAT 36°11', LONG 114°04')\*

| DATE | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT. |               |                                   |                                                 |                                                   |                        |                               |
| 5... | 0             | 17.0                              | 144                                             | 885                                               | 8.0                    | 9.4                           |
| 5... | 10            | 16.0                              | 144                                             | 888                                               | 8.2                    | 9.3                           |
| 5... | 25            | 15.5                              | 147                                             | 915                                               | 8.2                    | 9.4                           |

09420650 LAKE MEAD AT SANDY POINT, ARIZ.  
(RIVER MILE 295.0) (LAT 36°07', LONG 114°07')\*

| DATE | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT. |               |                                   |                                                 |                                                   |                        |                               |
| 4... | 0             | 23.0                              | 130                                             | 917                                               | 8.4                    | 8.6                           |
| 4... | 10            | 23.0                              | 137                                             | 917                                               | 8.6                    | 8.8                           |
| 4... | 25            | 22.0                              | 130                                             | 917                                               | 8.6                    | 8.4                           |
| 4... | 75            | 21.5                              | 133                                             | 900                                               | 8.4                    | 8.2                           |
| 4... | 125           | 18.5                              | 140                                             | 880                                               | 8.2                    | 8.2                           |
| 4... | 170           | 17.0                              | 144                                             | 879                                               | 8.0                    | 6.2                           |

09420700 LAKE MEAD AT VIRGIN CANYON, ARIZ.-NEV.  
(RIVER MILE 305.3) (LAT 36°16', LONG 114°24')\*

| DATE | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT. |               |                                   |                                                 |                                                   |                        |                               |
| 4... | 0             | 22.0                              | 130                                             | 910                                               | 8.1                    | 8.2                           |
| 4... | 10            | 22.0                              | 130                                             | 920                                               | 8.2                    | 8.2                           |
| 4... | 25            | 22.0                              | 128                                             | 920                                               | 8.2                    | 8.2                           |
| 4... | 75            | 21.5                              | 130                                             | 920                                               | 8.4                    | 8.1                           |
| 4... | 125           | 19.0                              | 141                                             | 880                                               | 8.0                    | 6.4                           |
| 4... | 175           | 15.5                              | 148                                             | 948                                               | 7.9                    | 6.5                           |
| 4... | 225           | 13.5                              | 143                                             | 968                                               | 7.9                    | 6.7                           |
| 4... | 275           | 12.0                              | 142                                             | 985                                               | 7.9                    | 6.4                           |

09420750 LAKE MEAD NEAR OVERTON BEACH, NEV.  
(RIVER MILE 27.5) (LAT 36°27', LONG 114°21')\*

| DATE  | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CACO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|-------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT.  |               |                                   |                                                 |                                                   |                        |                               |
| 13... | 0             | 25.0                              | 148                                             | 1110                                              | 7.9                    | 7.6                           |

\* Field determinations by U.S. Bureau of Reclamation.

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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## COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

09420800 LAKE MEAD AT OVERTON ISLANDS, NEV.  
(RIVER MILE 9.5) (LAT 36°01', LONG 114°12')\*

| DATE  | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CaCO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|-------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT.  |               |                                   |                                                 |                                                   |                        |                               |
| 13... | 0             | 22.5                              | 130                                             | 1010                                              | 8.2                    | 8.2                           |
| 13... | 10            | 22.5                              | 132                                             | 1010                                              | 8.4                    | 8.6                           |
| 13... | 25            | 22.0                              | 133                                             | 1005                                              | 8.4                    | 8.5                           |
| 13... | 75            | 21.0                              | 137                                             | 1040                                              | 8.3                    | 7.0                           |
| 13... | 125           | 17.0                              | 146                                             | 1040                                              | 8.0                    | 4.5                           |
| 13... | 175           | 14.0                              | 146                                             | 1058                                              | 8.0                    | 5.2                           |
| 13... | 225           | 13.0                              | 144                                             | 1045                                              | 8.0                    | 6.6                           |
| 13... | 254           | 12.5                              | 162                                             | 1050                                              | 8.0                    | 6.4                           |

09420850 LAKE MEAD AT BOULDER CANYON, ARIZ.-NEV.  
(RIVER MILE 334.6) (LAT 36°08', LONG 114°37')\*

| DATE | DEPTH<br>(FT) | TEMPER-<br>ATURE<br>WATER<br>(°C) | ALKA-<br>LINITY,<br>TOTAL<br>(MG/L AS<br>CaCO3) | SPECIFIC<br>CONDUCT-<br>TANCE<br>(MICRO-<br>MHOS) | FIELD<br>PH<br>(UNITS) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|------|---------------|-----------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------|-------------------------------|
| OCT. |               |                                   |                                                 |                                                   |                        |                               |
| 6... | 0             | 21.5                              | 128                                             | 990                                               | 7.7                    | 7.6                           |
| 6... | 10            | 21.5                              | 128                                             | 995                                               | 8.2                    | 7.6                           |
| 6... | 25            | 21.5                              | 128                                             | 1000                                              | 8.3                    | 7.6                           |
| 6... | 75            | 21.5                              | 131                                             | 998                                               | 8.2                    | 7.7                           |
| 6... | 125           | 21.5                              | 140                                             | 1000                                              | 8.0                    | 5.5                           |
| 6... | 175           | 17.0                              | 142                                             | 1000                                              | 8.0                    | 6.5                           |
| 6... | 225           | 14.0                              | 142                                             | 1028                                              | 8.0                    | 6.8                           |
| 6... | 275           | 13.0                              | 142                                             | 1040                                              | 8.0                    | 6.6                           |
| 6... | 325           | 12.0                              | 142                                             | 1045                                              | 8.0                    | 6.6                           |
| 6... | 380           | 12.0                              | 146                                             | 1050                                              | 8.0                    | 6.0                           |

\* 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 1971 TO SEPTEMBER 1972

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMP-<br>ERATURE<br>(DEG C) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|------|------|-----------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------|-----------------------------------|
|------|------|-----------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------|-----------------------------------|

## 10293000 - E WALKER R NR BRIDGEPORT CALIF (LAT 38°19'40" LONG 119°12'50")

|            |       |     |      |    |     |    |     |    |
|------------|-------|-----|------|----|-----|----|-----|----|
| APR., 1972 |       |     |      |    |     |    |     |    |
| 27...      | 1300  | --  | --   | 24 | 4.6 | 17 | 115 | 0  |
| 27...      | F1300 | 251 | 9.0  | -- | --  | -- | --  | -- |
| SEP.       |       |     |      |    |     |    |     |    |
| 28...      | 1215  | --  | --   | 30 | 4.4 | 13 | 135 | 0  |
| 28...      | F1215 | 80  | 13.5 | -- | --  | -- | --  | -- |

10296000 - W WALKER R BELOW LITTLE WALKER R NR COLEVILLE CALIF  
(LAT 38°22'45" LONG 119°29'00")

|            |       |    |      |     |     |     |    |    |
|------------|-------|----|------|-----|-----|-----|----|----|
| APR., 1972 |       |    |      |     |     |     |    |    |
| 27...      | 1125  | -- | --   | 7.6 | 1.3 | 3.5 | 36 | 0  |
| 27...      | F1125 | 46 | 8.0  | --  | --  | --  | -- | -- |
| SEP.       |       |    |      |     |     |     |    |    |
| 28...      | 1120  | -- | --   | 13  | 3.5 | 17  | 86 | 0  |
| 28...      | F1120 | 38 | 11.5 | --  | --  | --  | -- | -- |

## 10305500 - EF CARSON R NR MARKLEEVILLE CALIF (LAT 38°41'20" LONG 119°45'44")

|            |       |     |      |     |     |     |    |    |
|------------|-------|-----|------|-----|-----|-----|----|----|
| APR., 1972 |       |     |      |     |     |     |    |    |
| 27...      | 1430  | --  | --   | 9.4 | 2.6 | 6.8 | 48 | 0  |
| 27...      | F1430 | 392 | 11.5 | --  | --  | --  | -- | -- |
| SEP.       |       |     |      |     |     |     |    |    |
| 28...      | 0945  | --  | --   | 12  | 3.4 | 8.2 | 69 | 0  |
| 28...      | F0945 | 55  | 8.5  | --  | --  | --  | -- | -- |

## 10310000 - WF CARSON R AT WOODFORDS CALIF (LAT 38°46'10" LONG 119°49'55")

|            |       |     |     |     |     |     |    |    |
|------------|-------|-----|-----|-----|-----|-----|----|----|
| APR., 1972 |       |     |     |     |     |     |    |    |
| 27...      | 1500  | --  | --  | 5.7 | 1.3 | 2.7 | 28 | 0  |
| 27...      | F1500 | 165 | 9.5 | --  | --  | --  | -- | -- |
| SEP.       |       |     |     |     |     |     |    |    |
| 28...      | 0845  | --  | --  | 9.4 | 1.3 | 3.5 | 42 | 0  |
| 28...      | F0845 | 38  | 7.0 | --  | --  | --  | -- | -- |

F Field data.

## WALKER LAKE AND CARSON RIVER BASINS

WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| DATE | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPECI-<br>FIC<br>COND-<br>UCTANCE<br>(MICRO-<br>MHOS) | TUR-<br>BID-<br>ITY<br>(JTU) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------|---------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|------------------------------|---------------|------------------------------------|
|------|---------------------------------------------------|------------------------------------|-----------------------------------------|-------------------------------------------------------|------------------------------|---------------|------------------------------------|

10293000 - E WALKER R NR BRIDGEPORT CALIF (LAT 38°19'40"LONG 119°12'50")

|            |     |    |    |     |    |     |     |
|------------|-----|----|----|-----|----|-----|-----|
| APR.. 1972 |     |    |    |     |    |     |     |
| 27...      | 1.7 | 80 | .8 | --  | 4  | --  | --  |
| 27...      | --  | -- | -- | 200 | -- | 8.0 | 9.2 |
| SEP.       |     |    |    |     |    |     |     |
| 28...      | 1.6 | 93 | .6 | --  | 44 | --  | --  |
| 28...      | --  | -- | -- | 225 | -- | 7.9 | 7.9 |

10296000 - W WALKER R BELOW LITTLE WALKER R NR COLEVILLE CALIF  
(LAT 38°22'45"LONG 119°27'00")

|            |     |    |     |     |    |     |     |
|------------|-----|----|-----|-----|----|-----|-----|
| APR.. 1972 |     |    |     |     |    |     |     |
| 27...      | .6  | 25 | .3  | --  | 0  | --  | --  |
| 27...      | --  | -- | --  | 64  | -- | 7.4 | 9.8 |
| SEP.       |     |    |     |     |    |     |     |
| 28...      | 5.4 | 47 | 1.1 | --  | 1  | --  | --  |
| 28...      | --  | -- | --  | 160 | -- | 8.0 | 9.8 |

10305500 - EF CARSON R NR MARKLEEVILLE CALIF (LAT 38°41'20"LONG 119°45'44")

|            |     |    |    |     |    |     |      |
|------------|-----|----|----|-----|----|-----|------|
| APR.. 1972 |     |    |    |     |    |     |      |
| 27...      | 1.0 | 34 | .5 | --  | 0  | --  | --   |
| 27...      | --  | -- | -- | 91  | -- | 7.6 | 8.8  |
| SEP.       |     |    |    |     |    |     |      |
| 28...      | 3.7 | 44 | .5 | --  | 1  | --  | --   |
| 28...      | --  | -- | -- | 125 | -- | 7.8 | 10.1 |

10310000 - WF CARSON R AT WOODFORDS CALIF (LAT 38°46'10"LONG 119°49'55")

|            |     |    |    |    |    |     |      |
|------------|-----|----|----|----|----|-----|------|
| APR.. 1972 |     |    |    |    |    |     |      |
| 27...      | .0  | 20 | .3 | -- | 0  | --  | --   |
| 27...      | --  | -- | -- | 50 | -- | 7.3 | 9.2  |
| SEP.       |     |    |    |    |    |     |      |
| 28...      | 1.7 | 29 | .3 | -- | 1  | --  | --   |
| 28...      | --  | -- | -- | 75 | -- | 7.3 | 10.1 |





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